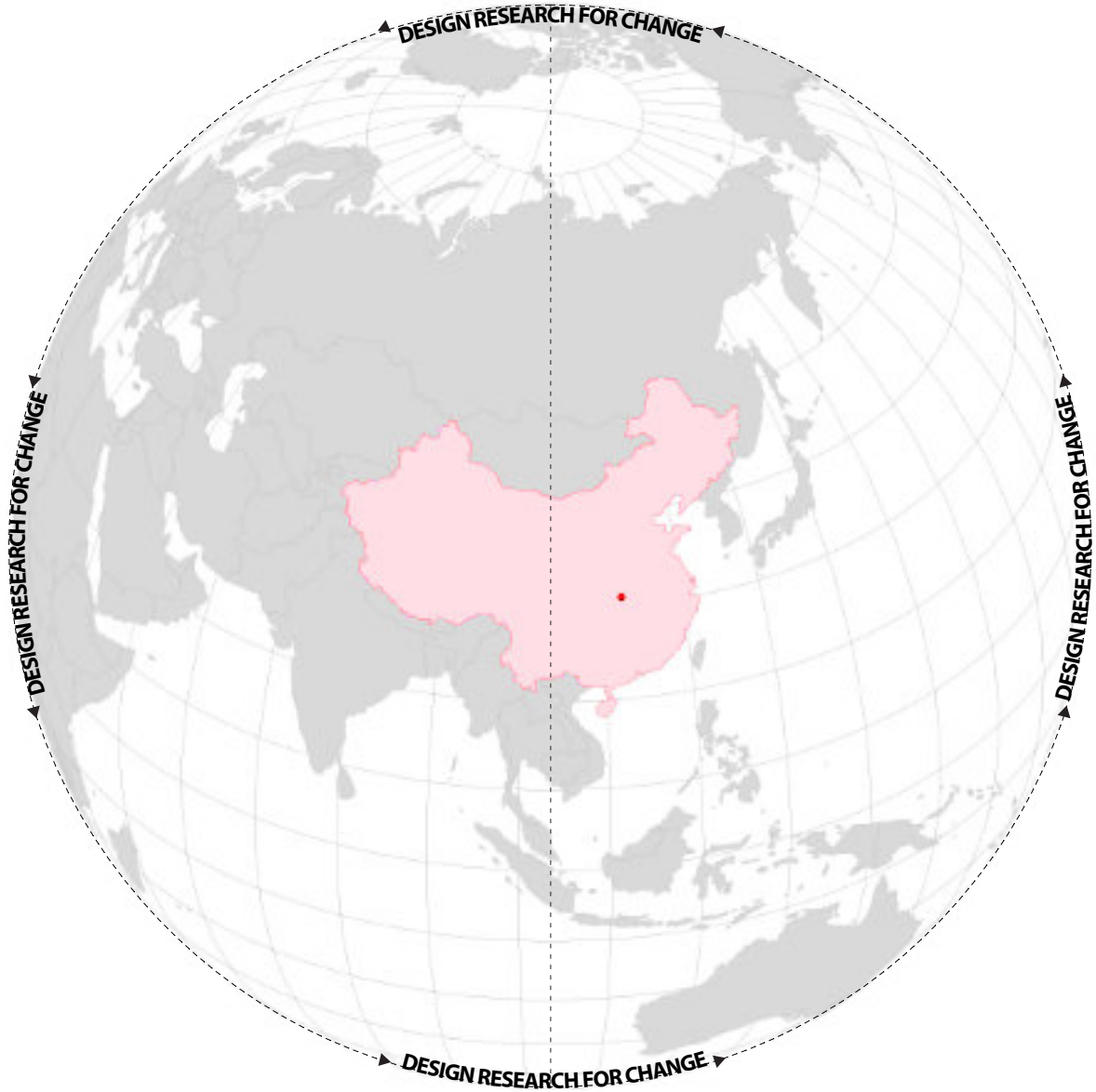


PAUL A. RODGERS

FERNANDO GALDON

CRAIG BREMNER

A DESIGN HISTORY OF THE COVID-19 VIRUS



01/JANUARY/2020

1

DAY

34

CASES

0

DEATHS

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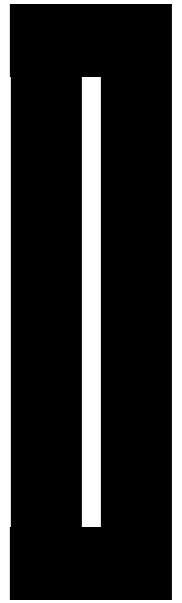
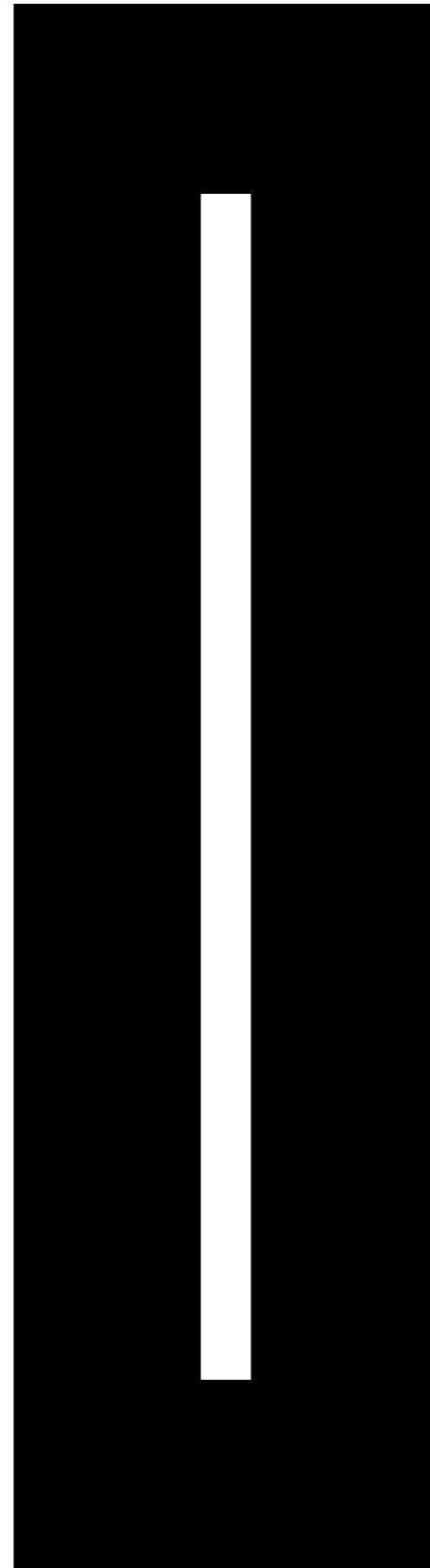
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AUTHORS

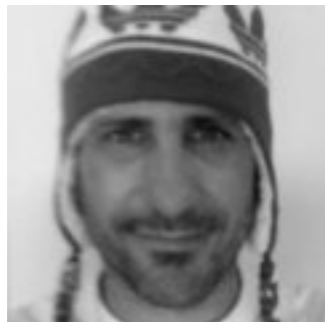
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Paul A. Rodgers
Professor of Design
University of Strathclyde
Glasgow, Scotland



Craig Bremner
Professor of Design
Charles Sturt University
New South Wales, Australia



Fernando Galdon
Lecturer in Innovation Design
Royal College of Art
London, England

AUTHORS 9

Prior to this position, He was Professor of Design at Imagination, Lancaster University. He is also the Arts and Humanities Research Council (UK) Design Leadership Fellow (2017 – 2020). He has undergraduate and postgraduate degrees in design from Middlesex University, London and a PhD in product design assessment from the University of Westminster, London. He is the author of 9 books including The Routledge Companion to Design Research. (Routledge, Oxon, 2015). Among several editorial positions, Professor Rodgers is an Editorial Board Member of the Design Studies journal.

He split this position with the University of Southern Denmark. Before that he was Professor in Design Pedagogy at Northumbria University UK, and before that Professor of Design at the University of Canberra, where he was also Dean of the Faculty of Design & Architecture. His research deals with developing methods to discover how and why we don't know much about the idea of design, as well as finding ways to clarify the reason why "not-knowing" is an essential and valuable beginning point of practice.

Currently, he is pursuing a doctoral program in Global Innovation Design at the RCA, where he is investigating trust design at the intersection of AI, ethics, futures, and society. His research has been published and presented internationally at conferences at MIT, The University of Cambridge, The University of Manchester, the University of Côte d'Azur, The Design Museum or The Royal College of Art. He holds undergraduate studies in Structural engineering and Product design, and masters in Cognitive computing and Design research from Goldsmiths.

**A
DESIGN
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INTRODUCTION

I2 INTRODUCTION

The Covid-19 crisis and the designed interventions we have catalogued in this book appear to prove definitively that design does care. We have documented this as it evolved every day from the 1st of January 2020 to 31st May 2020 inclusive. As the cover and back cover, influenced by the work of Sean Clarke, Antonio Voce, Pablo Gutierrez and Frank Hulley-Jones at The Guardian's 100 days project, illustrate, we look at all of this care and caring from the point of view of design and, by the sheer volume of design interventions we have documented, illustrate that design is good in a crisis.

What the Covid-19 pandemic has illustrated is that for the first time in modern history capital was totally irrelevant. Money could not save your life. Only design could. Rapidly designed masks, shelters, hospitals, instructional posters, infographics, dashboards, respirators, sanitisers, virtual and local communities emerged to save us. From January 2020, design became king. The Covid-19 global pandemic presented an ontological reality; design is more than margins or profit. In fact, design became extremely valuable when it stopped concentrating on those things and started to care about peoples' lives. This brief episode in history is repositioning the status of design and reconfiguring its signifier from consumption to care.

In a recent interview for Design Emergency - a project that explores design's role and impact on the COVID-19 crisis and its aftermath - Alice Rawsthorn interviewed Dries Verbruggen, co-founder of Creatives tegen Corona (Creatives against Corona), "a collaborative network in Antwerp, started in response to the urgent need for personal protective equipment by Belgian health and social care workers in the Covid-19 crisis..." (Rawsthorn, 2020). Creatives tegen Corona used volunteers and created a not-for-profit company to deal with the situation by creating garments with donations, collaborated with a multiplicity of experts, and made their designs open-access. No money. No profit. No margins. Only caring for others. This is an example of how design excels and illustrates what design can be. If the inter-period between world wars repositioned economics from the margins to centre-stage, this crisis, which is not an economic crisis, but a design crisis, could reposition design from the margins to centre-stage.

INTRODUCTION I3

However, this should not come as a surprise. Design's turn from the overtly commercial to a wider social agenda is not new. Design has long despised its profitmaking and wasteful nature articulated by key figures such as Victor Papanek (Papanek, 1985), Ken Garland (Garland et al, 1964) and, more recently, by Anthony Dunne and Fiona Raby (Dunne, 2005) who argue for design that makes us think instead of making us buy. Design researcher Matt Malpass presents a multitude of design practices in the emancipatory-social-science spectrum such as Associative Design, Co-design, Transition Design, the aforementioned Speculative and Critical Design, Design Fiction, Design Activism, Socially Responsible Design, Participatory Design, Meta-Design, Transformation Design, Conceptual Design, Post-industrial Design, Social Design, Open Design, Design as Politics, or Sustainable Design (Malpass, 2017: 9).

In his critical paper, "On Design and Disillusion", Silvio Lorusso highlights the recent rise in labels like "social design", "critical design", and "speculative design" and how each of these iterations contributes to a spectacle of design super-heroes versus societal problems - packaged in events like the Dutch What Design Can Do, a platform created to "...demonstrate the power of design; to show that it can do more than make things pretty. To call on designers to stand up, take responsibility and consider the beneficial contribution that designers can make to society." (Lorusso, 2019: 110).

Whilst there is mileage in Lorusso's argument that design loves a challenge such as the "refugee challenge" or the "climate change challenge" where design positions itself as "...the ultimate problem-solving discipline", superior to governments or NGOs..." where "...global tragedies become design opportunities", there can be no doubt that the 500+ projects documented in this book are legitimately aiming to make things better for people.

We also consider this book to be one more of the 500+ projects we have assembled. It is a design response to the Coronavirus pandemic because we could see the need to collect all this material and assemble it as a durable record for all time because "...we need to learn to live in a world that is

interconnected not only ethereally or ideally, through communication technologies, but also materially, via direct embodied contact. In short, we must learn to live in a reality that may, at any moment, go viral." (Marder, 2020).

In this context, Bruce Archer went some way in 1978 to proposing design as a third culture of thinking. This approach was deepened by Nigel Cross in his seminal paper *Designerly Ways of Knowing*. Building on Archer's work at the Royal College of Art, he describes this third culture as: "...the collected experience of the material culture, and the collected body of experience, skill and understanding embodied in the arts of planning, inventing, making and doing." (Cross, 1982: 221). This is exactly what we have done in this book.

While leaderships were floundering, design (together with volunteers and the general public) was at the forefront of stepping in and sorting out many of the most significant problems during the Covid-19 crisis. Very obviously, planning, preparedness, readiness, and appropriateness, which are fundamental characteristics of design, were found wanting when many country's carefully-constructed and trialled global pandemic plans were put into action. As Lydia H. Liu asks: "...how do we end up in a state of unpreparedness in the midst of advanced preparedness?" (Liu, 2020) One answer presented endlessly by a critical media was that the Capital Project's search for maximum profit appeared to have undermined many countries' public health system's crisis capacity. The voids in pandemic plans enabled a space for potential interventions and, since there was nothing in place, design stepped up and stepped up very visibly. This book maps this response to build preparedness and to build a case for just how important to governance design and care are. From the massive number of cases assembled in this book, governments should have no choice but to recognise design's capabilities and integrate designers into an expanding concept of lasting care.

Every project in this book attempts to fill the shameful gaps left by the Capital Project when it extracted preparedness from the balance sheets of the world's healthcare systems. In what was beginning to look like an

unthinkable-world, these design projects care for people who clearly had both thinkable and previously unthinkable needs. As Joan W. Scott (2020) describes "The pandemic has exposed yet another of the fault-lines of our moment: the difficulty of imagining ourselves beyond the current worlds in which we live." (Scott, 2020) The ability to imagine possible futures or future possibilities or what-might-become is the historic territory of design, the designer, and the act of designing. Or at least it used to be. But as Franco 'Bifo' Berardi maintains we were already living through the 'slow cancellation' of the future where what-might-become is morphing into what-might-not become (Berardi, 2011).

This temporal contest – present versus future – is also a mental space occupied by administrations as Mike Davis points out: "On the same day that the president was bragging of the United States' unmatched scientific and technological superiority," the New York Times was devoting a page to "How to Sew a Mask at Home." (Davis, 2020b) Again, Joan W. Scott broadens this temporal contest when she compares past and future: "Sometime in the twentieth century, we lost our belief in the redemptive power of history and so in the guarantee of a better future." Again, this resonates strongly in the world of design where many seem to ignore or are ignorant of historical accounts of design[ing] and fall into the trap of reinventing the wheel. By compiling this impressive and comprehensive response to Covid-19, we partly redeem some of design's temporal confusion – seeing no future in the past, locked in an imitative loop in the present while imagining it is designing the future. A response of this magnitude, showing what design can do, also partly redeems design's unwillingness to take responsibility for what design does. And prior to design's response to the Covid-19 crisis the state of design might best have been described as being trapped in a number of paradoxes – sustaining the unsustainable, disciplining the undisciplined, reconciling future visions with harsh realities, and others (Rodgers et al, 2017). In the case of the coronavirus pandemic, the context is paradoxical (combating an invisible enemy) and we have had to make many undesirable choices (e.g. lock down or die!). But dilemmas are what design confronts constantly in practice. For instance, the contradiction of designing a tracking system to help, but which implies invading somebody's privacy.

The Covid-19 design responses acknowledge our material and energy flows and environmental impact and contests the legitimisation of power – to respond is to be responsible and many governments are being criticised for their irresponsible response. As we have said, and as the 500+ interventions in this book show, design has proved that in a crisis it cares.

It is possible that all of this, both the known and the unknown, must have been chronicled in non-stop media coverage. But like the contents of this book some of this can be analysed. The website “Coronavirus Readings” (URL is in the references) allows users to “...browse and search a wide range of analysis and commentary relevant to COVID-19 - across text, video and audio in multiple languages”. At the time of writing there were over 12,500 contributions. Half were produced in English and the rest in seven other languages. Journalism makes up 90% of the database. It already lists two books (to the best of our knowledge there are already 5 books). The topic ‘future’ makes up only 3.5% of the readings, which doesn’t seem to align with the vast amount of journalism competing to predict the effect of the pandemic as the long-awaited opportunity to think and do everything anew – what is dubbed the new normal. This output aligns with our research, were most of the work included was discovered by searching the specialist blogosphere coverage of the event. Their agility and connectivity provided an in-the-moment space for enquiry. In contrast to the relentless media speculation competing to project both evermore worse or forever better future scenarios, this book functions as a ‘history’ – a history of the design reaction to Covid-19.

This book is organised in a pure chronological order as a history of design interventions. We have listed everything chronologically – day-by-day from 1st of January 2020 to 31st May 2020 inclusive. This temporal span, based in the UK, encompasses the outbreak of the virus, the lockdown period, and the reopening. Accounting for 500+ design interventions in total. These interventions are a record of places, dates, embodiments and strategies by which to extract knowledge. The proposed chronological structure operated as a type of index system that we have operationalised by articulating several graphic organisational frameworks enables projects to be cross-referenced

and compared. By using chronology to frame the assembly of this book we uncover evolutive traces. For instance, posters are first instructional, then emotional, and then they become political. In terms of Personal Protective Equipment (PPE), we observed transparent masks becoming simplified over time. The first models were complex and 3D-printed. The latest models are a sheet of plastic with 2 holes and a band, thereby removing the need for 3D printers, and enhancing production and sustainability in the process. Furthermore, we have discovered how at the beginning of this crisis, due to a shortage of products, it was a combination of professionals, individuals, groups and communities that stepped forward to fill the gaps left by errant public policy, planning and preparedness. We witnessed that once the systems of production adapted and started to produce/import those goods, the civil production of initiatives/goods decreased in cycles in different countries. We also discovered that this was true for the West. In the East, everything was produced by the state.

Slavoj Žižek (2014) would classify the virus as: “...an event at its purest and minimal: something shocking that happens all of a sudden and interrupts the usual flow of things; something that appears out of nowhere, without discernible causes, and whose ontological status is unclear – an appearance without solid being as its foundation”. As a “history of...”, an assembly of what design did between 1st January and 31st May 2020, this book does what Žižek defines as to de-eventalize the event. That is, to explain it as an occurrence that fits the coordinates of our normal reality. Because this is what this book is - an ontology of design. It aims to understand what has happened. This typology will complement traditional epistemological models focusing on how we did it.

One gets a slightly different picture when Mike Davis, who painted the complete picture of global pandemics in his 2005 book, “The Monster at the Door”, launches yet another of his denunciations of the global disbelief with a line: “So Corona walks through the front door as a familiar monster.” As an organising system, chronology allows us to transverse the familiar and the unexpected dimensions of the pandemic event. A design ‘history of...’ the pandemic is also reliant on the history of design, which helps comprehend

some of the darker aspects of pandemic behaviour. Under the murky banner of Black Design, the radical designers in Italy in the 1970s prefigured design's entanglement with unthinkable events with designs for death and dying (Mendini, 1983). In the hands of the radical designers, Black Design was a critique of the barbarism of mass-consumption. In contrast one unthinkable event resulting from the pandemic was a scoring card system released to determine who should live and who should die. Even the thought of this calculation is a type of design; a black design that defies every notion of care illustrated here.

Now we know that things can be otherwise. In this book, the interesting thing is that we have been able to build arguments. For example, we are finding that biological tests are the best solution (they range from kits to dogs sniffing – a kind of interspecies design), and that tracing apps are dangerous and irrelevant. What is fascinating is that all the technologists who wanted to save the world have totally disappeared. Where are they? Sending boxes of useless stuff all over the planet or sending rockets to Mars while sending governments a fraction of their taxes?

In line with what Joan W. Scott describes (citing Foucault) as the relationship between critical thinking and protest as insubordination – "...not like that, not for that, not by them...". Of the 500+ design cases that we have collected and present in this book, many of these are forms of protest. Here, the designed interventions are often designed, manufactured, and distributed by small groups of design activists and/or by individuals who have responded in the face of almost total neglect from our political leaders.

The contents of this book cover the outbreak, lockdown, and the beginning of the reopening in the UK. In between, the book functions as a history of pandemic crisis design interventions. As such it is a "research-in-the-moment project" where we illustrate our thoughts and insights in tables, charts and diagrams. We have accepted all design interventions as valid and gave them the same role and status by presenting each of them on a single page. No curation. No selection. No position. The task of critical analysis must follow – perhaps by us, certainly by others. At this stage of the Coronavirus pandemic,

where this book is an integral project of response/protest, any attempt to designate or distinguish or select projects will promote a notion of a "good design" and by default demote the rest. This is a typical approach applied by the museum sector concerned with the classification of types. Already some of the projects collected here are finding their way into the time capsules of museums via projects like Pandemic Objects at the V&A, London. In contrast to these archival practices, the rapid spread of the pandemic around the globe mirrors the fluid global information flows. Only when the viral chronicling ends will critical analysis of design's response to the coronavirus be applicable. Only then will we be able "...to think about these social ills, and so, about what might constitute a cure for them that the pandemic has so glaringly exposed." (Scott, 2020).

The 500+ design projects we have collected have been formatted chronologically into a range of highly informative tables, charts, timelines and images including the following:

- Chronological development, frequencies of interventions and type.
- Categorical analysis, type and impact
- Relational developments among categories, embodiments and enablers
- Relationships among typologies, phases (outbreak, lockdown and reopening) and time
- Geographical developments and typologies
- Weighted hierarchical analysis of interventions and places
- Flow developments
- Product/ service/ system/ environment typologies evolution
- Development rationale and dynamics
- Aims/ needs/ worries/ concerns/ challenges

As Fred Block acknowledges "This is not the last pandemic we will face" (Block, 2020). In the likely event of a second wave, and/or other pandemic or emergency events, these insights lead a case to build preparedness for such circumstances. This framework identifies key categories/ needs/ worries/ concerns and challenges. It also highlights the important roles that design, designing, and designers might play.

Before the projects catalogued in this book, design was certainly paradoxical (Rodgers et al, 2017) and this is the context from which design designed its way through the Covid-19 crisis. Despite this successful exit by design from a list of binding paradoxes, new dilemmas are now emerging. As a result of all the design projects assembled here, design must now make some challenging choices. Will it go back to being the handmaiden of Capital or abandon Capital to build on what it has achieved? For example, care and community, while aiming for even bigger targets such as inequality and the climate emergency, etc. That is, a new human condition? And the paradoxes inevitably also become dilemmas - after the crisis, which way will design go? If design chooses the hard route - the unknown knowns (Rodgers and Bremner, 2019; Žižek, 2006) - then what do the projects in this book indicate about how to design?

In the midst of the quarantine in Italy, Franco 'Bifo' Berardi wrote: "Use value, long expelled from the field of the economics, is back, and the useful is now king." The 500+ design projects here add up to a history of the Covid -19 crisis and we expect much of what is illustrated will disappear - so more than likely, as a document, this book will be extremely useful forever.

Paul A. Rodgers, Craig Bremner, and Fernando Galdon

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1

DIARY

DATA COLLECTION

Given the very peculiar coronavirus lockdown circumstances to assemble this book we simply collected everything as a type of diary entry form of data collection. We saw it as the best possible method to gather the collected experience of the material culture, body of experience, skill and understanding embodied in the arts of planning, inventing, making and doing related to the event. Also, the infinite array of digital tools enabled us to collect the interventions from our desks. In this context, photos, videos and text were collected using a variety of online apps and tools that allowed us to collect the design interventions dealing with an unexpected event. Here we are not investigating how people changed over time, but how practice, in this case design, adapted through time and circumstances to address readiness, appropriateness and preparedness.

In this book we are using what could be characterized as an elicitation perspective. It consists of capturing media as soon as the phenomenon occurs to record examples of pandemic design as soon as they were found in the digital landscape.

In order to frame the intended outcome, a progressive and systematic integrative review has been conducted. It was decided to use this approach to insert flexibility into the cataloguing of the event. The search criteria were articulated based on their relevance to the subject. Design blogs, and specialist websites were searched daily. These online sources articulated the views of relevant and amateur practitioners. We also included reports from news platforms to complement and expand data collection to insert a broader and more inclusive and representative perspective. The criterion for inclusion was the relevance to the practice of design.

The selection was conditioned by our searches; therefore, it was arbitrary. The cases collected in this book represent a sample data of the event. The date represented in the cases is an estimation. Online tools such as scraping data tools were used to determine the date of publication. However, as the tool in itself claims, is just an estimation. In cases where we could not determine the data, we used the day it was encountered. We were not

interested in documenting what happened with exactitude. This work belongs to sociologists and anthropologist. Rather, we were interested in documenting a sample of data to extract high patterns of knowledge to build 'knowledge for future actions' (Glanville, 2015). The table below is an example table of the information we collected from each case;

Title	COVID-19 Coronavirus Map: Global Outbreak Dashboard
Author	The New York Times
Published	2020-01-28T22:57:20.000Z
URL	https://www.nytimes.com/interactive/2020/world/coronavirus-maps.html
Keywords	days, reported, outbreak, rate, global, countries, average, coronavirus, map, deaths, cases, tracking
Description	The virus has infected more than 2,843,000 people in at least 177 countries.
Country	USA

DATA ANALYSIS

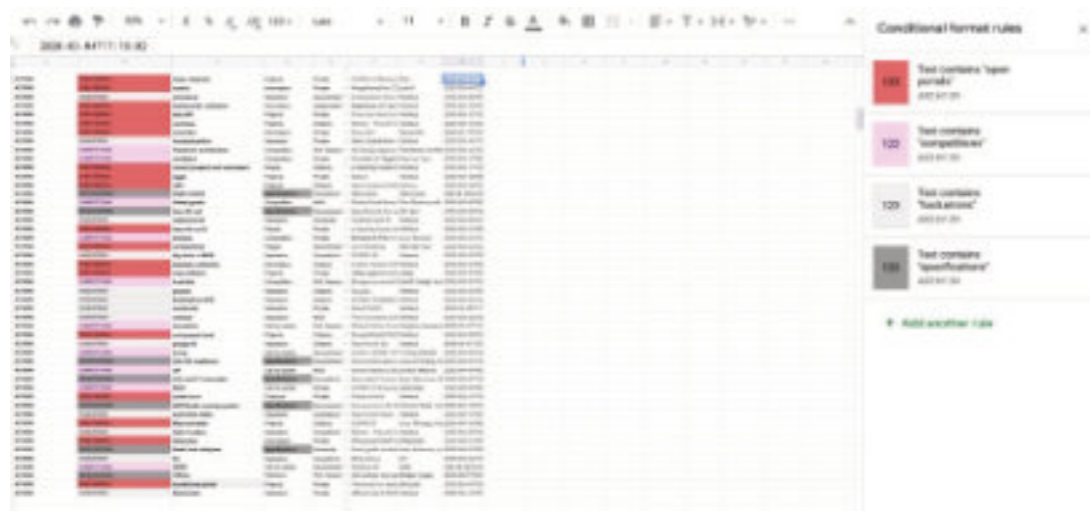
As design researchers we are concerned with extracting and identifying patterns of activity emerging from the collected experience of the material culture, and the collected body of experience, skill and understanding embodied in the arts of planning, inventing, making and doing in the artificial world, to infer knowledge for future actions in the context of appropriateness.

We have documented this event as it evolved every day from the 1st of January 2020 to 31st May 2020 and we selected the cases in this book from the point of view of design. This temporal span encompasses; the outbreak; the lockdown and the reopening. Accounting for 500+ interventions in total. These interventions are a record of places, dates, embodiments and strategies and the proposed chronological structure operated as a type of index system, which we have operationalised by articulating several graphic organisational frameworks enabling projects to be cross-referenced and compared. We have accepted all design interventions as valid and gave them the same role and status by representing each of them in a single

page. No curation. No selection. No position. Just recording.

The classification of the interventions into categories emerged in the process of collecting. There was no preliminary hypothesis as nobody was expecting this event to happen. Furthermore, there was no reference in the field of design research in how to conduct or catalogue pandemic design. The classification of cases into categories and subcategories presented challenges. What is the ontological nature of a mobile test unit? Is it a product, a service, a tester, a system, a shelter, or an action? This kind of complexity led to a dynamic categorization of prospective initiative. The classification process was executed in the moment, therefore was influenced by contextual elements and personal interpretations and judgements. This aspect may provide variability in the assessment. However, as stated earlier, we are not so much concerned with exactitude, but recollection to underpin emerging patterns for future actions. Different variables were assigned to each case as they were collected.

Once we classified the cases and organised them into subsets, we could implement categorical analysis to underpin evolutive traces in specific categories or subcategories. Then, we colour coded the different variables in the subset to understand its evolution. This process enables preliminary understanding to generalize data patterns.



The example represented below illustrates how we operated the actions category. We colour coded the four subcategories and we could then trace dominant subcategories in longitudinal trajectories. We could observe how portals dominated the first part of the event, and hackathons the upper middle part of the spectrum. Specifications emerged in the latest part of the longitudinal spectrum. Competitions, are more or less evenly distributed, and are placed in the lower middle part, by dominant displacement.

From this point we were able to organise graphic material in a chronological way to further analyse its evolution. By using chronology to frame the assembly of this book we uncovered evolutive traces; for instance, posters are first instructional, then emotional, and then they became political. In terms of Personal Protective Equipment (PPE), we observed transparent masks becoming simplified over time. The first models were complex and 3D printed. The latest models are a sheet of plastic with 2 holes and a band, thereby removing the need for 3D printers, and enhancing production and sustainability in the process. Furthermore, we have discovered how at the beginning of this crisis, due to a shortage of products, it was a combination of professionals, individuals, groups and communities that stepped forward to fill the gaps left by errant public policy, planning and preparedness. We witnessed that once the systems of production adapted and started to produce/import those goods, the civil production of initiatives/goods decreased in cycles in different countries. This process presents a design-led alternative to pure statistical and mathematical models.

FRAMEWORK

In design research we trade some degree of accuracy in order to access areas that are yet-to-be or not-fully-formed. Therefore, our output is probabilistic, and research is always preliminary in its nature (Galdon, 2019). Moreover, in exchange we provide guiding knowledge for prospective developments – as Glanville proposed, 'knowledge for' future action and possibilities rather than 'knowledge of' past actions and events (Glanville, 2005). Design research is directional and transformational at its core. In this

context, we are more concerned with how things "ought to be" (Simon, 1995, pp.111-167) instead of how things actually are. Consequently, output is based on potentialities, not certainties. In the same way, history is not about facts, but rather about approximations which are updated as new information emerges. In this context, as the life of the intervention is placed into the future, the time required to assess the impact of the design is extended during its lifetime. Validation is always a posteriori, and the proposed output becomes the main element to be assessed. In this context transferability becomes crucial.

Transferability is defined as "The ability to apply the results of research in one context to another similar context. Also, the extent to which a study invites readers to make connections between elements of the study and their own experiences" (Barnes et al., 2020). The framework presented in this book is potentially transferable to other pandemic events. This aspect is very relevant since the rate at which novel viruses are emerging means other pandemics and emergency events will occur. It is clear the world will need to build preparedness for such circumstances. However, in this book we illustrate the ingenuity practicality and willingness of designers also generated a range of dilemmas and paradoxes to consider. Therefore, this framework identifies key categories and needs/, but also, worries, concerns and challenges.

REFERENCES

- Galdon, F., Hall, A. (2019). The ontological nature of design; prospecting new futures through probabilistic knowledge. In: Design Research for Change Symposium. Design Museum, London
- Glanville, R. (2005). Design propositions. In: M. Belderbos and J. Verbeke, eds. The unthinkable doctorate: Brussels: Sint Lucas.
- Simon, H. (1996). The sciences of the artificial. Cambridge, MA: MIT Press.

CATEGORY
SUBCATEGORY
ENABLER

DATE

PAGE

SYSTEMS
DASHBOARD
INDEPENDENT

Singapore
CHARTS
Unknown

A collection of useful data visualisation regarding the COVID-19 virus outbreak in Singapore.
An independent Dashboard addressing total cases, active cases, nationality, age and distribution time-series analysis.
It is funded with donations

<https://www.uqairatcovid19.com/singapore/dashboard>

21
Jan



20 COVID-19 SG DASHBOARD

COUNTRY
TYPE
AUTHOR

DEFINITION

SOURCE

IMAGE

TITLE

January

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
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13	14	15	16	17	18	19
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27	28	29	30	31		

February

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March

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April

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May

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June

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July

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August

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September

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October

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November

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December

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21	22	23	24	25	26	27
28	29	30	31			

DIARY

CHARTS

Unknown

A collection of useful data visualisation regarding the COVID-19 virus outbreak in Singapore.

An independent Dashboard addressing total cases, active cases, nationality, age and distribution time-series analysis.

It is funded with donations

<https://www.againstcovid19.com/singapore/dashboard>

21
Jan

MAP

Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)

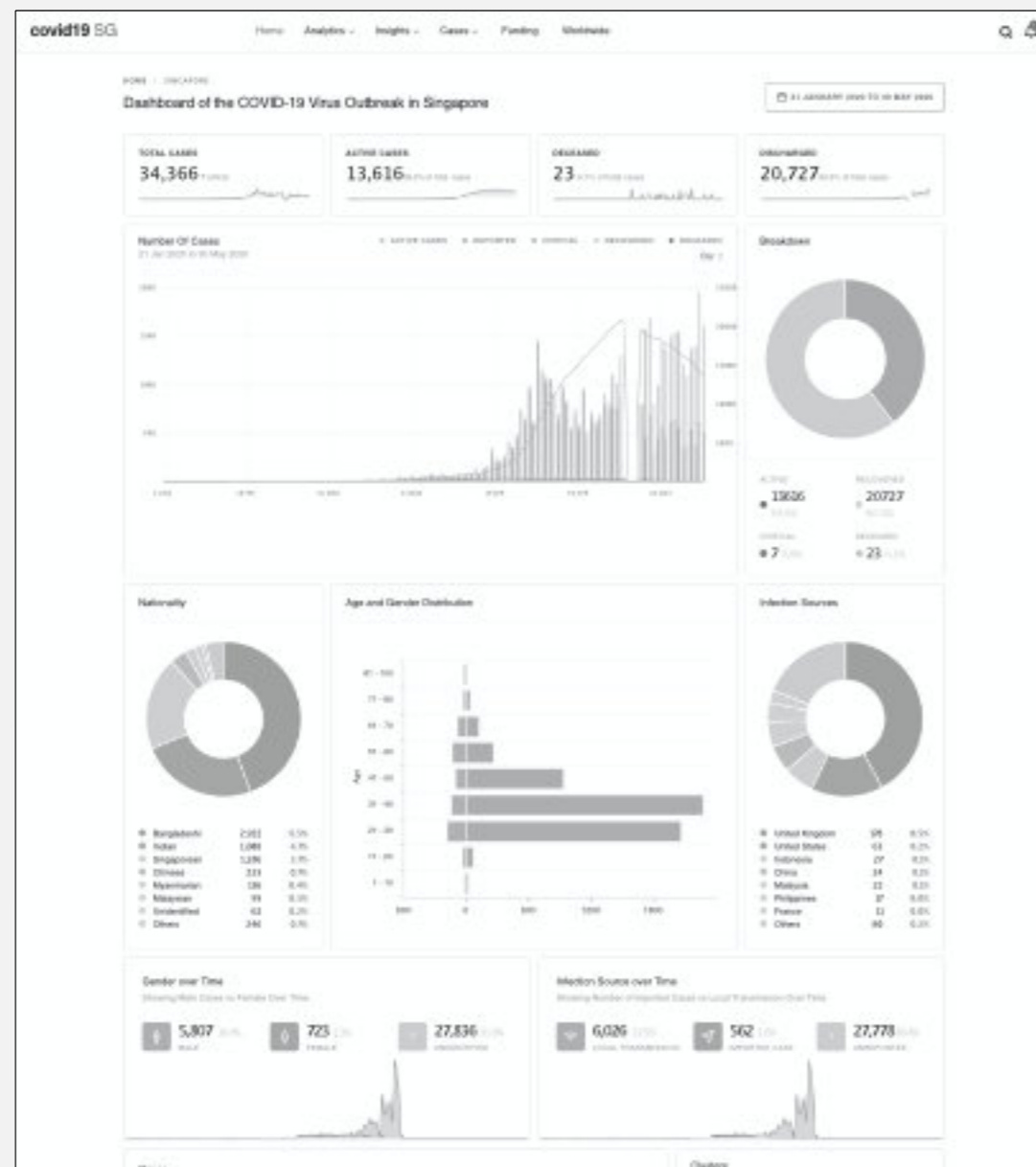
Leading the world, connecting the world, and impressing the world

The Center for Systems Science and Engineering (CSSE) is a research collective housed within the Department of Civil and Systems Engineering (CaSE) at John's Hopkins University (JHU). Our faculty, researchers, and students work on a range of complex and interdisciplinary problems, united by the

goal to better understand and improve societal, health, and technological systems for everyone.

<https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>

22
Jan



COVID-19 SG DASHBOARD



COVID-19 JHU DASHBOARD

POSTER

BBC

Reduce risk of Coronavirus infection

An instructional poster based on the WHO recommendations.

<https://www.bbc.co.uk/news/world-us-canada-51649897>

24
Jan



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REDUCE RISK

CHARTS & MAP

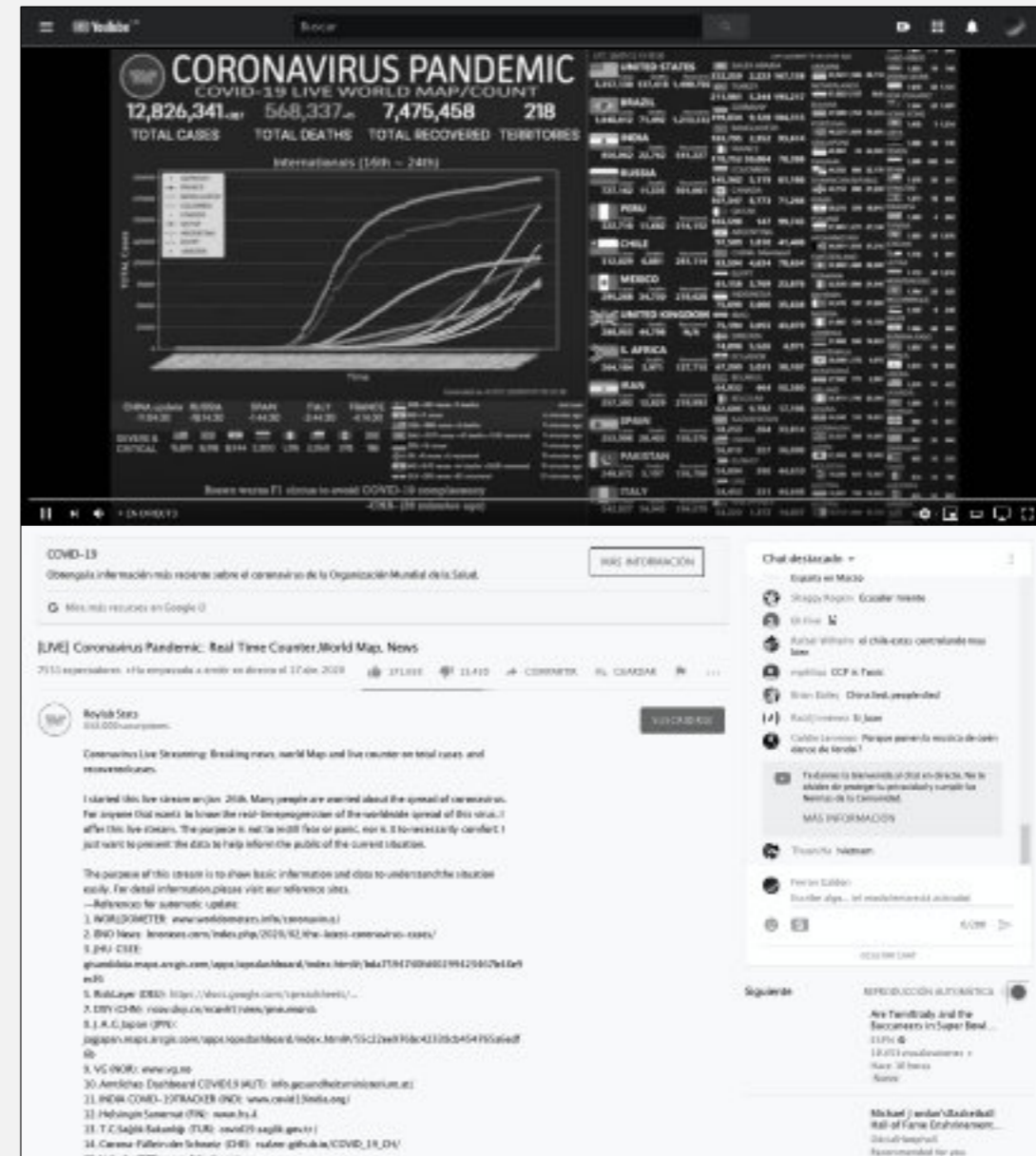
RoylabStats

Coronavirus Live Streaming: Breaking news, world Map and live counter on confirmed cases and recovered cases

Roylab started this live stream on Jan 26th. He explains that "Many people are worried about the spread of coronavirus. For anyone that wants to know the real-time progression of the worldwide spread of this virus, I offer this live stream. The purpose is not to instil fear or panic, nor is it to necessarily comfort; I just want to present the data to help inform the public of the current situation"

<https://www.youtube.com/watch?v=NMre6IAAAiU>

26
Jan



YOUTUBE LIVESTREAM

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MAP

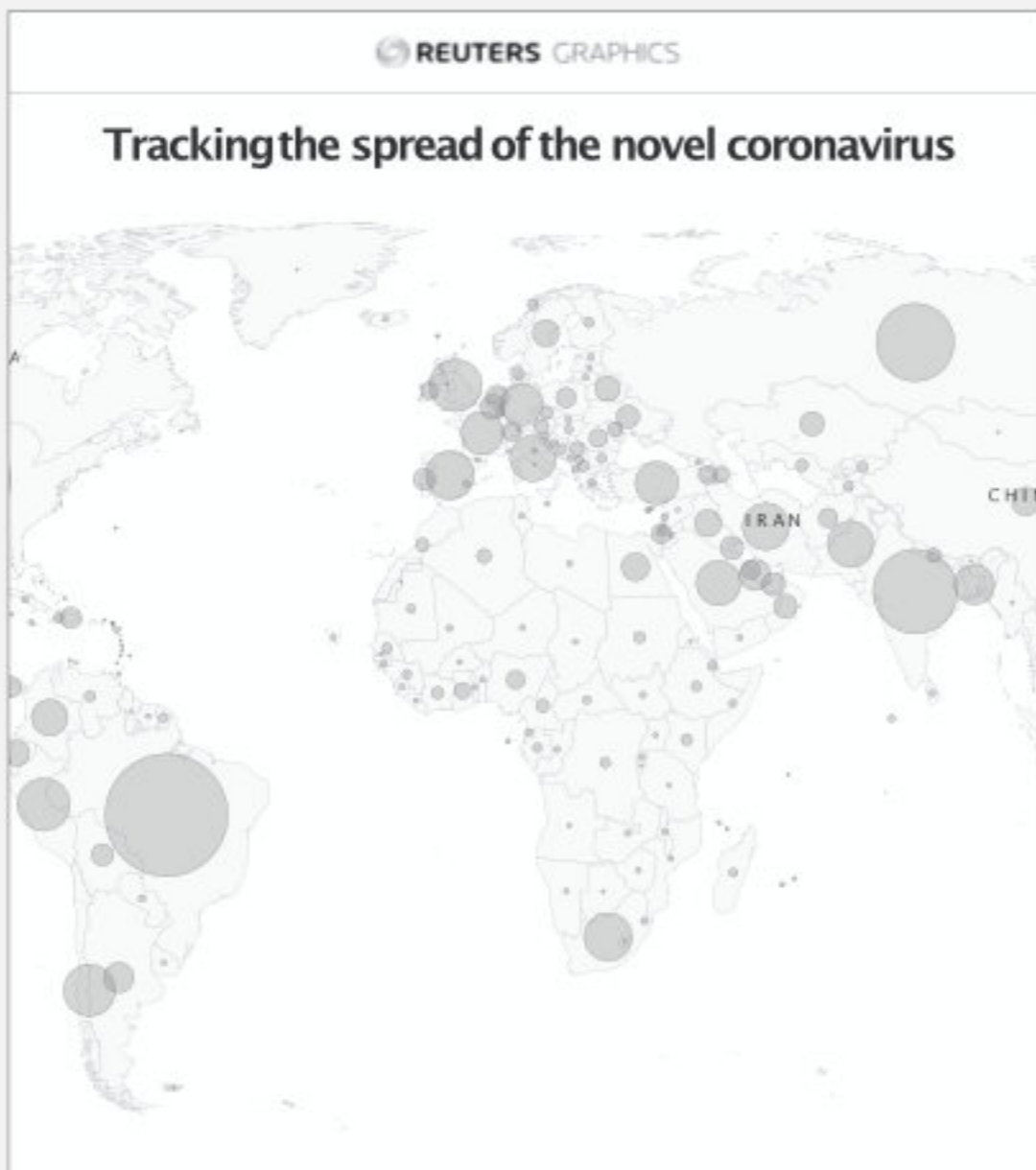
Gurman Bhatia. Research by Cate Cadell | REUTERS GRAPHICS

Map and charts showing the spread of the novel coronavirus

Reuters maps all places where COVID-19 cases have been confirmed. Tracking the spread of the novel coronavirus. Sources: Local state agencies; Local media; Reuters Research.

https://graphics.reuters.com/CHINA-HEALTH-MAP/0100859539E/index.html?fbclid=IwAR1Sk5Fbfl4k0F4RBpyGVgcmv3UChkpi9xbF77_VSEJJAmP2GOGYzPn4j8

28
Jan



REUTERS DASHBOARD

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MAP & CHARTS

The New York Times - Graphic team

Coronavirus Map: Tracking the Global Outbreak

The coronavirus pandemic has sickened more than 5,490,900 people, according to official counts. As of Tuesday morning, at least 346,200 people have died, and the virus has been detected in at least 177 countries, as these maps show.

<https://www.nytimes.com/interactive/2020/world/coronavirus-maps.html>

28
Jan



NYT DASHBOARD

39

CHARTS

Worldometer

Group of independent researchers

Worldometer is run by an international team of developers, researchers, and volunteers with the goal of making world statistics available in a thought-provoking and time relevant format to a wide audience around the world. It is published by a small and independent digital media company based in the United States. We have no political, governmental, or corporate affiliation. Furthermore, we have no investors, donors, grants, or backers of any type. We are completely independent.

<https://www.worldometers.info/coronavirus/>



MAP

Government of China

City of Beijing dashboard

Beijing maps and charts addressing COVID-19 cases in the region. Tracking the spread of the novel coronavirus.

<http://2019ncov.chinacdc.cn/2019-nCoV/>



WORLDOMETER



BEIJING DASHBOARD

MAP

Ministry Of Health And Sports

Surveillance Dashboard (Myanmar)

Myanmar maps and charts addressing COVID-19 cases in the region. Tracking the spread of the novel coronavirus.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



ILLUSTRATION

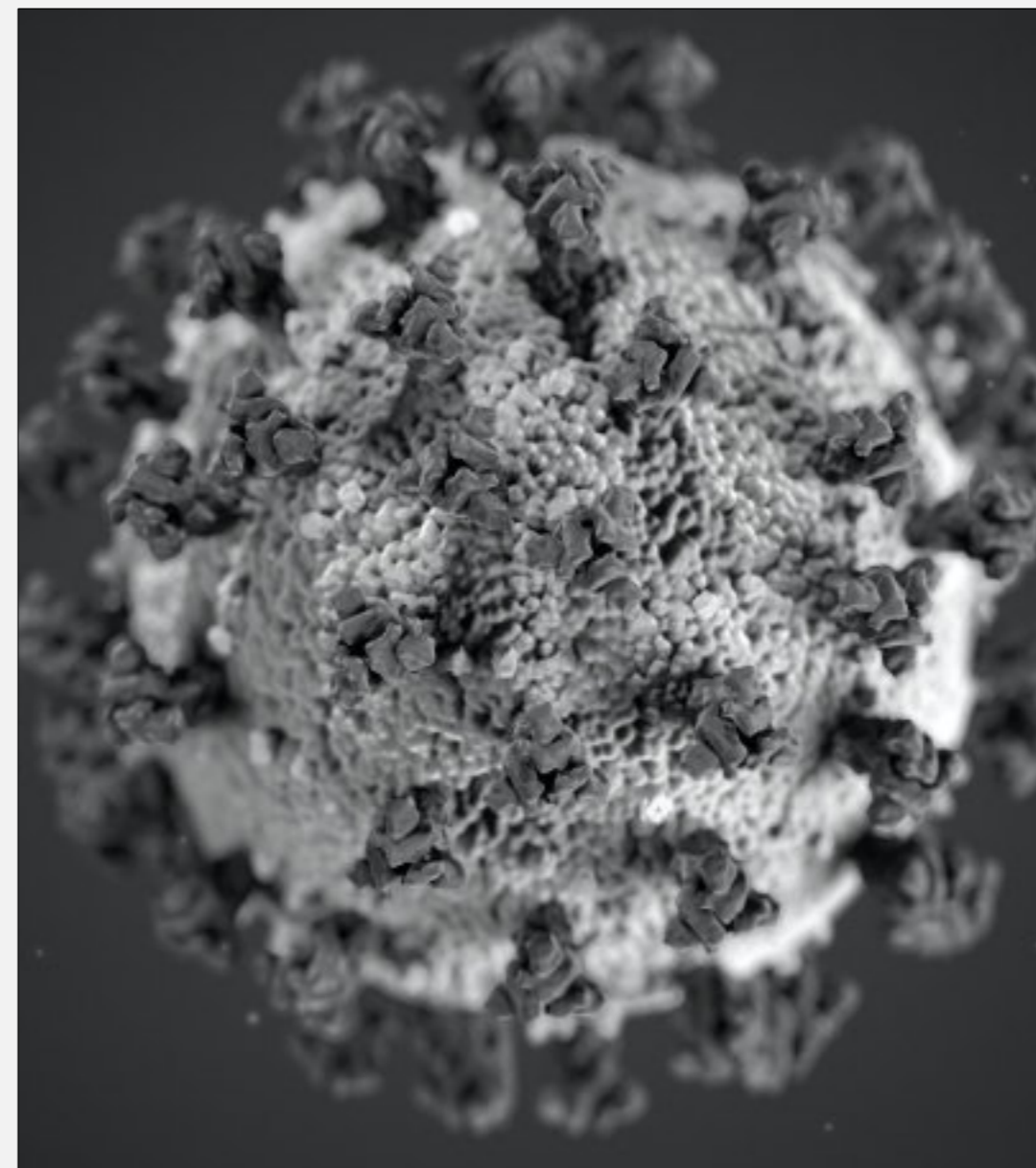
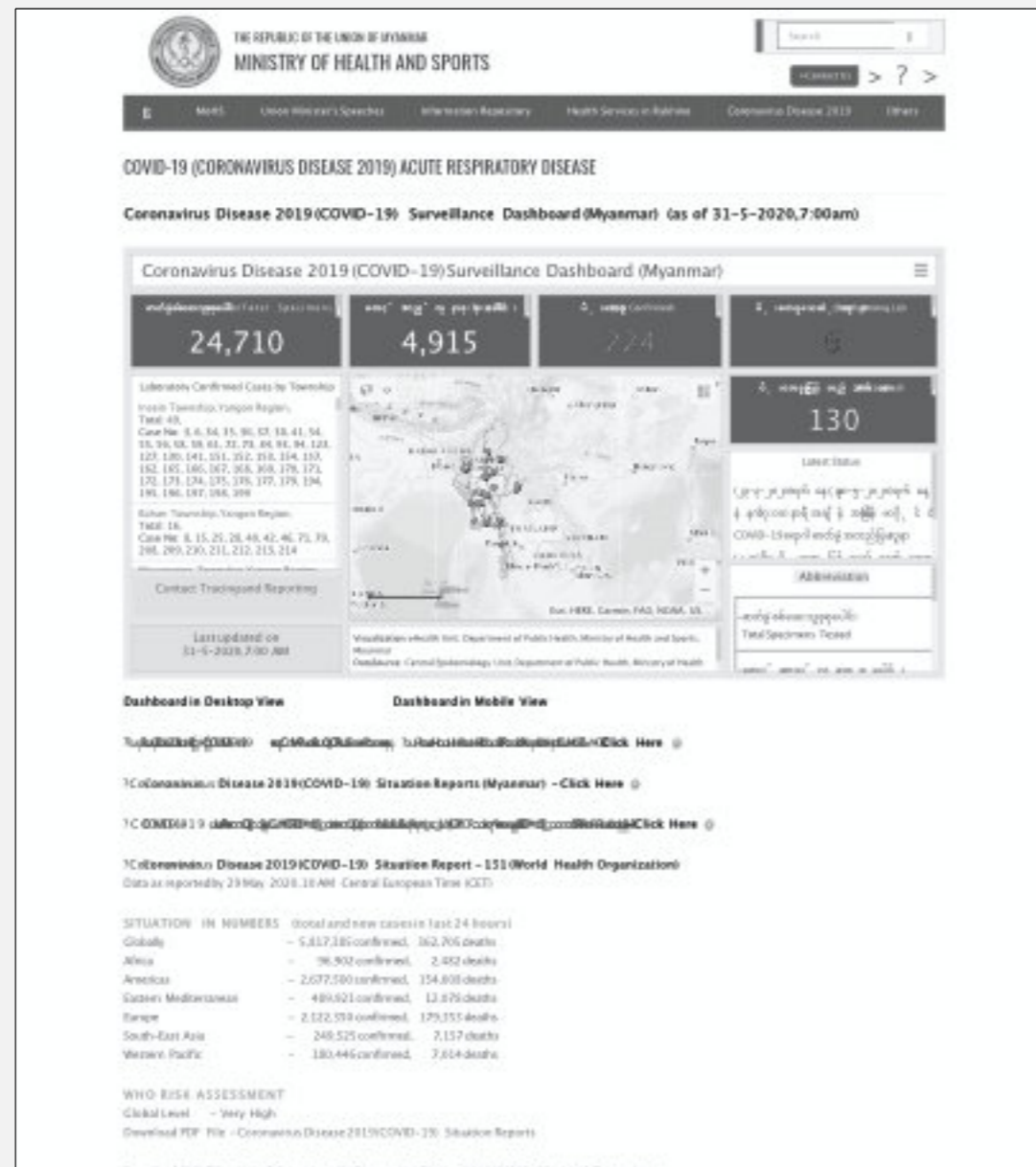
Stephanie Rossow, James Archer, Meredith Newlove, Alissa Eckert and Jennifer Oosthuizen

Iconic COVID-19 images designed to create "a feeling of alarm"

"Based on previous outbreaks, we knew the CDC needed an identity when presenting public health information of COVID-19," said Dan Higgins, a medical illustrator at the CDC.

Released to the public on 31 January – the day after the World Health Organisation declared a global health emergency – the illustration immediately gave tangible form to a disease that had already killed 213 people in China..

<https://www.dezeen.com/2020/05/14/covid-19-images-coronavirus-cdc-medical-illustrator-dan-higgins/>



INFOGRAPHIC

Freepik

Coronavirus infographics free vector pack

Our license allows you to use the content; for commercial and individual projects, on digital or printed media, for an unlimited period of time and perpetually, from anywhere in the world, to make modifications and derived work.

https://www.freepik.com/free-vector/corona-virus-infographics_6706042.html



VECTORS KIT

DASHBOARD

Government of Hong Kong

Latest situation of COVID-10 in Hong Kong

The HKSAR Government launched on February 3, 2020 this Interactive Map Dashboard for effective dissemination of information on the latest situation of the novel coronavirus epidemic in Hong Kong. The Dashboard is jointly developed and managed by the Development Bureau, Lands Department and a group of volunteers from the Smart City Consortium.

<https://chp-dashboard.geodata.gov.hk/covid-19/en.html>



HONG KONG DASHBOARD

BUILDING

Government of China

New hospital for 1000 patients is constructed in 10 days

China finished building an emergency hospital set up specifically to tackle the Wuhan coronavirus. It only took 10 days.

The 645,000-square-foot makeshift medical facility, which took in its first patients on Tuesday, is made up of two floors and is already equipped with 1,000 beds, several isolation wards, and 30 intensive care units.

<https://www.businessinsider.com/how-china-managed-build-entirely-new-hospital-in-10-days-2020-2?r=US&IR=T>

05
Feb



WUHAN HOSPITAL

46

POSTER

CDC - Center for Disease Control and Prevention

Instructional Poster

Hands that look clean can still have icky germs!

This material was developed by CDC. The Life is Better with Clean Hands campaign has been made possible by a partnership between the CDC Foundation, GOJO, and Staples. HHS/CDC does not endorse commercial products, services, or companies. Hands that look clean can still have icky germs!

<https://www.cdc.gov/handwashing/pdf/wash-your-hands-poster-english-508.pdf>

05
Feb



WASH YOUR HANDS

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MAP

Government of South Korea

Covid-19 Dashboard

South Korea maps and charts addressing COVID-19 cases in the region. Tracking the spread of the novel coronavirus.

<https://esrikmkt.maps.arcgis.com/apps/MapSeries/index.html?appid=b379f788425349168d02669285758af0>

PHOTO

CNN

The doctor that raised the alarm to save the world

"A new coronavirus infection has been confirmed and its type is being identified. Inform all family and relatives to be on guard," Li Wenliang typed into a chat group with his former medical school classmates on Dec. 30, according to Caixin, a Beijing-based media group. Soon, Li's message would resonate much farther. As the spiralling crisis emerged, he came to be known as the whistleblower of a virus that ultimately took his life.

<https://edition.cnn.com/2020/02/03/asia/coronavirus-doctor-whistle-blower-intl-hnk/index.html>



SOUTH KOREA DASHBOARD



DR LI WENLIANG

MAP & CHARTS

Humanistic GIS Lab at University of Washington

Infection map Dashboard

This map is made by the Humanistic GIS Lab at University of Washington - Seattle. The computational resources are provided by UW's Center for Studies in Demography and Ecology. The base maps are from Carto and ESRI, and the geospatial data for the base maps are acquired from the OpenStreetMap.

<https://hgis.uw.edu/virus/>



CHARTS

Ministry of Health of Singapore

Imported cases (COVID-19) in Singapore

Updates on COVID-19 imported cases (Coronavirus Disease 2019) Local Situation.

<https://www.moh.gov.sg/covid-19/>



MAP

The University of Harvard

Health Map | Covid-19

The Covid-19 map visualises a deep and meticulous dataset that is freely accessible to anyone involved in coronavirus research; something that represents a completely new approach to how we collect data and make it readily available during an outbreak. The data changes the game in terms of how we respond to new global threats such as these. All data used to produce this map are exclusively collected from publicly available sources including government reports and news media.

<https://www.healthmap.org/covid-19/>

13
Feb



HARVARD DASHBOARD

52

MASK

Dr Chen Xiaoting

Taiwanese doctor teaches how to diy cloth face mask with air filter, so no need to scramble at stores

Face masks have been flying off the shelves, no thanks to the COVID-19 outbreak. One doctor has come up with a brilliant method to cope if you're having trouble getting your hands on them.

He recommends a DIY solution instead..

<https://mustsharenews.com/cloth-face-mask/>



DIY MASK

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Feb

MAP

The University of Virginia

Medical resource demand | COVID-19

In an effort to support the planning and response efforts for the recent Coronavirus pandemic, the Network Systems Science and Advanced Computing (NSSAC) division of the Biocomplexity Institute and Initiative at the University of Virginia has prepared a visualisation tool that provides a unique way of examining data curated by NSSAC, 1point3acres (for USA) and JHU (for 01/22/2020 - 02/13/2020).

<https://at.virginia.edu/3a5LP4V>

14
Feb

MASK

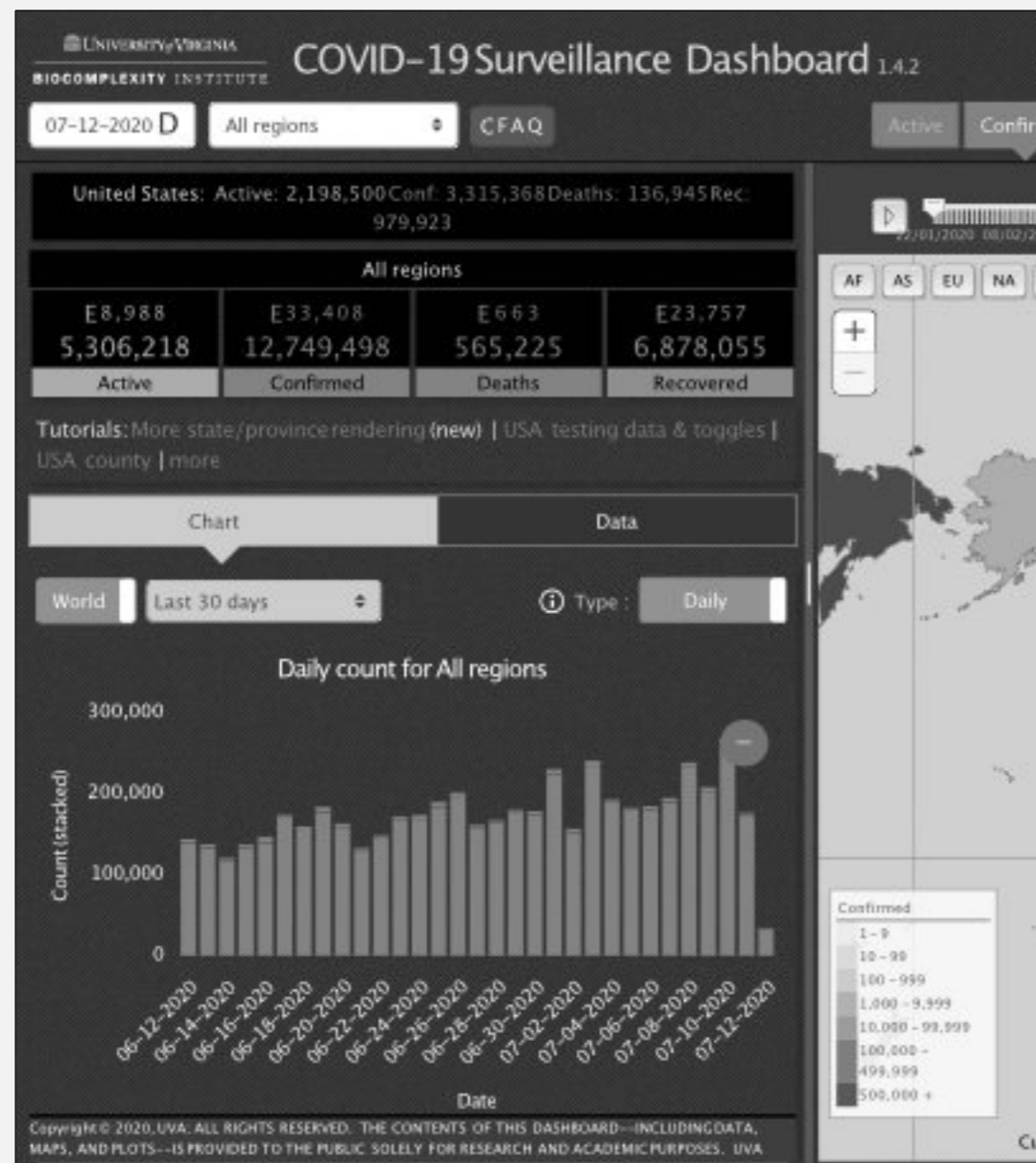
Max Siedentopf.

Siedentopf has created a series of provocative images showing everyday items being used as protective face masks

Underwear, vegetables and carrier bags could all be used in the fight against coronavirus, suggests artist Max Siedentopf. Global demand for surgical face masks is growing, as people try to protect themselves against the virus. However doctors don't advise using them for protection as research shows they have limited use in preventing the spread of viruses

<https://www.dezeen.com/2020/02/17/alternative-coronavirus-masks-max-siedentopf/>

17
Feb



MAP

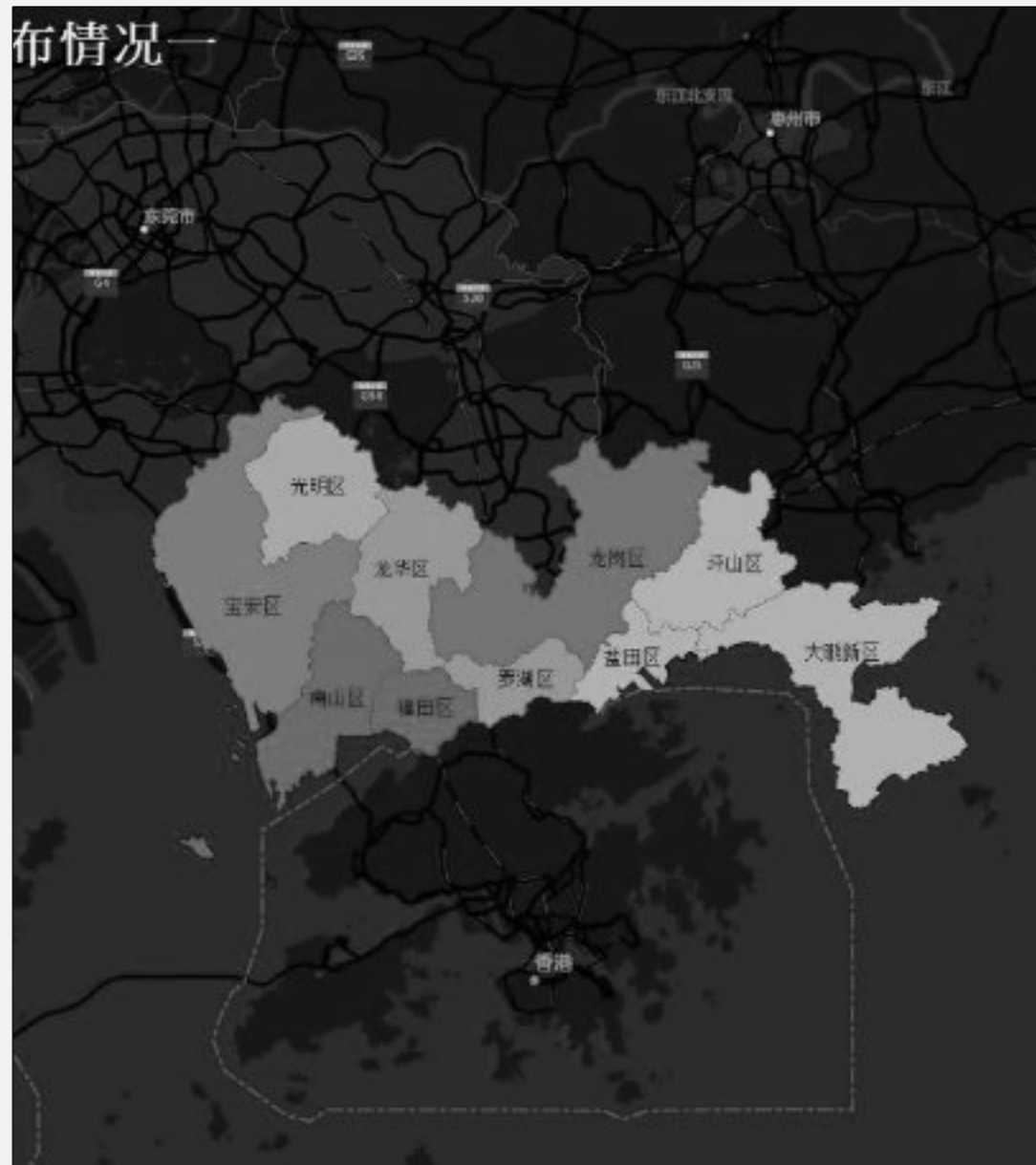
The Government of China

Dashboard | COVID-19

Beijing maps and charts addressing COVID-19 cases in the region. Tracking the spread of the novel coronavirus.

http://129.204.11.162:8080/sys_yq_shenzhen/

I 17
Feb



56 SHENZHEN DASHBOARD

MASK

Danielle Baskin

Face-ID compatible Mask

San Francisco-based artist Danielle Baskin has thought up an ingenious – not to mention incredibly creepy – solution for this specific dilemma. She’s come up with the idea for respirator masks which are compatible with a smartphone’s Face ID. Simply put, her software creates a custom print of an individual’s face and puts it on a mask. On Saturday, Danielle tweeted: ‘Made this service that prints your face on an N95 mask, so you can protect people from viral epidemics while still being able to unlock your phone

<https://www.dezeen.com/2020/02/27/face-recognition-masks-resting-risk-face/>

I 18
Feb



FACE-ID MASK

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MASK

iczfirz

Flexible Mask Valvy - COVID-19

Key features of this design include: Separate inlet and outlet valves prolong the lifespan of the intake filter. (humidity of exhaled breath always shorten the filter life). No more "mask squeeze" symptoms like you get from a hardshell masks (foamy liner may just help a bit). By design the flexible mask will fit on any face. It is foldable so you can carry a few masks in your pocket. Can be printed directly onto cloth.

<https://www.thingiverse.com/thing:4177128>

22
Feb



RESPIRATOR MASK

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POSTER

CDC - Centre for Disease Control and Prevention

Symptoms of Coronavirus (COVID-19)

Symptoms can range from mild to severe illness, and appear 2-14 days after you are exposed to the virus that causes COVID-19. This list is not all possible symptoms. Please call your medical provider for any other symptoms that are severe or concerning to you.

Seek medical care immediately if someone has emergency warning signs of COVID-19

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/COVID19-symptoms.pdf>

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Feb

Symptoms of Coronavirus (COVID-19)

Know the symptoms of COVID-19, which can include the following:



Symptoms can range from mild to severe illness, and appear 2-14 days after you are exposed to the virus that causes COVID-19.

***Seek medical care immediately if someone has emergency warning signs of COVID-19.**

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion
- Inability to wake or stay awake
- Bluish lips or face

This list is not all possible symptoms. Please call your medical provider for any

COVID-19 SYMPTOMS

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MAP & CHARTS

European Commission

Dashboard-COVID-19

Every day between 6.00 and 10.00 CET, a team of epidemiologists screens up to 500 relevant sources to collect the latest figures. The data screening is followed by ECDC's standard epidemic intelligence process(link is external) for which every single data entry is validated and documented in an ECDC database. An extract of this database, complete with up-to-date figures and data visualisations, is then shared on the ECDC website, ensuring a maximum level of transparency.

<https://qap.ecdc.europa.eu/public/extensions/COVID-19/COVID-19.html>

24
Feb

DATABASE

Sudalairaj Kumar

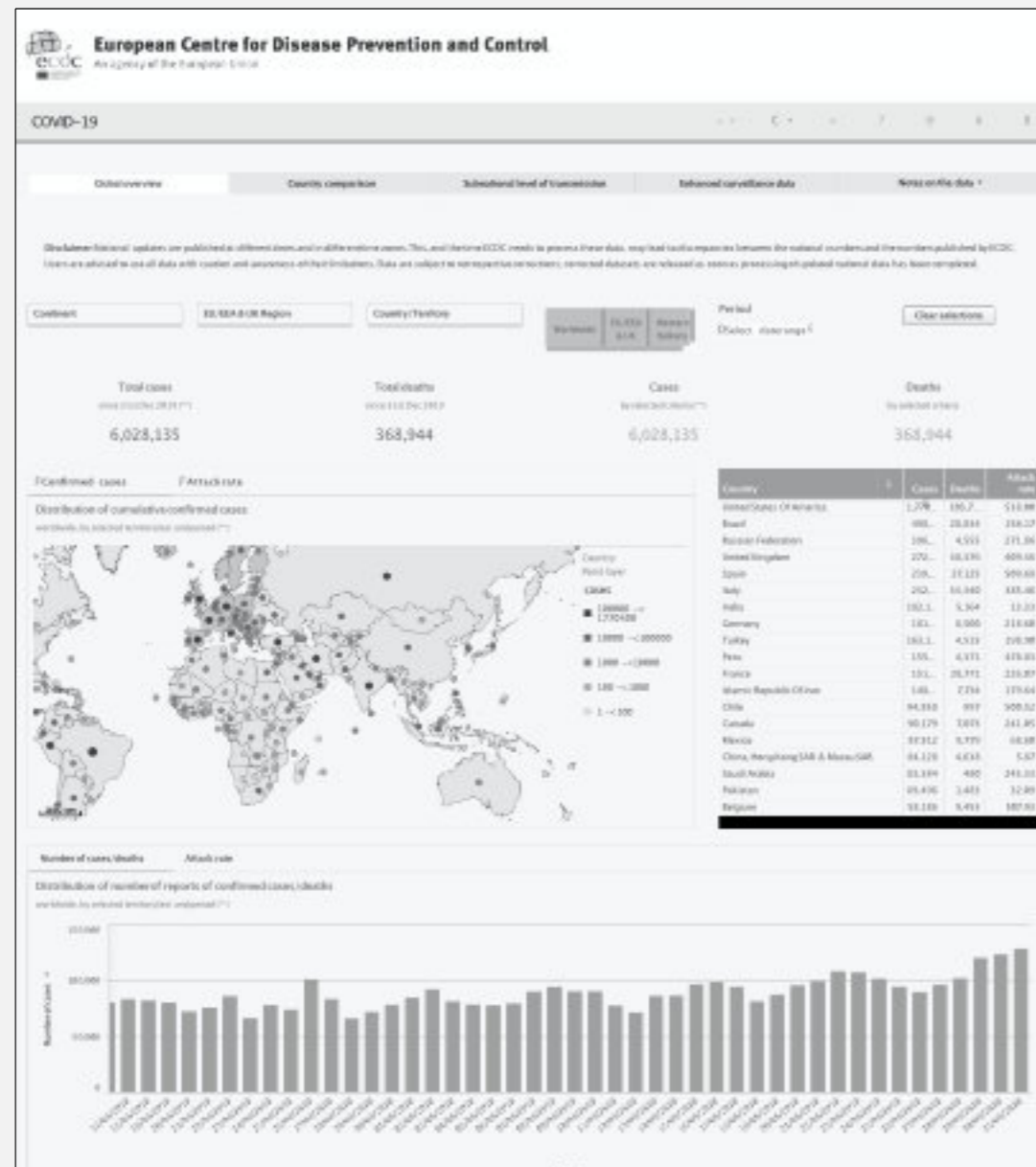
Novel CoronaVirus2019 dataset

This dataset has daily level information on the number of affected cases, deaths and recovery from 2019 novel coronavirus. Please note that this is a time series data and so the number of cases on any given day is the cumulative number.

The data is available from 22 Jan, 2020.

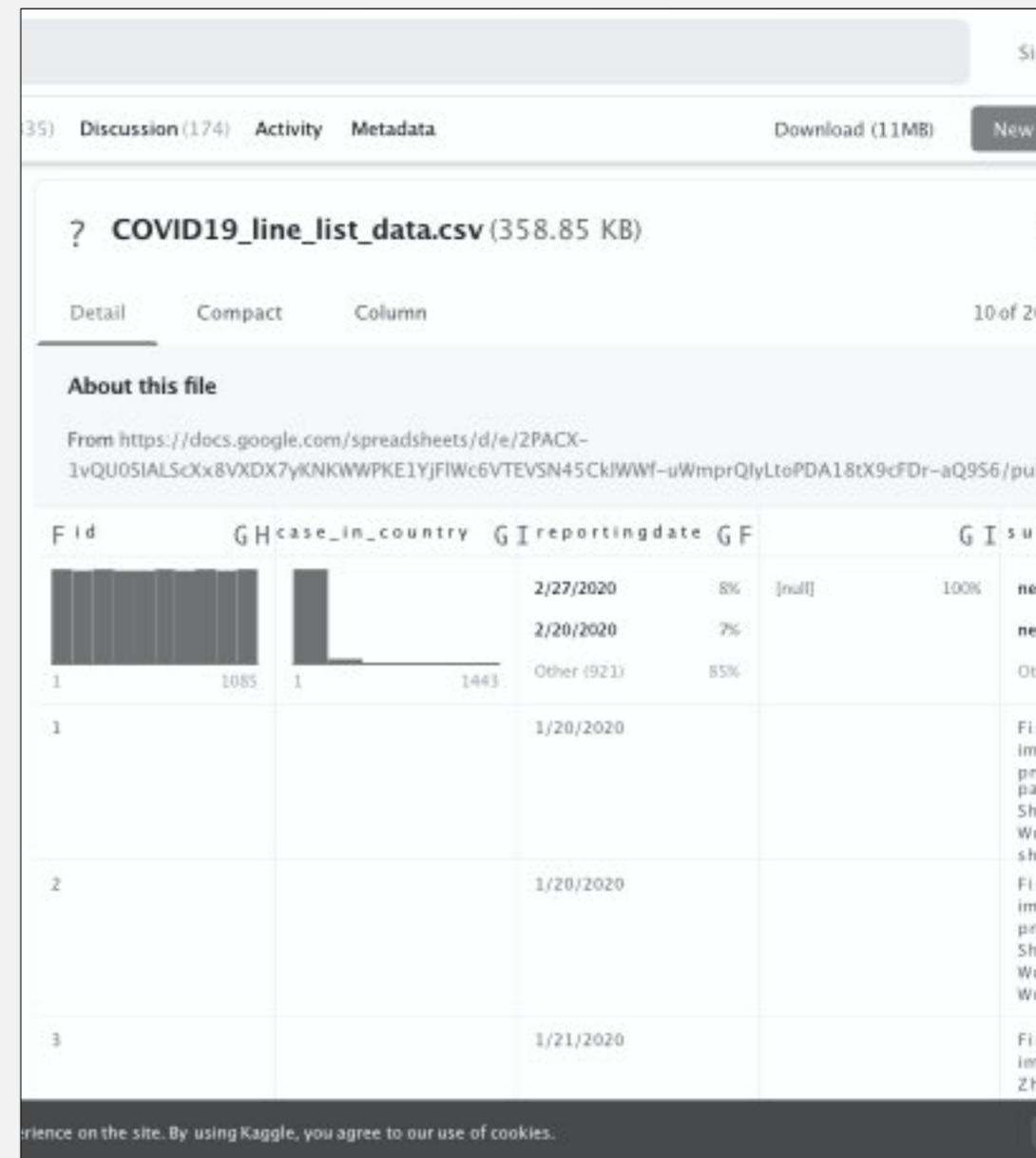
<https://www.kaggle.com/sudalairajkumar/novel-corona-virus-2019-dataset>

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Feb



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EU DASHBOARD



COVID-19 DATABASE

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SHIELD

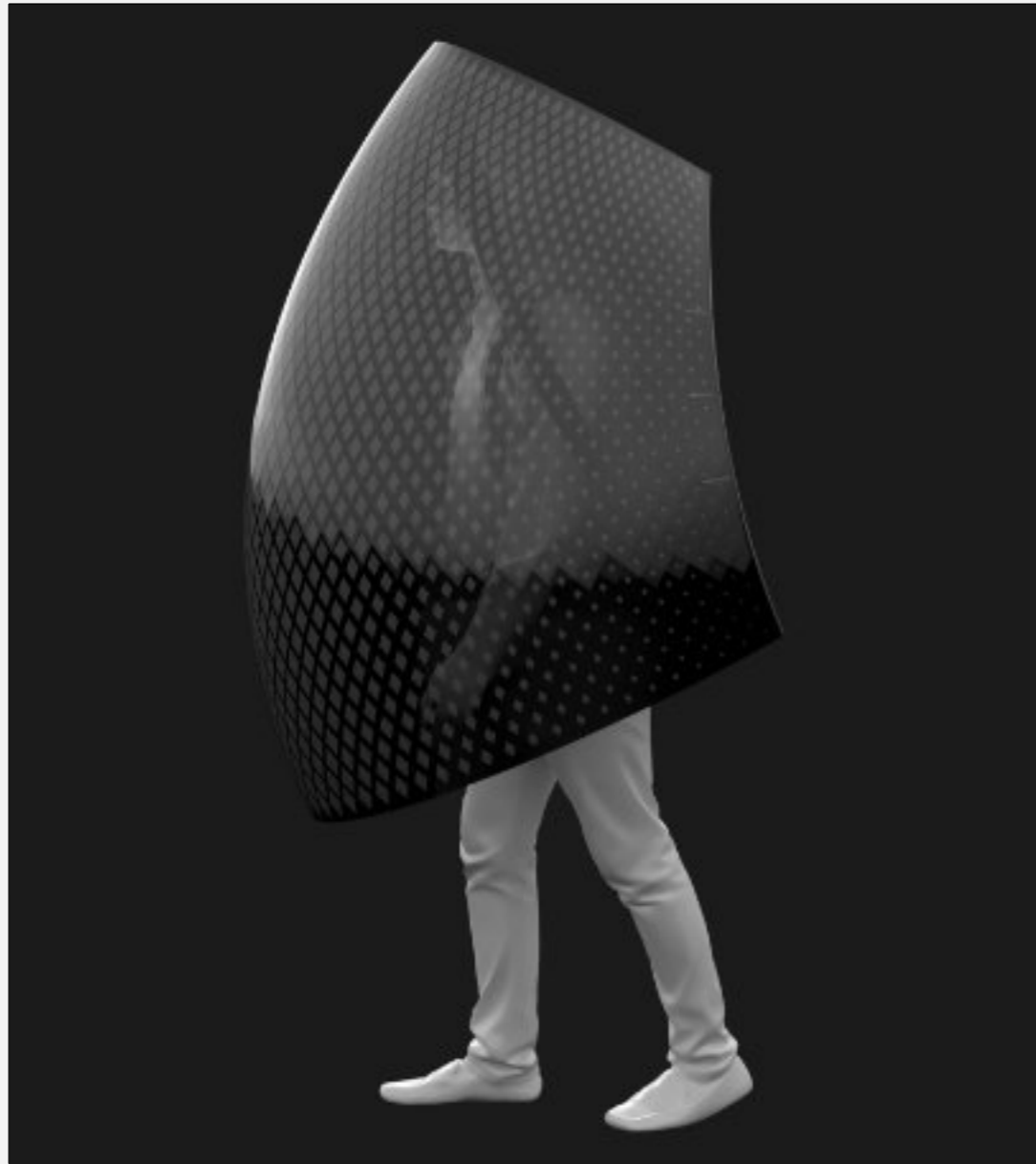
Sun Dayong

Wearable shield to protect against coronavirus outbreaks

Chinese architect Sun Dayong has created a conceptual design for a body shield that would protect a wearer during a coronavirus outbreak by using UV light to sterilise itself.

Named Be a Bat Man, the mobile safety device would be for "people who are exposed to the dangerous situation during the coronavirus emergency", said Sun Dayong, who co-founded architecture studio Penda.

<https://www.dezeen.com/2020/02/26/sun-dayong-coronavirus-protection-shield/>



WEARABLE SHIELD

PHOTO

Financial Times

Novel Corona Virus 2019 reaches muslim countries

Coronavirus reaches muslim countries.

https://blogs.ft.com/the-world/files/2020/02/2020-02-25T160722Z_444600508_RC2S7F9N1YRW_RTRMADP_3_CHINA-HEALTH-IRAQ.jpeg



MUSLIMS COUNTRIES

WEARABLE

KC Wearable

Wearable shield to protect against coronavirus outbreaks

Shenzhen-based company has developed a smart helmet that can detect people with a fever up to five metres away, sounding an alarm when anyone with a high temperature comes close.

The headset Features an infrared temperature detector, an augmented-reality visor, a camera that can read QR codes, plus wifi, Bluetooth and 5G so it can beam data to the nearest hospital. Equipped with facial recognition technology, also display the subject's name, as well as their medical history.

<https://www.theguardian.com/artanddesign/2020/mar/25/10-coronavirus-covid-busting-designs>



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FEVER HELMET TEST

MASK

iczfir

Another easy printable and usable mask. (Updated 03-26-2020)

"I made this for the time being due to the shortage of surgical masks, due to the outbreak of the Covid-19 virus".

<https://www.thingiverse.com/thing:4185367>

**RESPIRATOR**

65

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Feb26
Feb

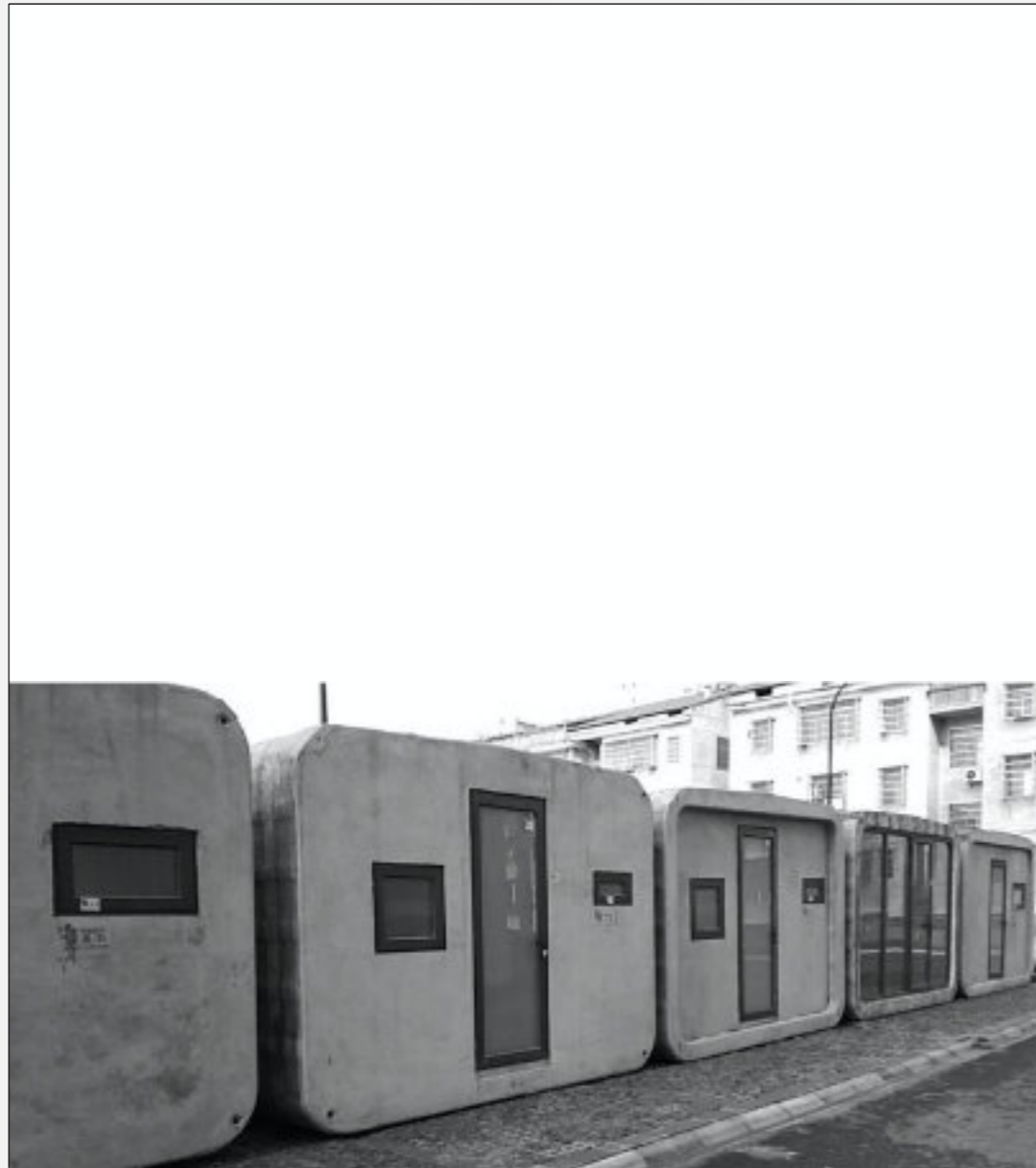
PODS

Yingchuang Construction Technology Co., Ltd

Randi Platform Enterprise's Artefact to Fight the Epidemic

In the battle against the new coronavirus, timely isolation has become the top priority for epidemic prevention and control. Adequate isolation wards can not only concentrate and isolate patients diagnosed with infection and suspected patients, effectively prevent the spread of the epidemic, but also provide patients with a more professional and comfortable treatment environment, which will help their early recovery.

http://www.winsun3d.com/En/News/news_inner/id/543



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ISOLATION WARDS

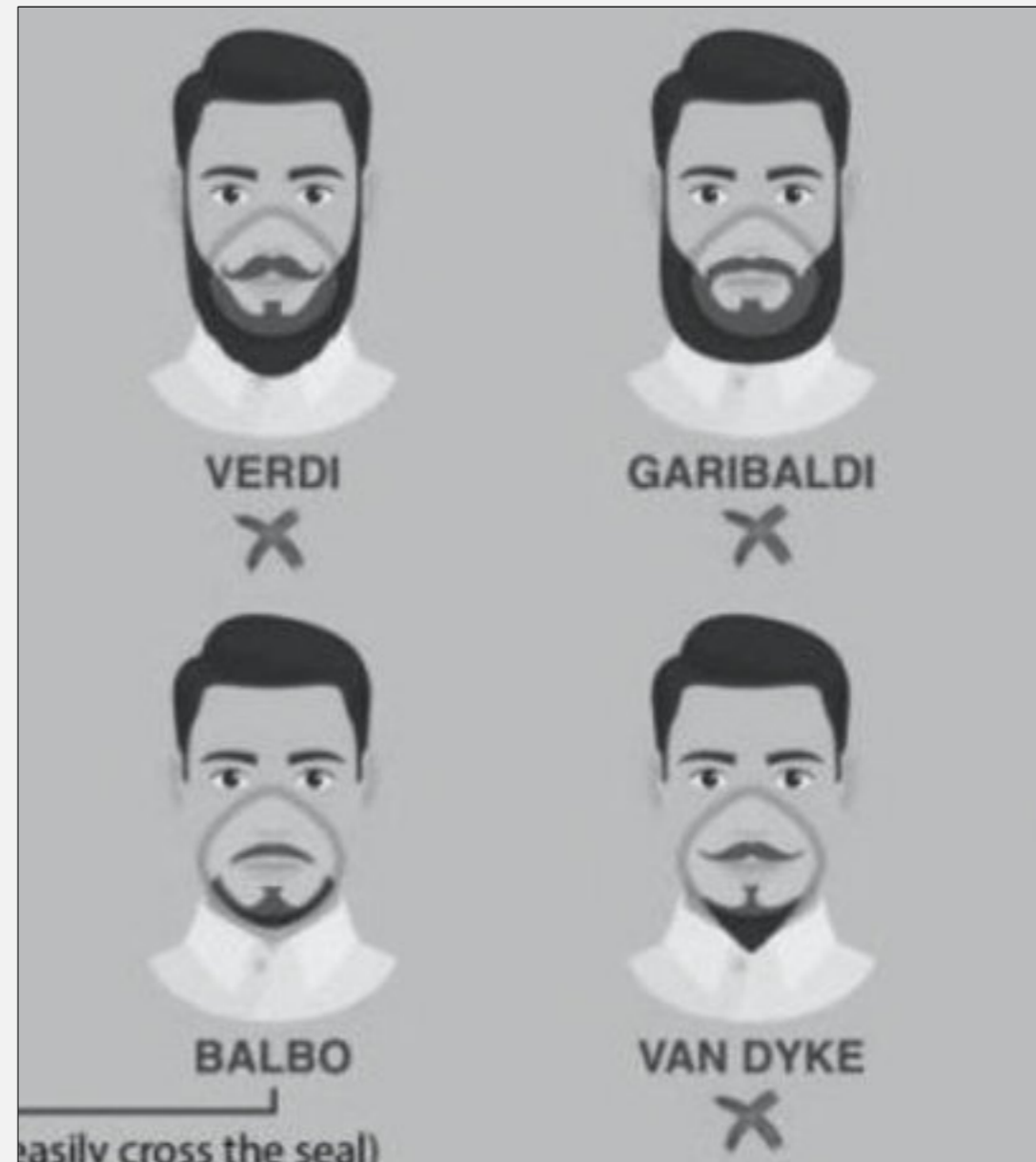
POSTER

Disease Control and Prevention (CDC)

NHS trust asks staff to shave off beards so coronavirus masks will fit

Medical experts say that certain styles of facial hair interfere with the exhalation valve on a respirator. It comes after the Centres for Disease Control and Prevention (CDC) in the US issued a poster showing 36 different kinds of facial hair and whether each style is compatible with a facepiece respirator or not.

<https://news.sky.com/story/cdc-which-facial-hair-styles-are-best-for-preventing-coronavirus-spread-11944169>



BEARD APPROPRIATENESS

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Feb

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Feb

MAP & CHARTS

World Health Organization

WHO Coronavirus Disease (COVID-19) Dashboard

The World Health Organization (WHO) health emergency dashboard is a platform which aims to share information about public health events and emergencies. The data on the dashboard is refreshed every fifteen (15) minutes and data is accurate as at time of refreshing.

<https://covid19.who.int>

27
Feb



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WHO DASHBOARD

DRONES

The Government of China

Code red - To curb covid-19, China is using its high-tech surveillance tools

A "close-contact" app being developed by a state-owned firm, China Electronics Technology Group Corporation. The app is supposed to provide officials with data drawn from the National Health Commission, the Ministry of Transport, China Railway and the Civil Aviation Administration of China to track citizens' travel, health and contacts with infected people. Drones have been deployed to identify suspects.

<https://www.economist.com/china/2020/02/29/to-curb-covid-19-china-is-using-its-high-tech-surveillance-tools>

29
Feb



TRACKING DRONES

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CHARTS

Martin Eichner and Markus Schwehm

CovidSIM Dashboard

CovidSIM is a planning tool for public health departments, local governments, companies and other parties who are concerned about the spread of the new corona virus SARS-CoV-2 which causes the disease called COVID-19. CovidSIM is a deterministic simulation tool which is based on differential equations. This means that it does not work with random numbers. All predictions must, therefore, be understood as average values.

<http://covid-sim.eu>

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Feb

MAP

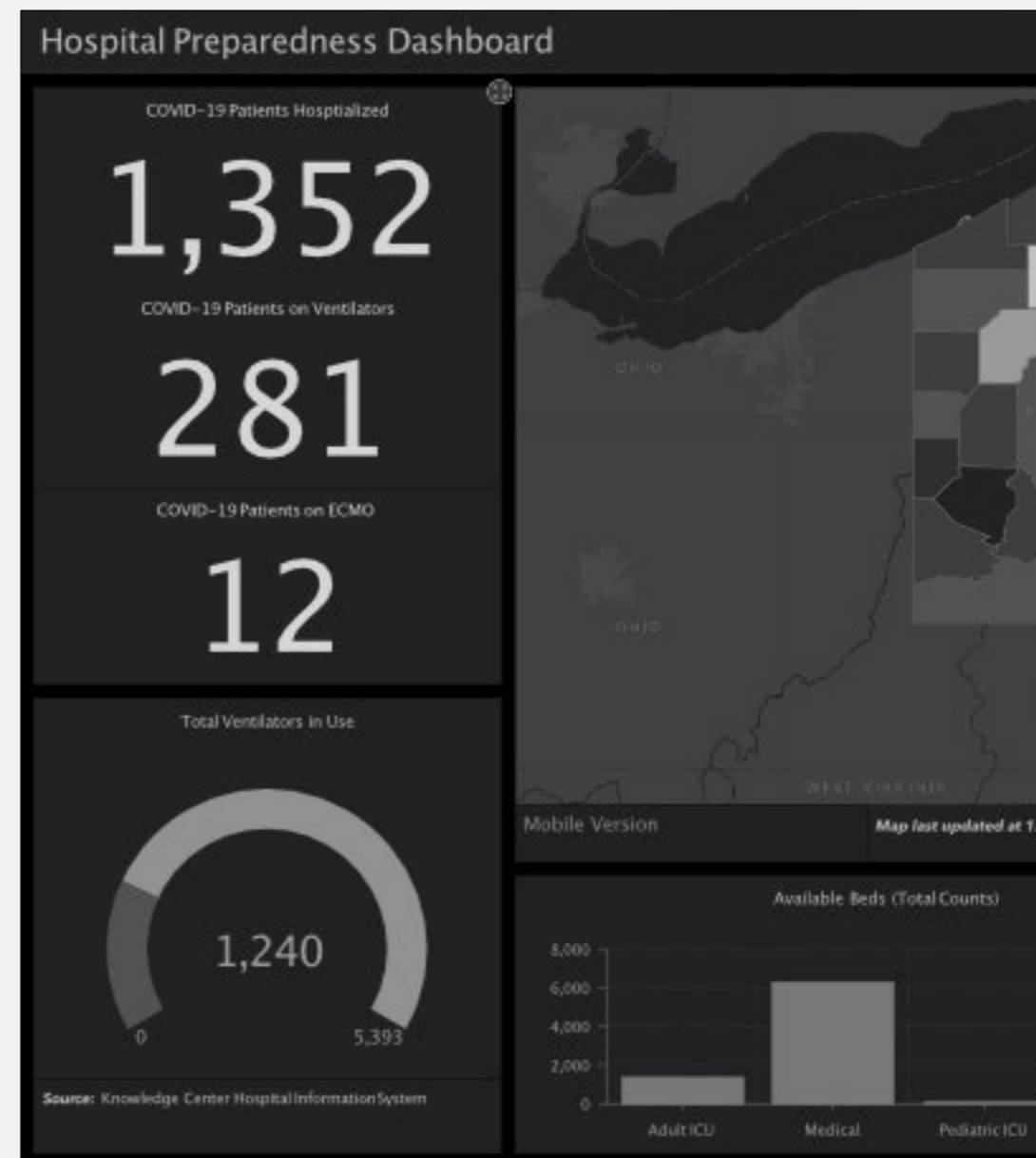
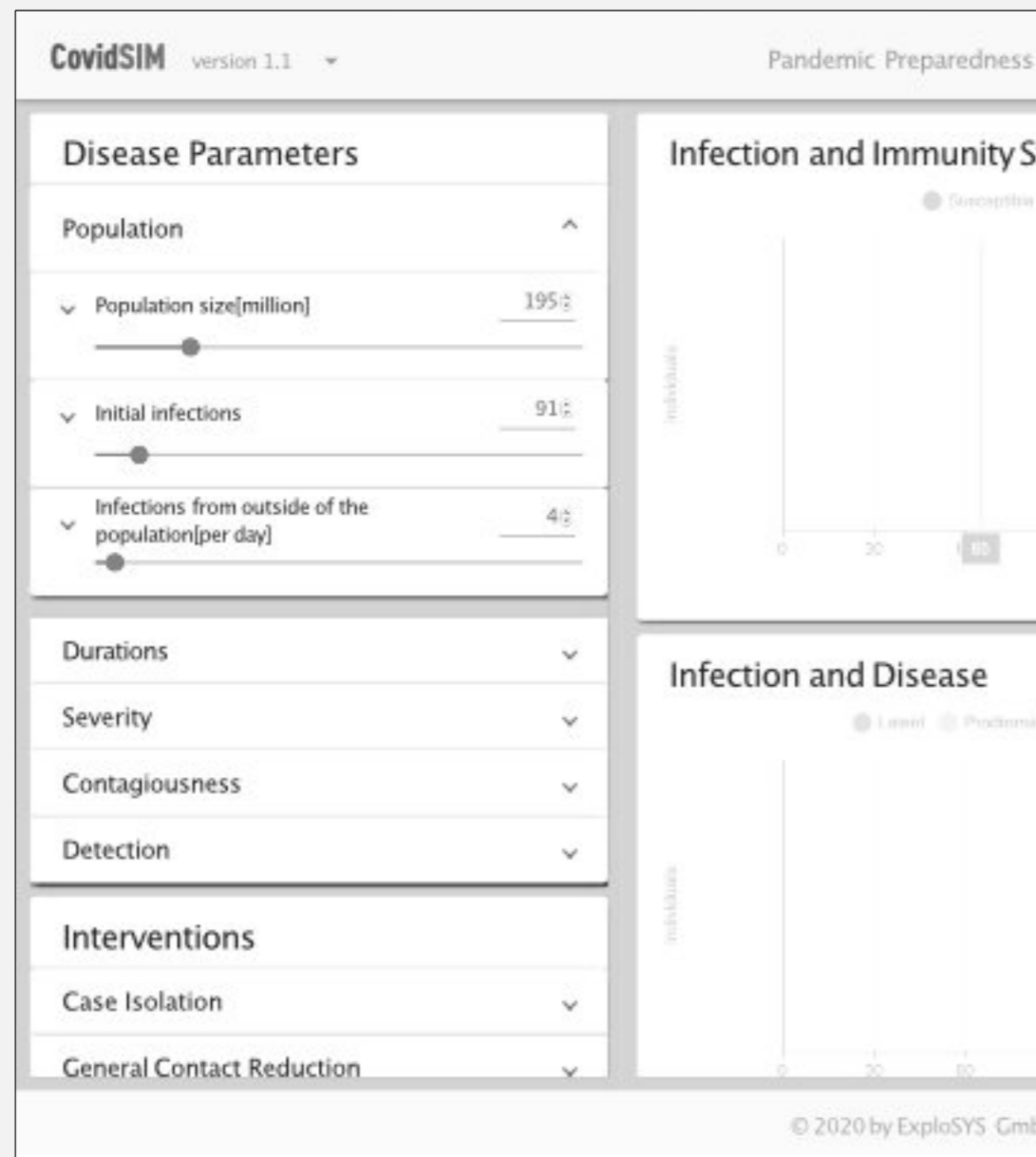
Pennsylvania department of Health, Knowledge Centre Hospital Information System

Hospital preparedness dashboard

Pennsylvania is utilising a three-phase matrix to determine when counties and/or regions are ready to begin easing some restrictions on work, congregate settings, and social interactions. View Governor's Wolf's phased reopening plan for Pennsylvania. View the testing and contact tracing plans.

<https://www.arcgis.com/apps/opsdashboard/index.html#/85054b06472e4208b02285b8557f24cf>

OI
Mar



POSTER

The White House

30 days to stop the spread

Guidelines provided by the White House to deal with the Lockdown.

https://www.whitehouse.gov/wp-content/uploads/2020/03/03.16.20_coronavirus-guidance_8.5x11_315PM.pdf



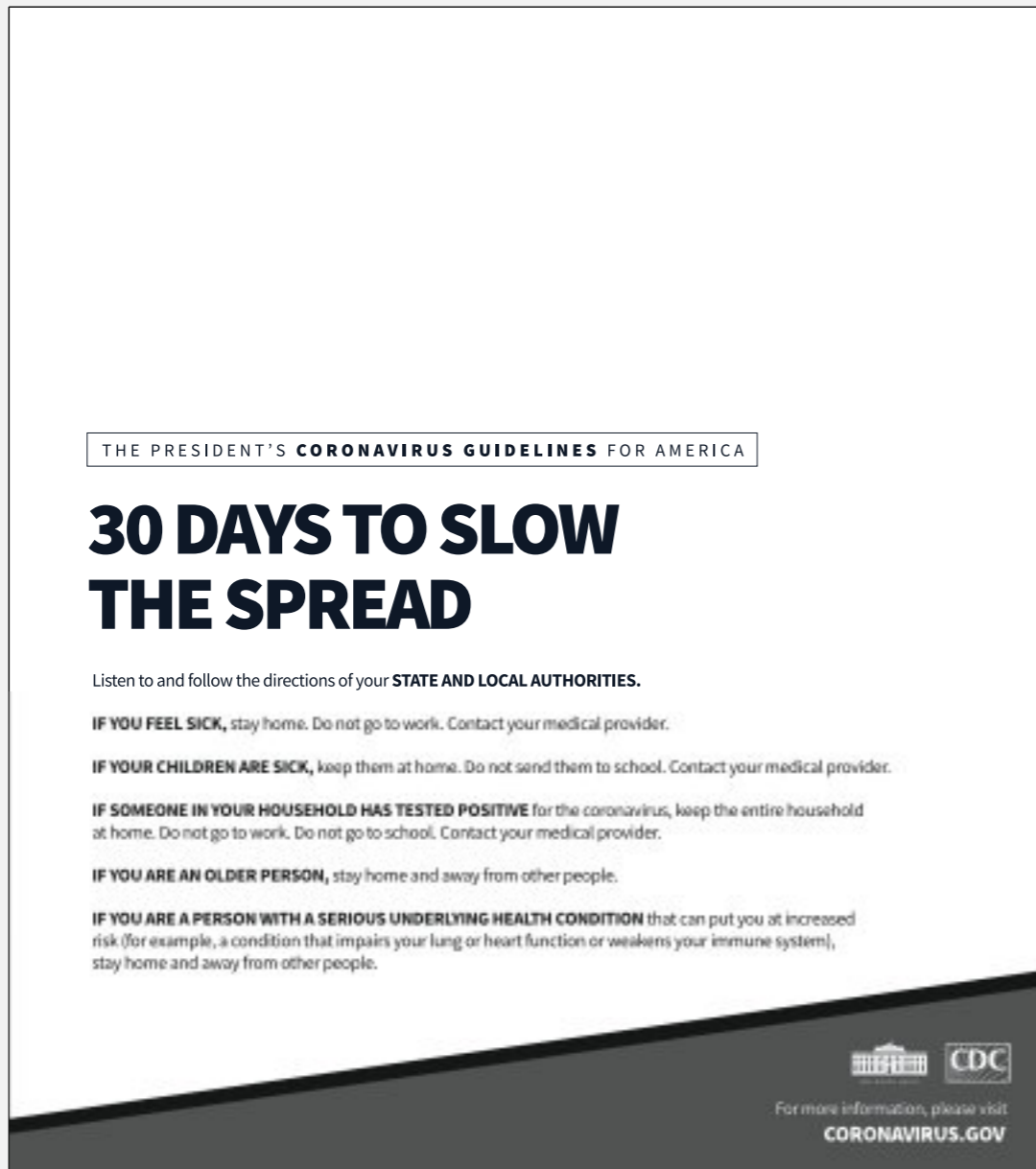
PROJECTS

ESRI

Get maps, datasets, applications, and more for coronavirus disease 2019 (COVID-19).

Understand, prepare for, and respond to COVID-19 in your community or organization. Find ready-to-use apps and dashboards that immediately aid better understanding and decision-making around COVID-19 in your community or organization. Use these examples from the global GIS community to create customized maps and interactive resources.

<https://coronavirus-disasterresponse.hub.arcgis.com>



APP

Mike Bodge, Brian Moore, and Isaac Blankensmith.

Face touch prevention

Do Not Touch Your Face is a tool that helps you avoid touching your face using your webcam and machine learning.

<https://donottouchyourface.com>

04
Mar

PROJECTS

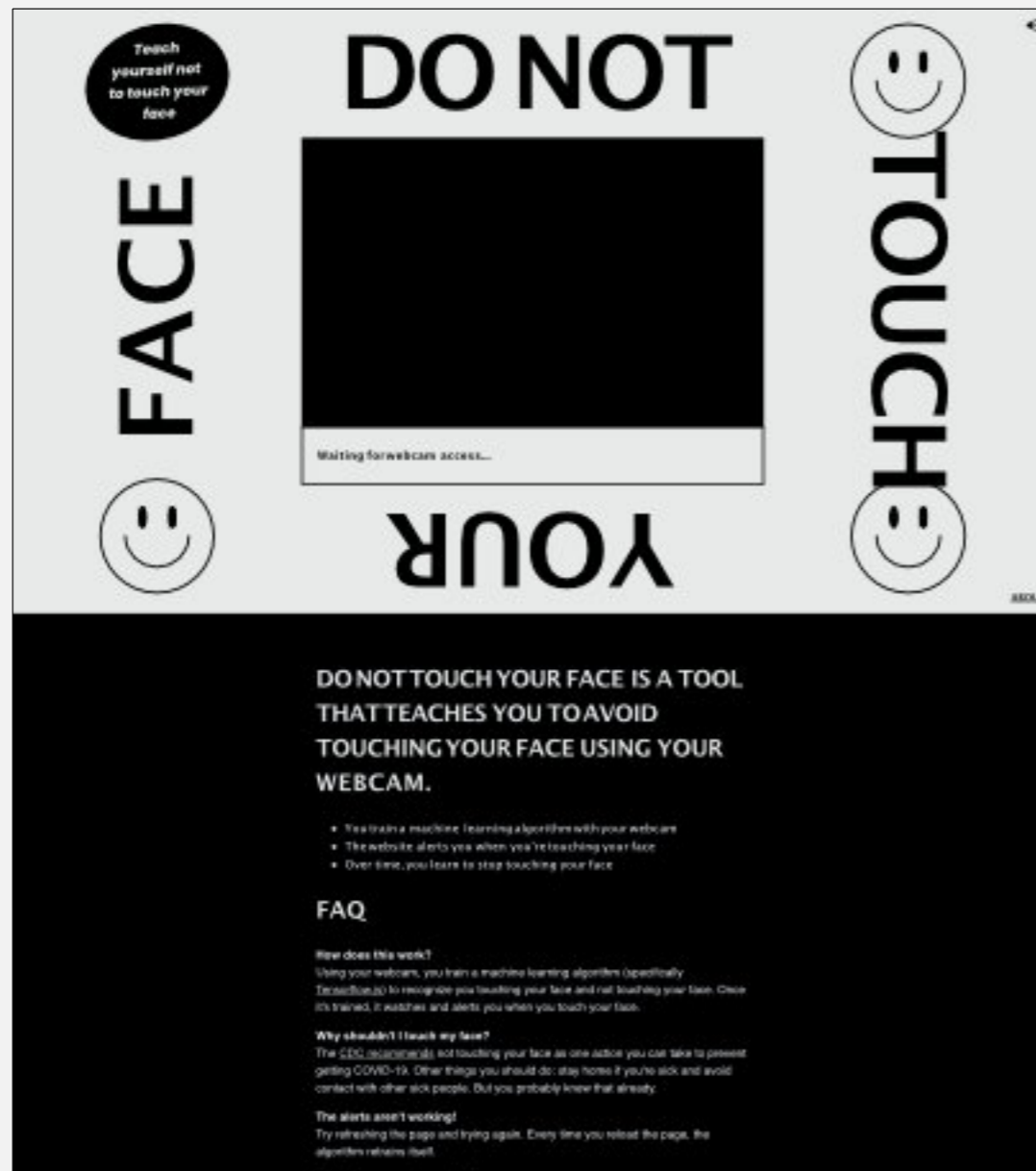
Jcahill

Megathread for COVID-19 discussion

Thread Rationale

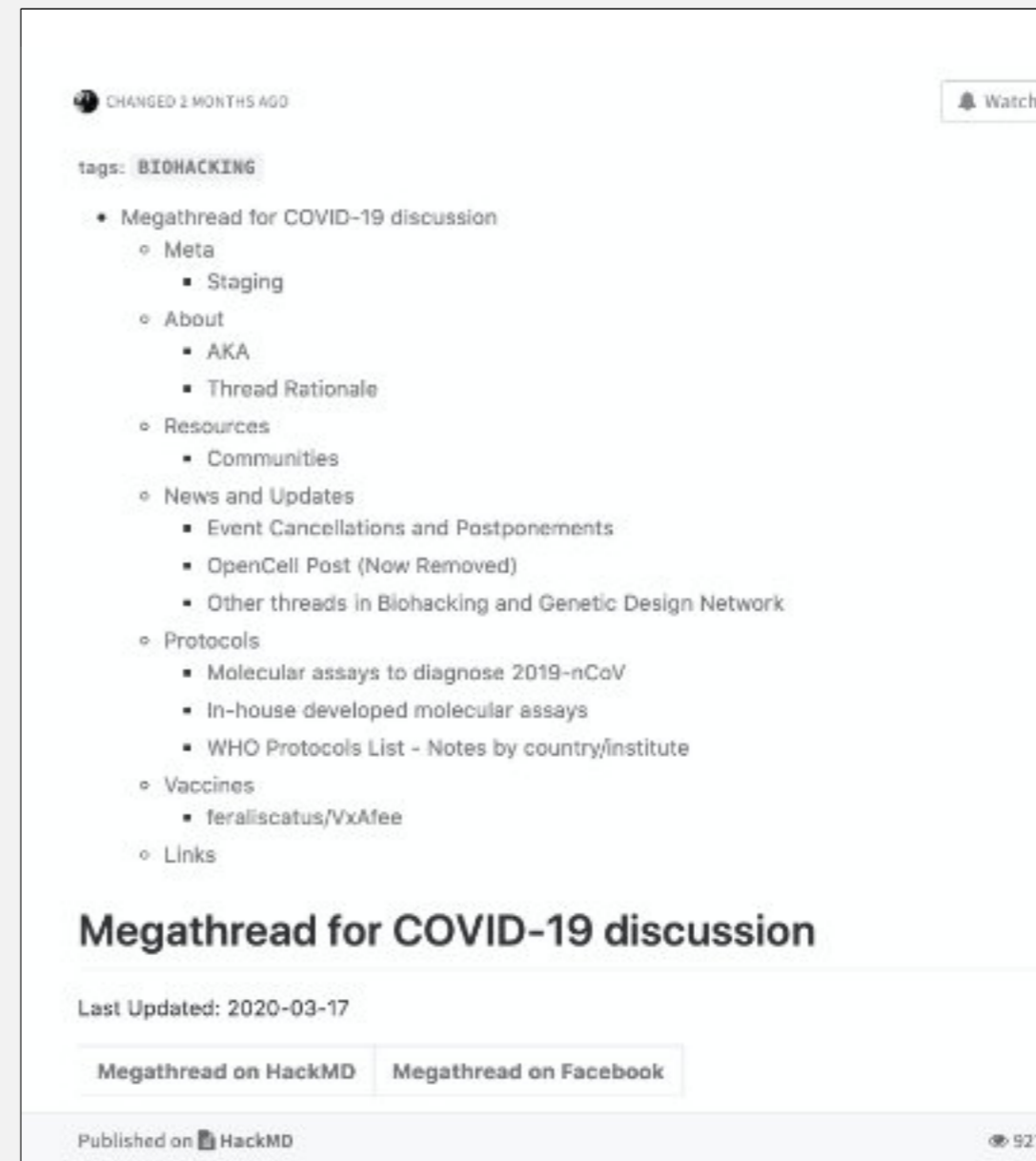
1. - Pandemic news is of general importance, but of tangential relevance to biohacking in most cases.. 2 - SARS was major world news for 18 months. MERS has had three notable outbreaks from 2012 to 2018. There's no particular reason to expect news to abate anytime soon.. 3 - Aiming to keep coronavirus discussion to one thread limits spam without forcing an outright ban on the topic.

<https://hackmd.io/@jcahill/SJ7nStBNL>

04
Mar

74

DO NOT TOUCH YOUR FACE



HACKMD

75

ILLUSTRATION

Sara Shakeel

Don't forget to Wash your hands

#art #imagine #washyourhands #clean #arte #awareness #educateyourself #artist #vision #prevention #imagine #water #coronavirus #prevention #who #world #health #incharge #public #publichealth #creativeexpedition

https://www.instagram.com/p/B9T0V5gn2e4/?utm_source=ig_embed

04
Mar



76

WASH YOUR HANDS

WEARABLE

MikeTheMaker

Don't touch your face

"Avoid touching your eyes, nose and mouth" after washing your hands or using hand sanitizer (assuming you can find hand sanitizer anywhere). This is easy to say, hard to do. This device (sort of like a watch) attaches to your wrist using a rubber band. When your arm rises in a "face touching direction," a tilt switch activates a buzzer to let you know that your hand is trying to get you into trouble.

<https://www.instructables.com/id/Dont-Touch-Face/>

06
Mar



BUZZER WRIST

77

06
Mar

Switzerland

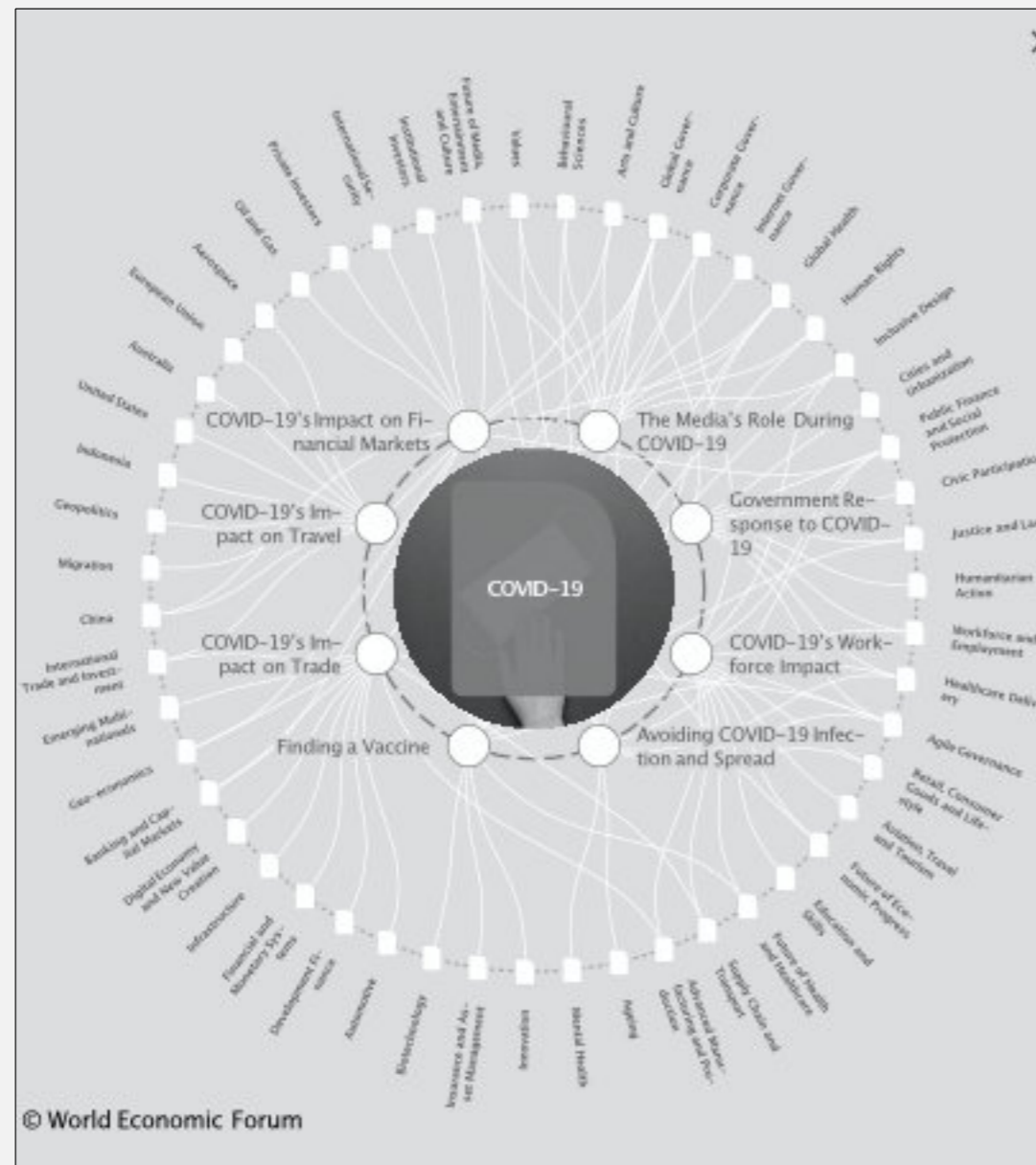
INFOGRAPHICS

World Economic Forum

WEF Strategic intelligence

COVID-19 threatens to become one of the most difficult tests faced by humanity in modern history. The International Monetary Fund says the global economy now faces its worst downturn since the Great Depression, and Oxfam International has warned that half a billion people could be pushed into poverty as a result of the unfolding crisis. Around the world, desperate efforts are underway to contain what has become a profoundly disruptive outbreak.

<https://intelligence.weforum.org/topics/a1G0X000006O6EHUA0?tab=publications>



Italy

DATABASE

The Government of Italy

COVID-19 Italia - Monitoraggio situazione

The main actions coordinated by the Head of the Department are aimed at the rescue and assistance of the population potentially affected by the infection, the strengthening of controls in airport and port areas, in continuity with the urgent measures already adopted by the Ministry of Health, on returning to Italy of citizens who are in countries at risk and the return of foreign citizens to countries of origin exposed to risk.

<https://github.com/pcm-dpc/COVID-19>

07
Mar

dati-contratti-dpc-covid19-fornitura.md README last month

README.md

PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile

EMERGENZA
CORONAVIRUS

Italiano - English

Dati COVID-19 Italia

[Visualizza la Dashboard](#) [Scarica i Dati](#)

Sito del Dipartimento della Protezione Civile - Emergenza Coronavirus: la risposta nazionale

Il 31 gennaio 2020, il Consiglio dei Ministri dichiara lo stato di emergenza, per la durata di sei mesi, in conseguenza del rischio sanitario connesso all'infezione da Coronavirus.

Al Capo del Dipartimento della Protezione Civile, Angelo Borrelli, è affidato il coordinamento degli interventi necessari a fronteggiare l'emergenza sul territorio nazionale.

Le principali azioni coordinate dal Capo del Dipartimento sono volte al soccorso e all'assistenza della popolazione eventualmente interessata dal contagio, al potenziamento dei controlli nelle aree aeroportuali e portuali, in continuità con le misure urgenti già adottate dal Ministero della salute, al rientro in Italia dei cittadini che si trovano nei Paesi a rischio e al rimpatrio dei cittadini stranieri nei Paesi di origine esposti al rischio.

Per informare i cittadini e mettere a disposizione i dati raccolti, utili ai soli fini comunicativi e di informazione, il Dipartimento della Protezione Civile ha elaborato un cruscotto geografico interattivo raggiungibile agli indirizzi <http://arog.it/CI1> (versione desktop) e <http://arog.it/CI1a51> (versione mobile) e mette a disposizione, con licenza CC-BY-4.0, le seguenti informazioni aggiornate quotidianamente alle 18:30 (successivamente la conferenza stampa del Capo Dipartimento):

- Dati Andamento nazionale
- Dati json
- Dati regioni
- Dati province
- Schede riepilogative
- Aree
- Note
- Dati contratti DPC forniture

Avvisi

Avvisi sui dati andamento COVID-19 Italia

78

STRATEGIC INTELLIGENCE

COVID-19 DATASET

79

WEARABLE

Joseph Toles, Justin Ith, and Matthew Toles

Keep germs on your hands out of your mouth, nose, & eyes

"The C.D.C. still say something like 'avoid' touching your eyes, nose and mouth," said Dr. William P. Sawyer, a family physician in Sharonville, Ohio, and creator of HenrytheHand.com, which promotes hand and face hygiene. "The advice should be 'absolutely do not touch them!' If you never touch your facial mucous membranes, you're less likely to be sick again from any viral respiratory infection.

<https://immutouch.com/>



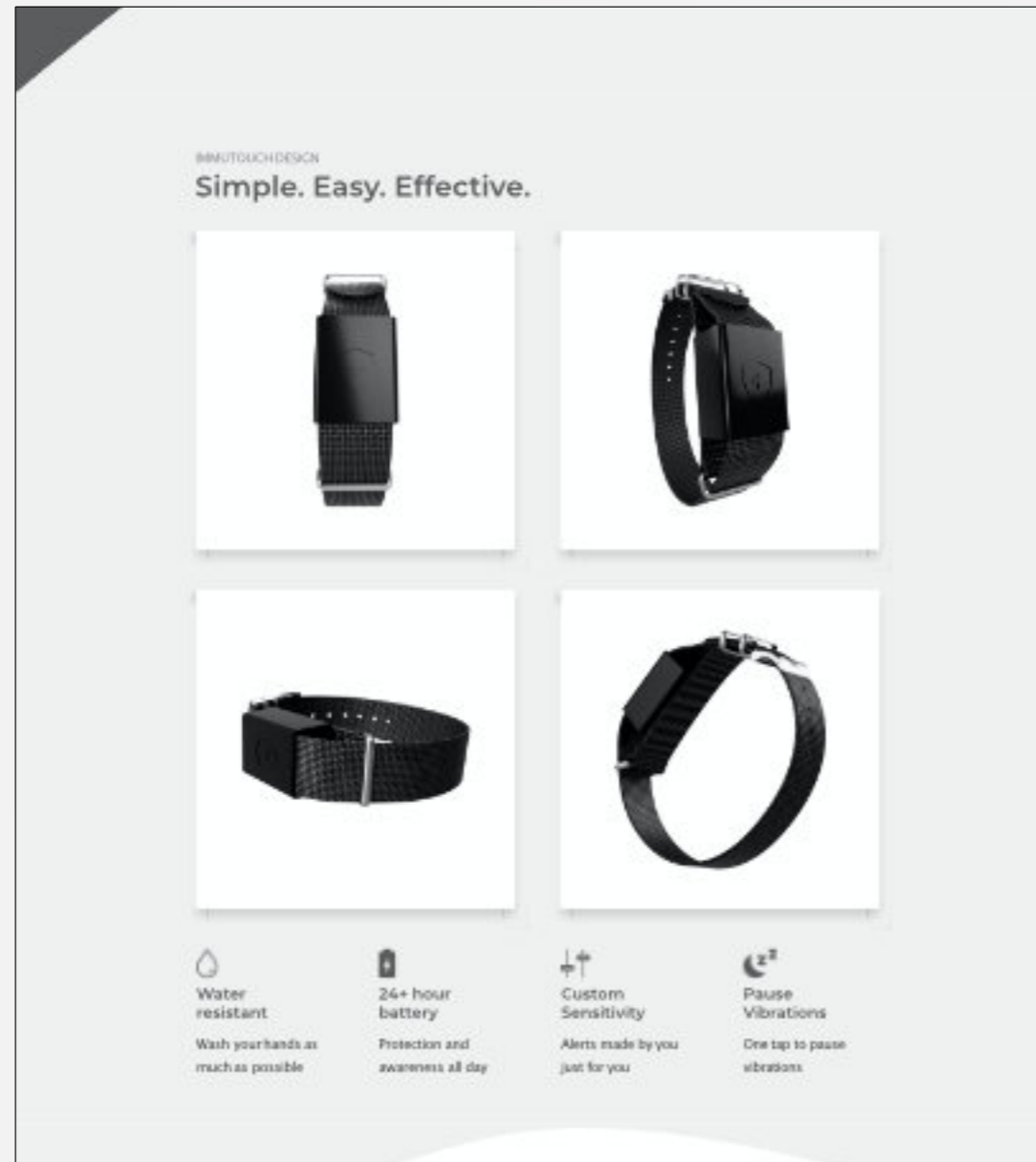
HACKATHON

The Government of Germany

A hackatron from the German federal government

48 hours. Challenges from the federal government as well as from society. You and theoretically 80 million others. One crisis. Many solutions.

<https://wirvsvirushackathon.org/?lang=en>



DATABASE

@jodigraphics15

Multidimensional COVID-19 database

[COVID2019.app] Cases, deaths, recovered, severe and active cases (102 territories in the world)

The total number of tested people is not available for all the countries.

<https://datawrapper.dwcdn.net/IUWLM/4/>

[COVID2019.app]
Cases, deaths, recovered, severe and active cases (102 territories in the world)

Region	Territories	Cases	Deaths	Recovered	Severe	Tested	Active
1	China	80,813	3,319	77,494	3,016		
2	Korea, Republic of	10,211	18	10,193	0	100,000	18
3	Iran	1,006	126	1,006	0	0	1,006
4	Italy	1,004	233	549	222		222
5	France	568	28	540	0		28
6	Germany	302	0	302	0		0
7	Diamond Princess	300	7	293	0	0	7
8	Spain	260	17	243	0	0	17
9	Japan	181	0	76	26	0	79
10	United States of America	160	16	0	7		16
11	Switzerland	141	1	0	0	0	141
12	Netherlands	131	1	0	0	0	130
13	United Kingdom	100	2	0	0		100
14	Belgium	100	0	0	0	0	100
15	Sweden	111	0	0	0	0	111
16	Norway	111	0	0	0		111
17	Singapore	100	0	99	0	0	1
18	Hong Kong	111	0	10	0	0	10
19	Malaysia	90	0	26	0		26
20	Austria	80	0	7	0	0	7
21	Australia	70	0	22	0	0	22
22	Czechia	60	0	0	0		60
23	Kanuk	50	0	0	0	0	50
24	Ethiopia	40	0	0	0		40
25	Canada	30	0	0	0	0	30
26	Iraq	20	0	0	0		20
27	Ireland	10	0	0	0		10
28	Egypt	10	0	0	0		10
29	Thailand	10	0	11	0		11
30	Taiwan	10	0	12	0		12
31	United Arab Emirates	10	0	7	0		7
32	India	10	0	0	0		10
33	Vietnam	10	0	14	0		14
34	Libanon	10	0	1	0		1
35	Cuba	10	0	0	0	0	10
36	San Marino	10	0	0	0	0	10
37	Portugal	10	0	0	0	0	10

POSTER

CDC - Centre for Disease Control and Prevention

Help prevent the spread of respiratory diseases like COVID-19

Stay at least 6 feet (about 2 arms' length) from other people. Cover your cough or sneeze with a tissue, then throw the tissue in the trash and wash your hands. When in public, wear a cloth face covering over your nose and mouth.. Do not touch your eyes, nose, and mouth. Clean and disinfect frequently when touched.

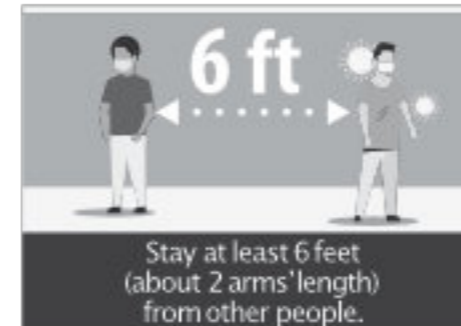
<https://www.cdc.gov/coronavirus/2019-ncov/downloads/stop-the-spread-of-germs.pdf>

08
Mar

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Mar

Stop the Spread of Germs

Help prevent the spread of respiratory diseases like COVID-19.



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COVID2019.APP

STOP THE SPREAD OF GERMS

83

POSTER

CDC - Centre for Disease Control and Prevention

Share facts about COVID-19

Know the facts about coronavirus (COVID-19) and help stop the spread of rumours.

<https://www.cdc.gov/coronavirus/2019-ncov/about/share-facts-h.pdf>



POSTER

CDC - Centre for Disease Control and Prevention

Stay home when you are sick!

If you feel unwell or have the following symptoms, please leave the building and contact your health care provider. Then follow-up with your supervisor.

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/StayHomeFromWork.pdf>



Share facts about COVID-19

Know the facts about coronavirus (COVID-19) and help stop the spread of rumors.

FACT 1 Diseases can make anyone sick regardless of their race or ethnicity.

Fear and anxiety about COVID-19 can cause people to avoid or reject others even though they are not at risk for spreading the virus.

FACT 4 There are simple things you can do to help keep yourself and others healthy.

- Wash your hands often with soap and water for at least 20 seconds, especially after blowing your nose, coughing, or sneezing; going to the bathroom; and before eating or preparing food.
- When in public, wear a cloth face covering that covers your mouth and nose.
- Avoid touching your eyes, nose, and mouth with unwashed hands.
- Stay home when you are sick.
- Cover your cough or sneeze with a tissue, then throw the tissue in the trash.

FACT 2 For most people, the immediate risk of becoming seriously ill from the virus that causes COVID-19 is thought to be low.

Older adults and people of any age who have serious underlying medical conditions may be at higher risk for more serious complications from COVID-19.

FACT 5 You can help stop COVID-19 by knowing the signs and symptoms, which can include:

- Fever
- Cough
- Shortness of breath


Seek medical attention immediately if you or someone you love has emergency warning signs, including:

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion or not able to be woken
- Bluish lips or face

This list is not all inclusive. Please consult your medical provider.

FACT 3 Someone who has completed quarantine or has been released from isolation does not pose a risk of infection to other people.

For up-to-date information, visit CDC's coronavirus disease 2019 web page.



Feeling Sick?

Stay home when you are sick!


If you feel unwell or have the following symptoms please leave the building and contact your health care provider. Then follow-up with your supervisor.



FEVER



COUGH



SHORTNESS OF BREATH

POSTER

CDC - Centre for Disease Control and Prevention

10 things you can do to manage your COVID-19 symptoms at home

10 things you can do to manage your COVID-19 symptoms at home if you have possible or confirmed COVID-19

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/10Things.pdf>



ILLUSTRATION

Brian Stauffer, The New Yorker

Trump refusal to acknowledge the problem

On Wednesday, in response to criticism about his Administration's response, President Trump held a press conference addressing the epidemic. His performance—as Brian Stauffer's cover for this week's magazine suggests—was not entirely persuasive. "We're doing really well," Trump said. That day, the Centers for Disease Control and Prevention announced that it had identified, in California, the first U.S. case that had not been contracted from travel abroad, and stocks continued to tumble worldwide











https://media.newyorker.com/photos/5e583e664a36920008dad983/master/w_2560%2Cc_limit/stauffer_trump_coronavirus.jpg



10 things you can do to manage your COVID-19 symptoms at home

Accessible Version: <https://www.cdc.gov/coronavirus/2019-ncov/downloads/10Things.pdf>

If you have possible or confirmed COVID-19:

1. Stay home from work and school. And stay away from other public places. If you must go out, avoid using any kind of public transportation, ridesharing, or taxis. 
2. Monitor your symptoms carefully. If your symptoms get worse, call your healthcare provider immediately. 
3. Get rest and stay hydrated. 
4. If you have a medical appointment, call the healthcare provider ahead of time and tell them that you have or may have COVID-19. 
5. For medical emergencies, call 911 and notify the dispatch personnel that you have or may have COVID-19. 
6. Cover your cough and sneezes. 
7. Wash your hands often with soap and water for at least 20 seconds or clean your hands with an alcohol-based hand sanitizer that contains at least 60% alcohol. 
8. As much as possible, stay in a specific room and away from other people in your home. Also, you should use a separate bathroom, if available. If you need to be around other people in or outside of the home, wear a facemask. 
9. Avoid sharing personal items with other people in your household, like dishes, towels, and bedding. 
10. Clean all surfaces that are touched often, like counters, tabletops, and doorknobs. Use household cleaning sprays or wipes according to the label instructions. 



POSTER

NHS

'Stay home, save lives' government advert urges Britons to protect NHS

The government's latest public advert urging all to stay home, only leave the house for essentials and always remain 2 metres apart.

<https://downloads.coronavirusresources.phe.gov.uk/images/poster-stay-home-poster.width-400.png>



POSTER

NHS

'Stay home, save lives' government advert urges Britons to protect NHS

A new version appears in the government's latest public advert urging all citizens follow the advice; to stay home, protect the NHS, and save lives.

<https://pbs.twimg.com/media/EVAgpKbU4AA4zVL.png>



POSTER

NHS

'Stay home, this bank holiday weekend'

A third version appears in the government's latest public advert urging all citizens to stay home during the next bank holiday's weekend in order to protect other citizens and the NHS.

https://www.fyldecoastccgs.nhs.uk/wp-content/uploads/2020/04/2020.04.07_Bank_-Holiday_-Static_16x9.png

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Mar



90 STAY HOME

90

POSTER

NHS

'Stay home, protect the NHS, save lives' government advert urges Britons to protect NHS

Another illustration appears in the government's latest public advert urging all citizens to remain at home, only leave the house for essential, and always remain 2 metres apart.

<https://d3n8a8pro7vnm.cloudfront.net/themes/5dbad73845de9456d2180f4e/attachments/original/1585307694/Stayhome.jpg?1585307694>

10
Mar



PROTECT THE NHS 91

91


POSTER

CDC - Centre for Disease Control and Prevention

CERC in an infectious disease outbreak

Know the facts about coronavirus (COVID-19) and help stop the spread of rumours.

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/fs-CERC-Infectious-Disease.pdf>

CERC in an Infectious Disease Outbreak

- Be First:** Quickly sharing information about a disease outbreak can help stop the spread of disease, and prevent and reduce illness and even death. People often remember the first information they hear in an emergency, so the first information they receive should come from health experts.
 - Even if the cause of the outbreak or specific disease is unknown, share facts that are available. This can help you stay ahead of possible rumors.
 - Share information about the signs and symptoms of disease, who is at risk, treatment and care options, and when to seek medical care.
- Be Right:** Accuracy establishes credibility. Information should include what is known, what is not known, and what is being done to fill in the information gaps.
 - Public health messages and medical guidance must complement each other. For example, public health officials should not widely encourage people to go to the doctors if doctors are turning people away and running out of medicine for critically ill people.
 - Always fact check with subject-matter experts. One incorrect message can cause harmful behaviors and may result in people losing trust in future messages.
- Be Credible:** Honesty, timeliness, and scientific evidence encourage the public to trust your information and guidance. Acknowledge when you do not have enough information to answer a question and then work with the appropriate experts to get an answer.
 - Do not make promises about anything that is not yet certain, such as distribution of vaccines or medications without confirmed availability.
 - Clinicians should be present at press or community events to answer medical questions.
- Express Empathy:** Disease outbreaks can cause fear and disrupt daily lives. Lesser-known or emerging diseases cause more uncertainty and anxiety. Acknowledging what people are feeling and their challenges shows that you are considering their perspectives when you give recommendations.
 - For example, during a telebriefing for the coronavirus disease 2019 response: "Being quarantined can be disruptive, frustrating, and feel scary. Especially when the reason for quarantine is exposure to a new disease for which there may be limited information."
- Promote Action:** In an infectious disease outbreak, public understanding of and action on disease prevention is key to stopping the spread.
 - Keep action messages simple, short, and easy to remember, like "cover your cough."
 - Promote action messages in different ways to make sure they reach those with disabilities, limited English proficiency, and varying access to information.
- Show Respect:** Respectful communication is particularly important when people feel vulnerable. Respectful communication promotes cooperation and rapport. Actively listen to the issues and solutions brought up by local communities and local leadership.
 - Acknowledge different cultural beliefs and practices about diseases, and work with communities to adapt behaviors and promote understanding.
 - Do not dismiss fears or concerns. Give people a chance to talk and ask questions.

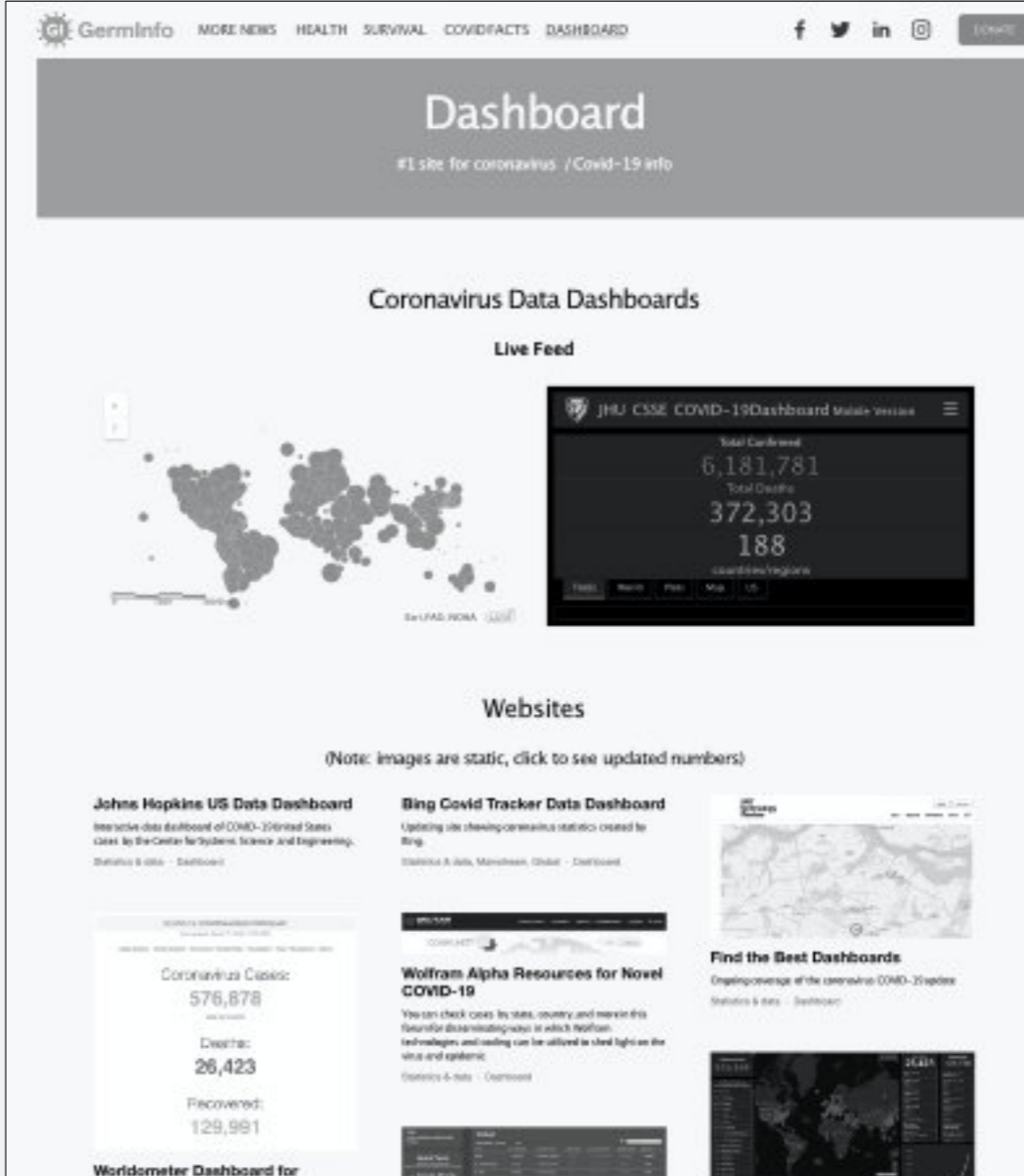
DATABASE

GermInfo

Dashboard. #1 site for coronavirus / COVID-19 info

Our organization is comprised of volunteers, entrepreneurs, and scientists who care about public health, sustainable medicine, and evidence-based therapies. We're here for you

<https://www.germinfo.org/dashboard>

Dashboard
#1 site for coronavirus / Covid-19 info

Coronavirus Data Dashboards

Live Feed

Websites

(Note: images are static, click to see updated numbers)

- Johns Hopkins US Data Dashboard**: Interactive data dashboard of COVID-2019 United States cases by the Center for Systems Science and Engineering.
- Bing Covid Tracker Data Dashboard**: Updating site showing coronavirus statistics created by Bing.
- Wolfram Alpha Resources for Novel COVID-19**: You can check cases by state, country and more in this powerful dashboard which includes technologies and coding can be utilized to shed light on the virus and epidemic.
- Worldometer Dashboard for Coronavirus**
- Find the Best Dashboards**: Dragging coverage of the coronavirus COVID-20 update.

MASK

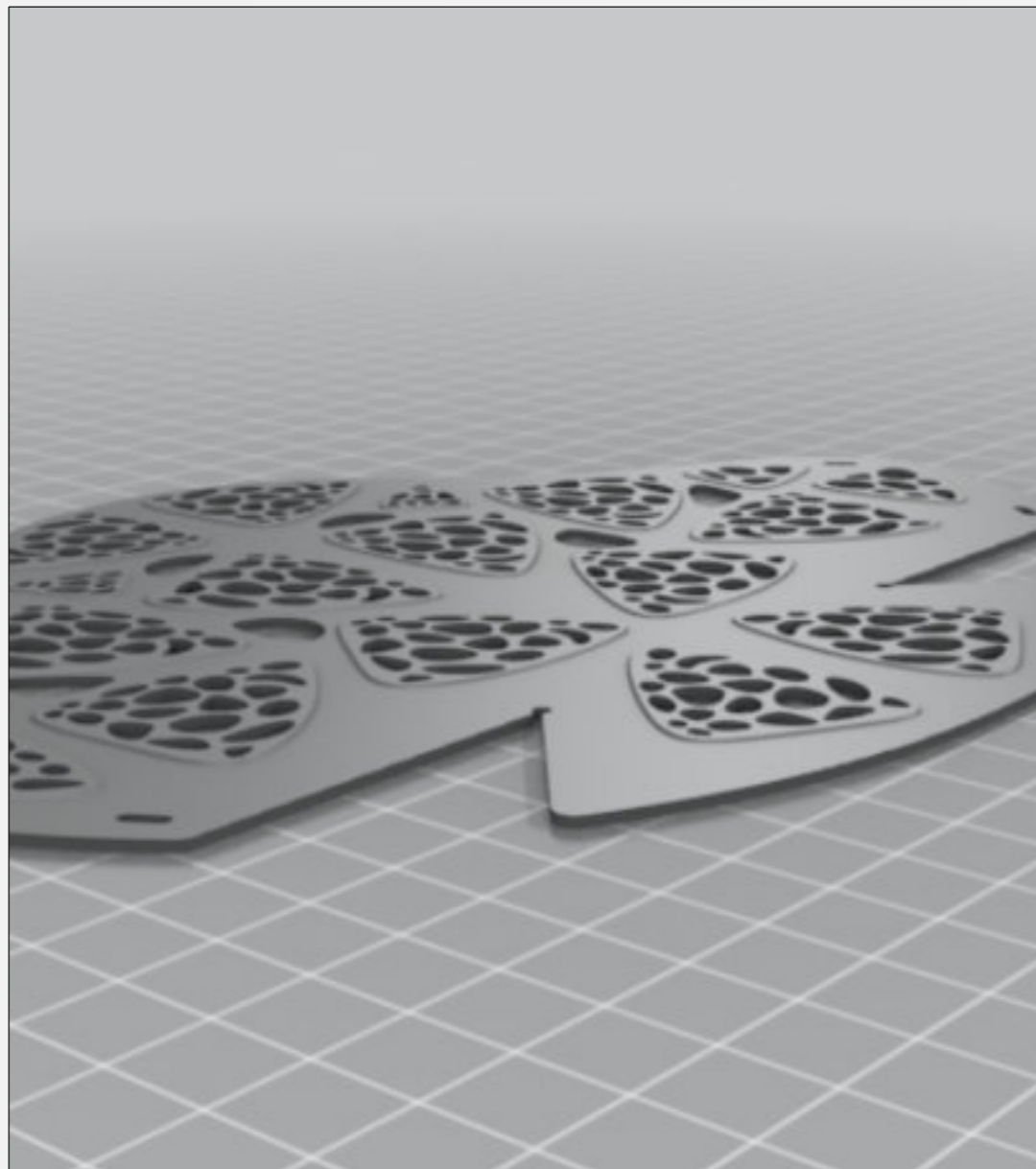
eruiztagle

Personal Antimicrobial Facemask

Coronavirus COVID-19 is out of control and protective masks are sold out worldwide. This has led to the rise in the demand for protective masks against the virus, covering the supply stock and leaving thousands without their mask. As a way to protect yourself I created this design that anyone can print from home and adjust to the shape of your face by thermoforming the piece just using a hairdryer.

<https://www.thingiverse.com/thing:4214066>

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MODEL

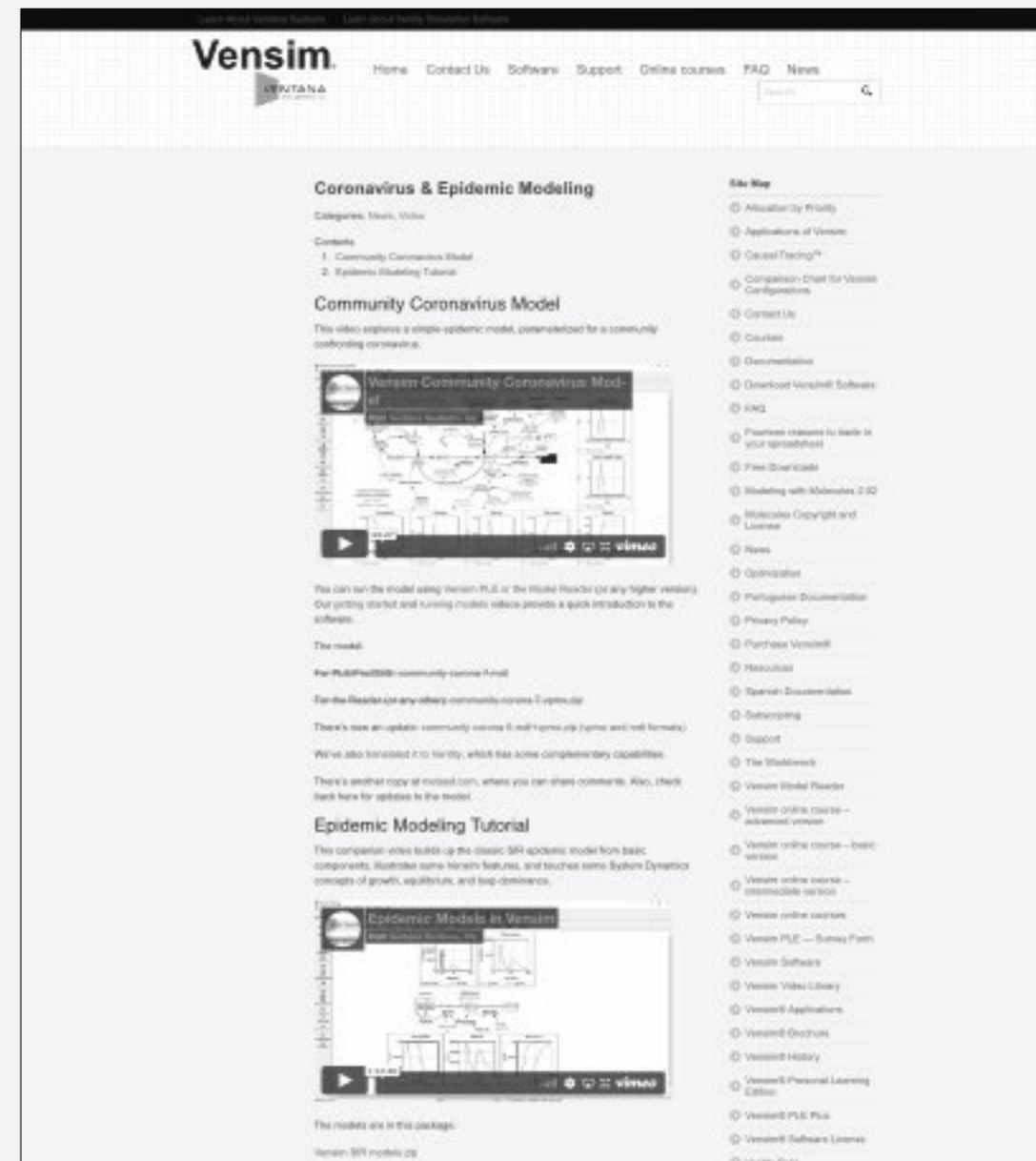
Ventana Systems

Coronavirus & Epidemic Modelling

Community Coronavirus Model. This video explores a simple epidemic model, parameterised for a community confronting coronavirus. You can run the model using Vensim PLE or the Model Reader (or any higher version). This companion video builds up the classic SIR epidemic model from basic components, illustrates some Vensim features, and touches some System Dynamics concepts of growth, equilibrium, and loop dominance. They're distributed under the MIT license, so you can use and adapt them for teaching or any other purpose.

<https://vensim.com/coronavirus/>

II
Mar



PLATFORM

Various

Community Action Response

Eden Project Communities have joined forces with leaders from different sectors to launch the Community Action Response to encourage everyone to do what they can to support their communities, and particularly vulnerable and isolated people during the Covid-19 crisis. The Community Action Response has been created because of the unprecedented challenge that Covid-19 presents for people in every neighbourhood in the UK.

<https://www.edenprojectcommunities.com/community-action-response>



CHARTS

alecrimi

alecrimi/SEIR_COV19: SEIR implementation of forecast epidemics

SEIR implementation of forecast epidemics. Contribute to alecrimi/SEIR_COV19 development by creating an account on GitHub.

https://github.com/alecrimi/SEIR_COV19



The screenshot shows the website for Eden Project Communities. The main heading is "COMMUNITY ACTION RESPONSE". Below it, a text block explains the initiative. A central graphic titled "COMMUNITY ACTION RESPONSE" features four icons and corresponding text boxes: "BE KIND, CONSIDERATE AND THINK OF OTHERS", "CONTACT AND REACH OUT TO YOUR COMMUNITY", "SUPPORT EACH OTHER AND BE RESPONSIVE", and "SHARE RESOURCES, ADVICE AND SECURE INFORMATION". Below the graphic, there are two quotes: one from Peter Stewart, Executive Director of Eden Project Communities, and another from Dawn Austinwick, CEO of The National Lottery Community Fund.

The screenshot shows the GitHub repository page for "alecrimi/SEIR_COV19". It displays the repository name, a table of files, and a description of the SEIR model implementation. The table lists files such as "README.md", "SEIR_model.py", and "SEIR_model_gui.py". The description explains the SEIR model and its implementation in Python, including a compartmental diagram.

APP

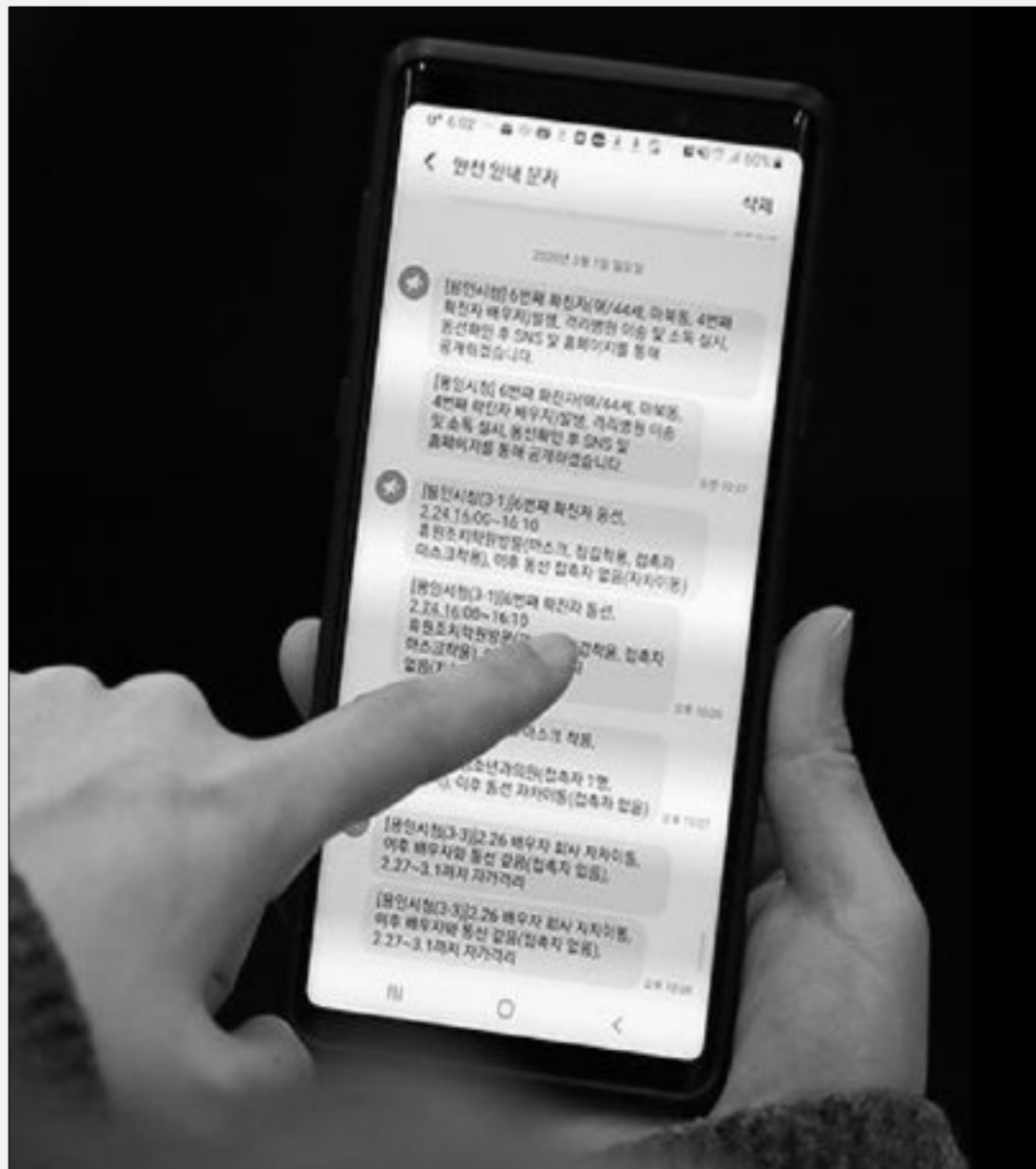
The Government of South Korea

South Korea to step-up online coronavirus tracking

South Korea is set to deploy a new system using data such as surveillance camera footage and credit card transactions of confirmed coronavirus patients to recreate their movements.

<https://www.smartcitiesworld.net/news/news/south-korea-to-step-up-online-coronavirus-tracking-5109>

12
Mar



DATABASE

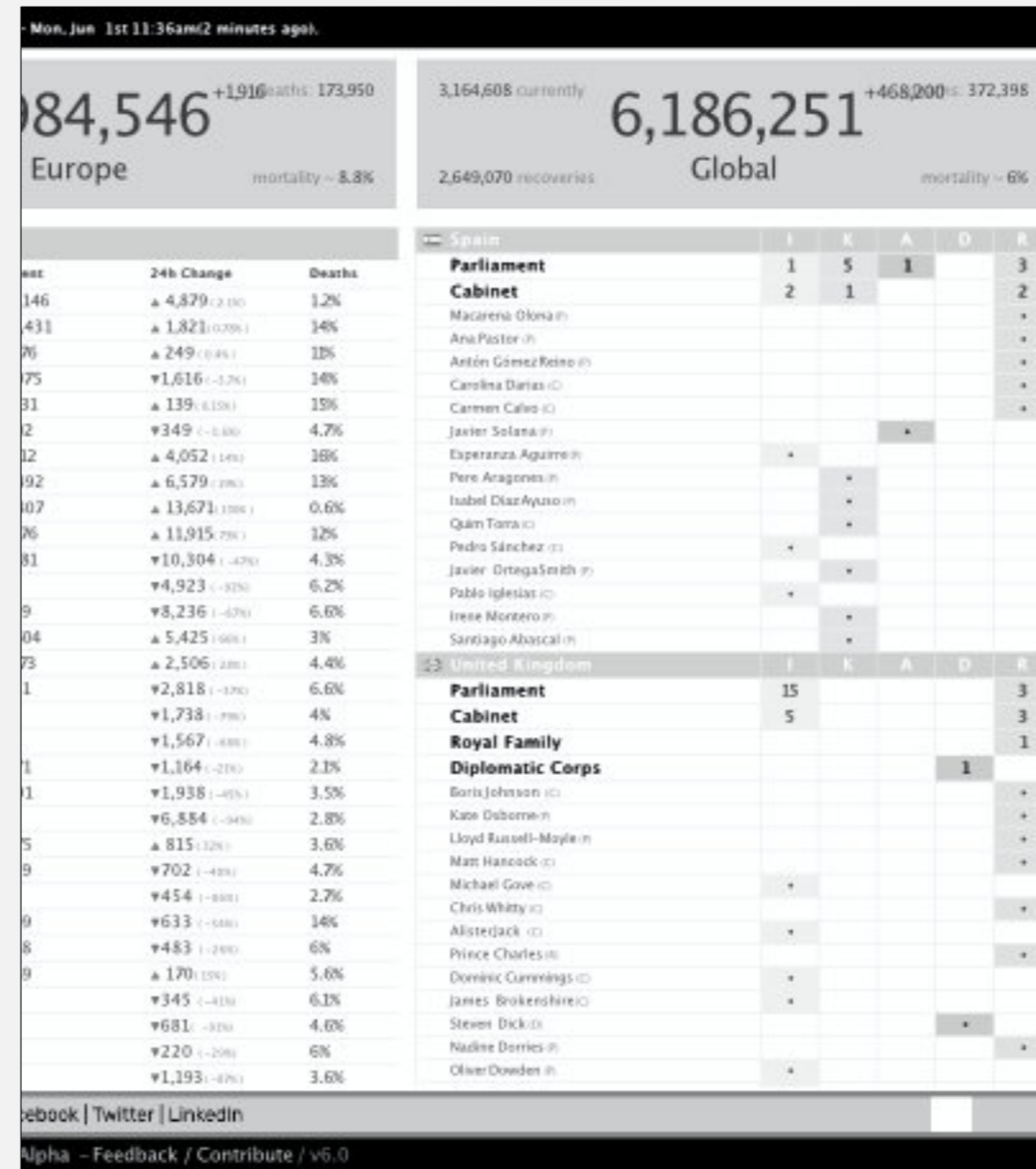
OneSub

Number of politicians infected

Database informing on the number of politicians infected around the world..

<https://onesub.io/covid/>

12
Mar



DATABASE

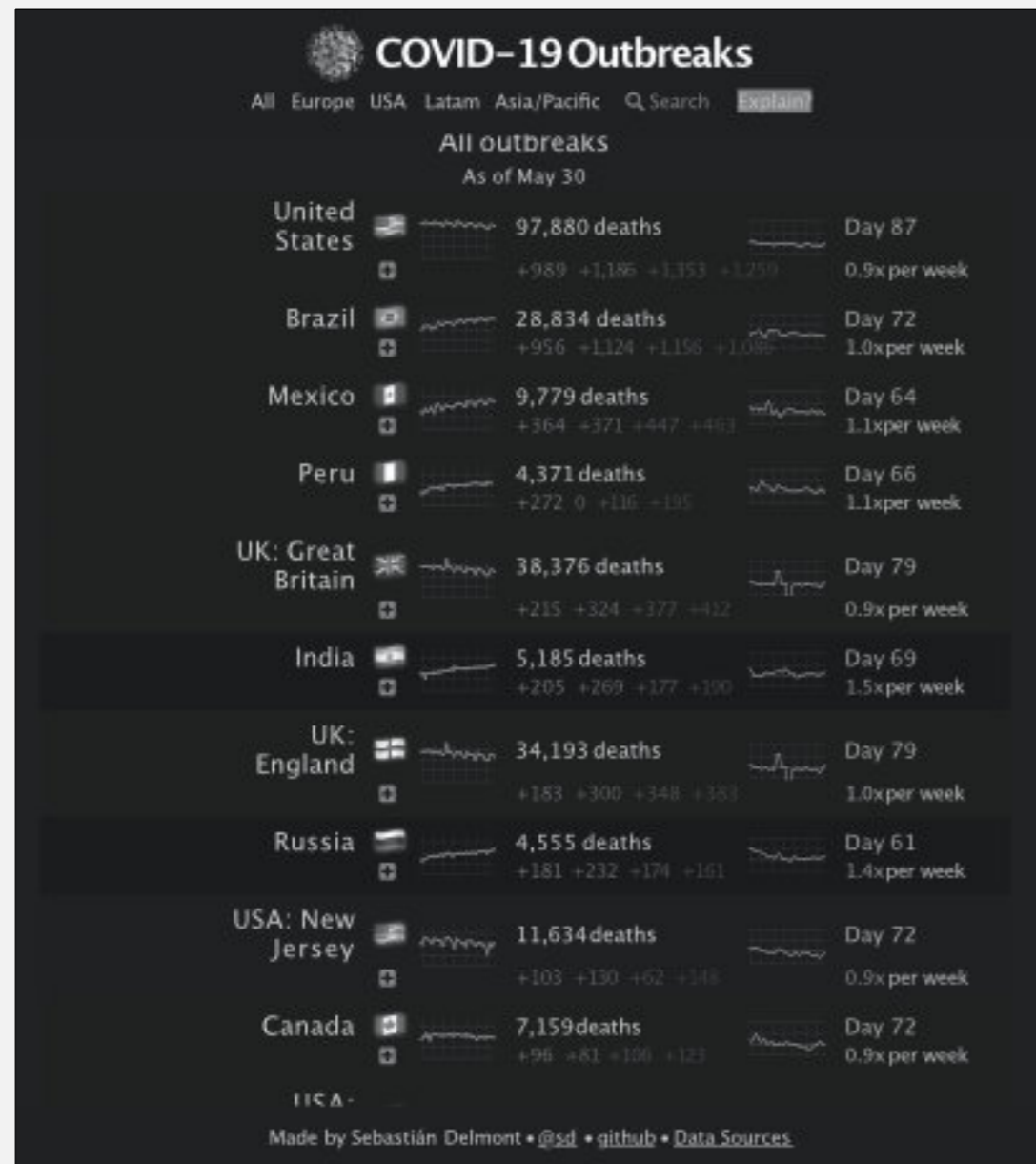
Sebastián Delmont

Outbreaks

Most of the information presented here is based on the Number of Deaths for each outbreak. We do not use Number of Cases for much because it's not a reliable metric over time or across outbreaks. A counter for how many days have passed since this outbreak started. Starting on the day when the outbreak passes 10 total deaths.. How much larger is the total number of deaths, compared to 7 days before, but using a logarithmic (base 10) scale.

<https://covid.sdelmont.com>

I2
Mar



IOO

OUTBREAKS VISUALISER

DATABASE

European Centre for Disease Prevention and Control

Infographics and leaflets about COVID-19

This leaflet provides basic information on novel coronavirus disease (COVID-19), how it spreads, symptoms, how to avoid catching or spreading the virus, what to do if you fall ill and information for travellers. It also includes phone numbers to national helplines. The leaflet template supports national activities targeting the public and travellers on COVID-19.

<https://www.ecdc.europa.eu/en/covid-19/facts/infographics>

I2
Mar



GRAPHICS DATABASE

IOI

INFOGRAPHIC

The New York Times

Why Soap Works

At the molecular level, soap breaks things apart. At the level of society, it helps hold everything together. Soap is made of pin-shaped molecules, each of which has a hydrophilic head — it readily bonds with water — and a hydrophobic tail, which shuns water and prefers to link up with oils and fats. These molecules, when suspended in water, alternately float about as solitary units, interact with other molecules in the solution and assemble themselves into little bubbles called micelles, with heads pointing outward and tails tucked inside.

<https://www.nytimes.com/2020/03/13/health/soap-coronavirus-handwashing-germs.html#click=https://t.co/aYrq2JWW3s>



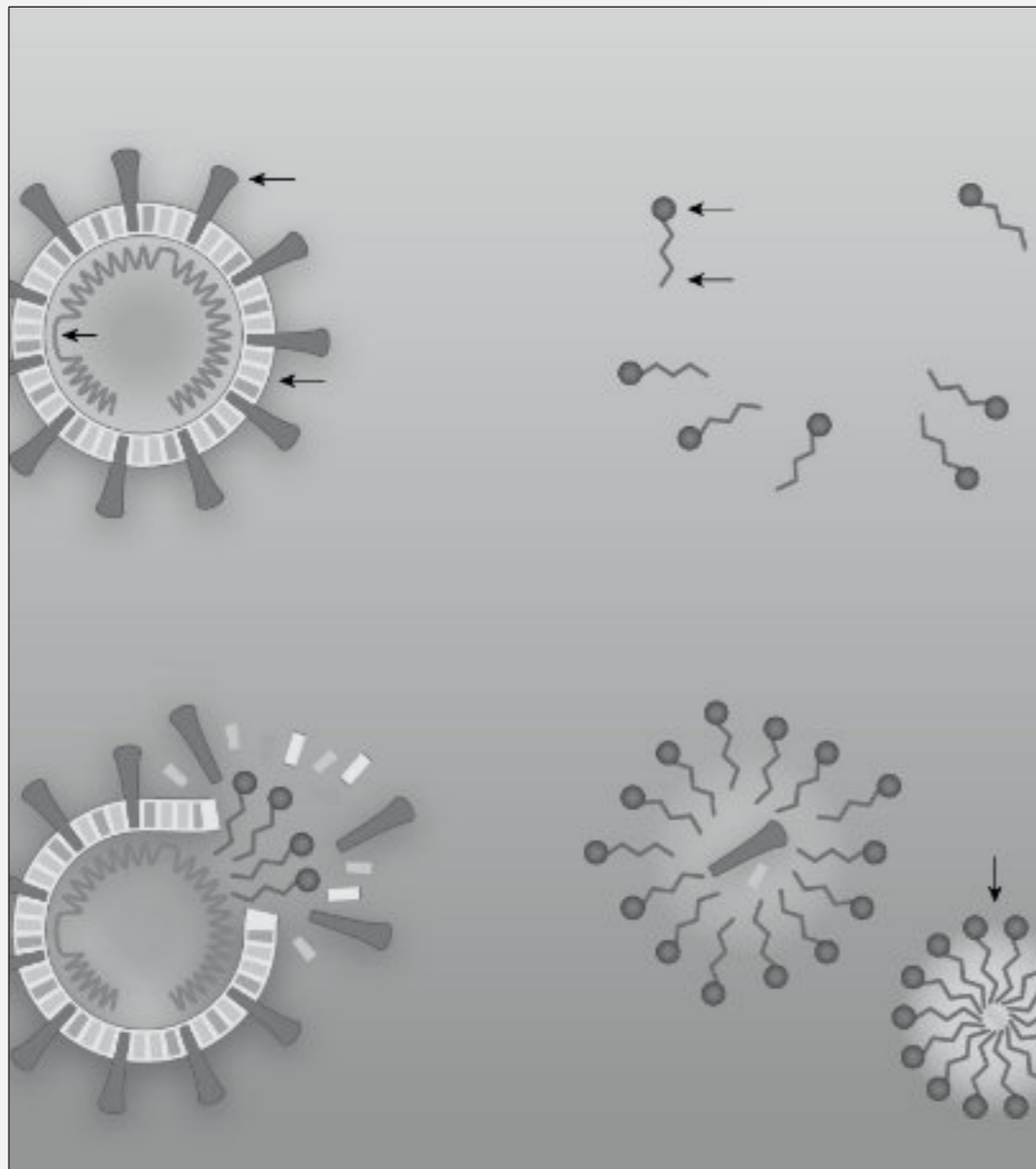
MASK

Heart Evangelista

People Are Making DIY Face Masks Inspired By Heart Evangelista

Ever since Heart Evangelista posted these snaps of herself stitching together a DIY Hermès face mask (to keep herself "fashionably safe," that is), it seems she's spawned a horde of eager copycats. Yep, people have been following her example and even tagging her on Instagram. Here, a quick roundup of all our favorite ones she reposted on her IG Stories. There's Balmain, Christian Louboutin, and even a sleek, all-black Saint Laurent take.

<https://www.preview.ph/culture/people-making-diy-face-masks-inspired-by-heart-evangelista-a00192-20200313>



PARTICIPATION

Various

ArtyArts on Instagram

ArtyArts on Instagram: "We are starting the #windowconnections campaign to keep people connected during these uncertain times. Create a message in your window for..."

https://www.instagram.com/p/B9rXPLxHe_a/?utm_source=ig_embed



CHARTS

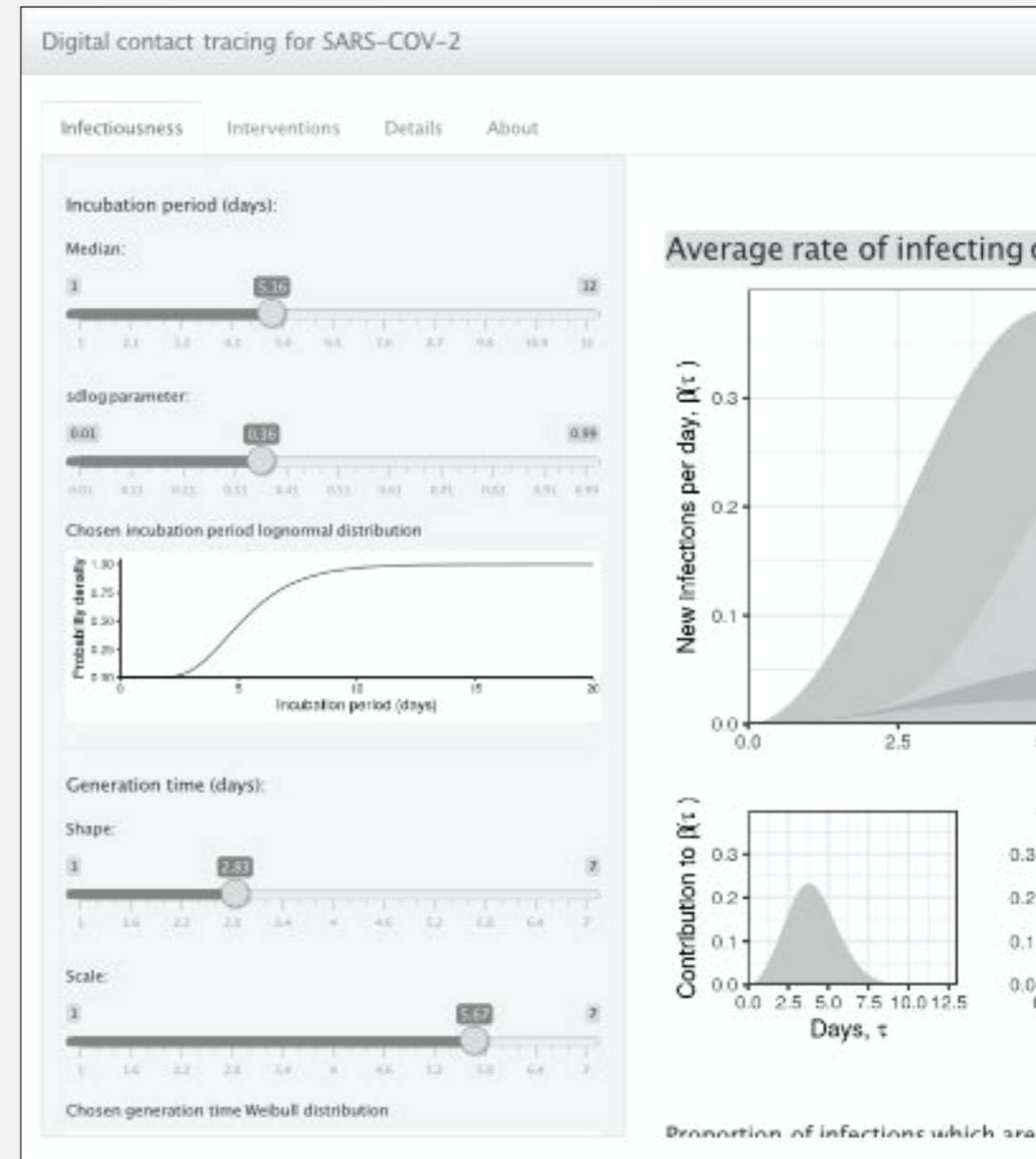
The University of Oxford

Average rate of infecting others as a function of the time since infection

This app provides a convenient way to test the sensitivity of our results to our assumptions. The "reset values" button in the top right allows you to return to the original values presented in our paper.

Here we provide further explanation of the results and a description of each of the input parameters.

<https://bdi-pathogens.shinyapps.io/covid-19-transmission-routes/>



EXCHANGE

Various

Volunteers initiative

Help with simple tasks from a verified volunteer.

<https://www.beonhand.co.uk/>



EXCHANGE

Various

Volunteers initiative

Donate to Community V COVID-19: Community V COVID-19 is a volunteer initiative connecting with and providing support to people in need. Funds are used to connect with people who need support or to provide stop gap services not met by our partners. Community V COVID-19 is a project of the Telos Foundation, a 501(c)(3) non-profit recognised by the IRS. Looking for a specific resource or community you care about for your donation? Check out other opportunities to donate here.

<https://www.communityvs.org/home#about>



The screenshot shows the onHand website interface. At the top, there are social media icons for Facebook and Instagram, the brand name 'onHand', and a 'HELP US HELP YOU' button. The main content area features a large image of a volunteer assisting an elderly person. Text on the left reads: 'Help made simple. We match vetted volunteers to older adults who need help. Currently offering shop-drops, medication pickups, errand running and befriending phone calls.' To the right, under 'To Learn More:', there are three buttons: 'I Need Help', 'I'm Referring Someone', and 'I'm a Volunteer'. Below these is the phone number 'Call us 0203 488 2912'. At the bottom, there is a section titled 'What the experts say.' with a quote from City AM 2018: 'Revolutionising care by connecting and mobilising a unique community of local volunteers'. Logos for CITY A.M., Evening Standard, VentureBeat, and Forbes are displayed, along with a 4.6 star rating from 5,000+ reviews.

The screenshot shows the Community V COVID-19 website. At the top, there is a navigation bar with 'COMMUNITY V COVID-19' and 'GIVE OR GET HELP JOIN US DONATE'. The main visual is a black and white image of two hands shaking. Text overlay reads: 'Join us, a community versus COVID-19.' Below this are two buttons: 'Give or Get Help' and 'Donate'. A central message states: 'Community V COVID-19 empowers everyone in need or looking to give with the ability to get help, give help, and effectively donate money.' A smaller text block below explains: 'Driven by every day people like you, we are mobilizing volunteers to aggregate resources, using targeted digital advertising to get the right resources to the right people, and building solutions for communities when one doesn't already exist.' At the bottom, a dark grey box contains the text: 'Get or give help in your community' and 'Support for those most impacted by COVID-19 is changing every day. We're here to help you find what you need or a way to plug in and help. Find information in your community about:'.

MASK

Glature

The nanobreeze works by using a built-in fan

Nanobreeze' uses a rechargeable lithium battery that powers a built-in electric fan to effectively remove PM2.5 particles from the air. this filters air through a replaceable high-performance nanofiber filter which lasts approximately one week in high-pollution areas and three weeks in mildly-polluted areas. users can control the amount of air circulated in the mask via two modes: normal and power. normal can be used day-to-day and power mode can be used during exercise so That wearers can enjoy clean air without feeling short of breath.

<https://www.designboom.com/design/diy-face-masks-protect-against-coronavirus-04-14-2020/>

13
Mar



108

NANOBREEZE

MASK

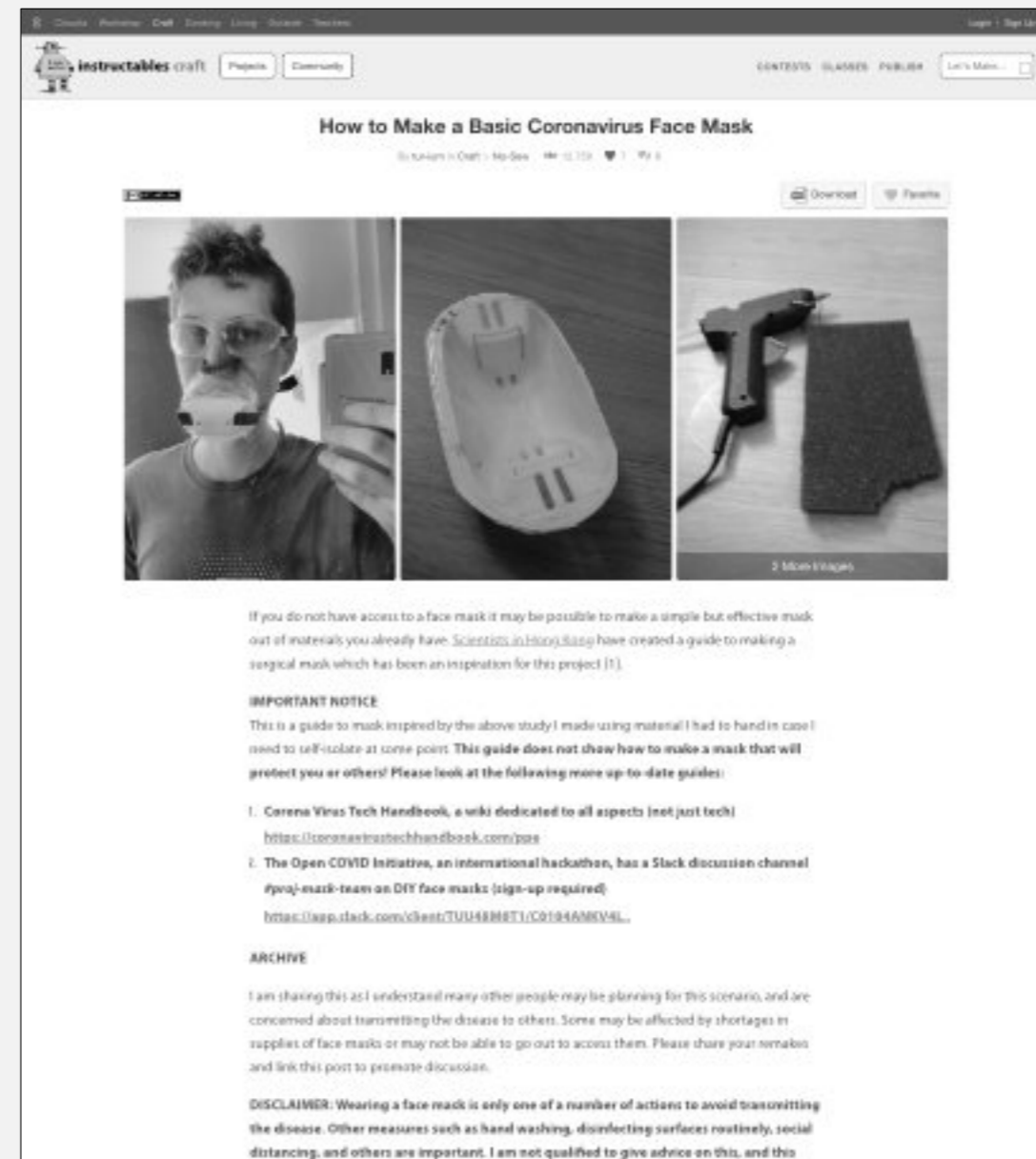
tur-ium

How to Make a Basic Coronavirus Face Mask

This is a guide to mask inspired by the above study I made using material I had to hand in case I need to self-isolate at some point. I am sharing this as I understand many other people may be planning for this scenario, and are concerned about transmitting the disease to others. Some may be affected by shortages in supplies of face masks or may not be able to go out to access them. Please share your remakes and link this post to promote discussion.

<https://www.instructables.com/id/How-to-Make-a-Basic-Coronavirus-Face-Mask/>

14
Mar



BASIC DIY MASK

109

POSTER

Looma for The Government of Ukraine

Creative agency Looma, have launched a creative campaign to raise awareness among the population.

The Ukrainian Ministry of Culture, together with the creative agency Looma, have launched a creative campaign to raise awareness of the importance of protection during quarantine.

A reinvention of classic pieces of art that, under a new look and mission, teach how to stop the spread of disease and do it in bulk.

<https://www.instagram.com/p/B-880FjKfug/?igshid=1gef67nehkco>



POSTER

Peter Blake

London stands together

Legendary pop artist and RCA alumnus @peterblakeartist has created a poster to bolster unity in London during #COVID19, inspired by children's rainbow paintings which have appeared in windows across the UK. Sir Peter Blake is perhaps best know for co-creating the cover art for the Beatles' album 'Sgt. Pepper's Lonely Hearts Club Band'. The poster is downloadable to print from the Evening Standard's website.

https://www.instagram.com/p/B-9RB_Ojojn/?igshid=w75lofp6vary



ILLUSTRATION

Oliver Jeffers

Now more than ever think we not me

This virus doesn't care about your passport or your bank balance. It can affect any of us. But hopefully not all of us if we act in unison to defeat it. Be safe. Be sensible. Be sensitive. One in, all in. Wash your hands. Keep your distance, but keep your hysteria in check too. Be kind to each other. Support local businesses. Keep in mind those less well off than you. Listen only to reputable sources (like @who). We can do this.

https://www.instagram.com/p/B9uKf50B1I9/?utm_source=ig_embed

I4
Mar

MASK

Professor Daniel Garin

Manufacture a protection mask for the Pr Garin, ARTELIA-MT2

Professor Daniel Garin, from ARTELIA-MT2i, explains how to make a respiratory protection mask in the context of the Covid-19 pandemic. Professor Garin is an occupational physician at ARTELIA-MT2i, Associate Professor at Val de Grâce, former head of the virology department of the Research Center of the Army Health Service and expert in biological and infectious risk.

<https://www.youtube.com/watch?v=7Lg0jnJ3hEo>

I5
Mar



II2

'WE' NOT 'ME'



ARTELIA-MT2i

II3

CHARTS

The Government of South Africa

COVID 19 ZA South Africa Dashboard

There is no best way to show everything on COVID-19 numbers.. Human Coronaviruses are common throughout the world. There are many different coronaviruses identified in animals but only a small number of these can cause disease in humans. This dashboard contains all the necessary information.

<https://datastudio.google.com/u/0/reporting/1b60bdc7-bec7-44c9-ba29-be0e043d8534/page/hrUIB>

15
Mar

PARTICIPATION

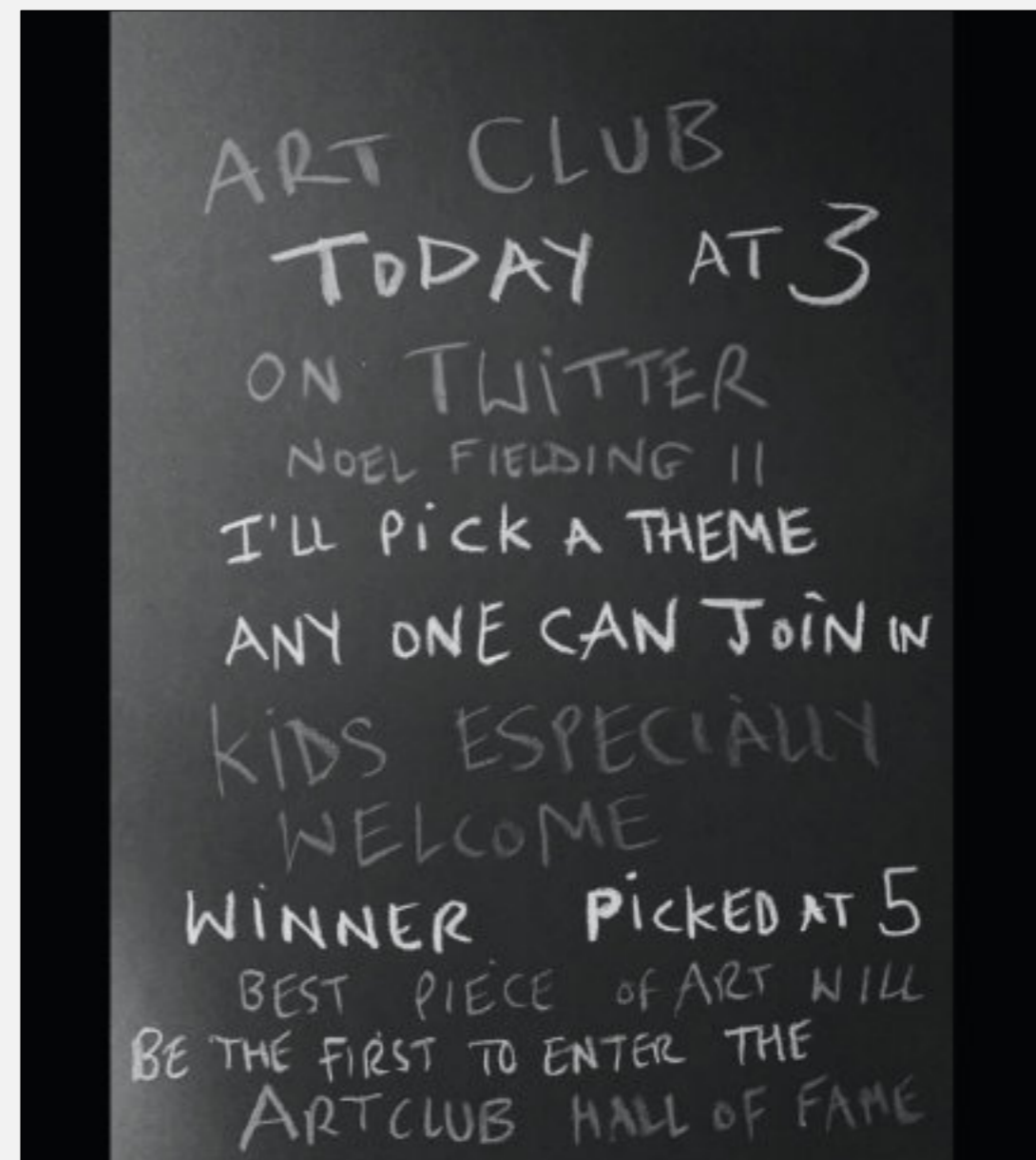
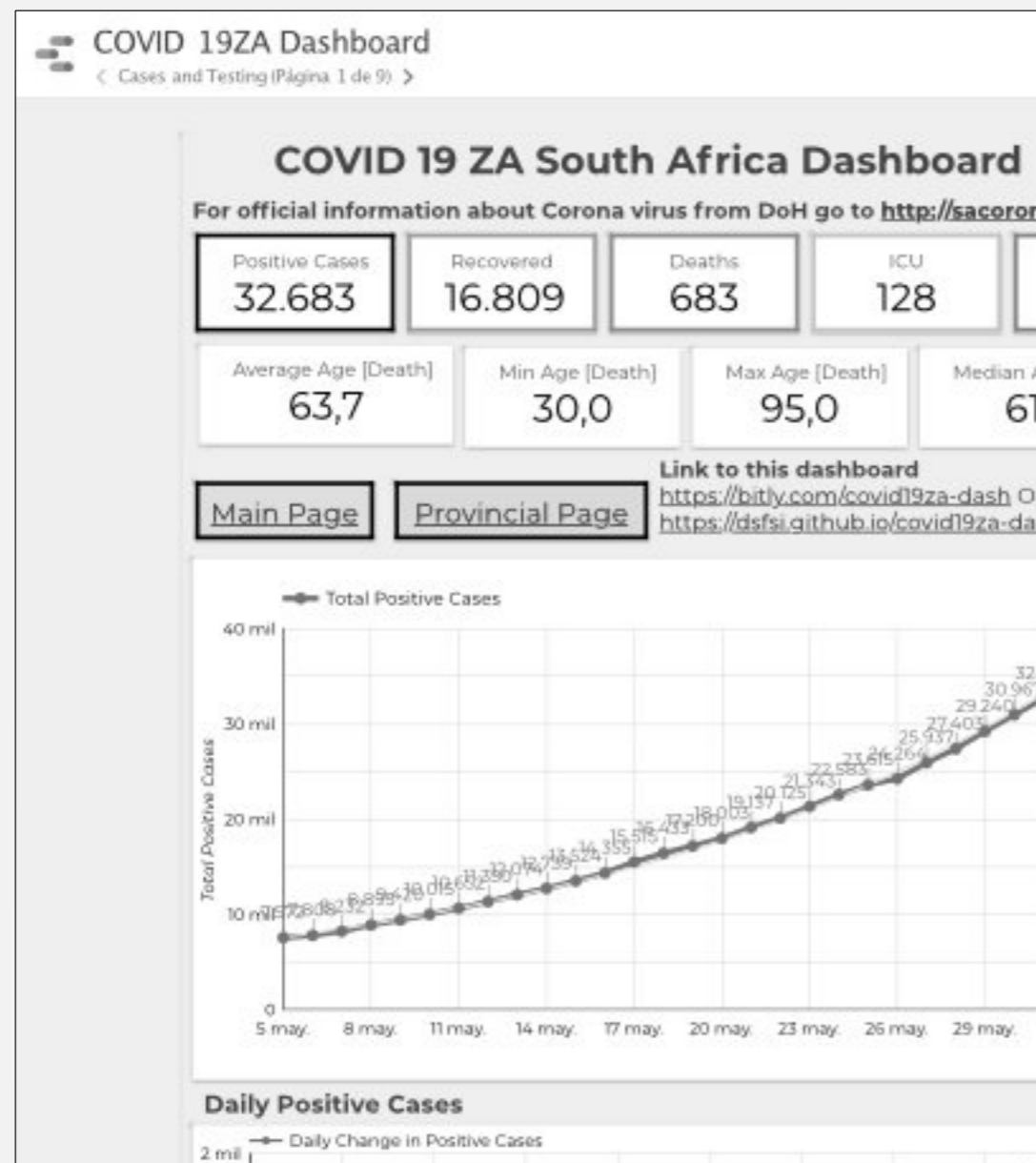
Noel Fielding

Art club for children

Every day Noel Fielding picks a theme and anybody can join in. Specially kids.

<https://twitter.com/noelfielding11/status/1239134238986907650>

15
Mar



PROJECTS

Various

Coronavirus Data API

We currently have 5 options for our free to use Coronavirus Tracker API global stats, all country stats, country stats, full timeline, country timeline You can use AJAX to call the Free thevirustracker.com API and will receive data in return. If you are using jQuery, you can use the \$.ajax() function in the code and either code snippet below to get started.

<https://thevirustracker.com/api>

15
Mar

PROJECTS

Various

Notion – The all-in-one workspace for your notes, tasks, wikis, and databases.

A new tool that blends your everyday work apps into one. It's the all-in-one workspace for you and your team. The goal of COVIDbase is to link people who have skills to relevant projects and to inspire new ideas. We created COVIDbase after seeing a lot of various efforts happening in different places and wanted to see all the projects in one spot. While many projects are not open to join, such as Pharma or government efforts, we believe they're important to stay abreast of and inspired by.

<https://covidbase.com/7d1a6f8ef0b9434b87e68cbe05d8a9d6?v=1d23e01e433147edb0ee7b49474734eb>

15
Mar

The screenshot shows the Coronavirus Tracker website with a dark theme. At the top, there's a message: "Our site needs your support to continue it's operation and API...". Below that, the main heading is "Coronavirus Data API". There are three sections of API documentation:

- Global Statistics API:** "You can use AJAX to call the thevirustracker.com API and will receive all of the current globally accumulated stats from Coronavirus Tracker." It includes a code snippet for an AJAX call and a "Global Statistics API Results (snippet)" showing a JSON object.
- All Country Statistics API:** "You can use AJAX to call the thevirustracker.com API and will receive all of the current accumulated stats from Coronavirus Tracker for all of our tracked Country's." It includes a code snippet and "All Country Statistics API Results (snippet)".
- Country Statistics API:** "You can use AJAX to call the thevirustracker.com API and will receive all of the current accumulated stats from Coronavirus Tracker for a specified Country. The full country code list is here." It includes a code snippet and "Country Statistics API Results (snippet)".

The screenshot shows the COVIDbase website. At the top, there's a "COVIDbase" logo and a "Hide description" button. Below that, the main heading is "COVIDbase". The text describes the project: "COVIDbase is a curated list of projects and resources related to COVID-19. The goal of COVIDbase is to link people who have skills to relevant projects and to inspire new ideas. COVIDbase after seeing a lot of various efforts happening in different places and wanted to see all the projects in one spot. While many projects are not open to join, such as pharma or government efforts, we believe they're important to stay abreast of and inspired by. We hope that this helps you get involved. COVID-19 is a historic event. We want to be on the right side taking positive action. NEXT STEPS: Got a project brewing? Tweet to @thecovidbase and follow to get live updates and stay fit here. Email eri@impossiblelabs.io if you have any feedback about the site. If you're working on a project or want to volunteer, I encourage you to join the COVID Accelerator, which is incubating and launching rapidly. Together, we can move faster than this virus!"

At the bottom, there are several resource cards:

- Free services: 6
- Funding: 14
- Get involved
- Free Tech Support During COVID-19
- IsDB Transform Fund: \$500 Million for COVID-19 Digital Response
- TOP PICK: Help projects meet

116

CORONAVIRUS TRACKER

COVIDBASE

117

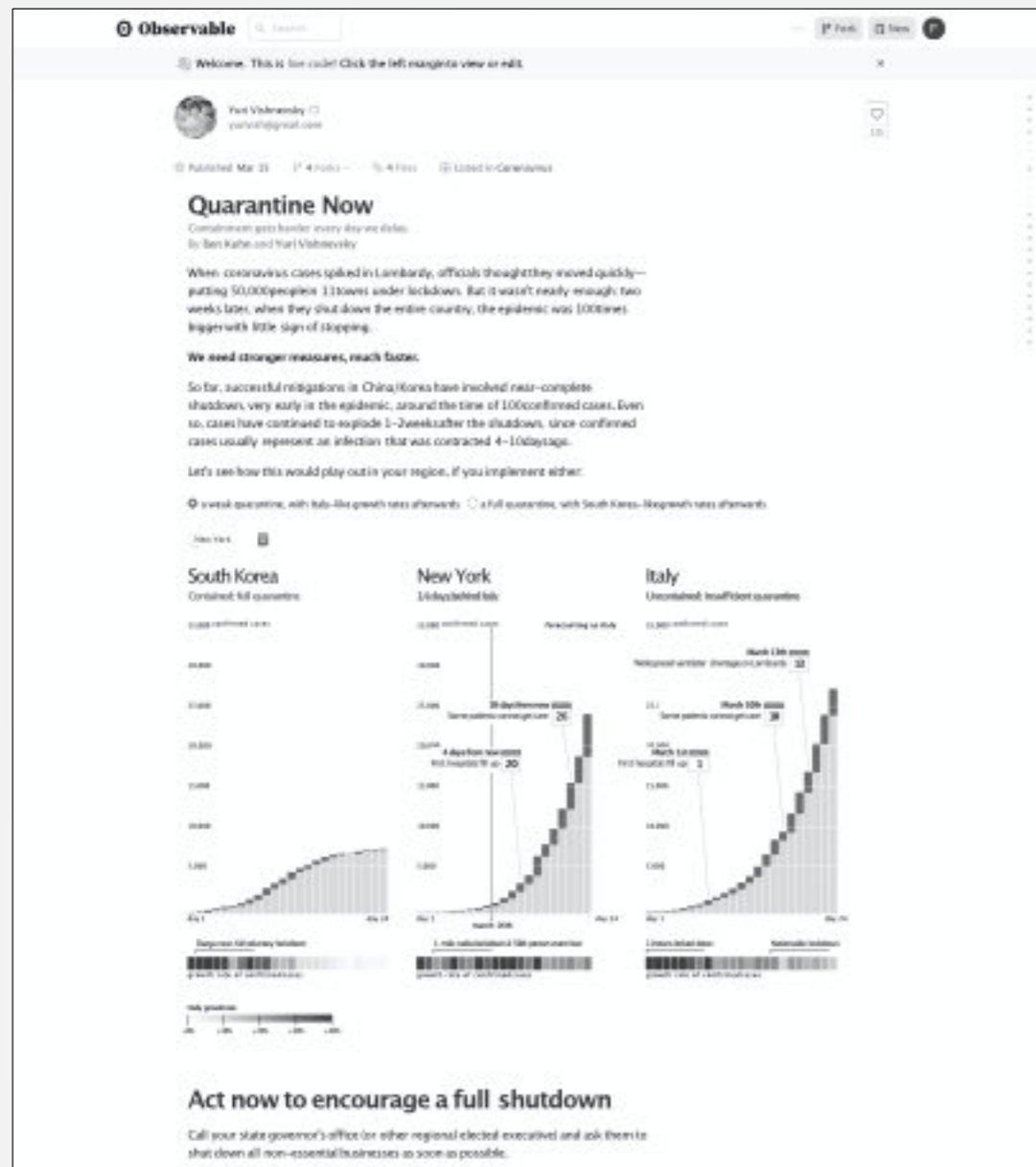
CHARTS

Ben Kuhn and Yuri Vishnevsky

Containment gets harder every day we delay.

The Forecasts here presented assume that the region sees the same growth rates as either Italy or South Korea starting 2/25. If needed, forecasts are extended by assuming that the 3-day geometric average growth rate of Italy/South Korea continues into the future

<https://observablehq.com/@yurivish/quarantine-now>

15
Mar

118

QUARANTINE NOW

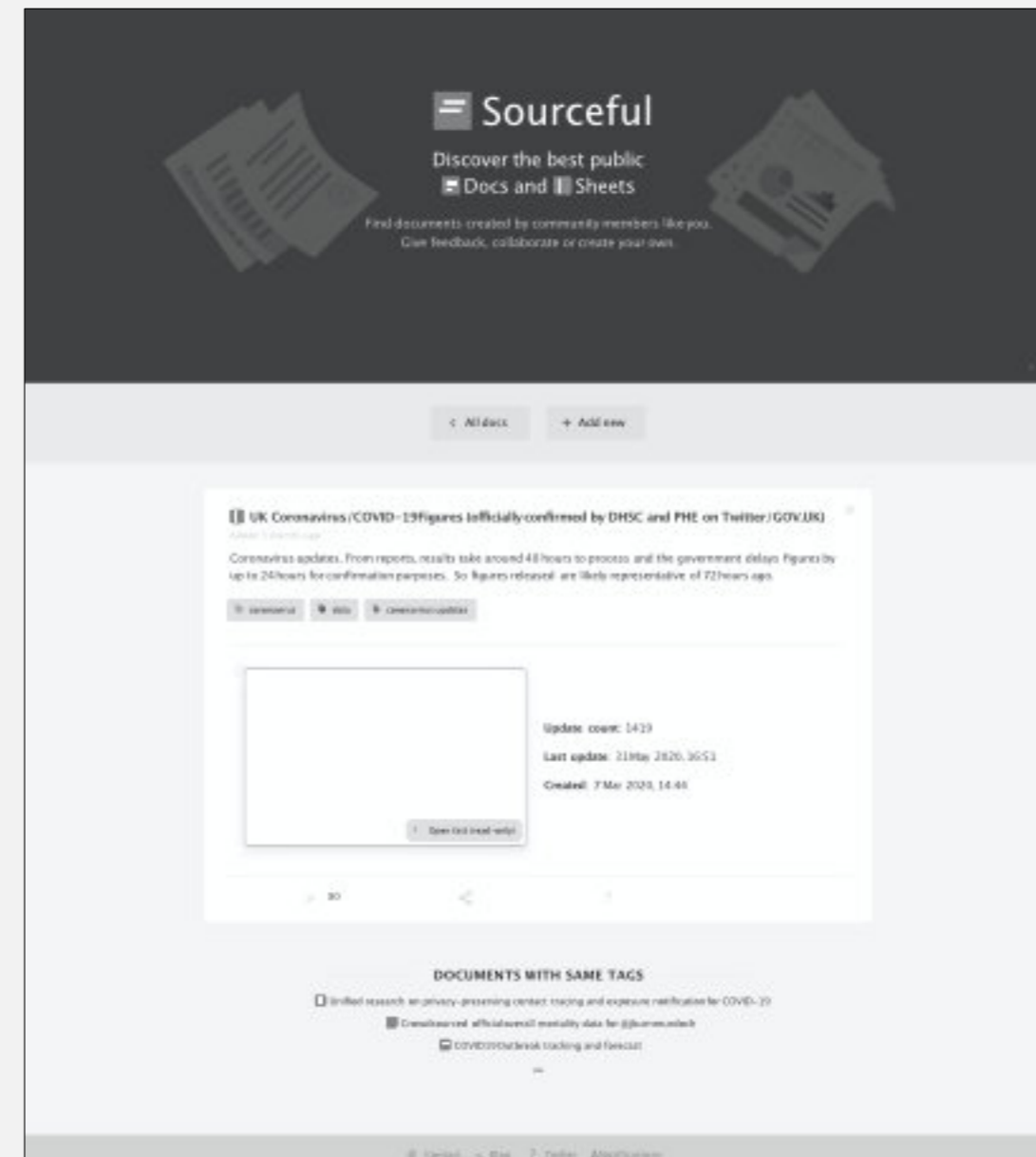
DATABASE

Sourceful

Learn something new from the best public Docs and Sheets

Coronavirus updates. From reports, results take around 48 hours to process and the government delays figures by up to 24 hours for confirmation purposes. So figures released are likely representative of 72 hours ago

<https://sourceful.co.uk/doc/1/uk-coronaviruscovid-19-figures-officially-confirmed-by-dhsc-and-phe-on-twittergovuk>

15
Mar

SOURCEFUL

119

MASK

Daniera ter Haar, Christoph Brach, Tijs Van Nieuwenhuysen, Mirjam de Bruijn, et al.

Elbow Sock

Sneezing and coughing into your elbows and not into your hands is one piece of the advise to avoid getting and spreading the Coronavirus. As a reaction to this, Raw Color designed the Elbow Sock, a handkerchief for your elbows. It adds another layer to spare your clothes. An easy hack that everyone could apply. You simply look for that well-known single sock that lost it's other half. Cut the toes off and slide it over your arm and you're good to go. After use you simply take it off and wash it at 60 degrees.

<http://www.rawcolor.nl/project/?id=550>



I20

ELBOW SOCK

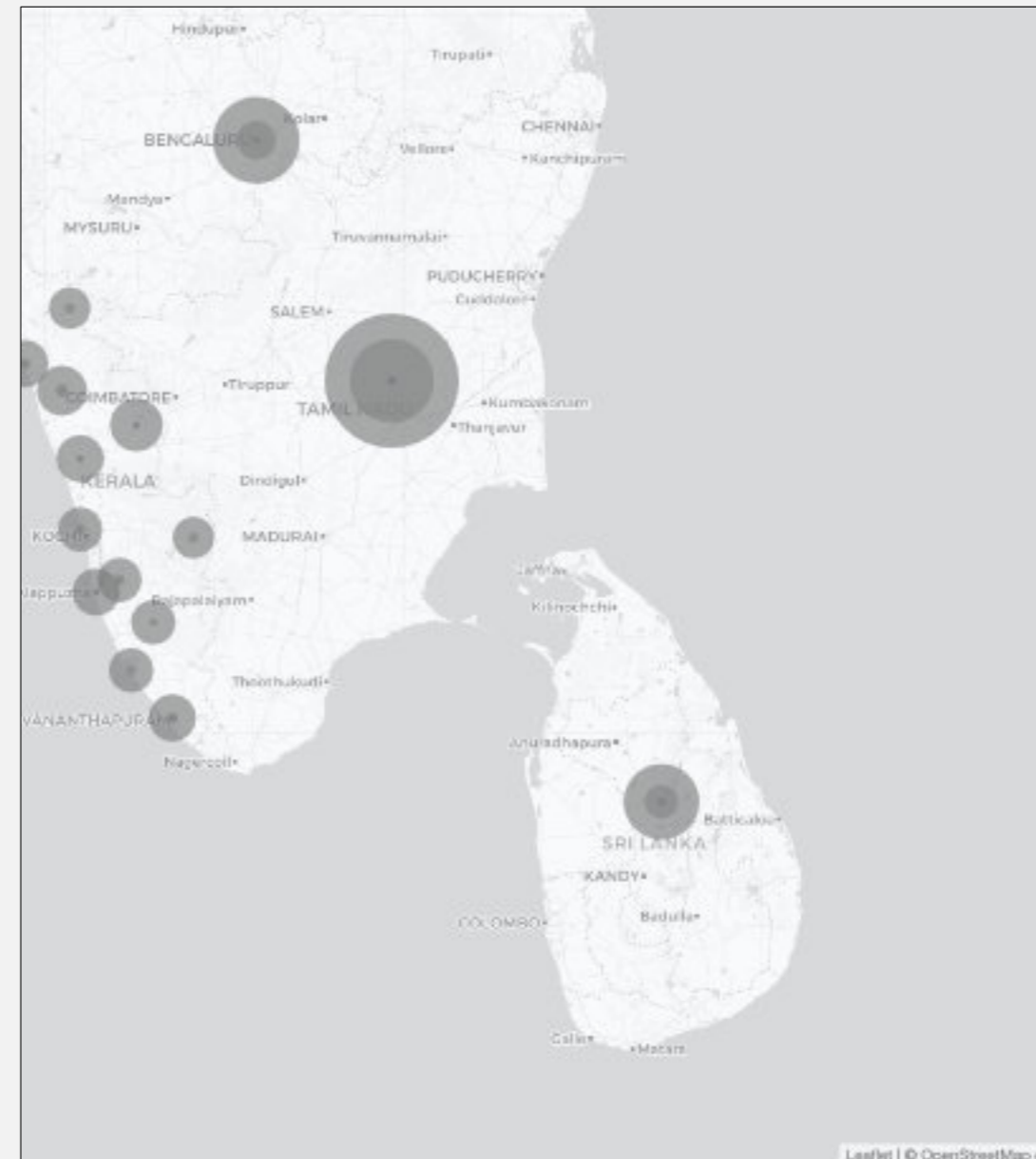
MAP

The Government of India

Coronavirus literacy mission

An ineffective protection can be more dangerous than having nothing because it tends to reduce the level of prudence: make a responsible use of it. Use suitable materials and glues to reduce the risk of breakage and therefore exposure during use.

<https://map.coronasafe.in/>



INDIA DASHBOARD

I21

I5
MarI5
Mar

POSTER

Christoph Niemann

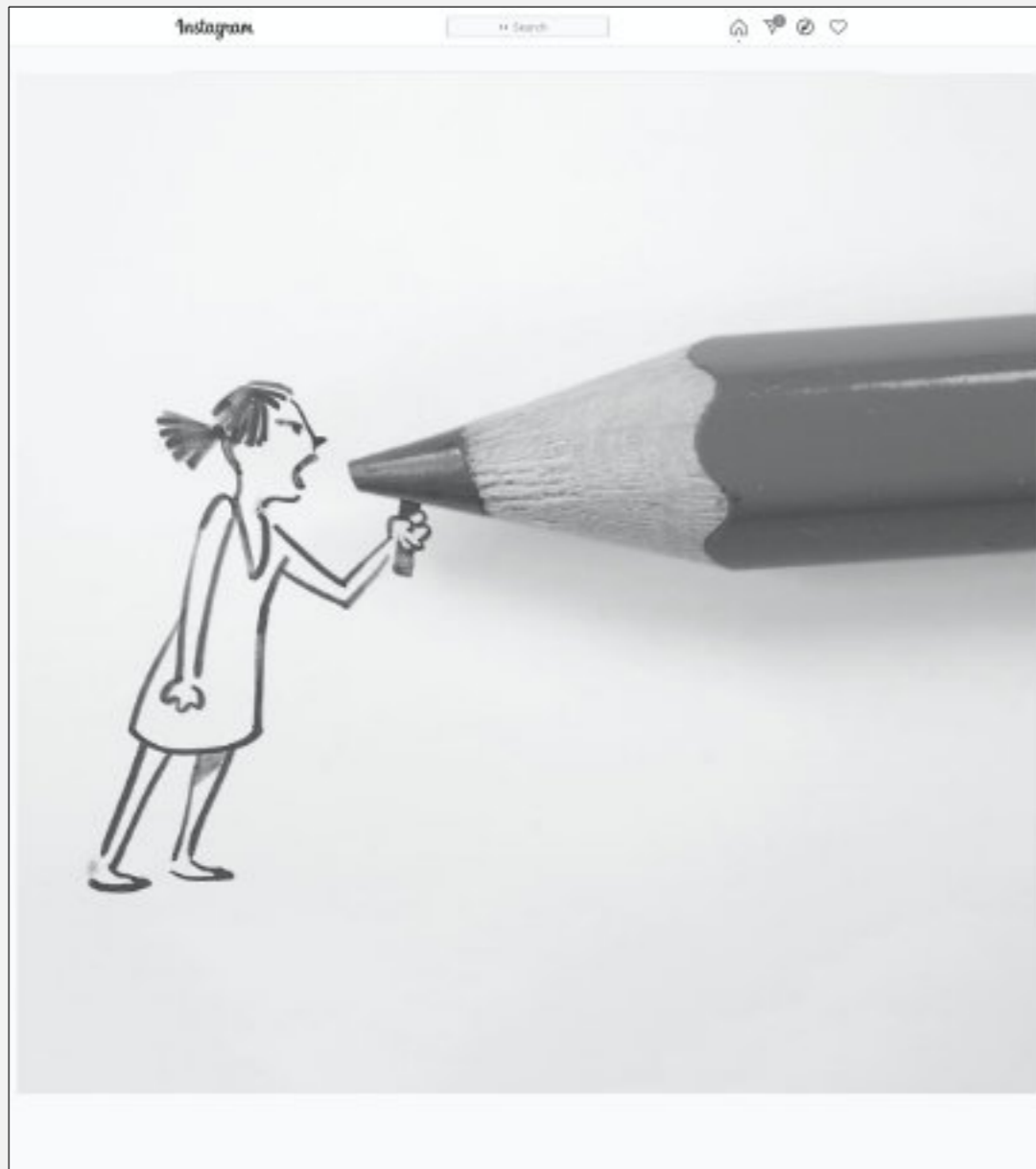
Friends! Please wash your hands. Please stay at home.

The best advice I read about #Corona today was about changing our mindset: instead of trying not to get infected, we should assume we ARE infected and do everything so we don't transmit it to somebody else.

Stay safe and when you need to be out, try to have a kind word for all the people who are working under a huge amount of pressure (nurses, bus drivers, police officers, supermarket cashiers).

https://www.instagram.com/p/B9wN0msK3ub/?utm_source=ig_embed

I15
Mar



I22

STAY SAFE

PARTICIPATION

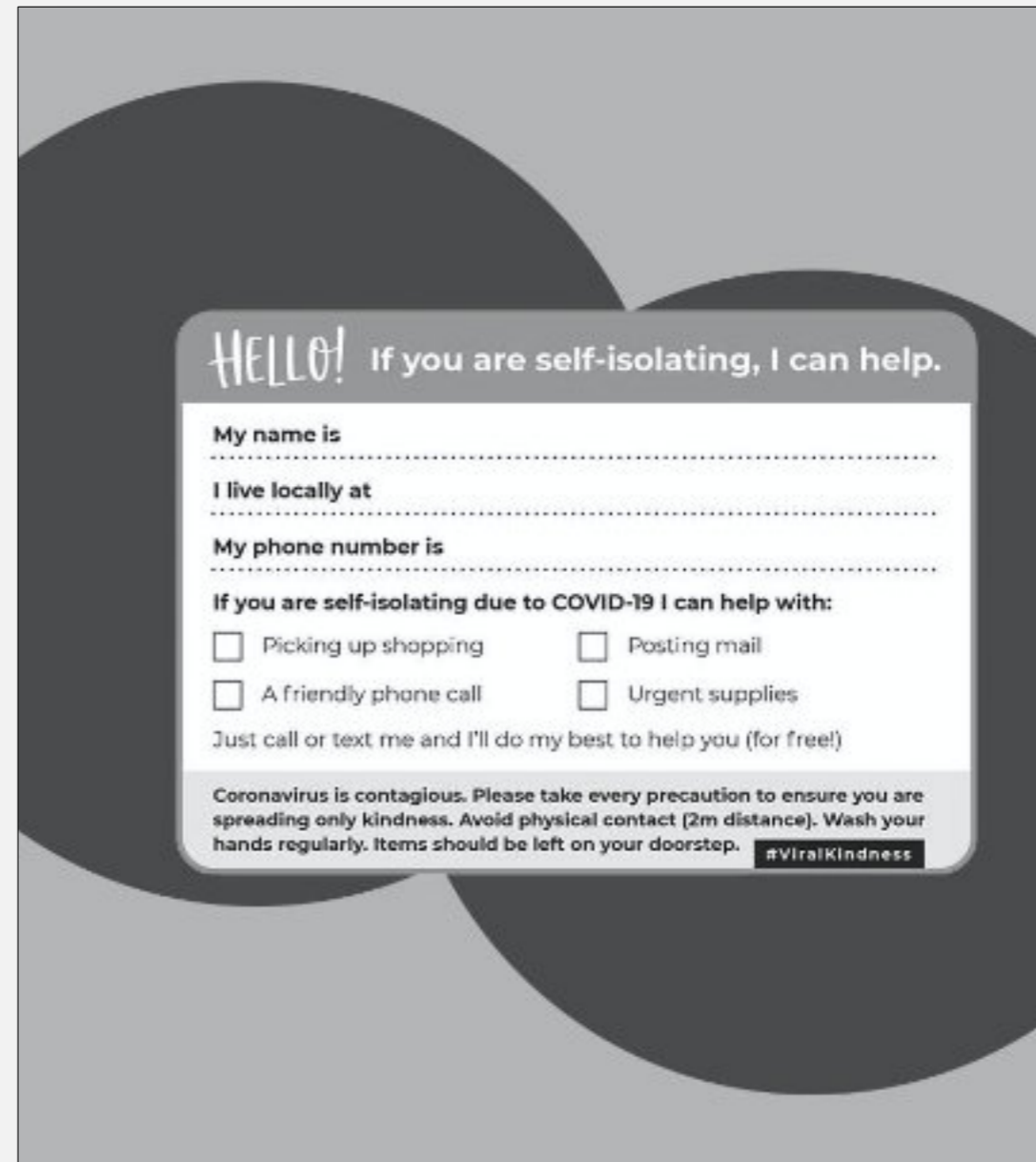
Becky Wass

The 'kindness postcard'

Becky Wass created a postcard stating "Hello! If you are self-isolating, I can help," with space for people to fill out their contact details and whether they would like help with shopping, posting mail or simply a phone call.

<https://www.cnn.com/2020/03/16/coronavirus-compassion-the-kindness-postcard-and-other-heartwarming-gestures.html>

I16
Mar



POSTCARDS

I23

WEARABLE

Emergent Systems

Open Source DIY Face Touch Alert Device – Prevent the Spread of the COVID-19

Open Source DIY Face Touch Alert tot limit the rapid spread of Coronavirus COVID-19, the CDC and health professionals recommend that we frequently wash hands, and not touch our faces. The sensor uses a Reed switch, a buzzer or beeper, a watch battery, and a battery holder. If building the vibrating/buzzing version, it is better to locate the sensor on wrist, so you can sense the vibration.

<http://www.notouchassist.com>

I6
Mar

APP

Lifen

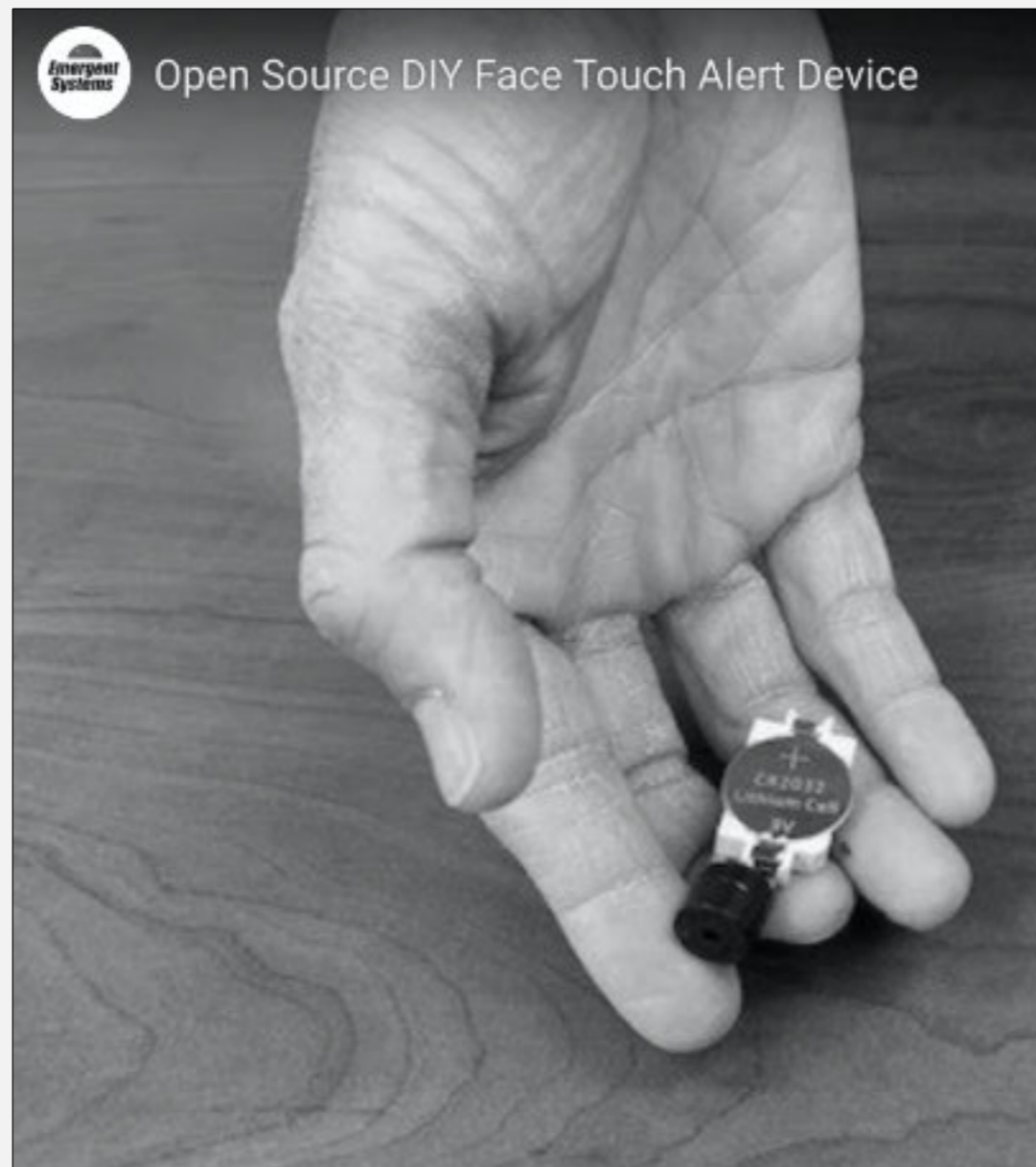
COVID-19 patient followup management app

It is in this context that Professor Philippe Ravaud - University of Paris, Inserm UMR 1153, Clinical Epidemiology Centre - called Lifen's teams to initiate a hackathon.

In 3 days, Professor Philippe Ravaud's research team worked together with Lifen developers to co-construct a platform for remote monitoring of patients suffering from COVID-19.

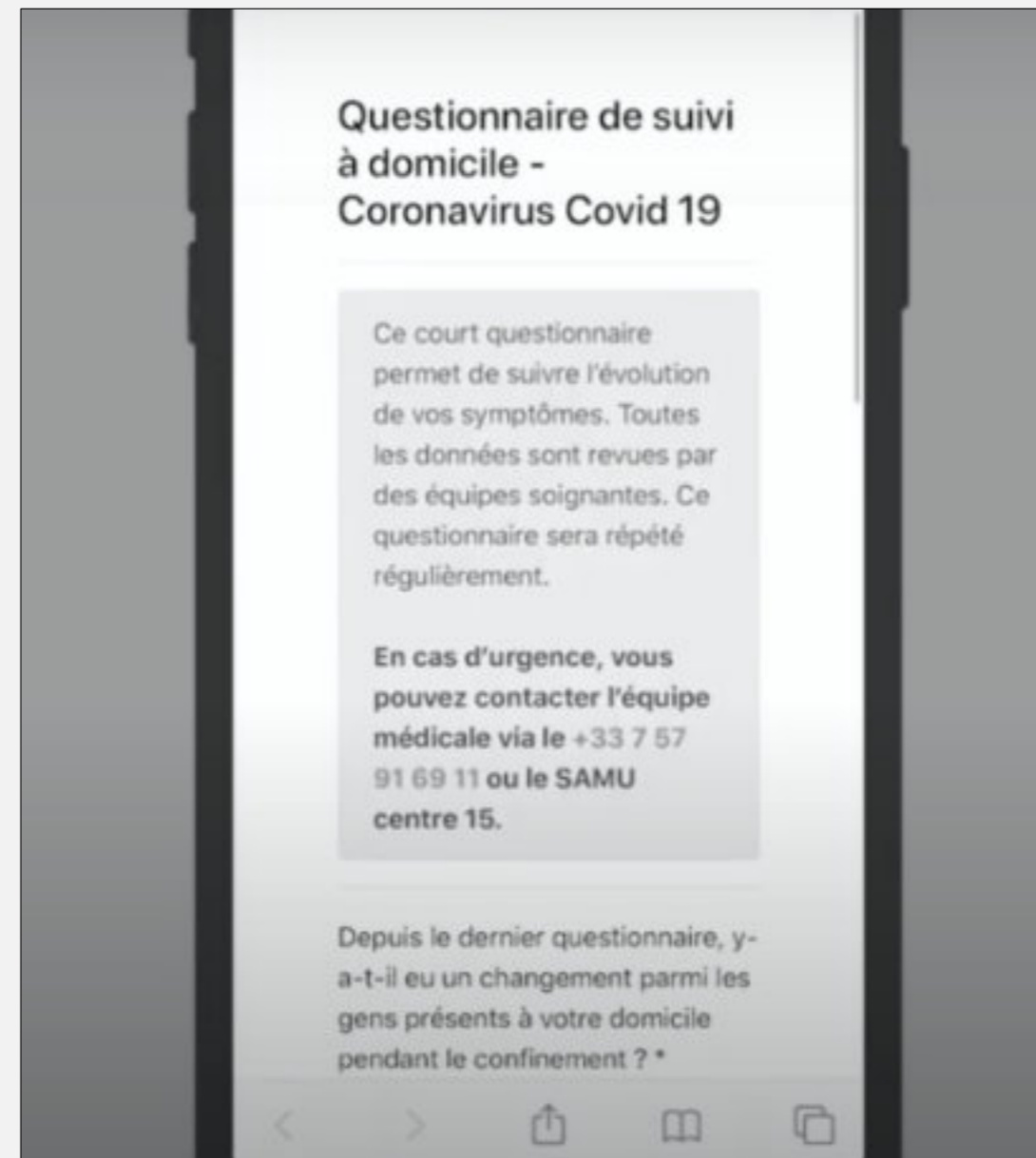
<https://blog.lifen.fr/posts/fightcovid19-a-platform-for-treating-patients-diagnosed-with-covid-19>

I6
Mar



I24

DIY FACE TOUCH ALERT



FOLLOW-UP TRACKER

I25

CHARTS

Alison Hill

Modelling COVID-19 Spread vs Healthcare Capacity

This simulation is for research and educational purposes only and is not intended to be a tool for decision-making. There are many uncertainties and debates about the details of COVID-19 infection and transmission and there are many limitations to this simple model. This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) License.

<https://alhill.shinyapps.io/COVID19seir/>

I6
Mar

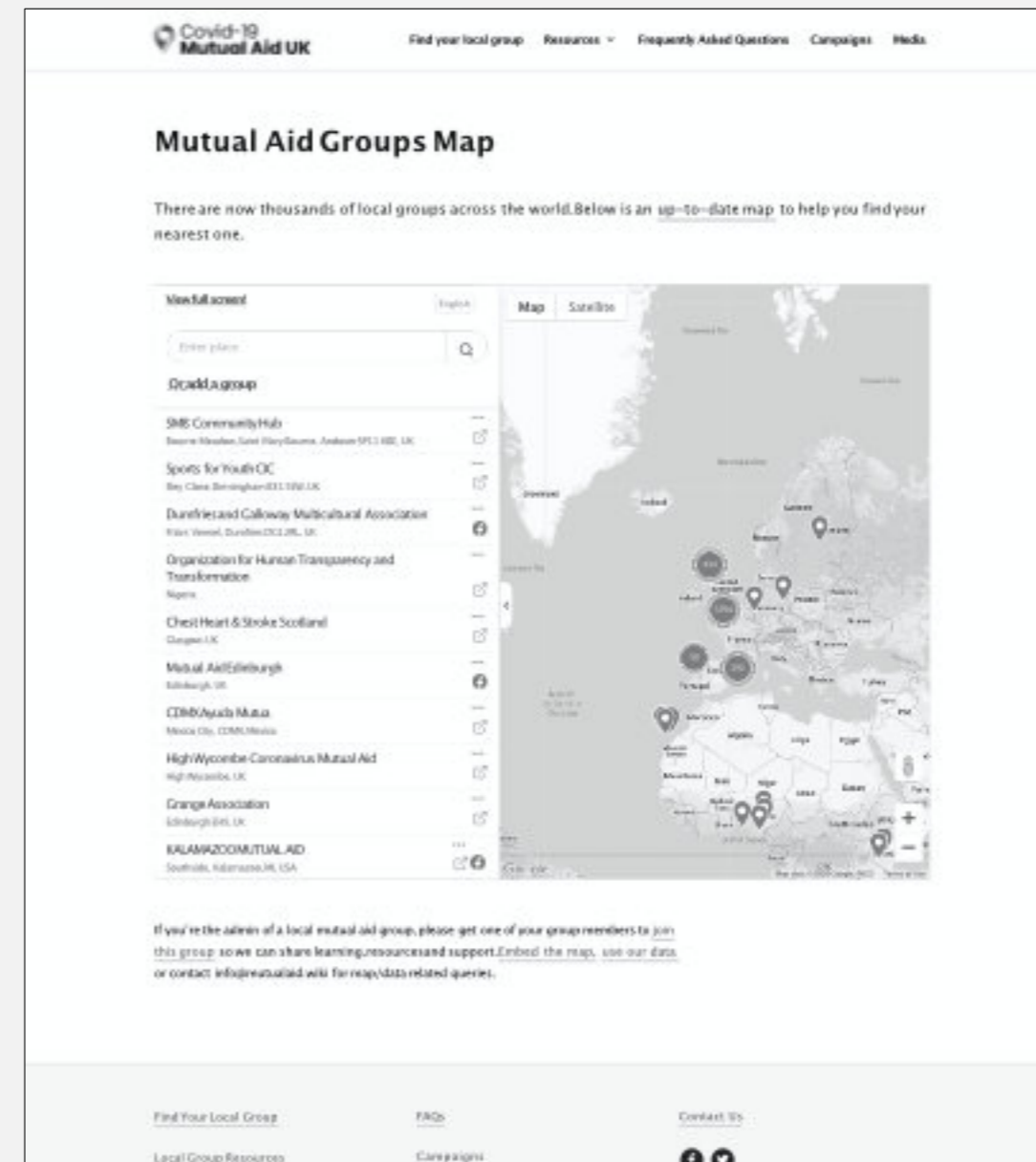
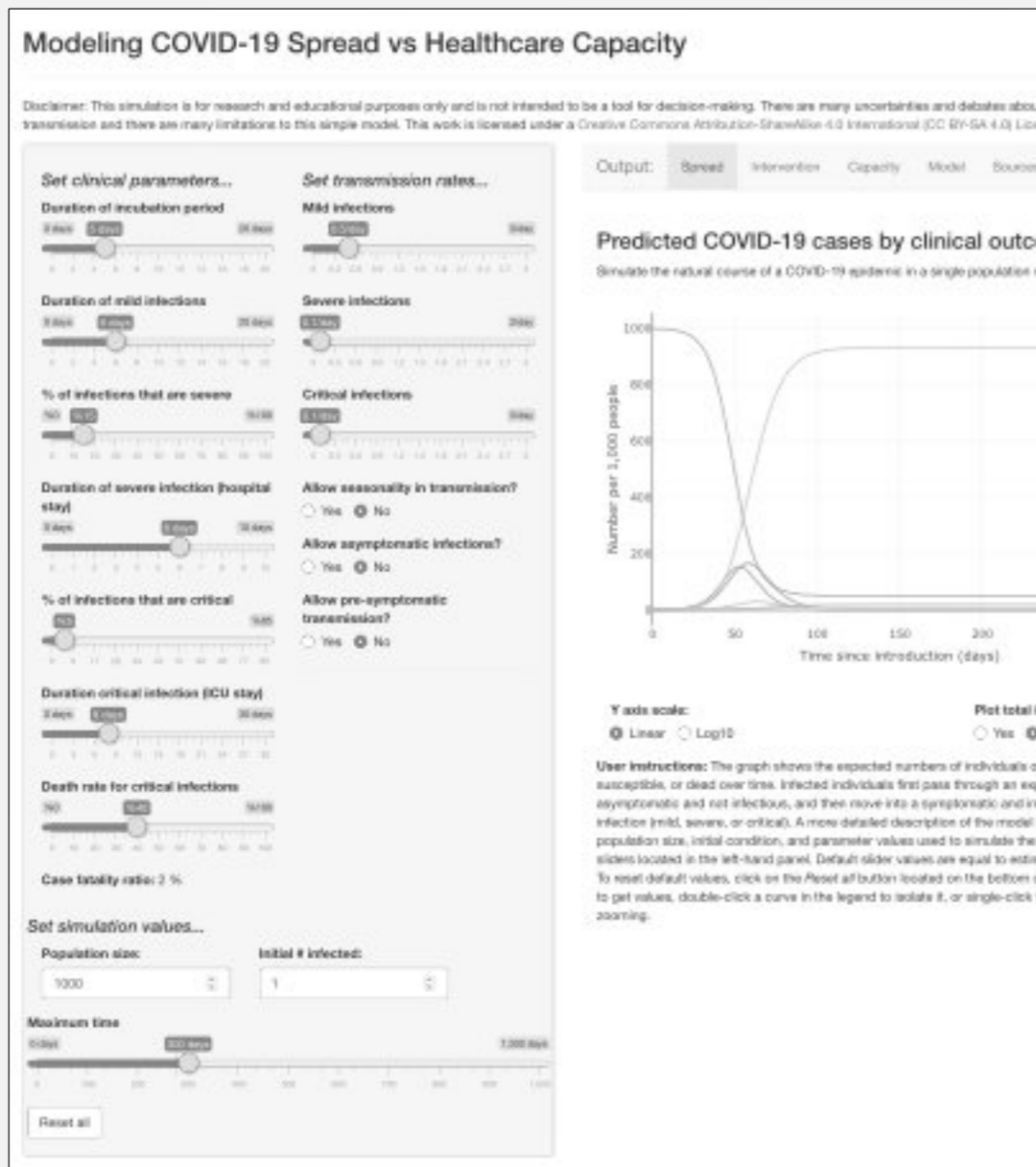
PLATFORM

Various

Find your local group – Covid-19 Mutual Aid UK

There are now thousands of local groups across the country. Below is an up-to-date list to help you find your nearest one. If you're the admin of a local mutual aid group, please get one of your group members to join this group so we can share learning, resources and support. Embed the map, use our data.

<https://covidmutualaid.org/local-groups/>

I6
Mar

I26

MODELLING CAPACITY

MUTUAL AID GROUPS

I27

TEST

OpenCell

CONTAIN is a mobile COVID-19 testing laboratory housed in a shipping container, capable of delivering 2,400 tests in 24 hours using lab automation.

A 40ft high-cube shipping container is converted for BSL2+ laboratory specifications, while preserving its structural integrity and transportation accreditation. The design allows CONTAIN units to be shipped to any location rapidly, and requires only flat, solid ground and utilities (electricity, water) to be operation-ready.

<https://www.opencell.bio/coronavirus>

**I6
Mar**



I28

MOBILE TESTING LAB

OPEN CALL

Thomas Landrain, David Kong, Zach Mueller

Just One Giant Lab

JOGL helps sync humanity onto solving our most important social & environmental problems using open science, responsible innovation & continuous learning.

<https://app.jogl.io/project/118%23about>

**I6
Mar**



DETECTION KIT

I29

PARTICIPATION

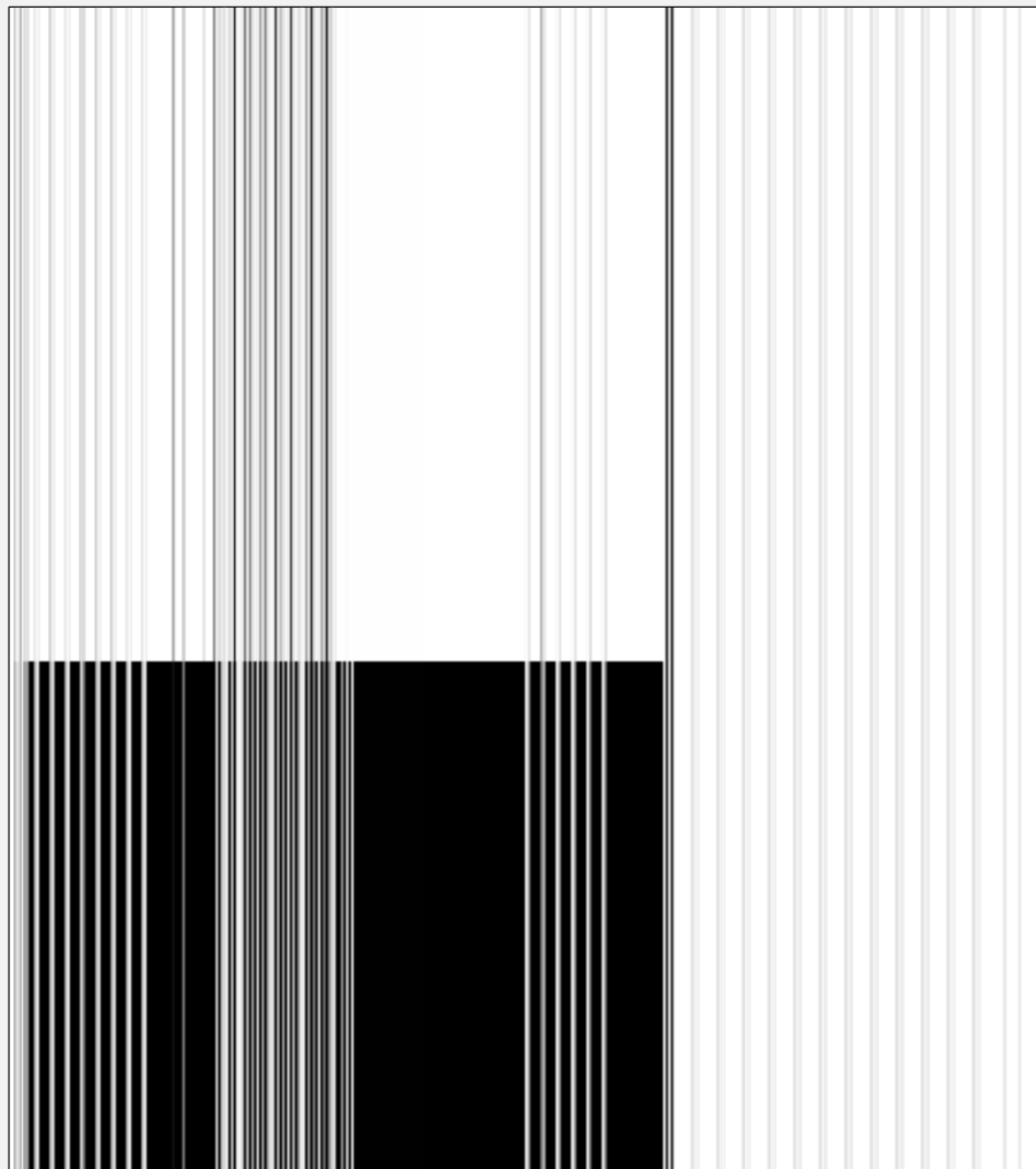
Jaime Hayon

'CORONA COMMUNITY' highlights from Jaime Hayon (@jaimehayon)

The Spanish designer and artist has been sharing his whimsical drawings on social media, and inviting his followers to print and get creative with colouring these in. Reaching those at home, Hayon's drawing leaves space for individuals to fill in their country flag and name, creating a unique artwork in collaboration with the Valencia-based creative himself. Hayon has been sharing these over on his handle @jaimehayon – the results are vibrant, motivating and intricate.

<https://www.wallpaper.com/design/design-projects-showing-resilience>

16
Mar



I30

HAYON ART

PARTICIPATION

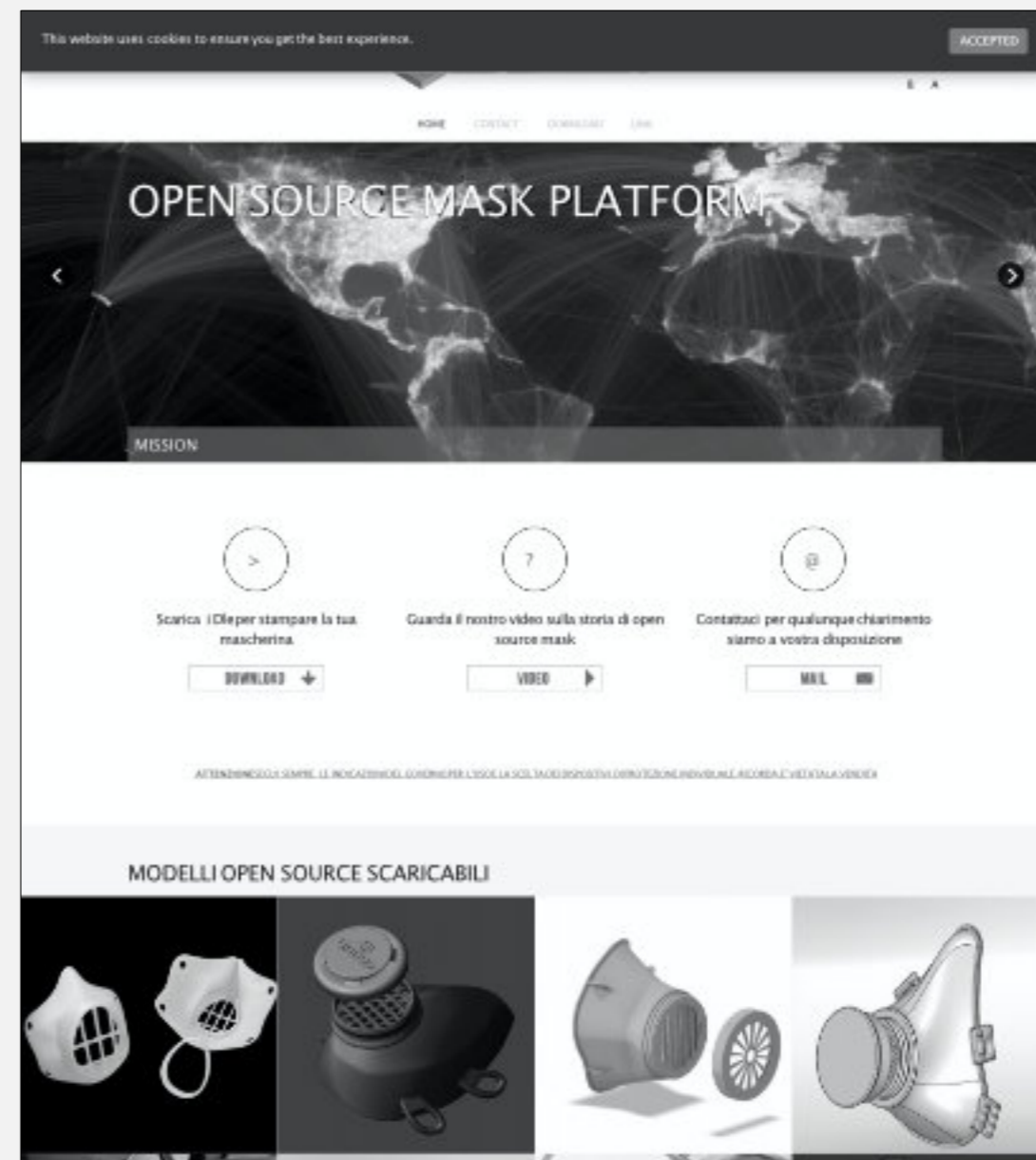
Various

#FAILATUAPARTE #PLAYYOURPART

Open Source Mask is an open, inclusive and non-profit masks-oriented platform. Open Source Mask aims to collect and share models that can be downloaded, printed, tested and upgraded by makers in all over the world.

<https://www.opensourcemask.com/en/>

16
Mar



ITALIAN MASK PLATFORM

I31

OPEN CALL

Various

Over 1500 creatives working to virtually support our communities affected by COVID-19

A virtual community of over 1000 who want to remotely volunteer their skills. We're here to help create innovative solutions to support others affected by the pandemic.

<https://www.designtocombatcovid19.com/>

16
Mar

OPEN CALL

Various

Stăm acasă

Objective: Reduction in the over overloading of emergency phone numbers, quick and easy collection of information from a very large population, constant evaluation of a large population, the offer of support in the management of cases for authorities.

<https://code4.ro/en/apps/stam-acasa/>

16
Mar

I32

DESIGN TO COMBAT COVID-19

CODE 4 ROMANIA

I33

POSTER

Sara Andreasson

Stay home, break the chain

If you can, please stay at home. We all need to make an effort to help protect the more vulnerable people in our communities and try and break the chain of infection. The fact is that you might be carrying the virus without showing any symptoms, so it's important to minimise contact with others even if you consider yourself healthy. These are difficult times for all of us, but especially for the less fortunate people in our society so it's time we come together and show some compassion.

https://www.instagram.com/p/B9yzHNRnDDj/?utm_source=ig_embed

16
Mar

OPEN CALL

AG design agency

Pandemic Architecture International Ideas Competition

Pandemic Architecture Competition attempts to open up a dialogue and create a think tank, looking for ideas from the architectural and design community about the future of the living, the workspace, the public space and the tourism industry. Urbanists, architects, designers, students, artists, performers and authors are invited to submit their ideas on Pandemic Architecture. Proposals should be based on a realistic situation or on science fiction and should focus on territorial and urban development projects or architectural and interior design.

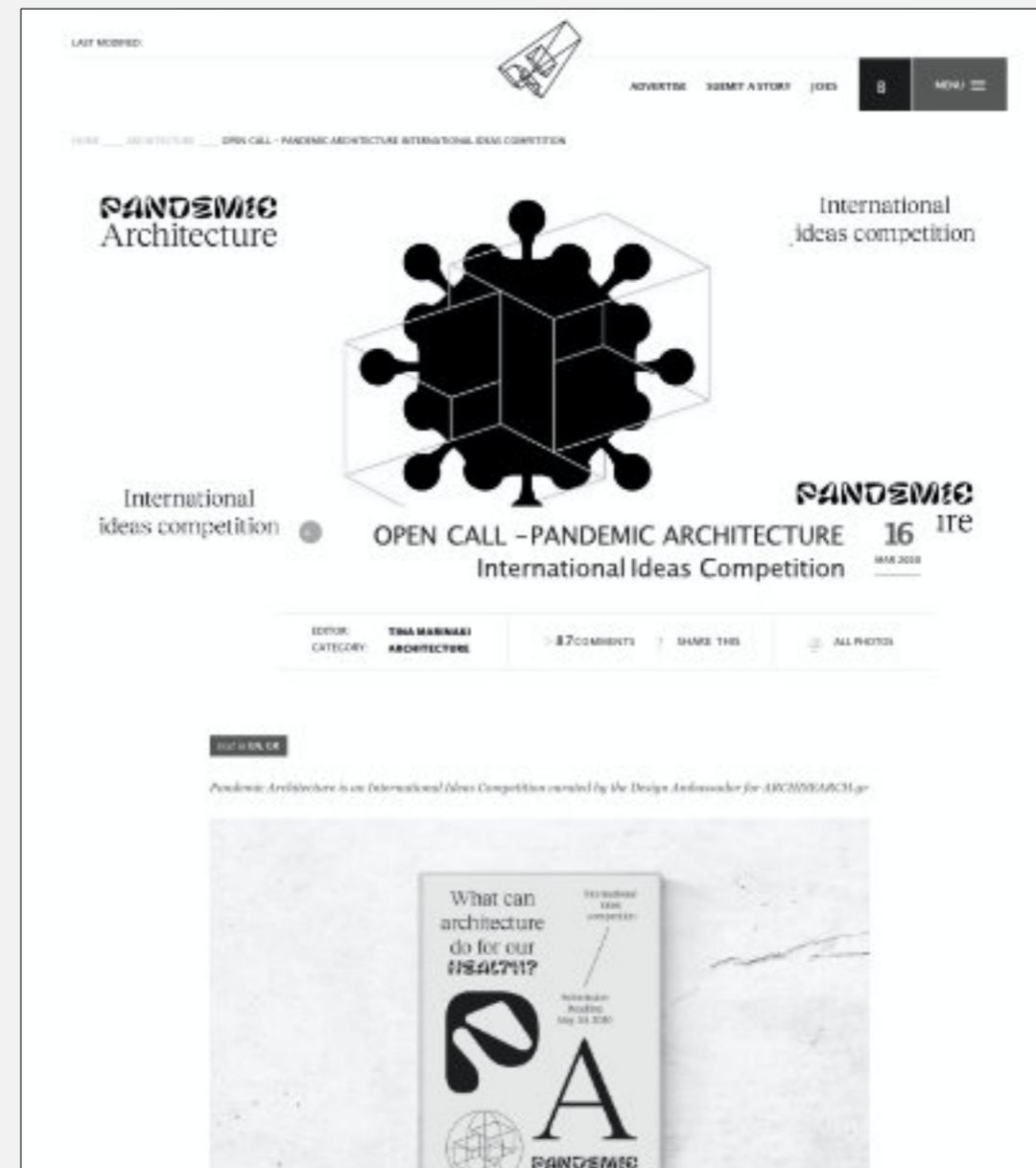
<https://agdesignagency.com/notes/3364/>

16
Mar



I34

STAY HOME



PANDEMIC ARCHITECTURE

I35

ILLUSTRATION

The New York Times

Wondering about Social distancing?

Put simply, the idea is to maintain a distance between you and other people — in this case, at least six feet. That also means minimising contact with people. Avoid public transportation whenever possible, limit nonessential travel, work from home and skip social gatherings — and definitely do not go to crowded bars and sporting arenas. "Every single reduction in the number of contacts you have per day with relatives, with friends, co-workers, in school will have a significant impact on the ability of the virus to spread in the population," said Dr. Gerardo Chowell, chair of population health.

https://www.instagram.com/p/B9zjc-1Dhst/?utm_source=ig_embed



COMPETITION

Bompas & Parr

Fountain of Hygiene competition calls on designers to rethink hand sanitisers amid coronavirus pandemic

Experience designer Bompas & Parr has launched a design competition to rethink hand sanitisers to encourage hand-washing during the coronavirus pandemic while raising money for charity. The Fountain of Hygiene competition calls for designers to propose new forms of hand-sanitiser pumps as well as more creative hygiene solutions.

<https://www.dezeen.com/2020/03/17/fountain-of-hygiene-competition-hand-sanitisers-coronavirus/>



PARTICIPATION

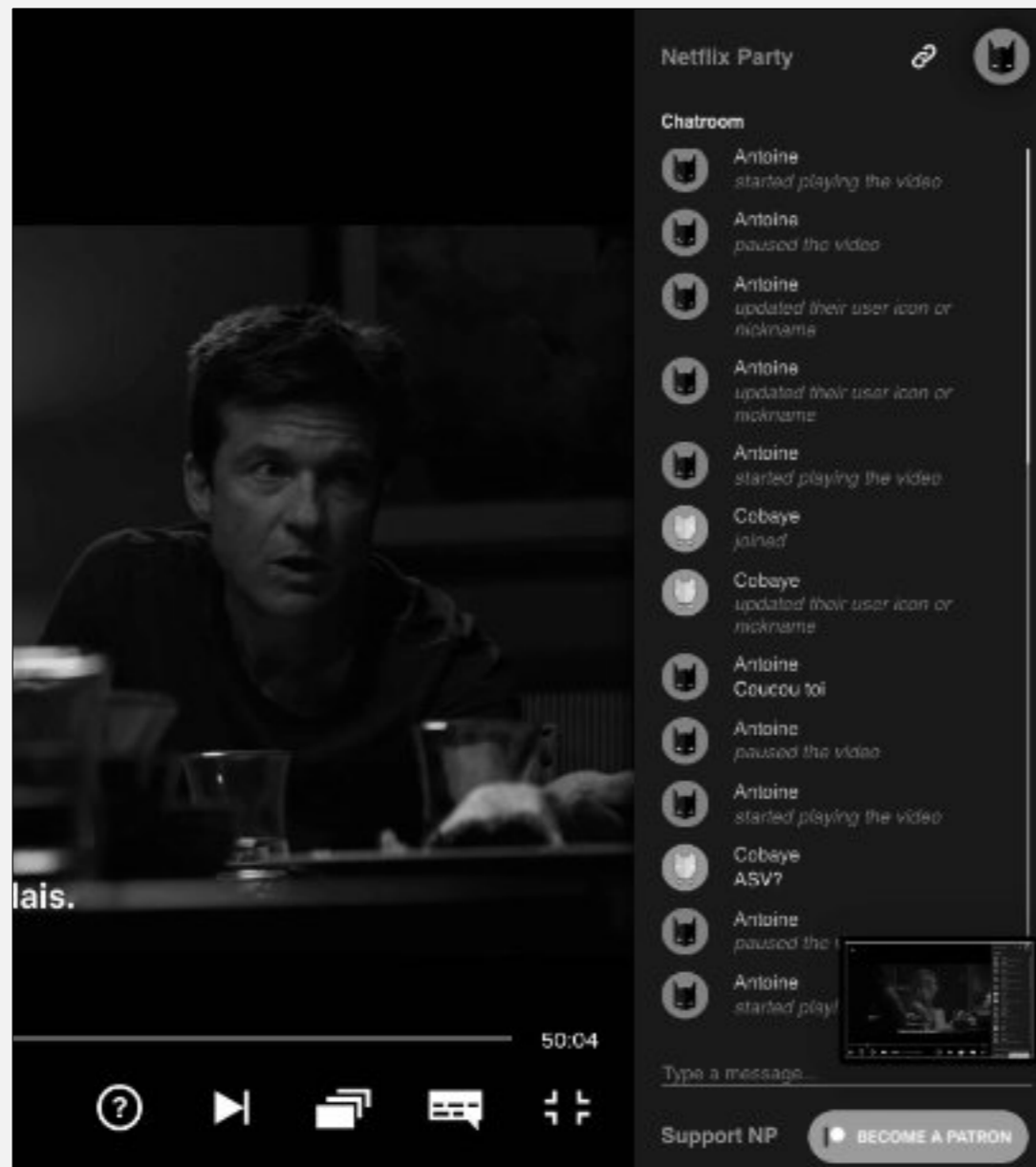
Netflix

Netflix Party lets friends have movie nights while social distancing.

Thanks to a Google Chrome extension called Netflix Party, groups of friends can get together virtually and watch their favorite Netflix titles on their computers at the same time. The extension also comes with a chat room, so you can share your reactions to the programs as you watch.

<https://eu.usatoday.com/story/entertainment/tv/2020/03/17/coronavirus-netflix-party-lets-friends-do-movie-nights-quarantine/5072347002/>

I7
Mar



NETFLIX PARTY

I38

NEURAL NETWORK

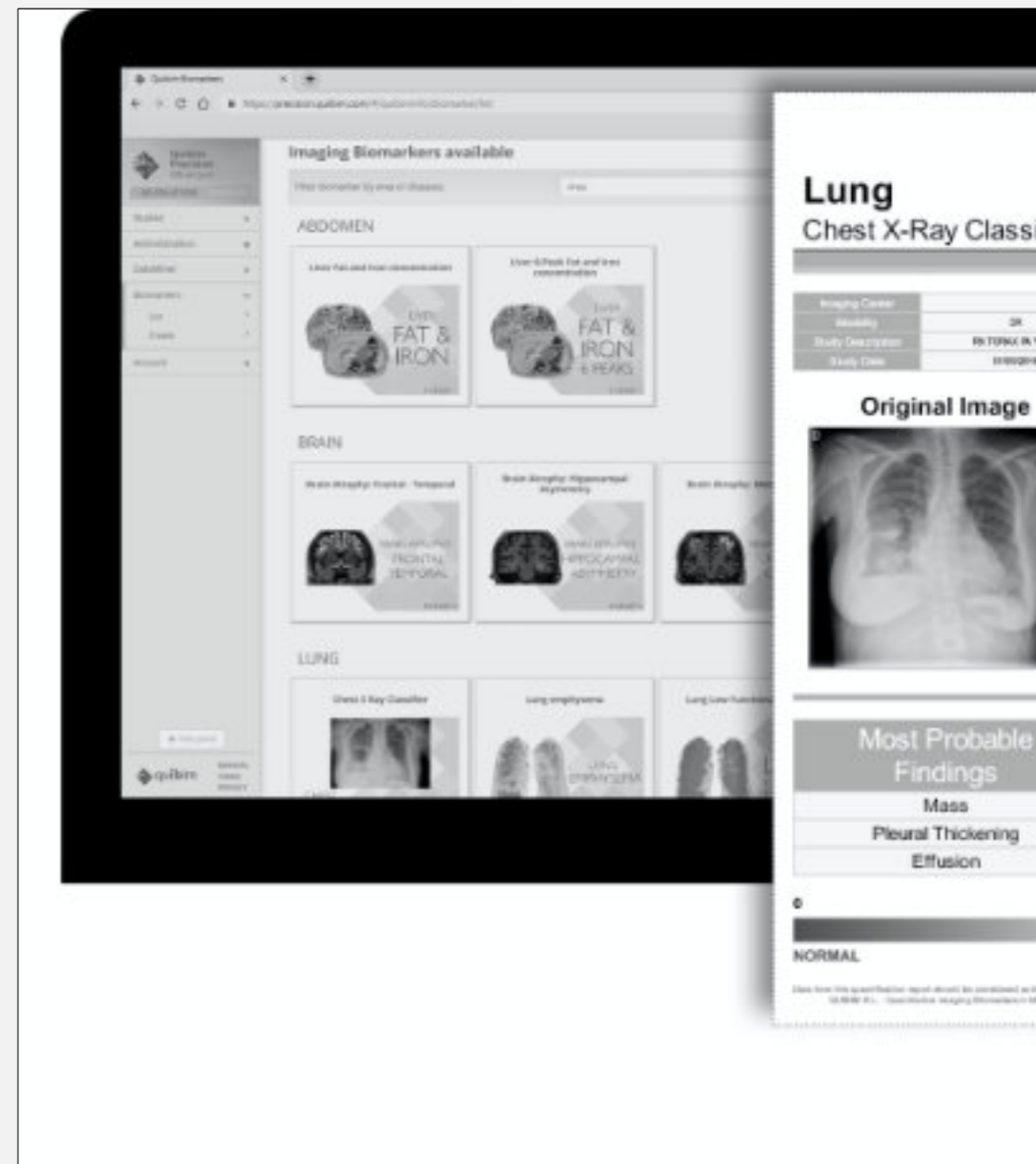
Quibim

Improve humans health by applying advanced and innovative image processing techniques to radiological images

QUIBIM applies artificial intelligence and advanced computational models to radiological images to objectively measure changes produced by a lesion or by a pharmacological treatment, offering additional quantitative information to the qualitative approach of radiology.

<https://quibim.com/about-us/>

I7
Mar



NEURALNET DIAGNOSTIC

I39

POSTER

Josh Shi

NO THANKS

Illustrating from home; We've been noticing lots of great illustration work being created in response to everything going on right now. Here's some of our favourites thus far—did we miss anyone? Tag them in the comments.

<https://www.instagram.com/p/B91utu0Fjvs/?igshid=buqwcfgyptv>

I7
Mar



I40

NO THANKS

DOOR OPENER

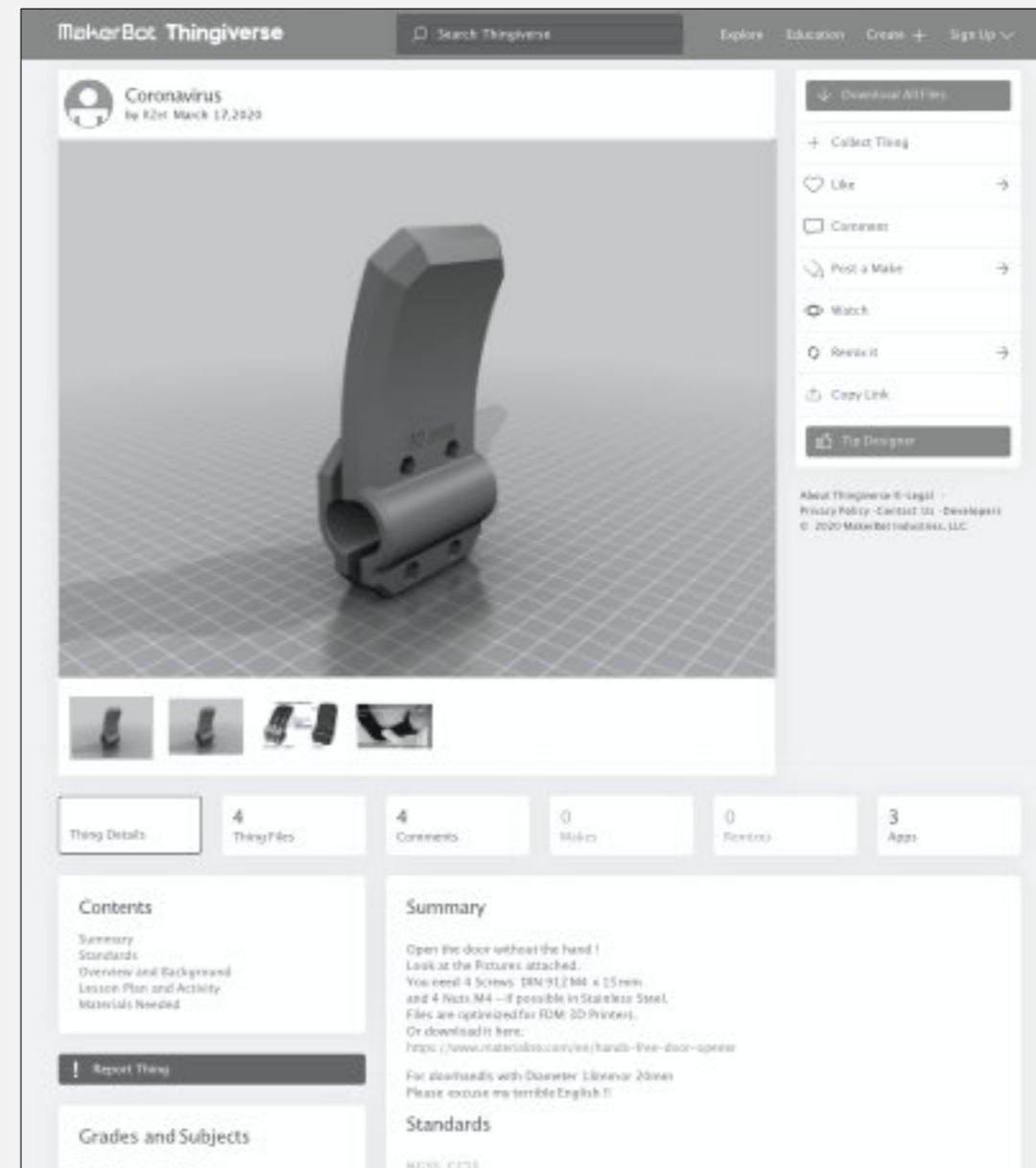
RZet

Open the door without the hand!

Open the door without the hand! . You need 4 Screws DIN 912 M4 x 15 mm - if possible in Stainless Steel. Files are optimized for FDM 3D Printers.

<https://www.thingiverse.com/thing:4226180>

I7
Mar



DIY OPENER

I41

PARTICIPATION

Ankie Hoyera

Physical spaces for interaction, exchange and expression - designing the 1.5m society

In Utrecht, a Dutch lady took the opportunity when she decided to turn her sidewalk into a storytelling theatre. The retired professional storyteller, Ankie Hoyera, has been performing outside her house every day for the past few weeks. Just before 5 o'clock every afternoon, she takes out a few little stools and places them 1.5 metres from each other. Some minutes later, facing her enchanted audience, she tells a story accompanied by only her body gestures and sounds. Since Ankie started telling stories, the audience grew.

https://s3-eu-central-1.amazonaws.com/whatdesigncando/app/uploads/20200417085858/Klokslag-vijf-de-buurvrouw-vertelt_NRC_photo-Aziz-Kawak.jpg



MAP

The Government of Spain

Situation of COVID-19 o Coronavirus in Spain.

Carlos III Health Institute (ISCIII) page about daily data of the COVID-19 virus or Coronavirus in Spain. Geographical distribution of the total cases and the cases of the last 24h (obtained from the aggregate declaration of cases of the Ministry of Health)

<https://covid19.isciii.es/>



INFOGRAPHIC

The Government of the UK

Free downloadable posters to print at home and display prominently on your property

A simple set of traffic light style posters that will help your community to recognise your household's status with regard to Covid-19 infection and indicate your need for help.

<https://sites.google.com/site/covid19trafficlights/>



PROJECTS

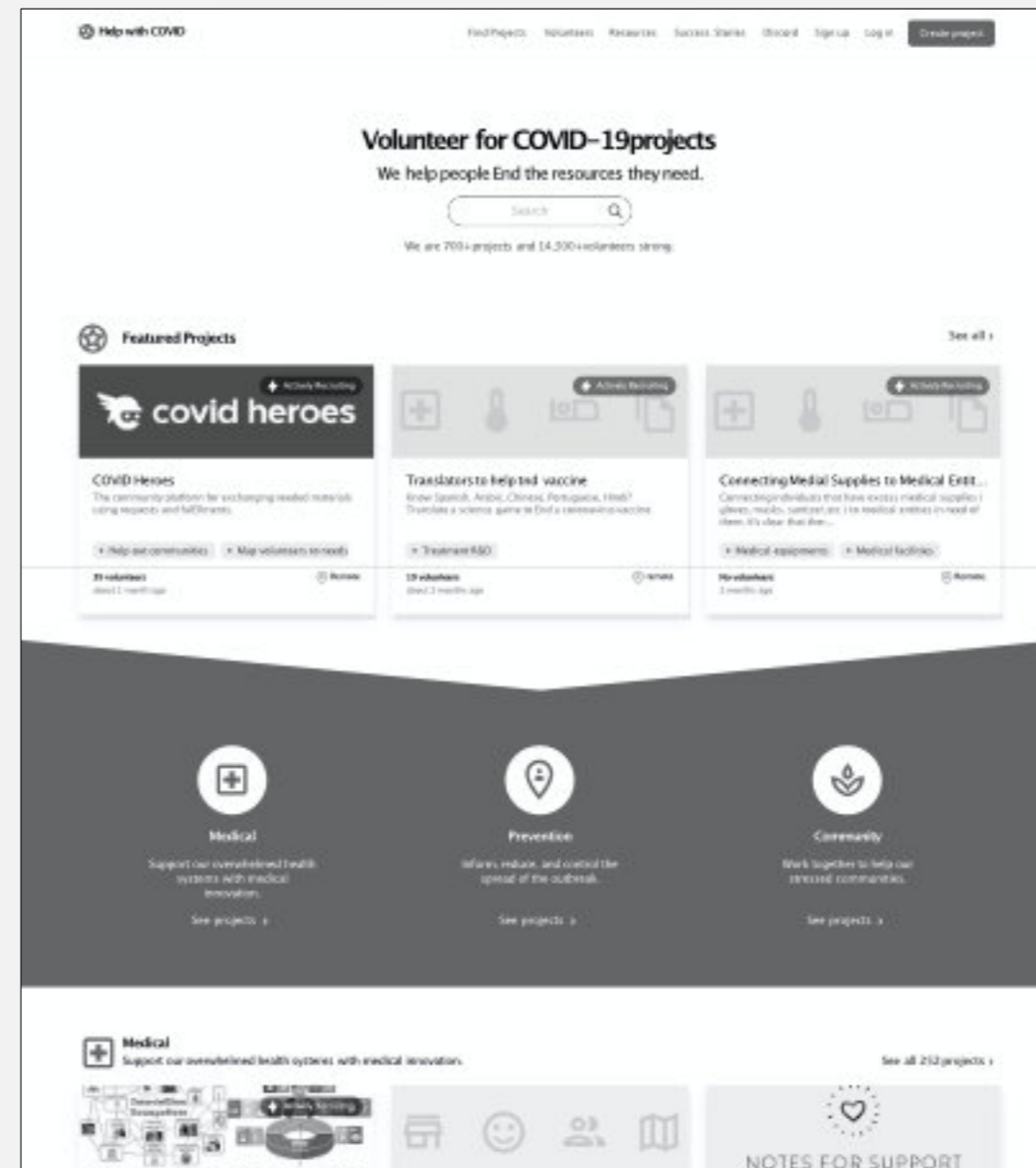
Various

Volunteer for COVID-19 projects

We are 700+ projects and 14,300+ volunteers strong. Medical. Support our overwhelmed health systems with medical innovation. See projects

Prevention; Medical; and community.

<https://helpwithcovid.com>



PARTICIPATION

Various

Help Your Local Service Industry

Right now, we're all feeling the impact of the spread of Covid-19. Food and beverage professionals are severely impacted by restaurants closing or shifting to take-out. Workers are hurting. Every little bit helps. Every time you have a drink or meal at home during social distancing, consider tipping a local service industry worker through Venmo or Cash App.

<https://serviceindustry.tips/en/>



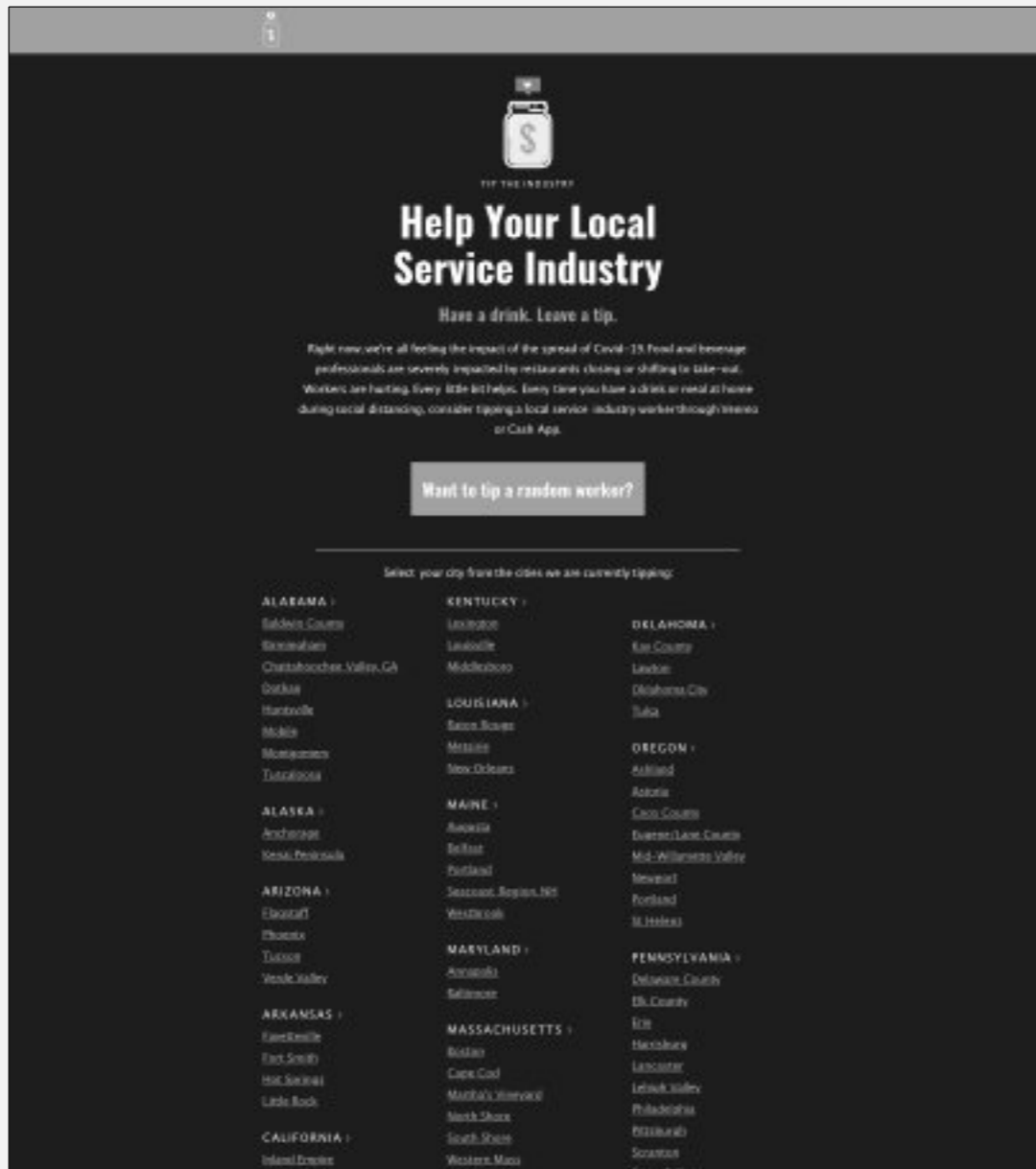
OPEN CALL

Phoebe English

If you are a company with sewing capacity, machinery, facilities and can help replenish stocks of masks

If you are a company with sewing capacity, machinery, facilities and can help replenish stocks of masks/gowns for our medical sector + their support teams please register your capacity at this Cabinet registration

<https://www.instagram.com/p/B990h0PBiEk/>



MASK

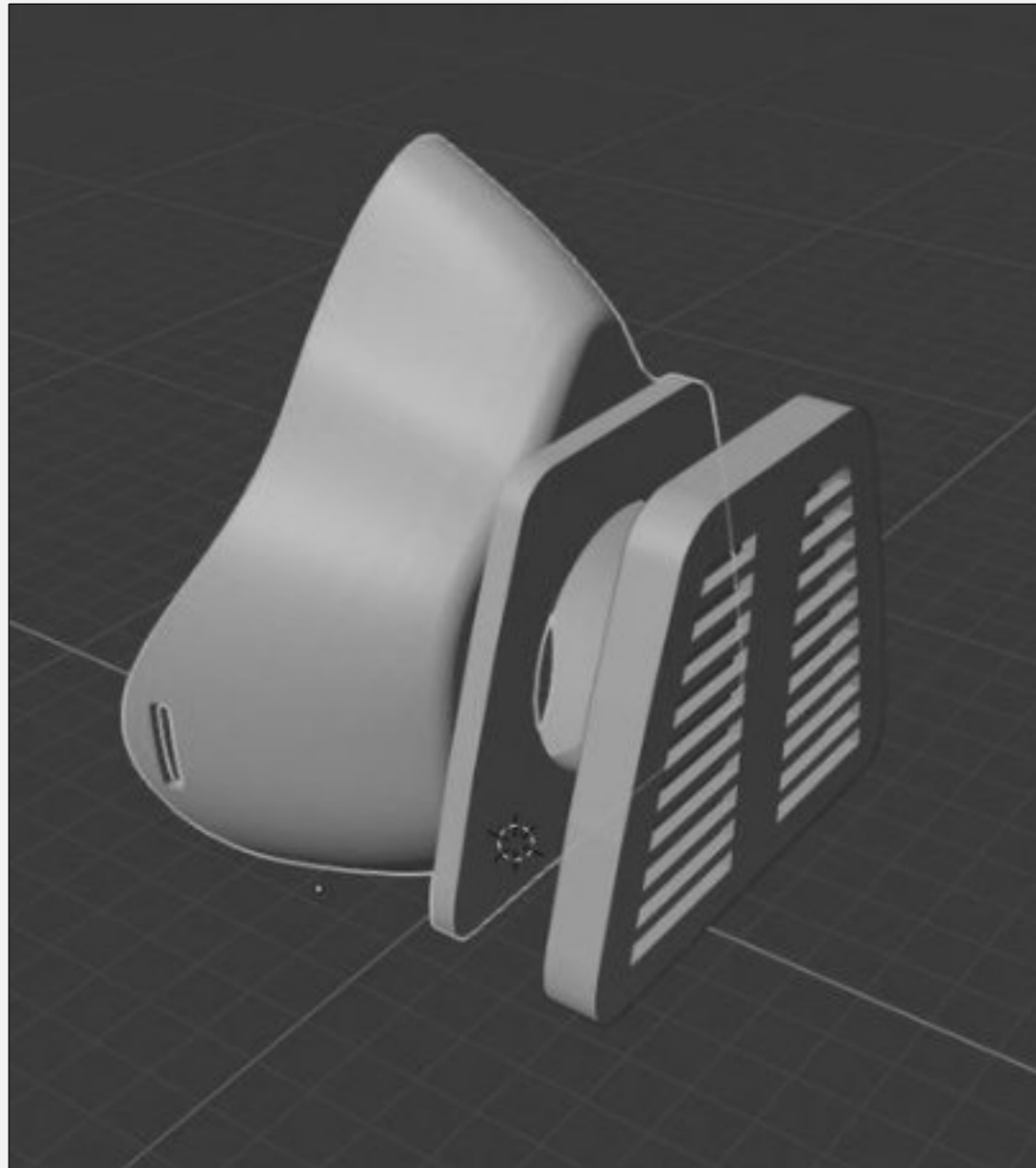
Stan_X

here a 3d mask model against virus.

Two Parts to Print :- Mask + Container filter which clip to the mask

You need to buy :- Filters + Elastic band to attach the mask

Tell me if modifications are needed. Enjoy!

<https://cults3d.com/en/3d-model/various/antivirus-mask-covid-19-compliant>**I7
Mar****I48****ANTIVIRUS MASK**

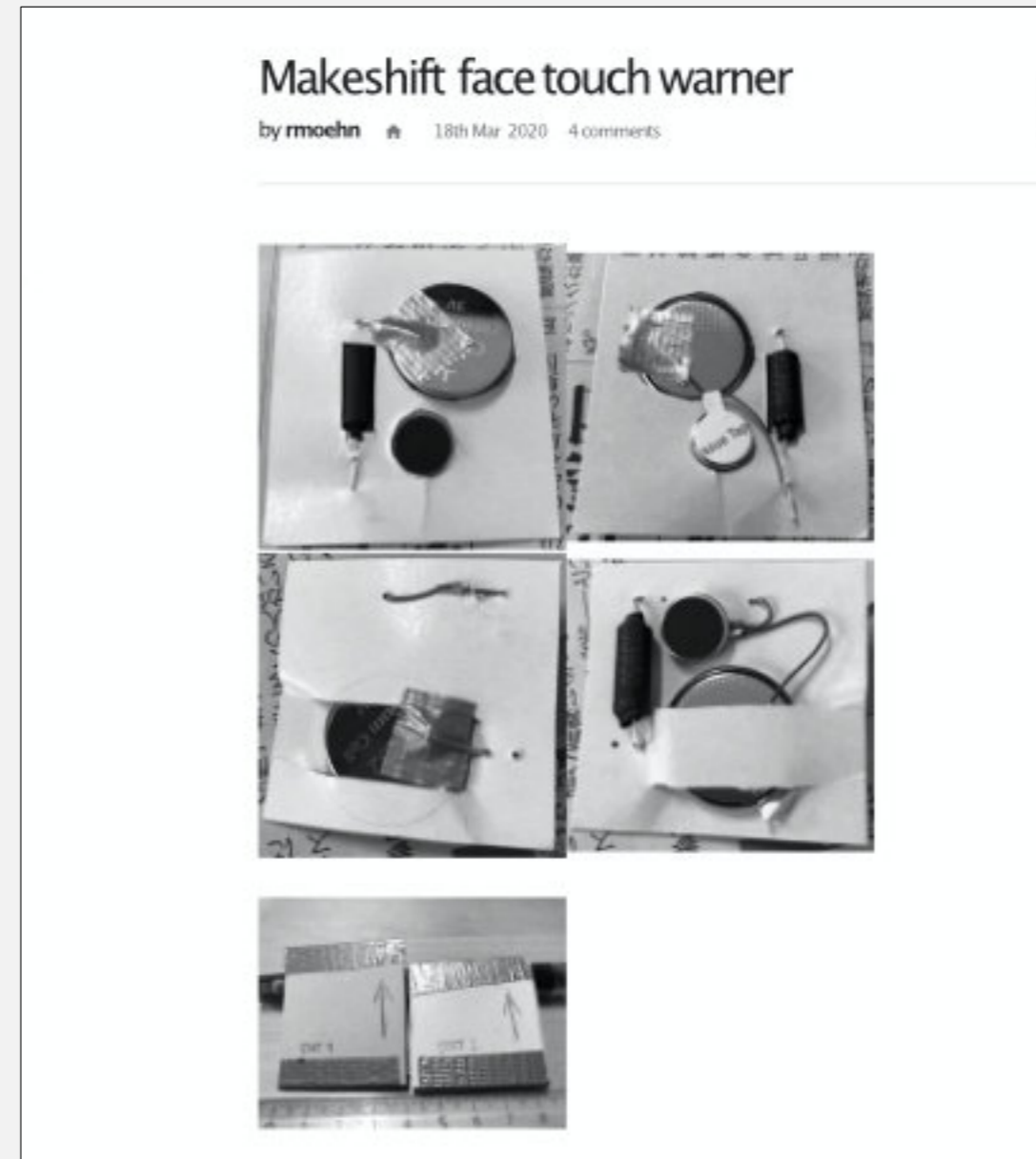
WEARABLE

rmoehn

Makeshift face touch warner

I've been using it all day while working at my desk and it has warned me of touching my face several times. I got rid of false alarms while typing, mousing or handwriting by pointing the tilt switch slightly towards the outside (ulnar side) of my arm.

It consists of three main components; tilt switch, vibration motor, 3V battery.

<https://www.lesswrong.com/posts/XgFQ2eYKvGXdykqd/makeshift-face-touch-warner>**I8
Mar****FACE TOUCH WARNER****I49**

WEARABLE

Kim Binsted

It's hard not to touch your face. But now, there's an app for that

One of the simplest things you can do to prevent the spread of disease is often one of the hardest to remember: don't touch your face. Released first for the FitBit Ionic wearable fitness devices, JalapeNO! warns users any time they raise their hand to touch their face with a vibration. On average, office workers touch their faces 23 times per hour, with almost half involving contacts between hand and nose, eyes or mouth, Binsted explains. Her solution? Treat your hands as if you have been chopping jalapeno peppers for a family of seven billion people.

<https://www.hawaiiotech.com/apps/dont-touch-your-face-wearable-app/>

I8
Mar



I50

JALAPENO!

CHARTS

Joseph Richards

How many cases of COVID-19 does each U.S. state really have?

Reported U.S. case counts are based on the number of administered tests. Since not everyone is tested, this number is biased. We use Bayesian techniques to estimate the true number of cases.

<https://covid19dashboards.com/covid-19-us-case-estimation/>

I8
Mar

COVID-19 Case Estimates, by State

Definition Of Fields:

- **Reported Cases:** The number of cases reported by each state, which is a function of how many tests are positive.
- **Est Cases:** The predicted number of cases, accounting for the fact that not everyone is tested.
- **Est Range:** The 95% confidence interval of the predicted number of cases.
- **Ratio:** *Estimated Cases* divided by *Reported Cases*.
- **Tests per Million:** The number of tests administered per one million people. The less tests administered per capita, the larger the difference between reported and estimated number of cases, generally.
- **Cases per Million:** The number of **reported** cases per on million people.
- **Positive Test Rate:** The **reported** percentage of positive tests.

	Reported Cases	Est Cases	Est Range	Ratio	Tests per Million	Cases per Million
state						
NY	371711	400364	(382378, 434645)	1.1	10867.6	19107.6
NJ	160918	174522	(165684, 191562)	1.1	89672.5	18116.9
IL	121234	132501	(125234, 146517)	1.1	72465.7	9567.2
CA	113006	124349	(118957, 138479)	1.1	50935.7	2860.0
MA	96965	105203	(99951, 115225)	1.1	86014.2	14068.2

ESTIMATION

I51

POSTER

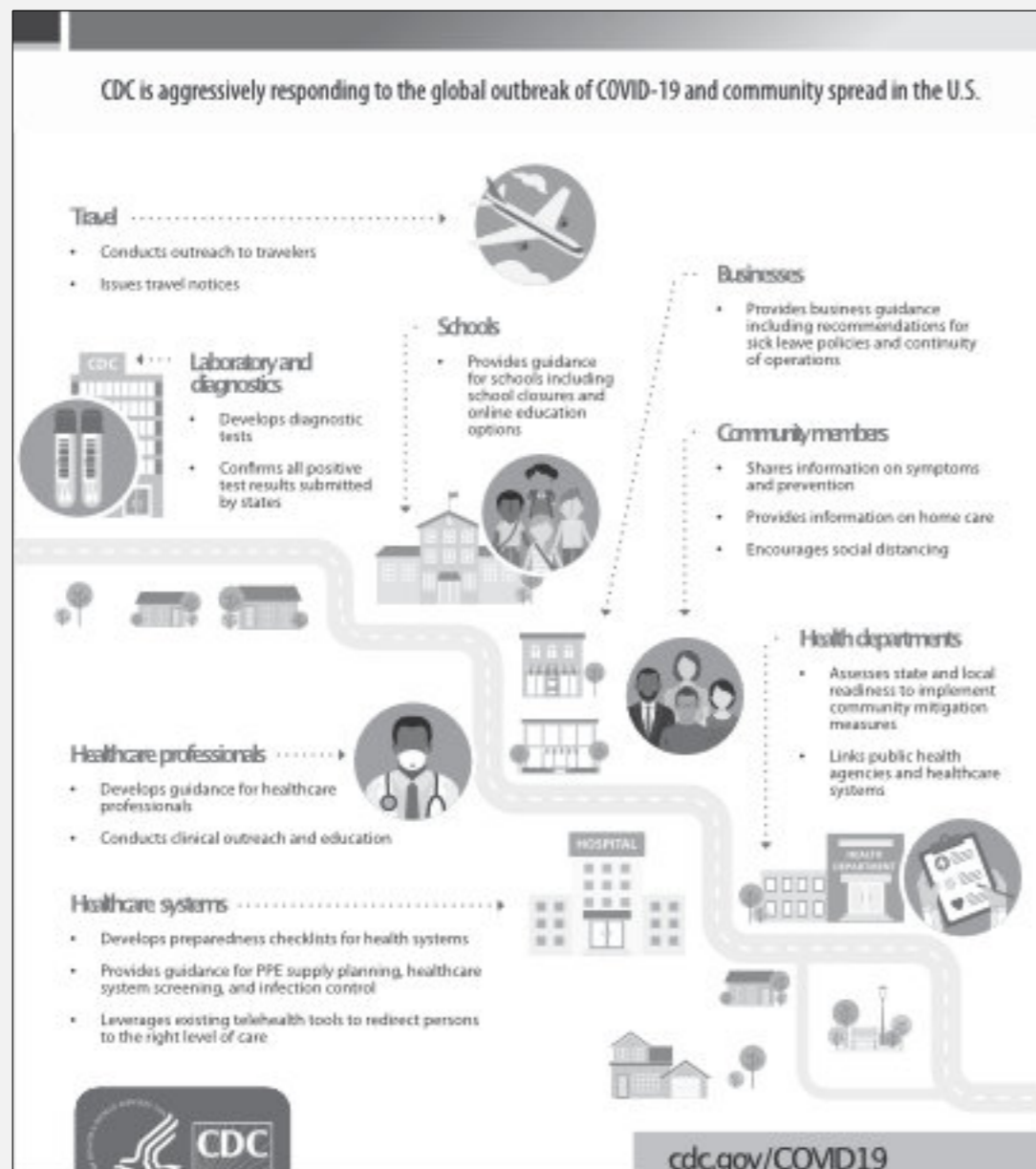
CDC - Centre for Disease Control and Prevention

CDC protects and prepares communities

CDC is aggressively responding to the global outbreak of COVID-19 and community spread in the U.S.

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/infographic-cdc-protects-508.pdf>

I8
Mar



CHARTS

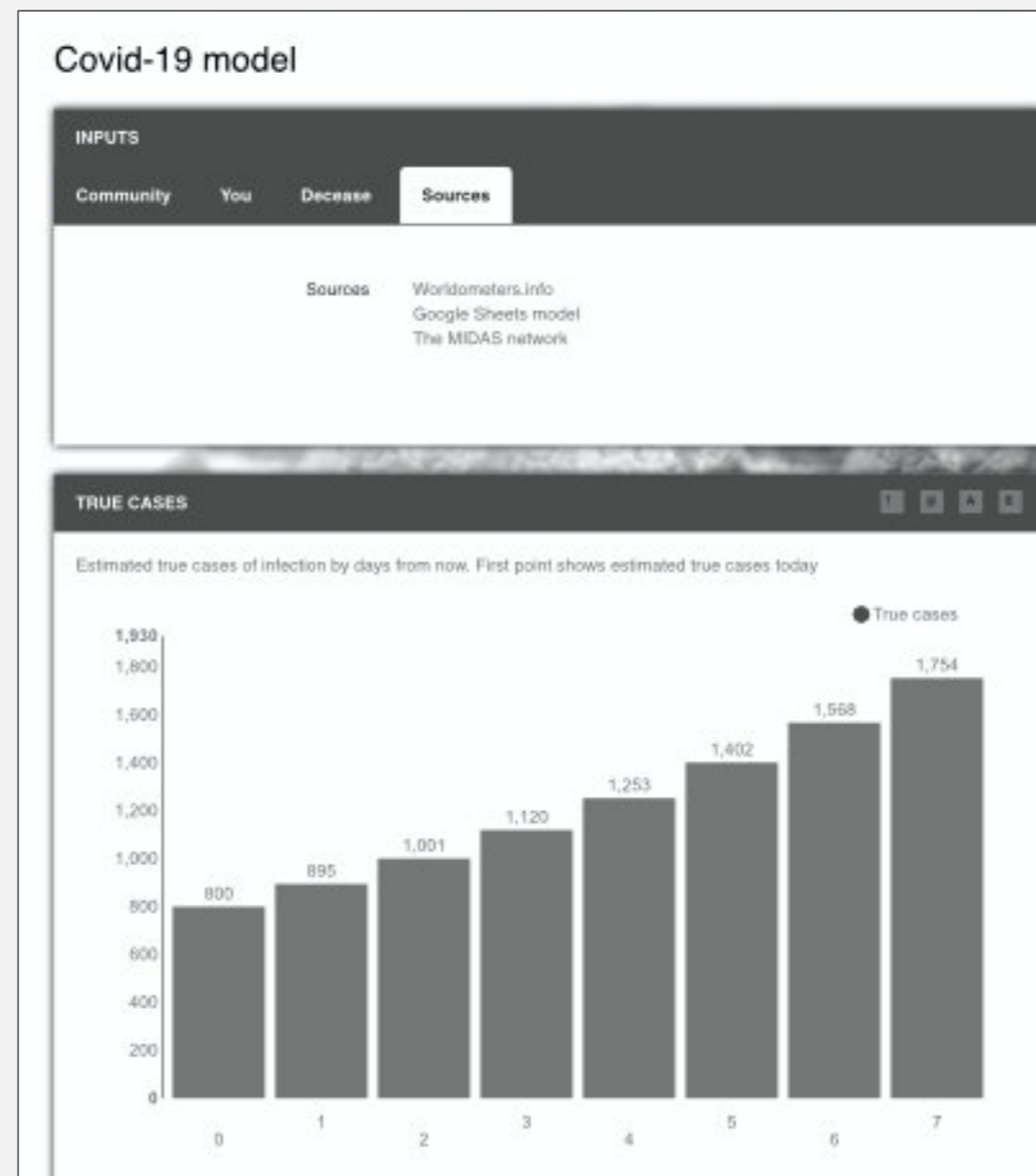
Mattias @ Molnify

Covid-19 model

As some countries stopped testing of Covid-19, this simple model can help guide around growth rate, true cases and potential impact for you based on your age, sex and existing pre-conditions. Needless to say, very indicative particularly in terms of the impact of existing pre-conditions.

<https://app.molnify.com/app/covid-19>

I8
Mar



PROJECTS

Various

Help us better understand COVID-19

Inside Kaggle you'll find all the code & data you need to do your data science work. Use over 19,000 public datasets and 200,000 public notebooks to conquer any analysis in no time.

<https://www.kaggle.com/search?q=coronavirus>

I8
Mar

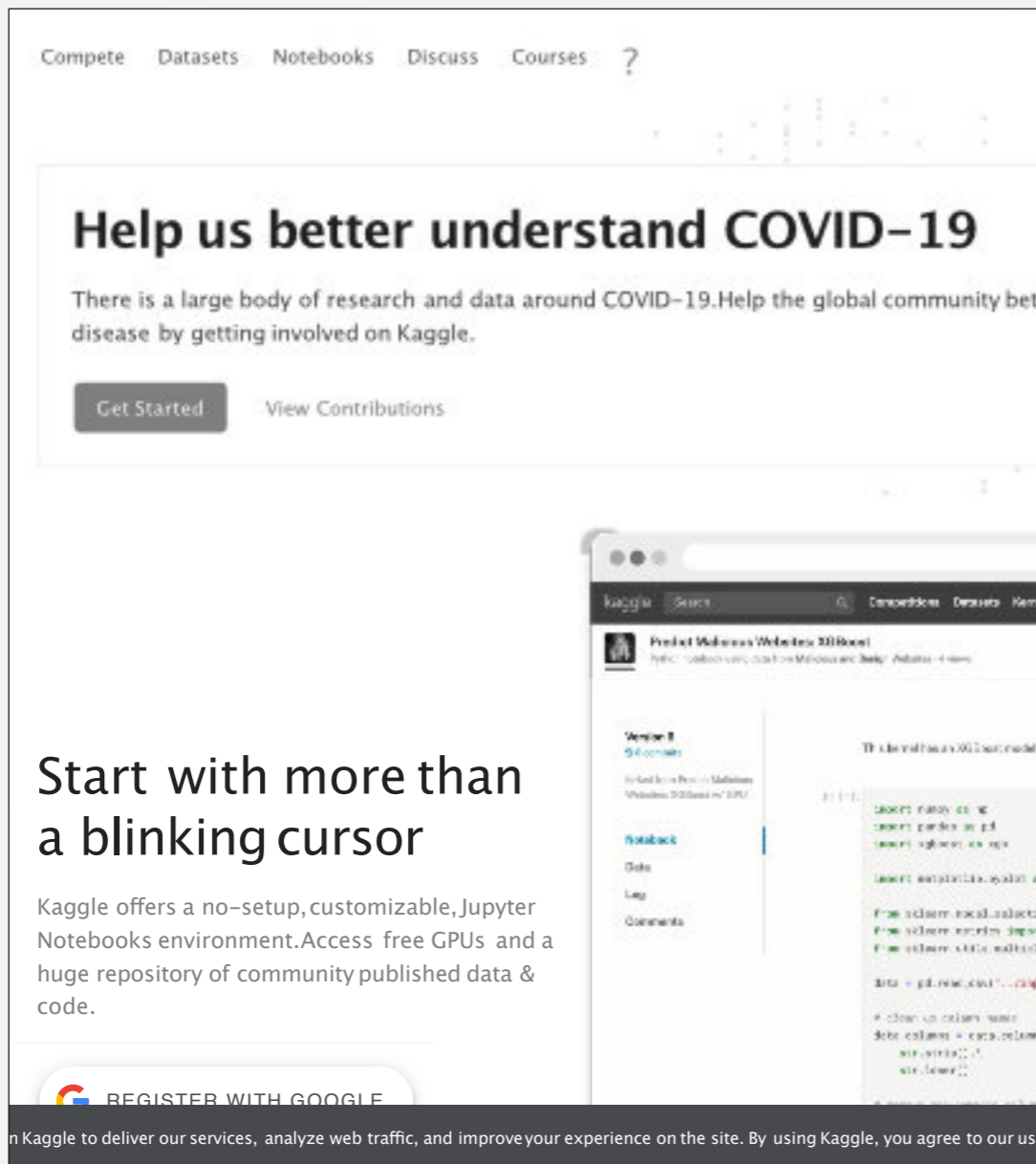
OPEN CALL

The Government of New York State

Technology SWAT Teams to Support New York COVID-19 Response

New York State is launching technology driven products with leading global tech companies to accelerate and amplify our response to COVID-19. We are looking for impactful solutions and skilled tech employees to help. Individuals from leading global technology companies are being deployed across high-impact and urgent coronavirus response activities.

<https://www.ny.gov/programs/new-york-state-covid-19-technology-swat-team>

I8
Mar


Compete Datasets Notebooks Discuss Courses ?

Help us better understand COVID-19

There is a large body of research and data around COVID-19. Help the global community better understand the disease by getting involved on Kaggle.

Get Started View Contributions

Start with more than a blinking cursor

Kaggle offers a no-setup, customizable, Jupyter Notebooks environment. Access free GPUs and a huge repository of community published data & code.

REGISTER WITH GOOGLE

in Kaggle to deliver our services, analyze web traffic, and improve your experience on the site. By using Kaggle, you agree to our use

I54

KAGGLE



Services News Government Local Search Translate

New York State COVID-19 Technology SWAT Team

Leveraging Technology Expertise to Scale our Efforts

SHARE OR PRINT

FIRST-IN-THE-NATION TECHNOLOGY SERVICE PARTNERSHIP WITH LEADING GLOBAL TECHNOLOGY COMPANIES

Technology SWAT Teams to Support New York COVID-19 Response

New York State is launching technology driven products with leading global tech companies to accelerate and amplify our response to COVID-19. We are looking for impactful solutions and skilled tech employees to help. Individuals from leading global technology companies are being deployed across high-impacted urgent coronavirus response activities.

To date, we have received ~4700 submissions representing ~6000 total volunteers. There has been strong interest across the range of functions, including Web/Mobile Development, Data Science/Analytics, End User Support and Digital Content Strategy.

Technology companies, universities, nonprofits, research labs, and other organizations with technology expertise are invited to submit an expression of interest. Visit our [Frequently Asked Questions](#) to learn more about the Tech SWAT Team.

SWAT Team Updates [READ MORE](#)

NEW YORK STATE TECHNOLOGY SWAT TEAM PLAYBOOK

The Playbook provides recommendations and guidelines for any government entity that is standing up a similar Technology SWAT Team effort.

DOWNLOAD THE PLAYBOOK

TEAMS WILL BE DEPLOYED ACROSS AREAS SUCH AS TECHNOLOGY, OPERATIONS, ANALYTICS AND COMMUNICATIONS

Open to any Company or Technologist Regardless of Industry

- Seeking Highly-Trained Civic-Minded Technologists
- Teams or Cohorts Preferred
- In-Person or Locally-Based is Ideal

Teams will assist in the State's coronavirus response for 90-day service deployments.

Our highest need is for teams or cohorts of individuals from a single institution.

Given that many employers are having more workers work from home, we cannot use full-time

NYC SWAT TEAM

I55

MASK

Daniel Martínez

Copper3D organising global campaign to 3D print antimicrobial masks on a global scale

Copper is considered to be one of the most effective materials that exist for killing coronavirus. You can now 3D print antimicrobial masks. Download the open source antimicrobial mask 3D printable model.

<https://www.3dprintingmedia.network/copper3d-organizing-global-campaign-to-3d-print-antimicrobial-masks-on-a-global-scale/>



156

NANO-HACK MASK

PODS

The Government of South Korea

South Korea dials up virus testing with hospital 'phone booths'

A South Korean hospital has introduced phone booth-style coronavirus testing facilities that allow medical staff to examine patients from behind the safety of a plastic panel, the latest innovation in the country's drive to track down infections.

<http://www.koreaherald.com/view.php?ud=20200318000713>



'PHONE BOOTHS' TEST CABINS

157

18
Mar18
Mar

OPEN CALL

UCL

COVID-19 response: searching for emerging market ventilation systems

The GDI Hub brings together academic excellence, innovative practice and co-creation; harnessing the power of technology for good.

<https://www.disabilityinnovation.com/news/frontier-tech-4-covid-action-emerging-market-ventilation-systems>

I8
Mar

VALVE

Cristian Fracassi and Alessandro Ramaoli

Italian engineers and fabricators volunteer to rapidly 3D-print respirator valves

Facing a shortage of medical equipment in northern Italy, a team of engineers and fabricators has urgently 3D-printed 100 respirator valves for hospital patients suffering from COVID-19. The valves connect patients to breathing machines, providing a vital means of support. However, after a hospital in Brescia ran out of the devices, and the original manufacturer was unable to supply them, the team of volunteers — connected by Italian journalist Nunzia Vallini — took on the challenge of manufacturing new medical components.

<https://www.designboom.com/technology/italian-engineers-fabricators-volunteer-3d-printed-respirator-valves-03-18-2020/>

I8
Mar

Global Disability Innovation Hub

Home AT2030 Research Education Practice Consultancy News, Events & Blog About

All News Events Blog

View all News

COVID-19 response: searching for emerging market ventilation systems

Hospitals around the world are grappling with COVID-19 and the UK is no exception. Key to this challenge is making sure our hospitals have the equipment to treat people with respiratory problems.

In this context, ventilators are pivotal pieces of medical equipment, but there are not enough ventilators for the projected number of people who may become ill.

While engineering firms could consider switching some manufacturing to help ramp production of the vital equipment, state-of-the-art ventilators will still take too long to manufacture. That's where we're looking to emerging markets for Rapidly Manufactured Ventilation Systems (RMVS).

WHAT WE NEED: RAPIDLY MANUFACTURED VENTILATION SYSTEMS

We are looking for an existing, proven technology that can be rapidly adapted to be built in the UK. The winning technology will be adapted for manufacture and use in the UK by a team at UCL's Institute of Healthcare Engineering with Global Disability Innovation Hub (GDI Hub). The design will then be shared with the world to support their fight against COVID-19.

WHAT YOU GET: OPPORTUNITY TO SUPPORT COVID-19 EFFORTS GLOBALLY AND A ROUTE TO MARKET IN THE UK AND BEYOND

We are offering the winning technologies:

- Global exposure and recognition for your technology
- Support from a group of specialist experts from University College London's Institute of Healthcare Engineering and GDI Hub to support technology to be manufactured in the UK
- A free per-ventilator or spare parts for the ventilator — to be determined
- And more...

UCL DESIGN & REFINE SPRINT: THURSDAY 13 MARCH - FRIDAY 20 MARCH (closed)

UCL's Institute of Healthcare Engineering and GDI Hub hosted a virtual, collaborative working group on Thursday 13 March - Friday 20 March. We invited participants with relevant, professional expertise as engineers, manufacturers, clinicians or intensive care technicians to join us online for a Design & Refine Sprint. It was an opportunity to explore how working designs and prototypes of low-cost ventilators could be adapted to fit different clinical environments (such as the NHS in the UK) meet the specific needs around Covid-19 and be manufactured at scale and at low-cost.

TIMELINE

- Launch: Monday 16 March (21:00 GMT)
- Close: Tuesday 24 March (09:00 GMT)
- Final Selection: Wednesday 25th March (09:00 GMT) Click here, for more information and to apply.

ADDITIONAL INFORMATION ADDED 15th MARCH

There is a detailed list of requirements on the application form itself, with a quick overview noted below. The RMVS will



I58

VENTILATION SYSTEMS

3D PRINTED VALVE

I59

OPEN CALL

Open solidarity

Technology has a role to play

For the duration of this healthcare crisis, many companies are working in solidarity with one another, to offer remote working, collaboration and healthcare hosting solutions. In light of the calls to action from local governments around the world, we encourage you to join #Open_solidarity. This initiative is an open, collective and global act of digital support — the aim of which is to provide technical solutions free of charge using OVHcloud infrastructures.

<https://open-solidarity.com>



PROJECTS

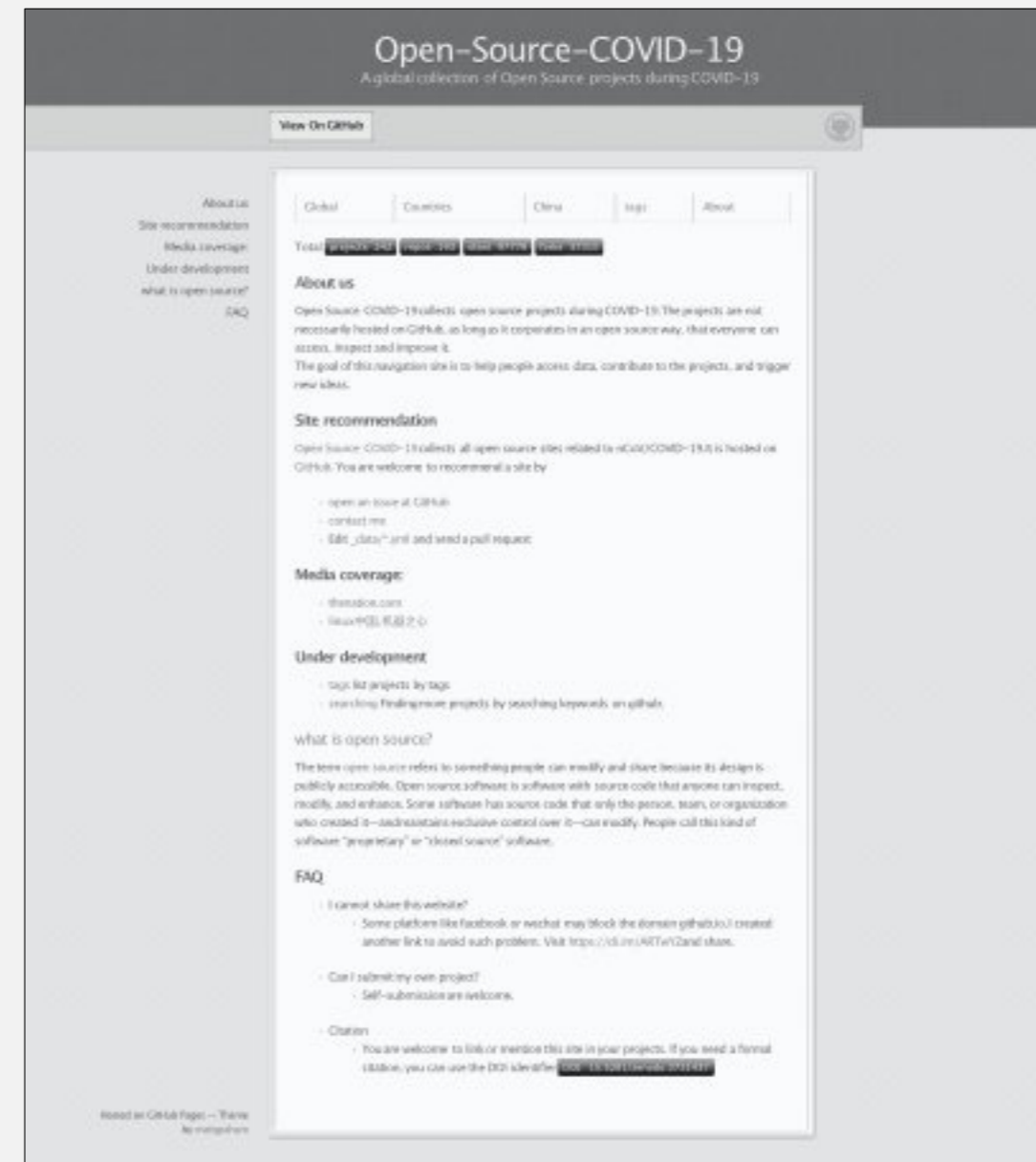
mattgraham

A global collection of Open Source projects during COVID-19

Open Source COVID-19 collects open source projects during COVID-19. The projects are not necessarily hosted on GitHub, as long as it corporates in an open source way, that everyone can access, inspect and improve it.

The goal of this navigation site is to help people access data, contribute to the projects, and trigger new ideas.

<http://open-source-covid-19.weileizeng.com>



SHIELD

Prusa

Prusa Face Shield

A prototype face shield that we developed. In three days, we went through dozens of prototypes and two verifications with the Czech Ministry of Health.

<https://www.prusaprinters.org/prints/25857-prusa-protective-face-shield-rc1>

18
Mar



162

3D PRINTED SHIELD

MECHANISM

Creator studio

Creator's response to the Covid-19 pandemic: design, build, help.

Creator is engineered for food safety. We hope to be a respite in these challenging times. We've open sourced the design for the Creator Transfer Chamber so other restaurants can build their own using materials available at local hardware stores. Plans are available at our GitHub Repository. If you're interested in getting help with building your own, please fill out our request form.

<https://www.creator.rest/covid19>

18
Mar



TRANSFER CHAMBER

163

OPEN CALL

The Government of Providence

The journey begins with us. Learn how to get involved

The global demand for personal protective equipment (PPE) has created a severe shortage of PPE across the world. While regular distribution channels ramp up, we need to act now to ensure caregivers have the isolation masks they need to do their jobs safely.

<https://www.providence.org/lp/100m-masks>



CHARTS

Joao B. Duarte

Estimating The Infected Population From Deaths

This project is supported by a virtual team of open source collaborators that gather data, make visualisations, and perform analysis regarding the COVID-19 epidemic. We saw that data scientists were struggling to share information with each other, so we used this project to aid in the sharing of data and information. This project aims to offer an accessible way for data professionals to share dashboards (that are updated with new data automatically) without requiring any expertise in front-end development.

<https://covid19dashboards.com/covid-infected/>



The screenshot shows the Providence website for the '100 Million Mask Challenge'. It features a header with the Providence logo and a navigation link for Coronavirus (COVID-19). The main heading is '100 Million Mask Challenge' with the subtext 'The journey begins with us. Learn how to get involved.' Below this, there is a photo of a healthcare worker wearing a surgical cap and mask. The text explains that Providence is grateful for the community's response to the mask shortage and mentions that the American Hospital Association has joined the effort. A call to action asks 'Can you still help sew masks? There is a need and we would love your help.' and provides a list of states: Alaska, California, Montana, Oregon, Texas, and Washington. It also lists 'Other ways you can help' such as donating through the American Red Cross and assisting neighbors.

The screenshot shows a dashboard titled 'Estimating The Infected Population From Deaths' by Joao B. Duarte. It includes a warning box stating that the analysis is a predictive model with some speculation. Below the warning, there is a section for 'Estimated Infected Population By Country' with a tip to click (Shift+) for multiple countries. A table shows the latest country estimates for Brazil and China.

Country	Date	Estimated Infected	Lower Bound Estimates	Upper Bound Estimates
Brazil	2020-05-01	753,530	579,836	1,079,471
China	2020-05-01	84,350	84,154	130,953

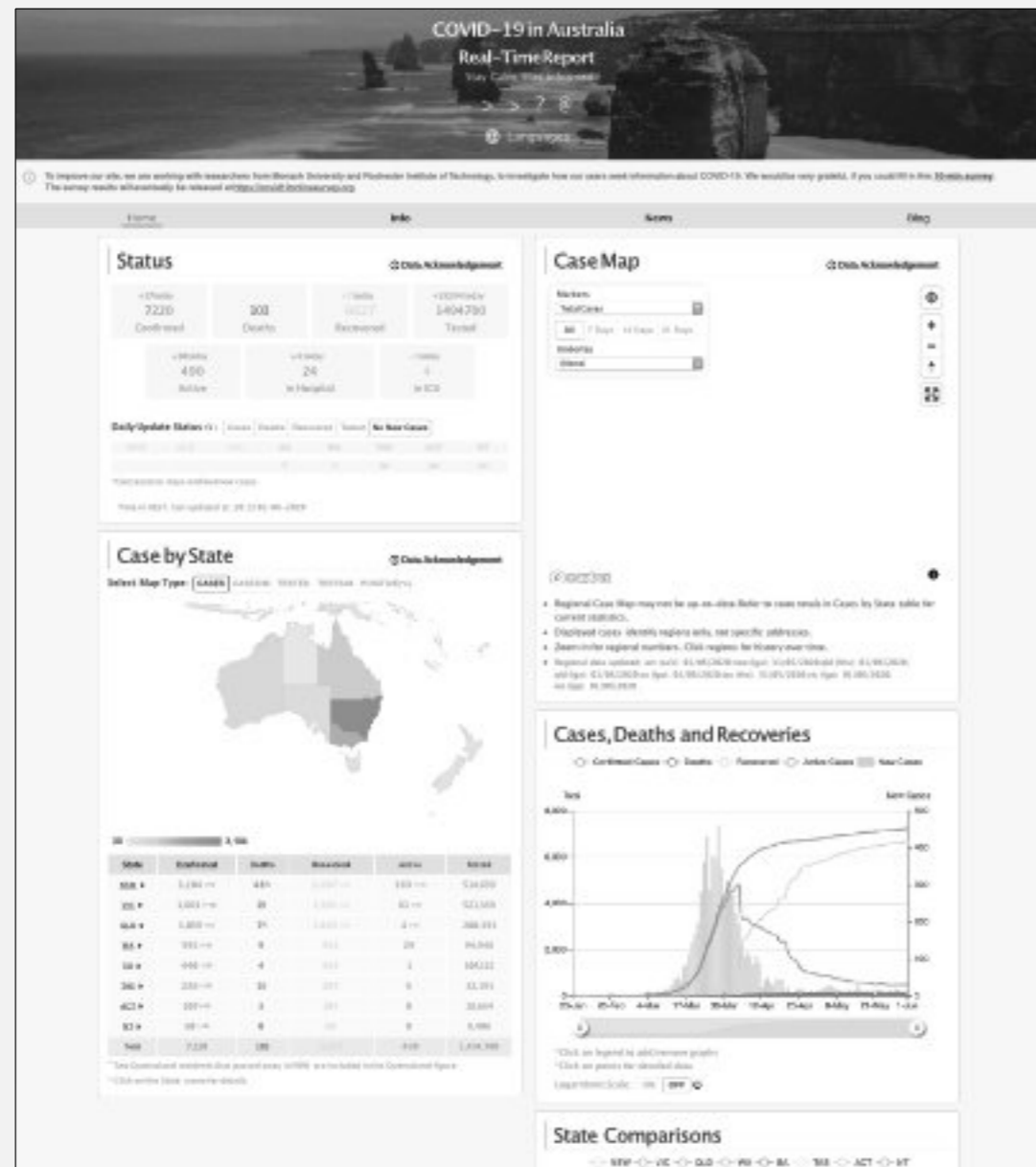
MAP & CHARTS

The Governemnt of Australia

COVID-19 in Australia. Real-Time Report. Stay Calm, Stay Informed

This site is developed by a volunteer team, for non-commercial use only. Support our research. We acknowledge Aboriginal and Torres Strait Islander people as the Traditional Custodians of the land and acknowledge and pay respect to their Elders, past and present. We also acknowledge the efforts of doctors, nurses, and other healthcare professionals, in fight against this pandemic. The translation is just a beta version. Please be aware that there may be mistranslations.

<https://covid-19-au.com>



TENT

The Government of Washington

Shoreline COVID-19 facility rapidly built on school soccer field

King County is taking action to prepare for an influx of coronavirus patients. The county is converting a soccer field in Shoreline into a facility for people who've contracted COVID-19. The city of Shoreline originally called it a "temporary field hospital," but King County clarified Thursday that it's ordered no medical equipment for the facility.

<https://www.kiro7.com/news/local/temporary-field-hospital-being-built-shoreline-soccer-field/VC76H2XIWVCTNMRCUFIEWNTPPRA/>



CHARTS

University of Pennsylvania

COVID-19 Hospital Impact Model for Epidemics (CHIME)

CHIME is a modified SIR model of outbreak progression that is limited to short term forecasting. It is only applicable during the period prior to a region's peak infections, and it accounts only for a single significant social distancing policy. Penn Medicine is actively developing BayesCHIME to make use of more data and provide probabilistic forecasts beyond peak infections.

<https://penn-chime.phl.io>

19
Mar

CHARTS

SafeGraph

The Impact of Coronavirus (COVID-19) on Foot Traffic

SafeGraph data provides unique and valuable insights into these changes, particularly foot-traffic to businesses and consumer points-of-interest. At SafeGraph, we are committed to open access to information, so we built this dashboard to share SafeGraph data insights faster (updated daily).

<https://www.safegraph.com/dashboard/covid19-commerce-patterns>

19
Mar

COVID-19 Hospital Impact Model for Epidemics (CHIME)

Notice: CHIME is a modified SIR model of outbreak progression that is limited to short term forecasting. It is only applicable during the period prior to a region's peak infections, and it accounts only for a single significant social distancing policy. Penn Medicine is actively developing [BayesCHIME](#) to make use of more data and provide probabilistic forecasts beyond peak infections.

This tool was developed by [Predictive Healthcare](#) at Penn Medicine to assist hospitals and public health officials with hospital capacity planning. Please read [How to Use CHIME](#) to customize inputs for your region. The Personal Protective Equipment (PPE) Forecasting Calculator was developed collaboratively by the University of Pennsylvania and Penn Medicine.

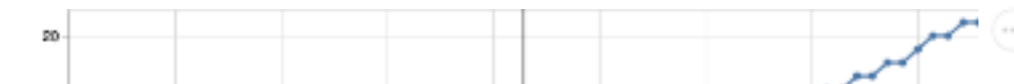
The estimated number of currently infected individuals is **16888**. This is based on current inputs for Hospitalizations (**69**), Hospitalization rate (**2%**), Regional population (**3600000**), and Hospital market share (**15%**).

An initial doubling time of **5.0** days and a recovery time of **10** days imply an R_0 of **2.49** and daily growth rate of **14.87%**.

Mitigation: A 45% reduction in social contact after the onset of the outbreak **reduces the doubling time to 19.2** days, implying an effective R_t of **1.37** and daily growth rate of **3.68%**.

New Admissions

Projected number of **daily** COVID-19 admissions.



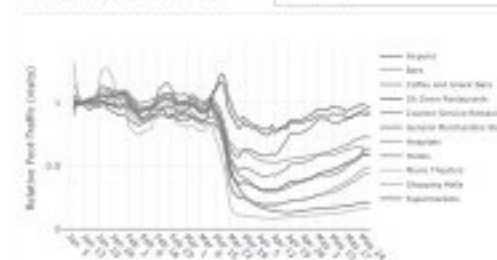
The Impact of Coronavirus (COVID-19) on Foot Traffic

The coronavirus (COVID-19) global pandemic has brought massive, rapid, and ongoing changes to how people interact with their surroundings.

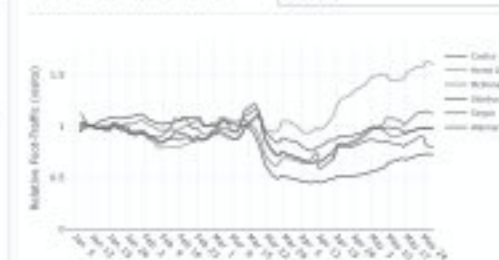
SafeGraph data provides unique and valuable insights into these changes, particularly foot-traffic to businesses and consumer points-of-interest. At SafeGraph, we are committed to open access to information, so we built this dashboard to share SafeGraph data insights faster (updated daily).

Here we show data from recent months on commercial activity (foot traffic trends) compared to the same time period from previous years to share insights into how the ongoing pandemic is impacting the US economy and disrupting daily life.

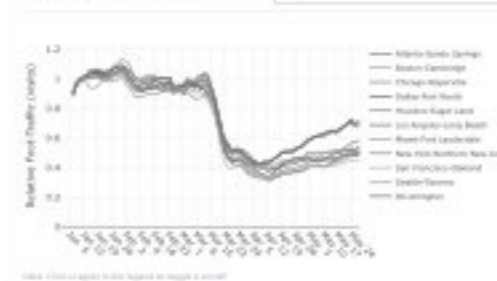
INDUSTRY LEVEL PATTERNS



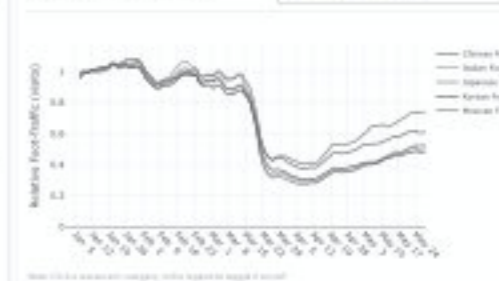
BRAND SPECIFIC PATTERNS



TOP IMPACTED REGIONS



RESTAURANT CATEGORIES



I68

MODELLING EPIDEMICS

SAFEGRAPH

I69

PHOTO

Shahnawaz on reddit**Gallery of Heroes: Doctors and Nurses After Gruelling Shifts Battling COVID-19**

Photos of medical workers after long and gruelling shifts at the hospital have been spreading online as the COVID-19 pandemic grips the world. These doctors, nurses, and all staff working around the clock at hospitals and medical centres around the globe are true heroes and deserve recognition for battling this terrible disease and being on the front lines.

<https://twistedifter.files.wordpress.com/2020/03/doctors-and-nurses-after-gruelling-hospital-shifts-covid19-coronavirus-1.jpg>

19
Mar

I70

MASKS MARKS

OPEN CALL

UCL

Calling data scientists, mathematical modellers and more to help doctors care for critically ill patients with COVID19

We are looking for researchers to help us analyse ICU time series data from COVID19 patient vital signs to help understand the course of disease better in critically ill patients and help the clinical teams caring for these patients. In particular we are hoping to find researchers with experience of advanced data science or mathematical modelling. If you have experience of clinical data sets and / or time series analysis, even better

<https://mailchi.mp/a3de1e5e342b/funding-training-opportunities-vacancies-4820953>

19
Mar**Calling data scientists, mathematical modellers and more to help doctors care for critically ill patients with COVID19**

We are looking for researchers to help us analyse ICU time series data from COVID19 patient vital signs to help understand the course of disease better in critically ill patients and help the clinical teams caring for these patients.

In particular we are hoping to find researchers with **experience of advanced data science or mathematical modelling**. If you have experience of **clinical data sets** and / or **time series analysis**, even better!

Read the [one page description of the project](#) and what we are hoping to do and if you are interested in helping please fill out this expression of interest form as soon as possible (preferably by noon tomorrow (Friday 20th March)

<https://www.surveymonkey.co.uk/r/V5VPB7C>

Depending on level of response, we might not be able to accept all help offered but we will nonetheless be very grateful for the offers. We are hoping to be able to find funding to buy out the time of some post-doctoral researchers and PhD students – please see the attached document for details.

Other Bits

DATA ANALYSIS

I71

SPECIFICATIONS

The Helix Centre

End-of-life Care Toolkits for Carers at Home

The toolkits are created with a Creative Commons licence which allows others to adapt and build upon the toolkit non-commercially, but must also acknowledge the original and be non-commercial. The Helix Centre has a dedicated team working on long-term end-of-life care projects. We've previously co-designed the ReSPECT process and created Amber Care Plans, which aimed to bring advance care planning to the mainstream.

<https://helixcentre.com/project-end-of-life-toolkit>

19
Mar

PARTICIPATION

Beth Crompton

Yorkshire street goes viral on social media after residents post alert cards in windows during coronavirus outbreak

A street in Yorkshire has gone viral on social media - after residents posted red and green alert cards in their windows during the coronavirus outbreak

<https://www.yorkshireeveningpost.co.uk/news/people/yorkshire-street-goes-viral-social-media-after-residents-post-alert-cards-windows-during-coronavirus-outbreak-2502379>

19
Mar

What you can do to practically care for someone who is in their last days and hours of life



It is important to be aware of what to expect and how to make the experience as comfortable as possible.

Communication and environment

When approaching the end of life, people often sleep more than they are awake and may drift in and out of consciousness.

Try to imagine what the person you are caring for would want. Provide familiar sounds and sensations, a favourite blanket for example, or piece of music. Keep the environment calm by not having too many people in the room at once and avoid bright lighting. This can reduce anxiety even when someone is unconscious. Even when they cannot respond, it is important to keep talking to them as they can most probably hear right up until they die.

Feeling sick

Sometimes people can feel nauseated or sick when they are dying.

If vomiting, and unable to sit up, turn the person on their side to protect their airway. There are medicines that can be given to help relieve this.

Moving

The person will require washing at least once a day and regular turning every 2-4 hours to protect their skin from developing pressure sores.

Your health team will advise you on the medications that can help with controlling symptoms experienced at the end of life.

Pain

Some people may be in pain when they are dying. If they are less conscious they may grimace or groan to show this. There are medicines that can be given to ease pain.

Always check their positioning in bed to see if this can also help. They may be too weak to move and this can cause discomfort. Consider if they have any areas that are known to hurt, for example a bad back, and remember this when positioning them.

Going to the toilet

Towards the end of life, a person may lose control of their bladder and bowel. Even though we expect someone to go to the toilet less as they eat and drink less, contact the health care team that is looking after them if they have not passed any urine for 12 hours or more as it can be uncomfortable.

Keep the person comfortable by regularly washing them and changing pads if they are wet or soiled.

Mouth care

While people rarely complain of thirst at the end of life, a dry mouth can be a problem due to breathing mostly through their mouth.



COLLABORATION

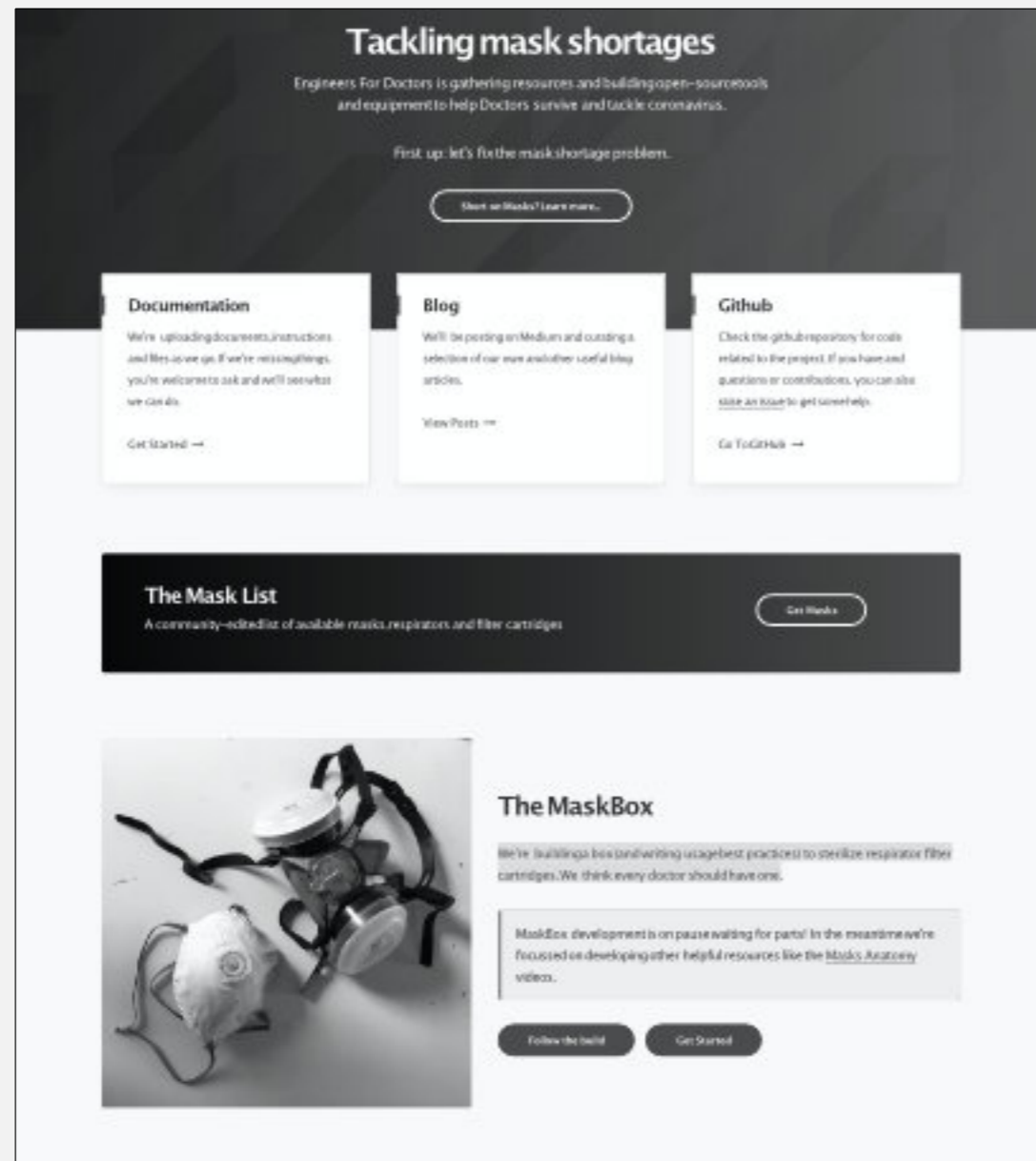
Various

A site for engineers to help healthcare professionals with their PPE

We're building a box (and writing usage best practices) to sterilise respirator filter cartridges. We think every doctor should have one.

<https://www.engineers-for-doctors.org/>

19
Mar



I74

ENGINEERS FOR DOCTORS

SCARF

Virustatic

Virus Protection For You And Your Family

The Virustatic Shield traps and kills over 96% of airborne viruses. Shield yourself and protect others. UK Manufactured.

<https://www.virustaticshield.com/>

19
Mar



VIRUSTATIC

I75

FRAME

Michael Jantzen

Social Distancing Aids

In light of the Coronavirus and the need for varying degrees of social isolation, I have created this series of fantasy photos that suggest how we may be living in the near future, in an attempt to distance ourselves safely from one another. Although somewhat tongue in cheek, some version of my proposal may in fact have a certain degree of inherent practicality. These little structures I call Social Distancing Aids, would be made of lightweight plastic.

<https://archinect.com/michael-jantzen/project/social-distancing-aids>

19
Mar



I76

FRAME DISTANCING

OPEN CALL

Global Grad Show

Global Grad Show calls for student designs that respond to coronavirus

Dubai's Global Grad Show has announced an open call to students for designs that address critical issues resulting from the coronavirus outbreak.

<https://www.dezeen.com/2020/03/20/global-grad-show-student-coronavirus/>

20
Mar



GLOBAL GRADS

I77

ROBOT

UVD Robots ApS

Improved cleaning routine

The UVD Robot is used as part of the regular cleaning cycle, and aims at preventing and reducing the spread of infectious diseases, viral, bacteria, and other types of harmful organic microorganisms in the environment by breaking down their DNA-structure. The robot is safe, reliable and eliminates human error. Furthermore, it is user friendly and is designed to be operated by every-day cleaning staff.

<https://www.bbc.co.uk/news/business-51914722>



APP

Jyan Hong-wei

Taiwan's new 'electronic fence' for quarantines leads wave of virus monitoring

Taiwan, which has won global praise for its effective action against the coronavirus, is rolling out a mobile phone-based "electronic fence" that uses location-tracking to ensure people who are quarantined stay in their homes.

<https://www.reuters.com/article/us-health-coronavirus-taiwan-surveillance/taiwans-new-electronic-fence-for-quarantines-leads-wave-of-virus-monitoring-idUSKBN2170SK>



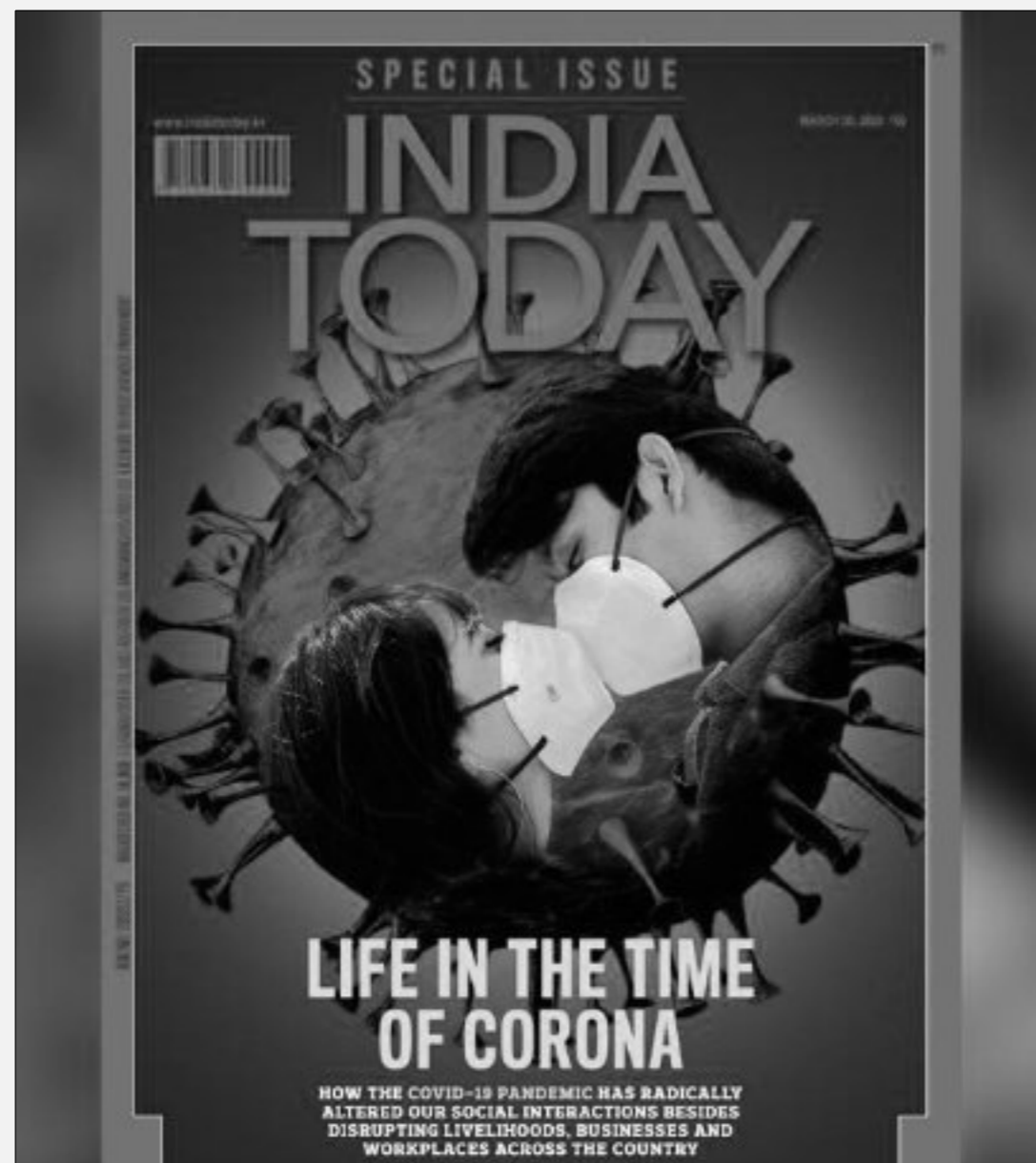
ILLUSTRATION

India Today

Life in the time of corona

As COVID-19 claims its first victims here, India is fighting back to arrest the spread of the deadly virus with public awareness campaigns, social distancing measures, hygiene protocols and more. For now, the battered economy is on the back-burner.

https://akm-img-a-in.tosshub.com/indiatoday/images/story/202003/India-Today-30th-March-2020-C_1-770x433.jpeg?e988bQVCONswp_G8.pN0rCFqDfl.KVPC



LIFE IN CORONA TIMES



PARTICIPATION

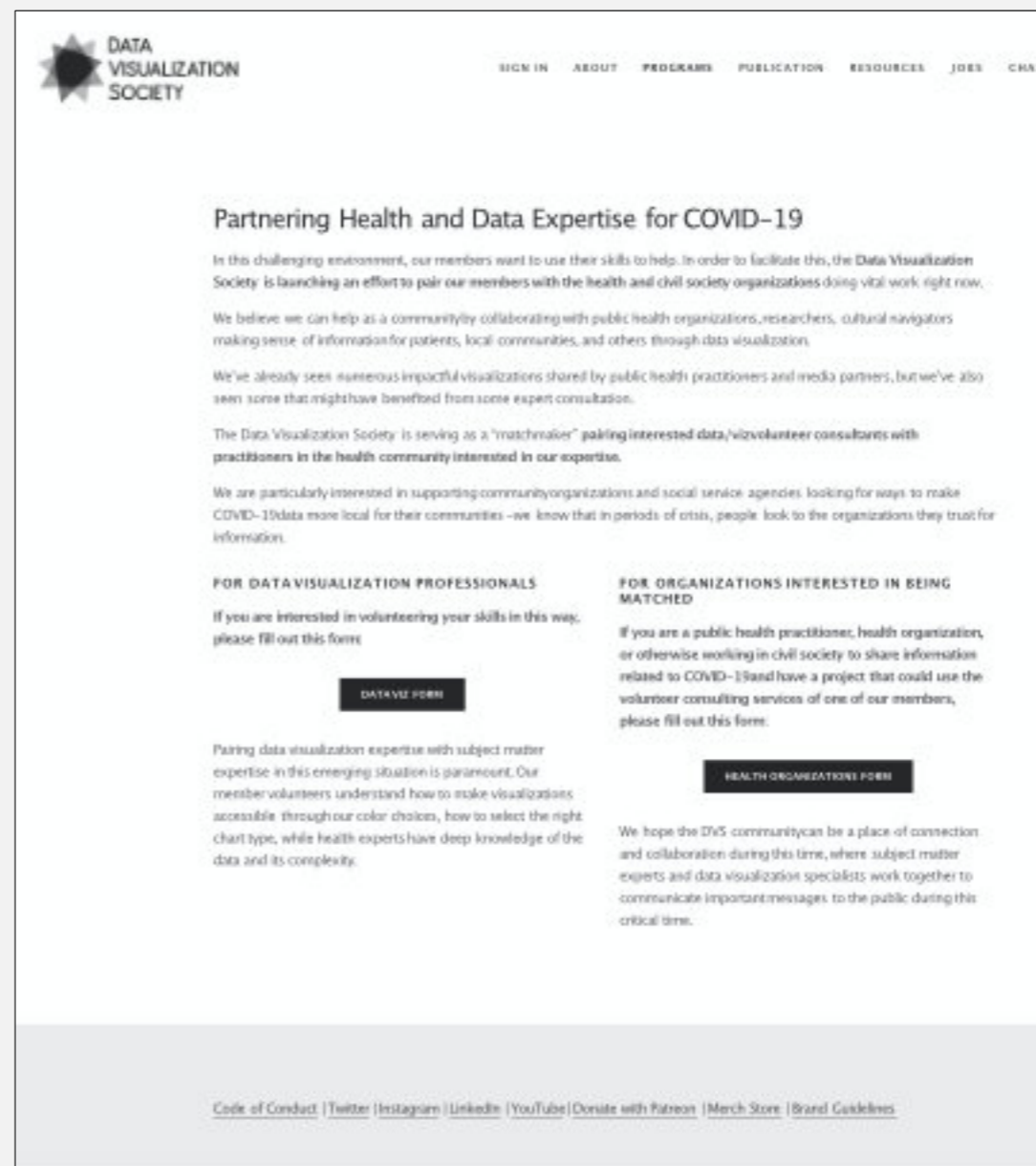
Data Visualisation Society

Partnering Health and Data Expertise for COVID-19

Partnering Health and Data Expertise for COVID-19. In this challenging environment, our members want to use their skills to help. In order to facilitate this, the Data Visualization Society is launching an effort to pair our members with the health and civil society organizations doing vital work right now.

We believe we can help as a community by collaborating with public health organizations, researchers, cultural navigators making sense of information for patients, local communities, and others through data visualization.

<https://www.datavisualizationsociety.com/covid-19>



MATCHMAKER



POSTER

NHS

Back Britain's brave NHS Heroes - add your support now

From the surgeons to the porters, the nurses to the catering staff, the physios to the midwives, and the paramedics to the GPs - these heroes battle adversity each day to help us all when we're at our most vulnerable. From cradle to grave, the NHS, and the incredible professionals who work in hospitals, GP surgeries, clinics, care homes and more, is a part of British life.

https://i2-prod.grimsbytelegraph.co.uk/news/article3968017.ece/ALTERNATES/s810/1_nhs-heroes.jpg



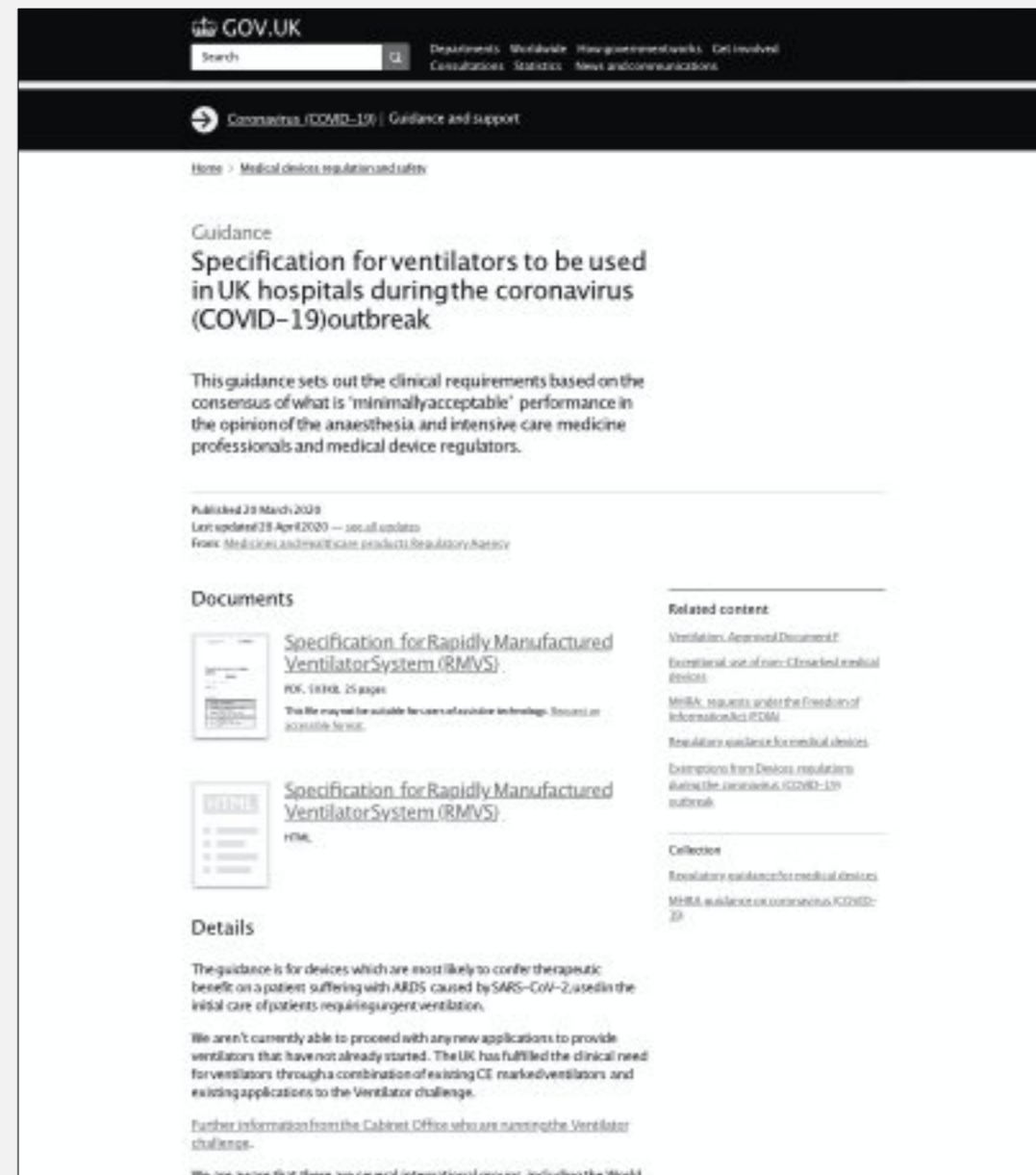
SPECIFICATIONS

The Government of UK

Specification for ventilators to be used in UK hospitals during the coronavirus (COVID-19) outbreak

This guidance sets out the clinical requirements based on the consensus of what is 'minimally acceptable' performance in the opinion of the anaesthesia and intensive care medicine professionals and medical device regulators.

<https://www.gov.uk/government/publications/specification-for-ventilators-to-be-used-in-uk-hospitals-during-the-coronavirus-covid-19-outbreak>



COLLABORATION

Josef Průša

How Prusa is using the world's largest 3D-printing farm to produce medical gear

'I don't intend to hamper the vibe we have now – not by a long shot, but printing respirators might not be the best idea at this time,' comments Josef Průša on the blog post. 'What are the key focus points? first, it's the sealing, then the filter itself, the filter to the mask, and how the mask attaches to the face – it all must be perfect.' He also questions the porosity of the printed parts and the safety concerns that come from that. 'I understand you're trying to help, but PLEASE spread this info into your 3D printing groups.'

<https://www.designboom.com/technology/3d-printing-medical-gear-coronavirus-03-20-2020/>



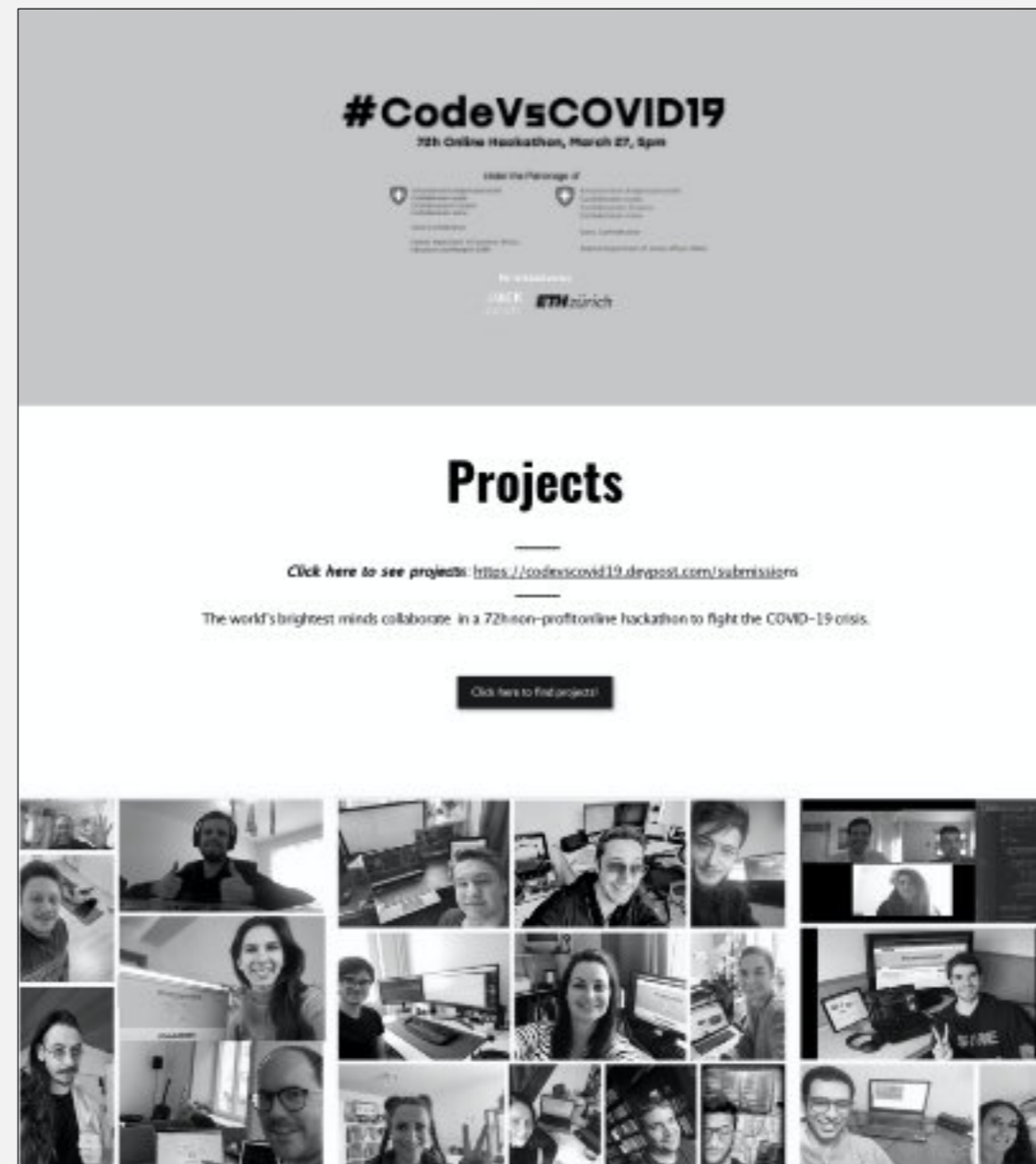
HACKATHON

Various

The world's brightest minds collaborate in a 72h non-profit online hackathon to fight the COVID-19 crisis

HackZurich, with one of the world's largest network of international technology specialists, is able to mobilize a large number of experts within a very short time. A global challenge requires global solutions and therefore needs collaboration between a wide range of different actors. We activate the collaborative brain, knowledge, and capacity of several thousand technology enthusiasts, researchers, creative minds and experts to solve the biggest challenges regarding COVID-19.

<https://www.codevsCOVID19.org/>



INFOGRAPHIC

לארשי האקיא IKEA Israel

Stay Home

Agency Network: McCann. Print advertisement created by McCann, Israel for IKEA, within the categories: House, Garden, Public Interest, NGO.

<https://www.facebook.com/IKEAIL/photos/a.1922156048106044/2565219683799674/?type=3>



ILLUSTRATION

The Guardian

This week: A special version of the magazine dedicated to the global crisis caused by the Coronavirus.

The global crisis caused by the coronavirus outbreak has transformed life as we know it and will continue to do so. With hundreds of thousands of deaths likely and countries across the world in lockdown, the impact of coronavirus is as upsetting to consider as it is mind-boggling to grasp.

<https://www.theguardian.com/news/2020/mar/18/the-race-for-a-cure-inside-the-20-march-edition-of-the-guardian-weekly>



PARTICIPATION

Various

MakerMask: Science-Based Mask Designs for Community Makers

MakerMask is a source for science-based mask designs for community makers to combat the spread of COVID-19, to help protect ourselves and our communities.

<https://www.project-cloth-masks.com/>

20
Mar

MASK

mitsufuji

Japanese textile manufacturer mitsufuji has launched the 'hamon AG mask,' a high-performance mask

Japanese textile manufacturer mitsufuji has launched the 'hamon AG mask,' a high-performance mask that uses unique silver-metalized medical fibres. The extremely durable mask can withstand being washed more than 50 times.

<https://www.designboom.com/design/diy-face-masks-protect-against-coronavirus-04-14-2020/>

20
Mar



CHARTS

Ping Insights

Delivering Business Intelligence for the digital age

An holistic approach to strategy, data analysis and business intelligence guarantees that you're getting the most relevant, actionable insights from your data.

<https://pinginsights.nz/covid-19-cases-in-new-zealand/>

20
Mar

POSTER

@daniel.ramirez.perez

Stay home

Thank you @kadeweofficial for realizing this important campaign with me. I hope we all stay home, stay safe and stay happy. Glad to give some inspiration on how to #staysafe while we roll out this campaign in the next days.

<https://www.instagram.com/p/B99xah-ofJu/>

21
Mar



I90

NZ DASHBOARD

STAY HOME

I91

ILLUSTRATION

tomlefrench

My contribution to the internet in 2020

#ikea #fashionpost #instastyle #fblogger #lookbook #fashionlover #outfitoftheday #corona #pandemic #lookoftheday #fashionable #designer #graphics #covid_19 #decoration #design #creative #artdirector #conceptual #artsy #instaart #hautecouture #bulletproof #fashionstreet #urban #wealthandsafety #mask #tomlefrench #ikeahack #fashionaccessories

https://www.instagram.com/p/B_UOYneKH5F/?igshid=121nzw9z8x6v6

PARTICIPATION

Various

Makers unite is a collaborative emergency manufacturing effort to combat the COVID-19 crisis in Maryland

On March 21, 2020, Open Works put out a call on social media to mobilize 3D printers in Maryland to help manufacture open-source face shields for healthcare workers combatting COVID-19. Five days later, the first face shields were packaged for distribution. This extraordinary, ongoing effort relies on a remarkable crowd-sourced supply chain and strong local partners.

<https://mdmakersunite.org/about>



CHARTS

Unknown

An interactive visualization of the exponential spread of COVID-19

Normalized by population, the data is presented as confirmed cases per 1,000,000 people, based on the country or US state/territory population found on Wikipedia. The visualizations below use the exact same COVID-19 data from Johns Hopkins except that the data is now normalized by dividing by the country or state population.

<http://www.91-divoc.com/pages/covid-visualization/>

21
Mar

DRONES

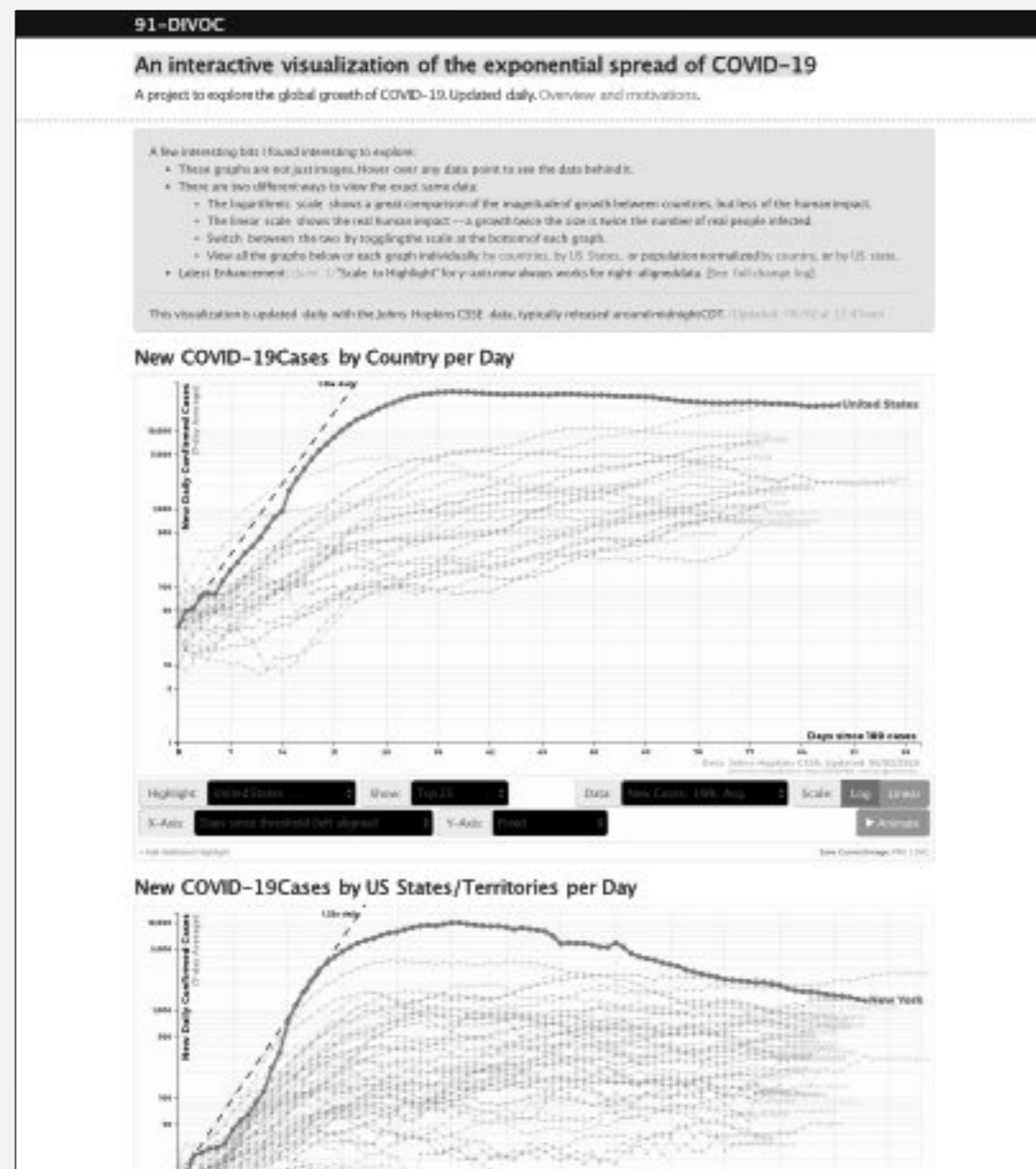
The Government of France

French police deploy drones to enforce coronavirus restrictions

Police in France are using the latest drone technology, as well as helicopters, to ensure that residents are staying indoors during the lockdown to stem the spread of the coronavirus.

<http://www.rfi.fr/en/france/20200322-french-police-deploy-drones-helicopters-to-enforce-coronavirus-restrictions-covid-19-lockdown>

22
Mar



PAVILION

The Government of Spain

The transformation of IFEMA as a provisional hospital

The Community of Madrid has deployed new material and logistical means to deal with the saturation of care in Madrid hospitals due to the health crisis caused by the coronavirus pandemic in the region.

https://elpais.com/elpais/2020/03/22/album/1584868312_266377.html



IFEMA

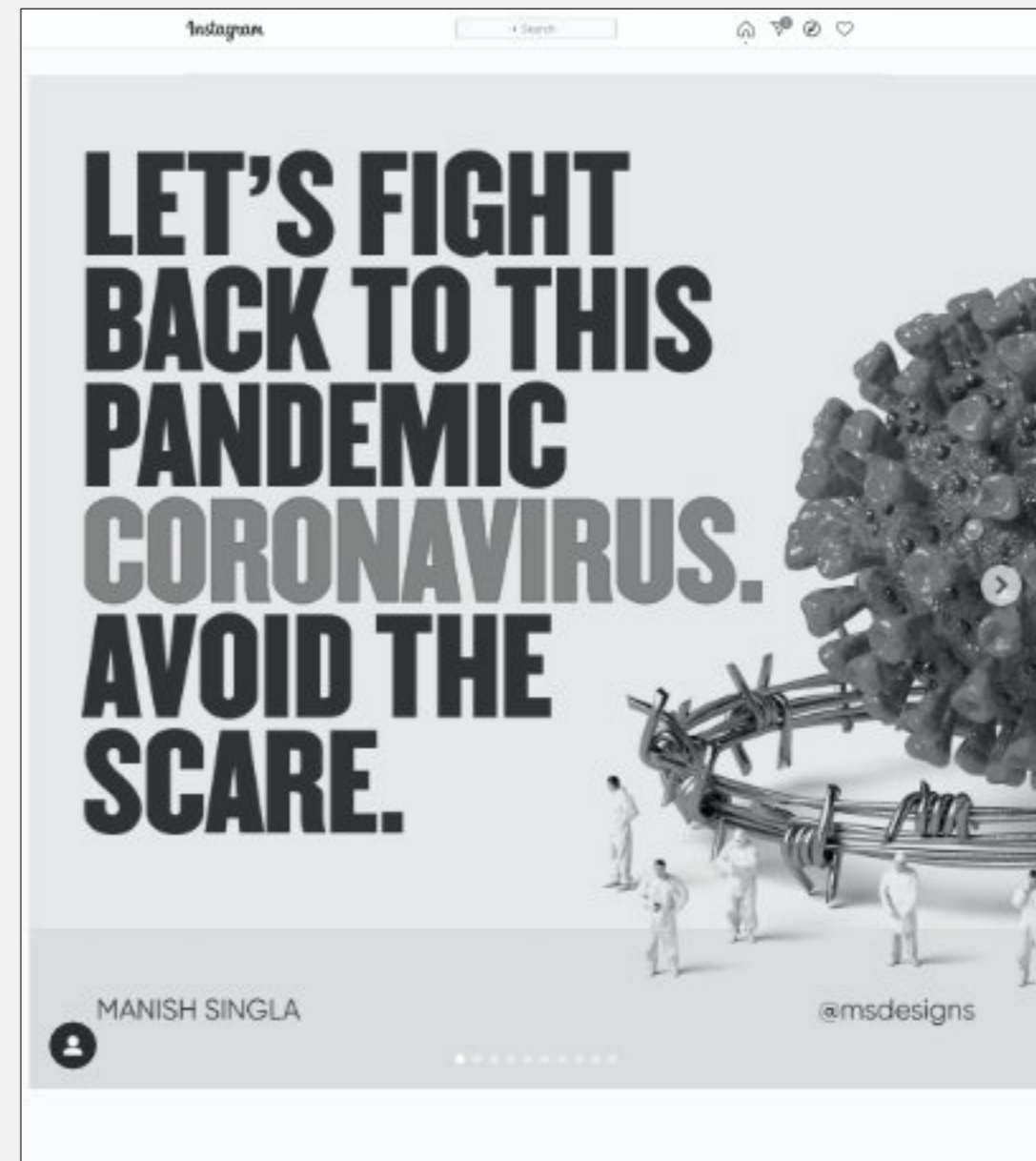
POSTER

Manish Siglar

Let's Fight Back To This Pandemic. Avoid the Scare.

After a spike in coronavirus cases, with everything that's happening about the Coronavirus, it might be very hard to make a decision of what to do today. Should you wait for more information? Do something today? What? One thing you learn in medicine is that we control ship and sail, but never wind and wave. We don't control everything, ever. Bad things happen to good people doing everything right all the time. So, the questions about coronavirus revert to questions about probability. So how can we prevent it? How can we be safe?

<https://www.instagram.com/p/B-Bzggggv8/?igshid=79prvh32ff2n>



LET'S FIGHT BACK

22
Mar

22
Mar

PARTICIPATION

The Government of Kerala

Welcome to Corona Safe Network

CoronaSafe Network is an open-source public utility designed by a multi-disciplinary team of innovators and volunteers who are working on a model to support Government efforts with full understanding and support of Government of Kerala.

<https://coronasafe.network>

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Mar

MASK

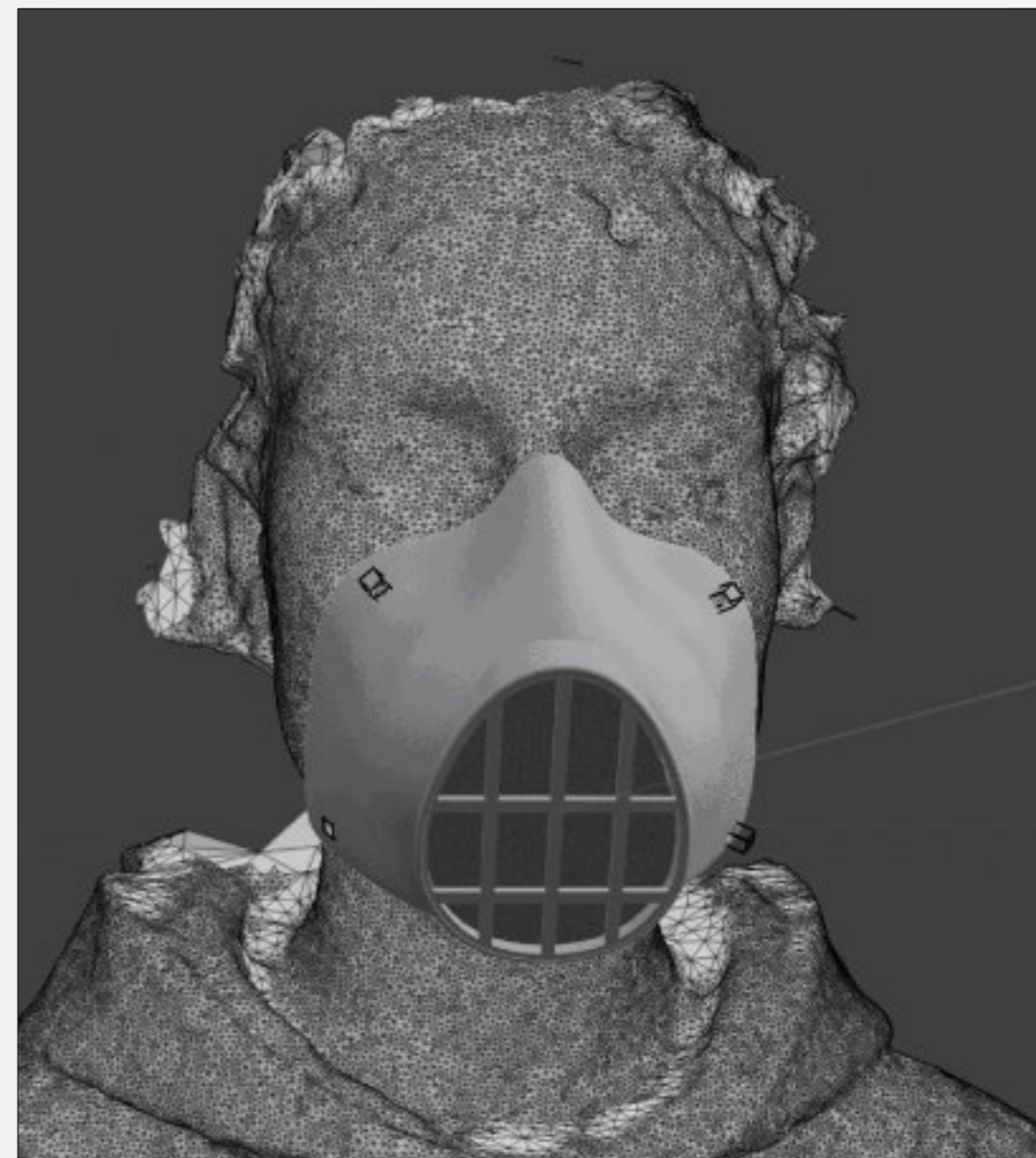
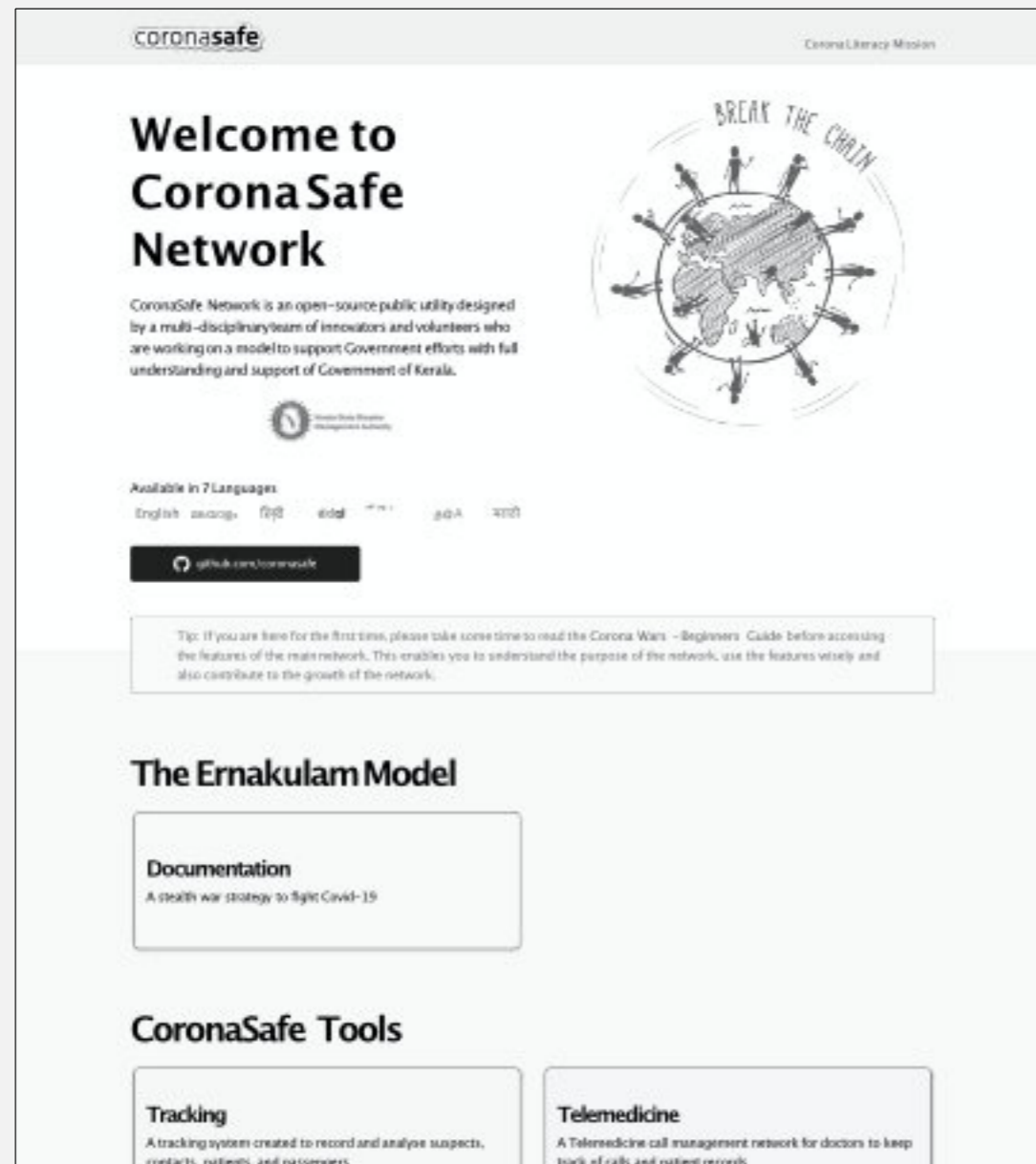
WASP

WASP shares open source processes for production of personalized PPE masks

WASP Research and Development department presented two new open source project: the MY FACE MASK, a personalized PPE mask. These mask have been produced by scanning the user face and 3D printing.

<https://www.3dprintingmedia.network/personalized-ppe-mask/>

22
Mar



Italy

SHIELD

WASP

The positive pressure helmet

It is an air-conditioned personal space, ventilated and protected from any virus: a positive pressure protective helmet. This is My Space, the result of a few days of experimentation that allowed WASP to rapidly move from prototype to production for internal use through the use of AM.

<https://www.3dprintingmedia.network/personalized-ppe-mask/>



Spain

VENTILATOR

Various

Leitat presents first medically validated, industrialized 3D printed emergency respiration device*

The Consortia de la Zona Franca (CZFB) firms have developed the first industrialized field 3D printed respirator to support hospitals and ICUs.

<https://www.3dprintingmedia.network/leitat-presents-first-medically-validated-industrialized-3d-printed-ventilator/>



MASK

@printednest

Italian engineers use 3D printing hack to turn scuba masks into ventilators

We are a team of architects, designers and graphic artists who explore and develop possibilities of 3D printing technology as a way of developing a product which is constantly evolving and being perfected based on errors of previous prototypes, much as living organisms are. Use 100% cotton, or some better fabrics (nano fabrics). This cant protect you as FFP3 respirators, but if you are infected, you will not share it, thank you.

<https://cults3d.com/en/3d-model/tool/covid-19-mask-frame>

22
Mar

VENTILATOR

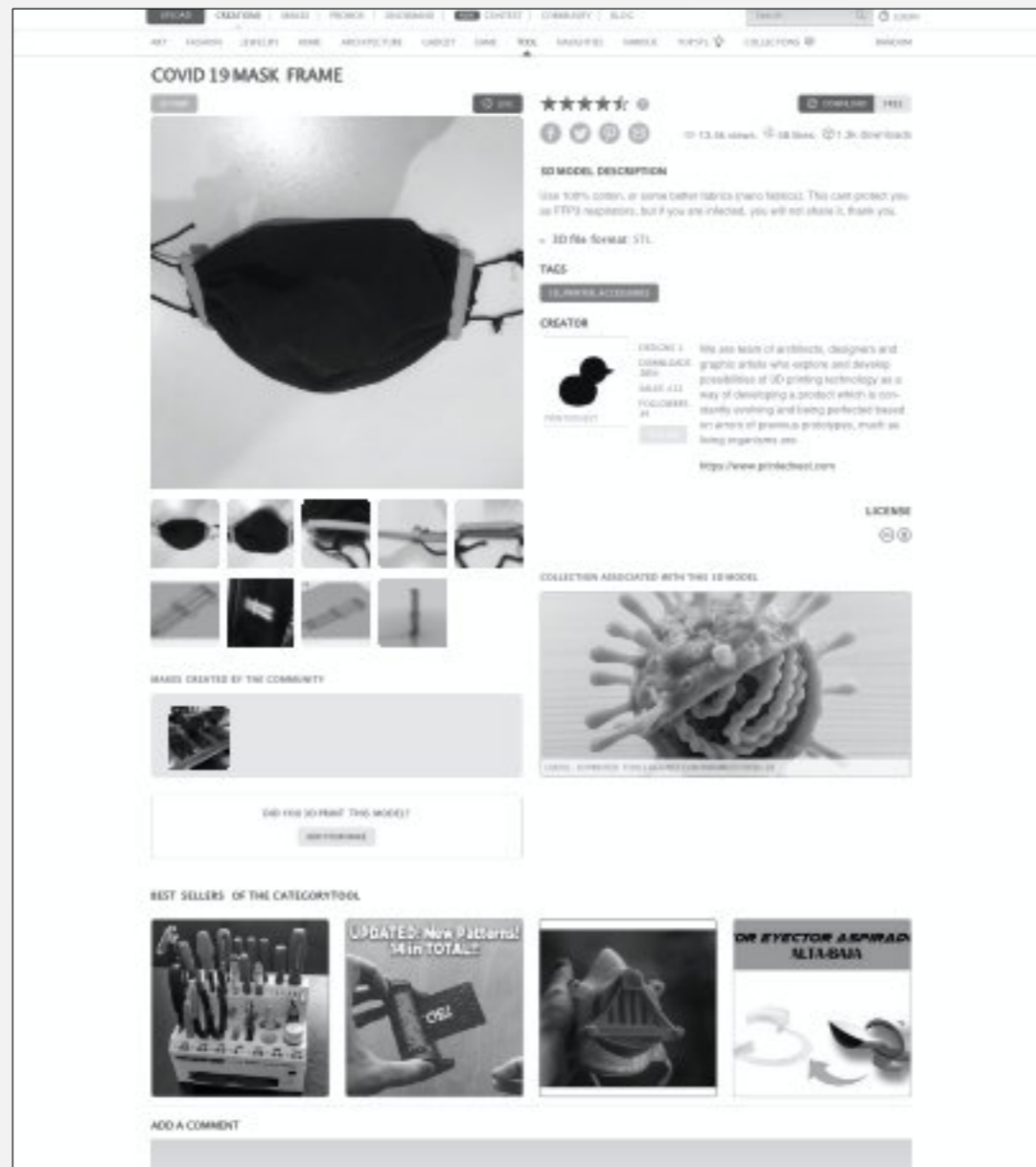
Various

Emergency ventilator for COVID-19 crisis approved by the Spanish medicine agency

A group of Spanish innovators is attempting to alleviate the COVID-19 ventilator crisis by developing an ultra-simple machine that uses a car windscreen-wiper motor to turn a manual resuscitation bag into automated breathing aid. The machine can be made in four hours by an untrained person, using simple materials such as wood, acrylic or aluminium. "You don't need special tools, All you need is a saw,"

<https://oxygen.protofy.xyz>

23
Mar



ANIMATION

@fredericopdg

Don't fucking panic!

#typography #type #posters #poster #design #graphicdesign #creative #layout #inspiration #goodtype #branding #editorial #artdirection #lettering #experimental #illustrationartists

<https://www.instagram.com/p/B-EYJt-BAHX/?igshid=182hwysi64owt>

23
Mar

POSTER

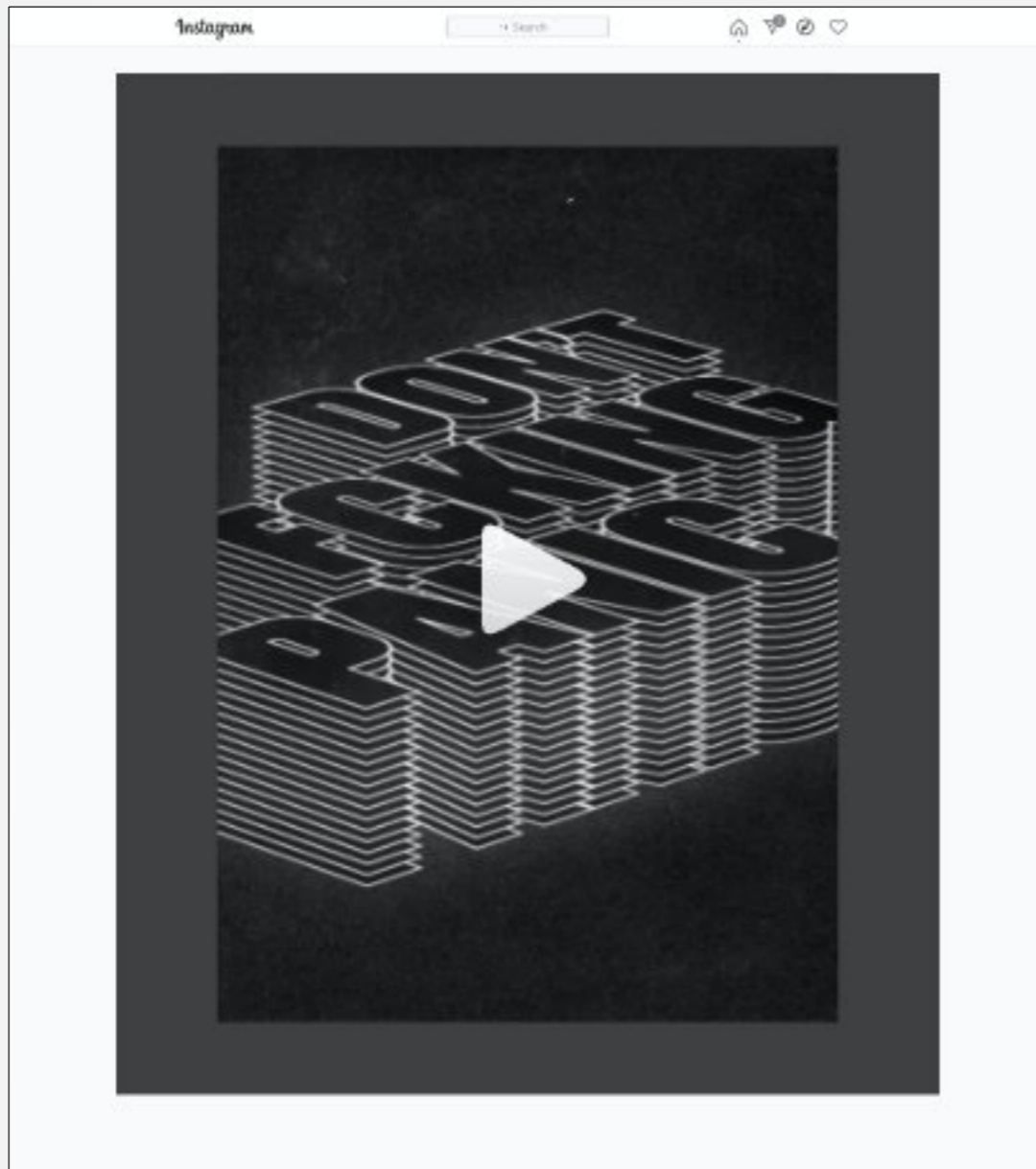
typedirectorsclub

Vir(us)

In these difficult times, we want to do all we can to help our type and design community find the financial, business, and educational resources it needs to pull through. It's just a start, but check out our resource list. Stay safe, and pass it on.

<https://www.instagram.com/p/B-FMva5FuMZ/?igshid=13qhh2cq80v5k>

23
Mar



MAP & CHARTS

Robert Koch-Institut

Robert Koch-Institut: COVID-19-Dashboard

COVID-19 (Coronavirus SARS-CoV-2)

<https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4>

23
Mar



POSTER

CDC - Centre for Disease Control and Prevention

Prevent the spread of COVID-19 if you are sick

If you are sick with COVID-19 or think you might have COVID-19, follow the steps below to help protect other people in your home and community

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/sick-with-2019-nCoV-fact-sheet.pdf>

23
Mar

Prevent the spread of COVID-19 if you are sick

Accessible version: <https://www.cdc.gov/coronavirus/2019-ncov/downloads/sick-with-2019-nCoV-fact-sheet.html>

If you are sick with COVID-19 or think you might have COVID-19, follow the steps below to help protect other people in your home and community.

Stay home except to get medical care

• **Stay home.** Most people with COVID-19 have mild illness and are able to recover at home without medical care. Do not leave your home, except to get medical care. Do not visit public areas.

• **Take care of yourself.** Get rest and stay hydrated.

• **Get medical care when needed.** Call your doctor before you go to their office for care. But, if you have trouble breathing or other concerning symptoms, call 911 for immediate help.

• **Avoid public transportation, ride-sharing, or taxis.**

Separate yourself from other people and pets in your home

• **As much as possible, stay in a specific room and away from other people and pets in your home.** Also, you should use a separate bathroom, if available. If you need to be around other people or animals in or outside of the home, wear a cloth face covering.

• **See COVID-19 and Animals if you have questions about pets:** <https://www.cdc.gov/coronavirus/2019-ncov/animals.html>

Monitor your symptoms

• **Common symptoms of COVID-19 include fever and cough.** Trouble breathing is a more serious symptom that means you should get medical attention.

• **Follow care instructions from your healthcare provider and local health department.** Your local health authorities will give instructions on checking your symptoms and reporting information.

If you develop emergency warning signs for COVID-19 get medical attention immediately.

Emergency warning signs include*:

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion or not able to be woken
- Bluish lips or face

*This list is not all inclusive. Please consult your medical provider for any other symptoms that are severe or concerning to you.

Call 911 if you have a medical emergency. If you have a medical emergency and need to call 911, notify the operator that you have or think you might have COVID-19. If possible, put on a face mask before medical help arrives.

Call ahead before visiting your doctor

• **Call ahead.** Many medical visits for routine care are being postponed or done by phone or telemedicine.

• **If you have a medical appointment that cannot be postponed, call your doctor ahead.** This will help the office protect themselves and other patients.

If you are sick, wear a cloth covering over your nose and mouth

• **You should wear a cloth face covering over your nose and mouth** if you must be around other people or animals, including pets (even at home).

• You don't need to wear the cloth face covering if you are alone. If you can't put on a cloth face covering (because of trouble breathing for example), cover your coughs and sneezes in some other way. Try to stay at least 6 feet away from other people. This will help protect the people around you.

Note: During the COVID-19 pandemic, medical grade facemasks are reserved for healthcare workers and some first responders. You may need to make a cloth face covering using a scarf or bandana.

TENT

The Government of Sweden

Gothenburg, Sweden

Military personnel prepare a field hospital at the Ostra Sjukhuset hospital area in Gothenburg, Sweden. The field hospital with 20 intensive care units, will meet an expected increase in people infected by the coronavirus disease (COVID-19).

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



23
Mar

208

GOTHENBURG

PAVILION

The Government of Portugal

A field hospital set up in the high performance badminton centre

A field hospital set up in the high performance badminton centre, in Caldas da Rainha, Portugal, March 23, 2020.

https://s.abcnews.com/images/International/portugal-field-hospital-sh-ps-200403_hpEmbed_3x2_992.jpg



23
Mar

CALDAS DA RAINHA

209

PARTICIPATION

Danielle Baskin and Max Hawkins

Talk on the phone with someone else stuck at home.

Once you sign up and choose your language preferences, you'll be subscribed to periodic calls. Your caller ID will always say "QuarantineChat" when your phone rings.

After a brief moment on hold, you'll match with another random person. You don't have to pick up if you're busy—your partner will be automatically matched with someone else. And you can join and leave the line whenever you like.

<https://quarantinechat.com>

23
Mar

HACKATHON

Various

Hack Quarantine • A global, virtual hackathon

SA fully-online, people-focused hackathon bringing people together to use their skills to help combat the issues the world is facing with the COVID-19 pandemic.

By working with medical professionals and industry, we'll provide the knowledge and tools to empower hackers to work towards around improving health, remote working and helping vulnerable populations.

<https://hackquarantine.com>

23
Mar



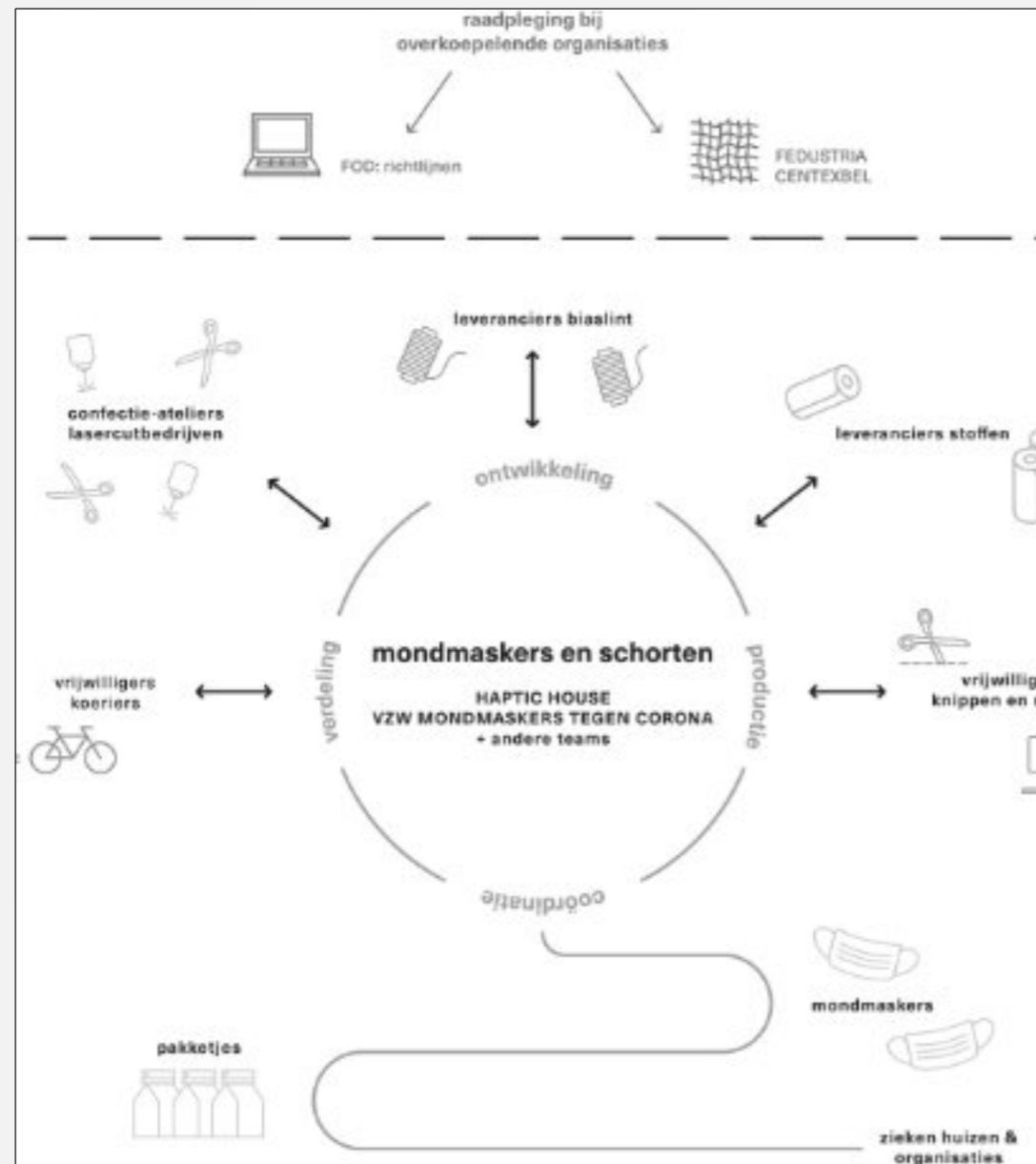
PARTICIPATION

Dries Verbruggen et al.

Creatives unite their network & skills in the fight against corona

Creatives against Corona, CtC for short, developed simple patterns for mouth masks, protective suits and aprons in close collaboration with healthcare providers and emergency services. CtC also makes and distributes ready-made packages to make this protective material itself in the Antwerp region, and coordinates the scaled-up production of finished products via clothing companies. Already 100,000 pieces of finished material have been distributed to healthcare providers in this way.

<https://creativestegen corona.be/gallery>



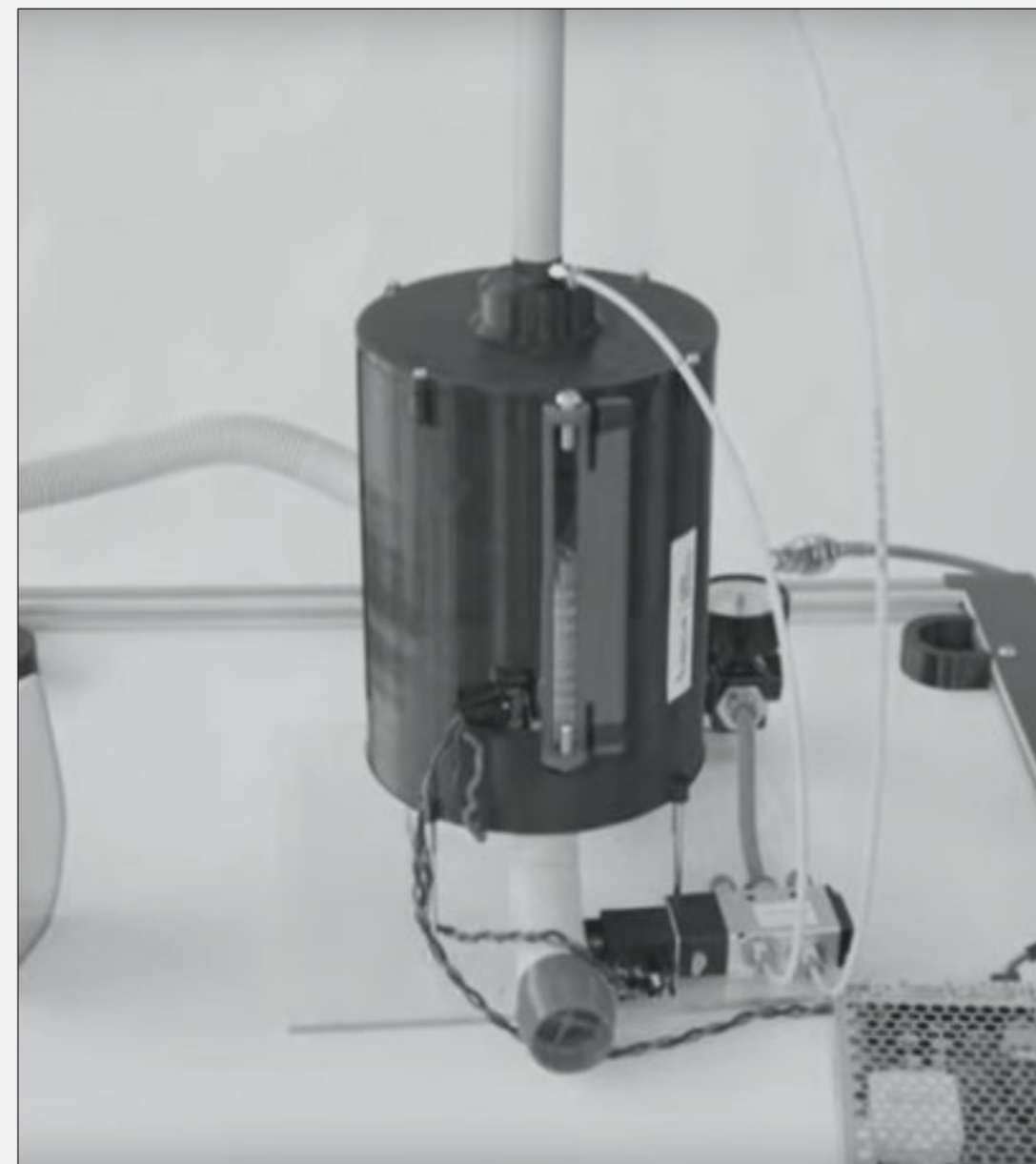
VENTILATOR

Urbicum

Poland-based VentilAid project 3D prints open-source ventilator

Engineers and designers from Poland-based Urbicum have banded together to launch the VentilAid project, an effort to design an open-source ventilator which can be reproduced using a 3D printer and an assembly of basic, easily accessible parts. The open-source ventilator is being designed to help medical professionals in the fight against the coronavirus pandemic in cases where more traditional hospital resources are limited or exhausted.

<https://www.3dprintingmedia.network/poland-ventilaid-open-source-3d-printed-ventilator/>



PARTICIPATION

The Government of Germany

CivicTechHub

We connect international grass-root movements bringing together technology and civic resources to mobilise crowd-sourced innovation and join forces worldwide to speed up impact.

<https://civictechhub.netlify.com/>

23
Mar

MASK

CREAEVO3D

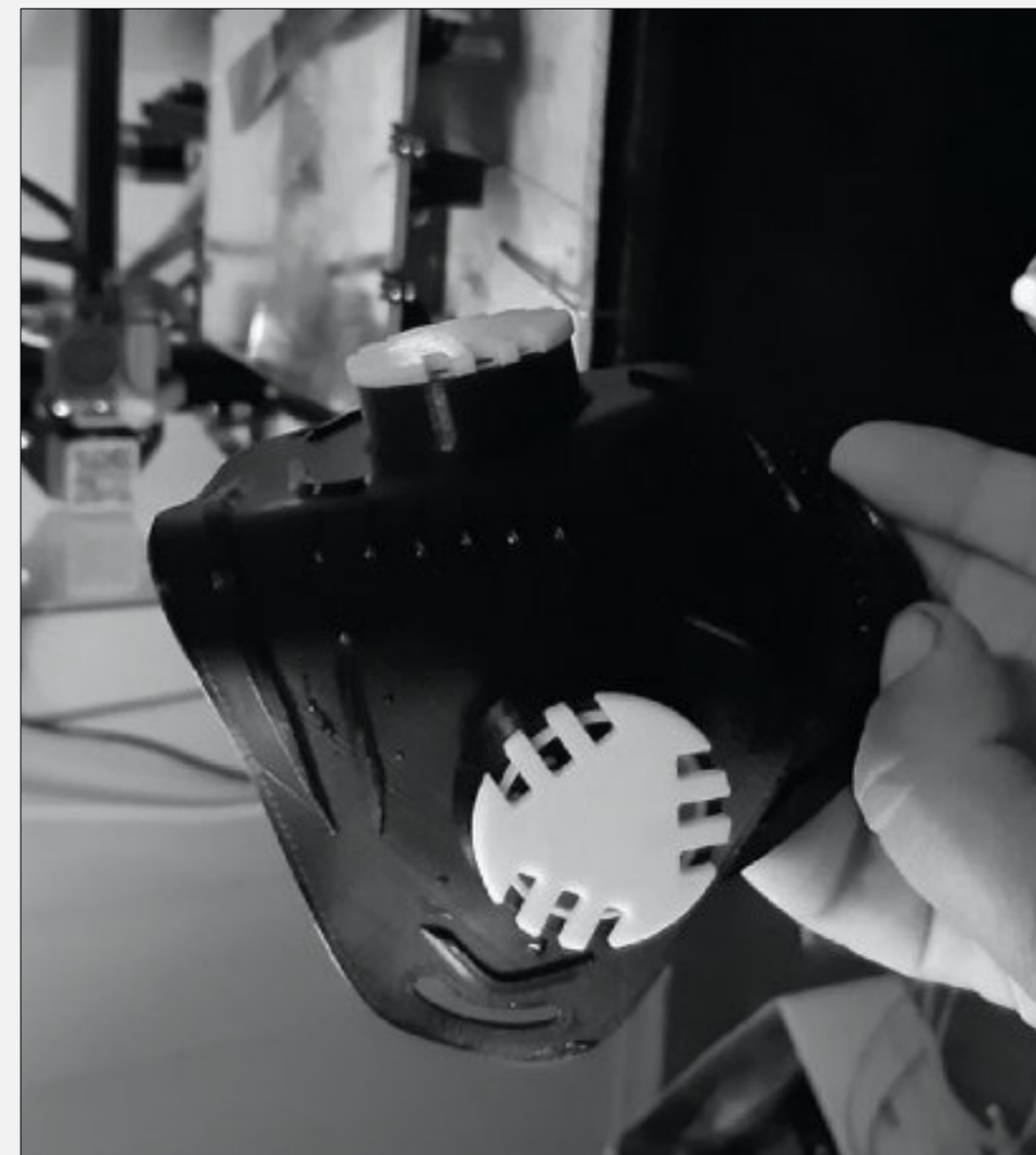
MASK COVID-19

I'm also making my prototype mask to combat this plague. The ideal for this print is a type of anti-bacterial filament that makes copper 3d. The idea is that they have a good adherence to the bed and a low speed so that the quality is more than excellent. I recommend washing the mask every time you can warm water is recommended to mould it to the face. To mould or adjust it more to the face it is recommended to heat in warm water. Recommends that for adults, a 110% scale should be used in the cure.

<https://www.opensourcemask.com/en/download1/item/44-mask-covid-19.html>

23
Mar

The screenshot shows the CivicTechHub website interface. At the top, there is a search bar and the CivicTechHub logo. Below this is a section titled 'Choose your country' with a grid of buttons for various countries, each with a flag icon and the number of groups available. The countries listed are: Australia (1 group), Belgium (2 groups), Belarus (1 group), Canada (2 groups), Colombia (1 group), China (1 group), Czech Republic (1 group), Estonia (1 group), Finland (1 group), France (1 group), Germany (1 group), Hong Kong (1 group), India (1 group), Italy (1 group), Latvia (1 group), Lithuania (1 group), Mexico (1 group), Moldova (1 group), Netherlands (2 groups), Poland (2 groups), Portugal (1 group), Romania (1 group), Spain (2 groups), Sweden (1 group), Taiwan (1 group), Tunisia (1 group), United Kingdom (2 groups), Ukraine (2 groups), and United States of America (4 groups). Below the grid, there is a section for the 'WIRVSVIRUS' project, which includes a logo and a brief description: 'CivicTechHub indexes and lists initiatives from more than 29 countries to create visibility of social projects and activities like Covid-19 crisis-inspired hackathon #WirVirus, government initiatives and local exchange groups.' There is also a 'Find us on' section with links to GitHub, Instagram, YouTube, Slack, Twitter, and Devpost.



Hong Kong

WEARABLE

The Government of Hong kong

Electronic wristband quarantine tracker

A passenger wears an electronic wristband upon arrival at Hong Kong International Airport, following the novel coronavirus disease (Covid-19) outbreak, Hong Kong, China. Some Hong Kong residents returning from overseas have found they can't register with the app that's meant to track their movements via their mobile phone, meaning authorities have no information on their whereabouts during the mandatory 14-day self-quarantine period

<https://www.thestar.com.my/tech/tech-news/2020/03/24/covid-19-hong-kongs-faulty-wristbands-allow-quarantined-to-wander-free>



216

WRISTBAND

Italy

PODS

Carlo Ratti

Carlo Ratti Associati designs shipping-container intensive care units for coronavirus treatment

Italian architects Carlo Ratti and Italo Rota have designed an intensive-care pod within a shipping container that could be added to hospitals fighting the coronavirus pandemic. Named Connected Units for Respiratory Ailments – or CURA, which is the latin word for cure – the intensive care unit (ICU) pods have been designed to increase the country's intensive care capacity."The aim is that they can be quickly deployed in cities around the world, promptly responding to the shortage of ICU space in hospitals and the spread of the disease," explained the CURA team.

<https://www.dezeen.com/2020/03/24/shipping-container-intensive-care-units-coronavirus-covid-19-carlo-ratti/>

**CURA**

217

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Mar24
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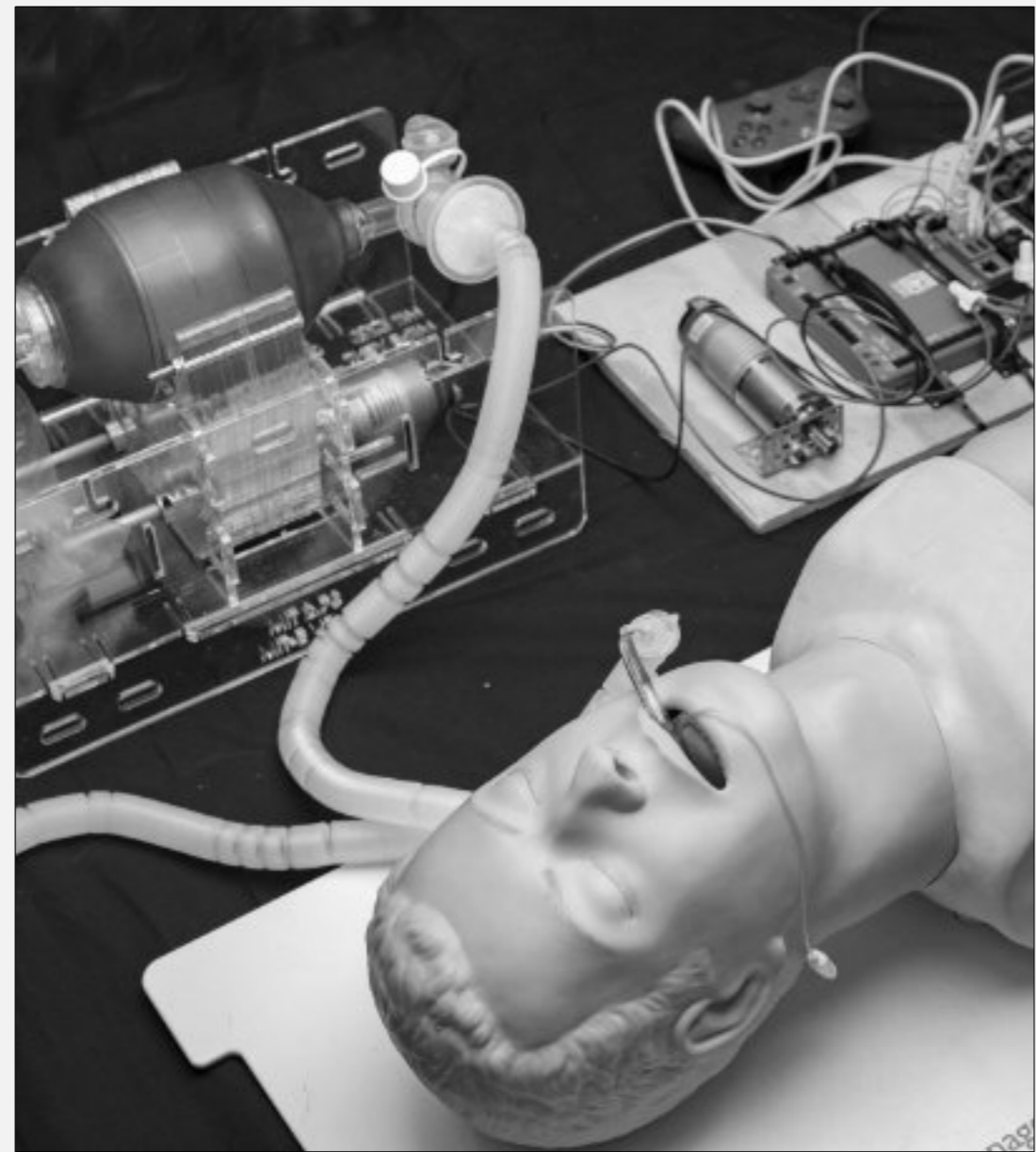
VENTILATOR

MIT

MIT emergency ventilator E-Vent project is ready

The project was carried out by one of several teams who recognized the challenges faced by Italian physicians and are working to find a solution to the anticipated global lack of ventilators. In the US alone, the COVID-19 pandemic may cause ventilator shortages on the order of 300,000-700,000 units (CDC Pandemic Response Plans). An increase in conventional ventilator production is very likely to fall short and with a significant associated cost.

<https://www.3dprintingmedia.network/mit-emergency-ventilator-e-vent-project-is-ready/>



HACKATHON

WHO

#BuildforCOVID19 Global Online Hackathon

The COVID-19 Global Hackathon is an opportunity for developers to build software solutions that drive social impact, with the aim of tackling some of the challenges related to the current coronavirus (COVID-19) pandemic. We're encouraging YOU - innovators around the world - to #BuildforCOVID19 using technologies of your choice across a range of suggested themes and challenge areas - some of which have been sourced through health partners including the World Health Organization and scientists at the Chan Zuckerberg Biohub

<https://covid-global-hackathon.devpost.com>



PARTICIPATION

Prof Liang Hao

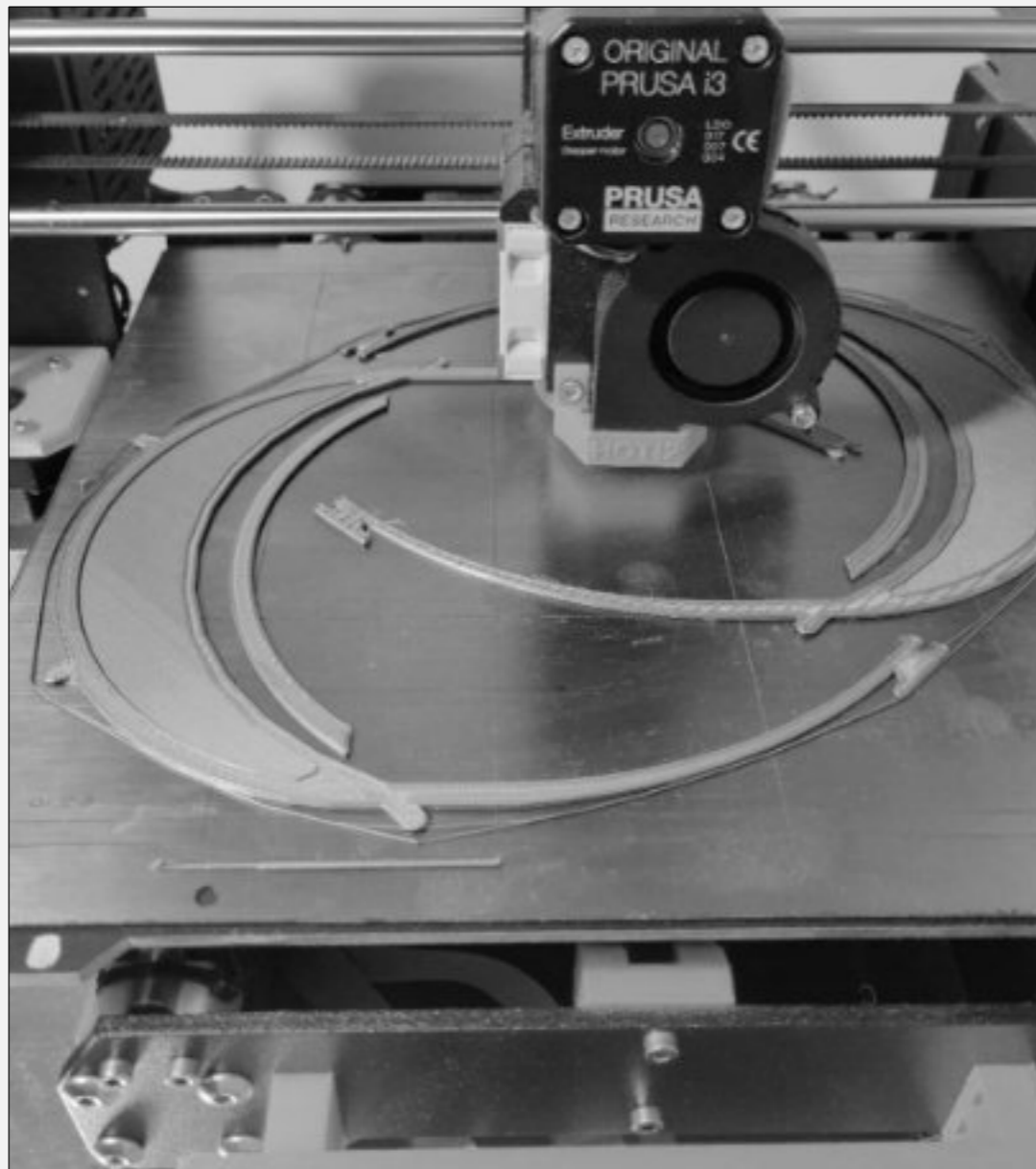
Face shields co-produced to help hospitals and care homes

The 25th March 2020 saw our call for collaboration between designers and 3D printing companies' to combat COVID-19.

Using shared design files and a multidisciplinary remote collaboration network, we have piloted a project of 3D printing face shields, and within 10 days were able to send small batches to local hospitals and care homes in Cambridge, Birmingham, and Glasgow in the UK.

<http://www.inclusivedesign.org.cn/en/news/face-shields-co-produced-to-help-hospitals-and-care-homes/>

25
Mar



DOORS OPENER

Ivo Tedbury and Freddie Hong

Architectural designers develop hands-free door handle to prevent spread of coronavirus

Architectural designers Ivo Tedbury and Freddie Hong have created a 3D-printed device that adapts door handles for hands-free opening, in a bid to help prevent the spread of coronavirus. Tedbury and Hong, who met while studying architecture at the Bartlett School of Architecture, designed a curved plastic device that attaches onto "fire escape-style" pull door handles via a pair of cable ties. The idea is that instead of opening the door with their hands, users loop their arm through the adaptor and pull the door open.

<https://www.dezeen.com/2020/03/25/hands-free-door-handle-coronavirus-ivo-tedbury-freddie-hong/>

25
Mar



ILLUSTRATION

@Weare.afterhours

Stal high home

Brisbane-based duo @weare.afterhours are helping out the hospitality industry with free personalised social media posts to help promote their takeaway offerings. Putting their incredible illustration & design skills to good use.

<https://www.instagram.com/p/B-JxMT1g45x/>

25
Mar



222 STAY HIGH HOME

ILLUSTRATION

The Guardian

The new isolation: inside the 27 March edition of the Guardian Weekly

As a fifth of the world's population is told to shelter indoors – we look at the new reality of life under the menace of coronavirus.

<https://www.theguardian.com/news/2020/mar/25/the-new-isolation-inside-the-27-march-edition-of-the-guardian-weekly>

25
Mar



THE NEW ISOLATION

ILLUSTRATION

@oioi.gg

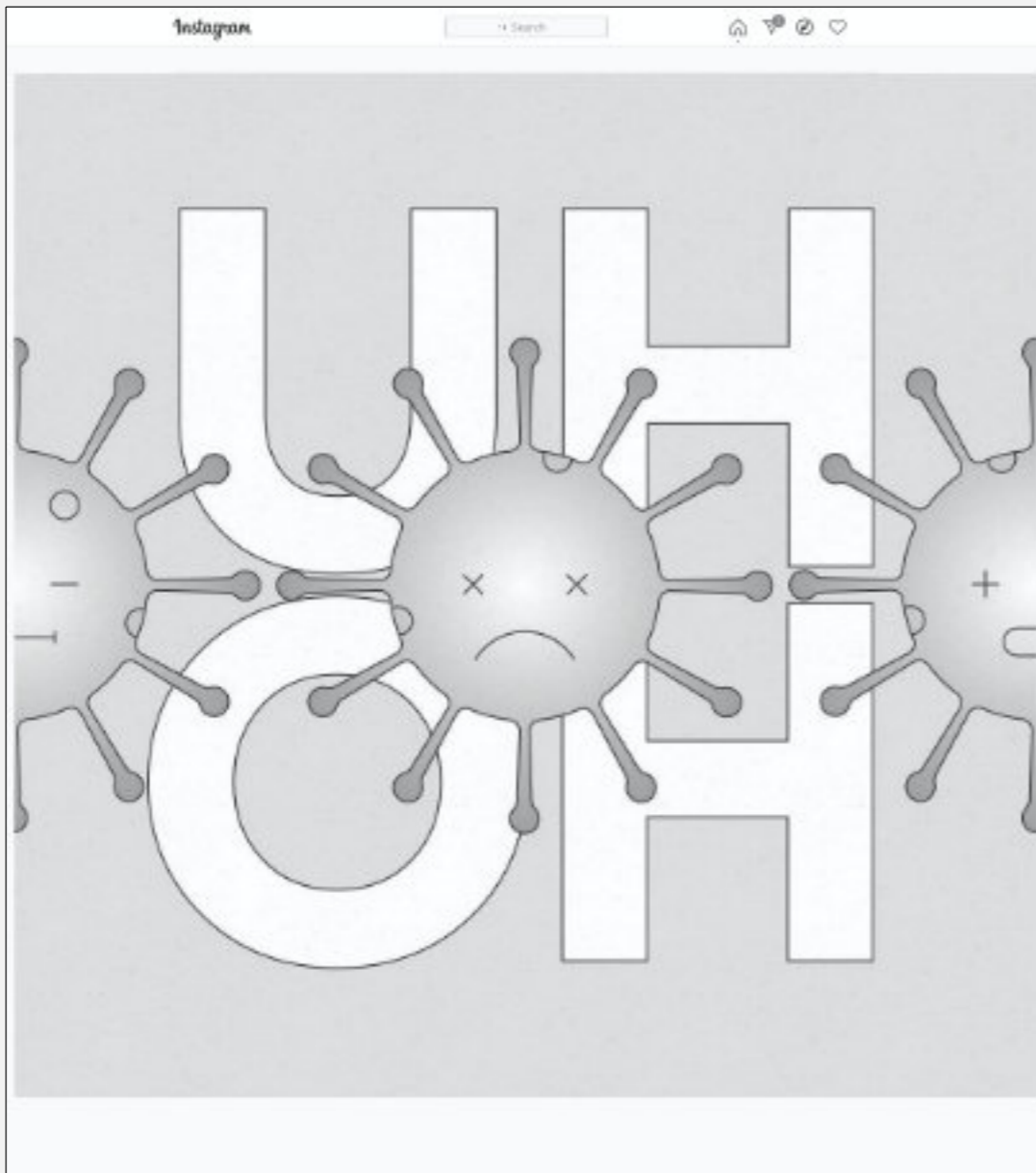
Hay corona!

A lot of us are in disbelief, but It's been reassuring seeing our industry visualise their feelings around the crisis right now, like this from @oioi.gg ☺

#covid_19 #nhs #fruitsartclub #thedesigntip #ballpitmag #ossomagazine #socfeature #pawngraphic #citysodaclub #dkpeepshow #itsnicethat #aigaeyeondesign #hypebeastart #thedesignblacklist #generalelectics #popyacolour #colorlovers #acolorstory #howihue

<https://www.instagram.com/p/B-JNFlvoYBT/?igshid=cvww7xfkcti>

25
Mar



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UH OH

DATABASE

Gov Lab NYU

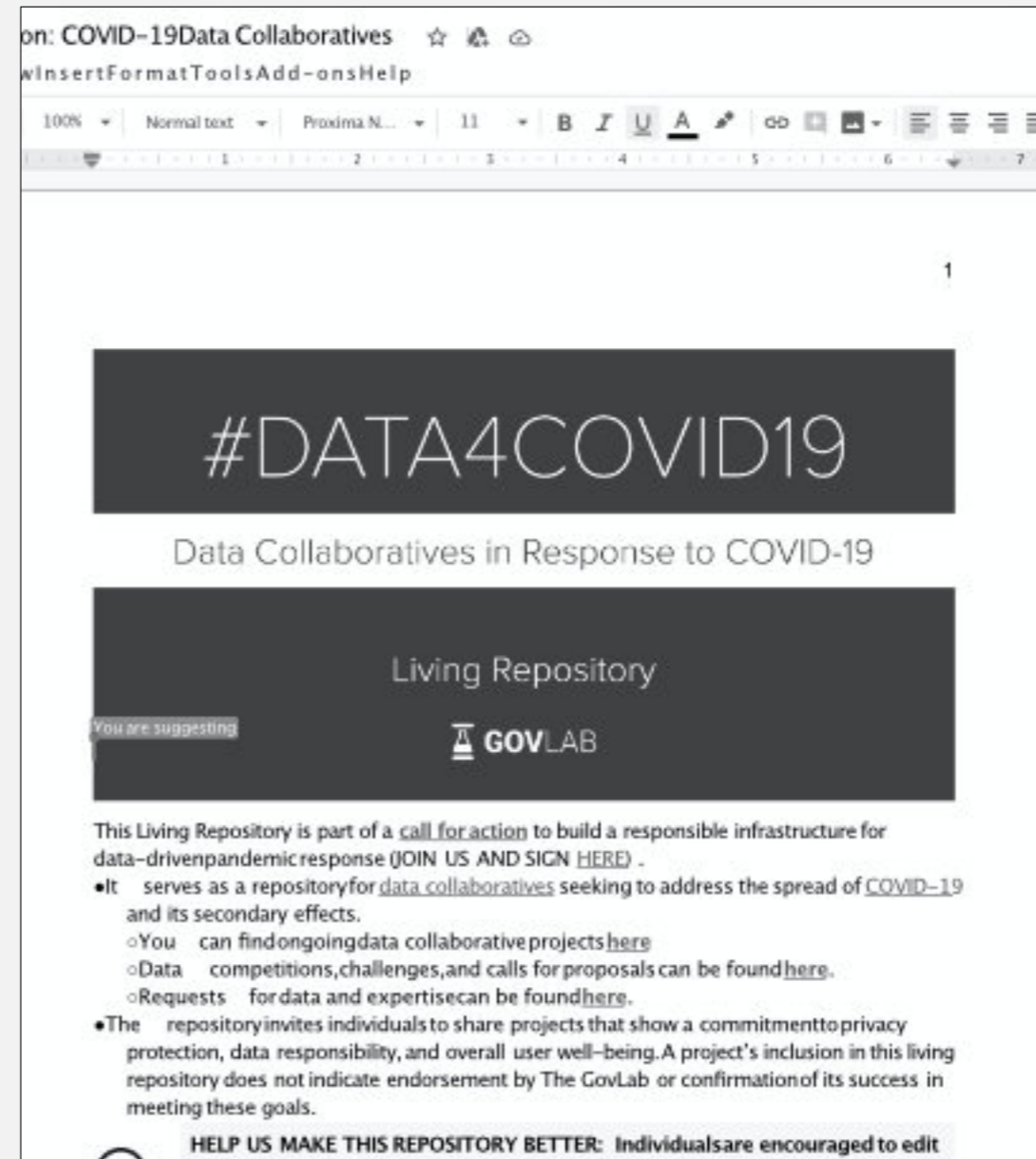
Help us make this repository better

This Living Repository is part of a call for action to build a responsible infrastructure for data-driven pandemic response.

It serves as a repository for data collaboratives seeking to address the spread of COVID-19 and its secondary effects.

https://docs.google.com/document/d/1JWeD1AaGKMPry_EN8GjlqwX4J4KLQIAqP09exZ-ENI/edit

25
Mar



LIVING REPOSITORY

225

PROJECTS

uMap

uMap against coronavirus

uMap lets you create maps with OpenStreetMap layers in a minute and embed them in your site.

<https://umap.openstreetmap.fr/en/>

25
Mar

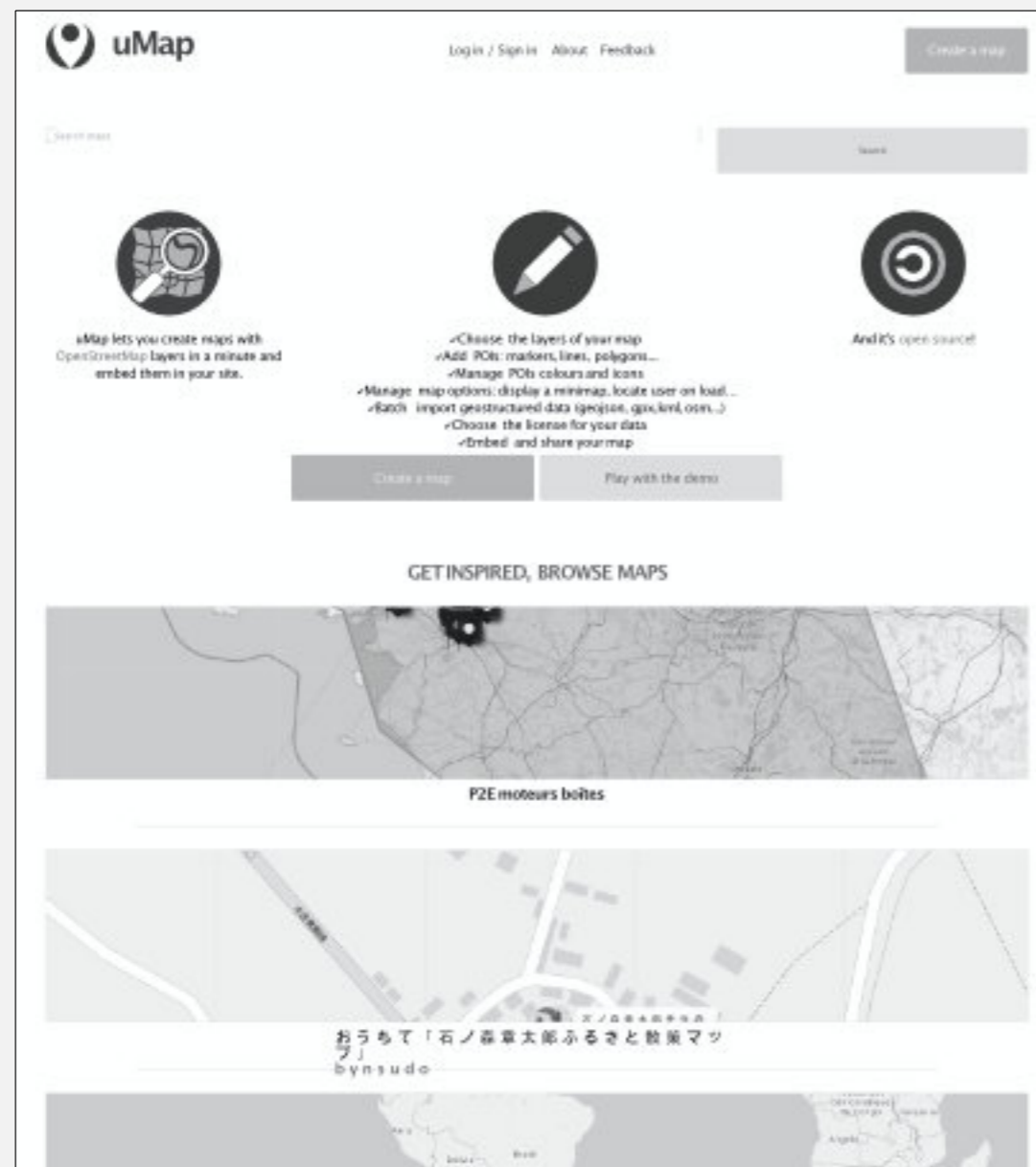
OPEN CALL

WDO

designers wanted for covid-19 project

In an urgent effort to mobilize the global design community to address the COVID-19 pandemic, the World Design Organization (WDO) is calling on all available designers to commit to an initiative that will propose design-led solutions to a number of pressing challenges that are affecting us all.

<https://good-design.org/designers-for-covid-19/>

25
Mar

226

uMAP



DESIGNERS WANTED

227

PARTICIPATION

Various

3DCovid19.tech gathers 200 AM entities providing 3D printed parts to 11 hospitals in Spain

After Italy, Spain has been the hardest-hit country in Europe by the COVID-19 outbreak and the situation in Hospitals and intensive care units is rapidly getting worse. Given the growing demand for medical equipment from healthcare institutions across the country, the 3DCovid19.tech digital and non-profit platform has been able to collect orders from 11 hospital centres in Barcelona, Madrid, Castilla La Mancha and Andalusia in less than 24 hours.

<https://www.3dprintingmedia.network/3dcovid19-tech-gathers-200-am-entities-to-provide-3d-printing-support-to-11-hospitals-in-spain/>

25
Mar



3DCovid19.tech
Impresión 3D para salvar vidas

228

3DCOVID19.TECH

VENTILATOR

Ford, 3M and GM

Ford partners with 3M to produce respirators as coronavirus spread creates shortage

The motor company is working with 3M to increase the manufacturing capacity of their powered air-purifying respirator (PAPR) designs and working jointly to develop a new design leveraging parts from both companies to meet the surge demand for first responders and health care workers. In addition, Ford and GE healthcare are working together to expand production of a simplified version of its existing ventilator design.

<https://www.designboom.com/technology/tesla-gm-ford-make-ventilators-shortages-coronavirus-03-19-2020/>

25
Mar



FORD, 3M AND GM

229

MAP

Various

EpiRisk

EpiRisk is a computational platform designed to allow a quick estimate of the probability of exporting infected individuals from sites affected by a disease outbreak to other areas in the world through the airline transportation network and the daily commuting patterns. It also lets the user to explore the effects of potential restrictions applied to airline traffic and commuting flows.

<http://epirisk.net/>

25
Mar

PAVILION

MoD and NHS

Excel Centre 4,000 bed Nightingale hospital as London prepares for coronavirus 'tsunami'

The Ministry of Defence and the NHS are working together to create the new hospital from scratch to accommodate rising numbers of Covid-19 patients. The exhibition centre in East London will become the NHS Nightingale Hospital, with ventilators and oxygen at every bedside and should be up and running by Saturday, April 4. Military medics will also be working to treat patients on the site.

<https://www.dailymail.co.uk/news/article-8150745/MoD-NHS-start-work-transforming-Londons-ExCel-Centre-5-000-bed-hospital.html>

25
Mar

Display top 10 connections

EpiRisk

City Country

Infected entities
 ⚠ No sources yet. Click on the map or
 Add a source entity

Number of infected individuals
 Unknown

Month of travel
 January

Days to onset of symptoms
 1

Welcome to EpiRisk

EpiRisk is a computational platform designed to allow a quick estimate of the probability of exporting infected individuals from sites affected by a disease outbreak to other areas in the world through the transportation network and the daily commuting flows. It also lets the user to explore the effects of potential restrictions applied to airline traffic and commuting flows.

Based on the number of infected individuals in each country in the world, the platform estimates two main metrics:

- Exported cases: the tool computes the total number of cases n from the origin of the outbreak and calculates the distribution P , the average onset and inability of travelling of infected individuals.
- Relative importation risk: for each country i , the tool calculates the probability $P(i)$ that a single infected individual will travel to country i .



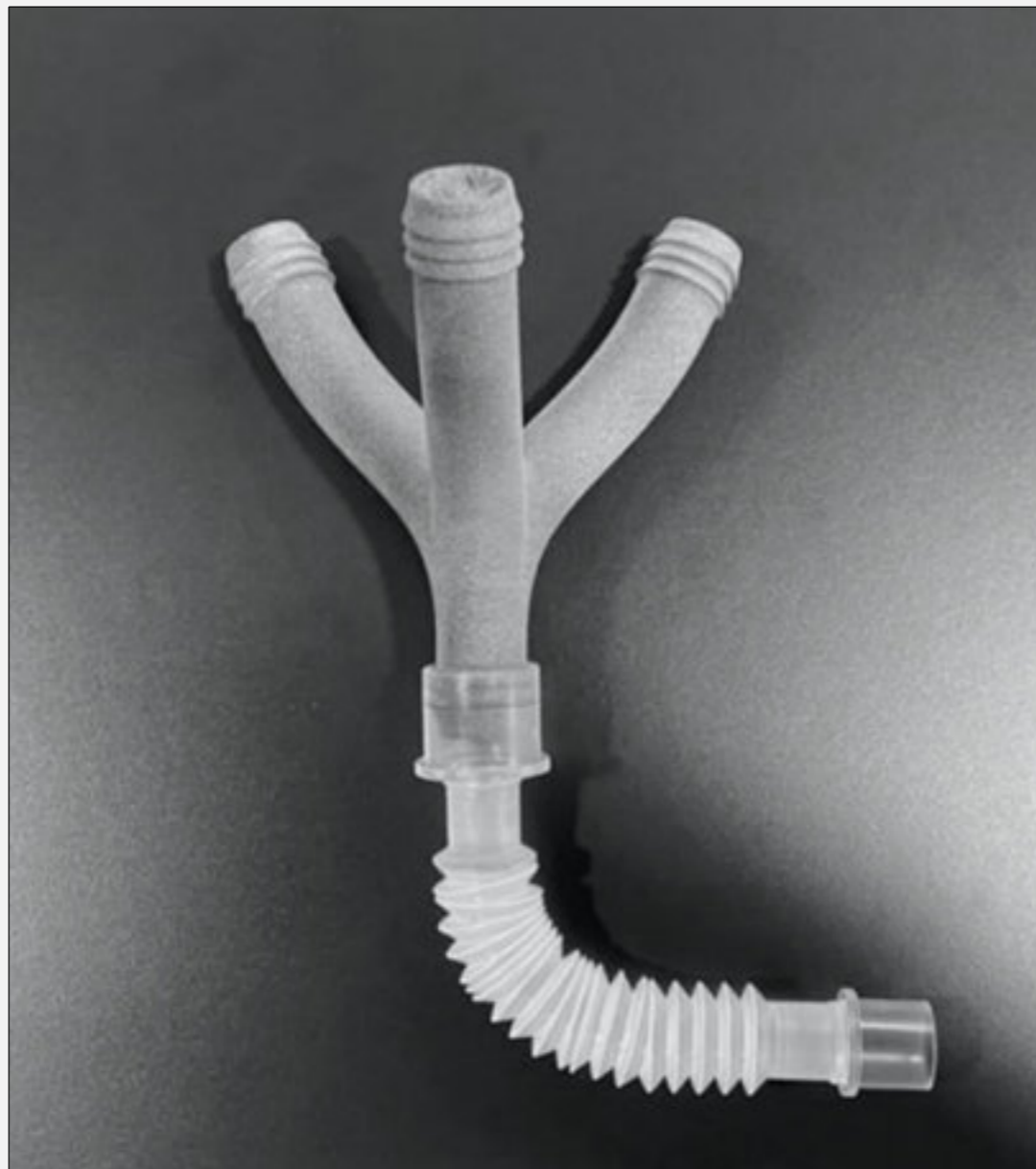
VALVE

Consortia de la Zona Franca (CZFB)

A 3D printed splitter allows multiple COVID-19 patients to access a single ventilator

As reported by 3dpbm's Spanish-language portal this morning, group of companies and institutions led by the alliance between the Consorci de la Zona Franca (CZFB) and Leitat started yesterday the production of a 3D printed splitter that will allow multiple patients affected by the Coronavirus syndrome COVID-19 to access a single respirator.

<https://www.3dprintingmedia.network/a-3d-printed-splitter-allows-multiple-covid-19-patients-to-access-a-single-ventilator/>



COLLABORATION

Various

Valencia's 'Makers'; this is how we fight from our living-rooms

In the group, created and organised via telegram spontaneously, these days thousands of protective visors for sanitary ware are being manufactured, one of the quickest and easiest things to do, and which do not require such strict approval as respirators. Many community hospitals contacted this community of more than 1,100 makers to request material that each of them can manufacture from home, with a simple 3-D printer.

<https://www.lasprovincias.es/sociedad/makers-valencianos-producen-20200324142229-nt.html>



Italy

PAVILION

The Government of Italy

Field hospital

A field hospital is set up in front of the Crema hospital, where 52 medical doctors and nurses from Cuba will be working to help out during the coronavirus outbreak in Crema, Italy, March 25, 2020

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>

25
Mar



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CREMONA

USA

TENT

The Government of USA

NYC prepares for the worst

Military sets up makeshift morgue using tents and refrigeration trucks outside Manhattan's Bellevue hospital in preparation for surge in coronavirus victims as NYC's death toll rises to 192 and city morgues near capacity.

<https://www.dailymail.co.uk/news/article-8151685/Makeshift-morgue-set-outside-NYC-hospital-amid-coronavirus.html>

25
Mar



NY MORGUES

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OPEN CALL

Various

COVIDx - Crowdsourcing wearables, citizen reports, & testing data to crush the COVID-19 curve

Along with passive, synchronous, and physiological data analysis, we're crowdsourcing self-reported symptom checks. Daily check-ins can help understand where the virus might be spreading and give us opportunities to intervene. Our aim is to use the power of the crowd for the rapid scaling of public health surveillance. Coordinating the crowdsourced data with public health agencies, hospitals, & testing facilities. And, Gamifying self-reporting, isolation, & social distancing protocols.

<https://helpwithcovid.com/projects/351-crowdsourcing-resting-heart-rate-to-predict-covid-19-spread>



OPEN CALL

Various

Gift Card Bank

We just launched giftcardbank.org with a group of volunteers from helpwithcovid! We're donating gift cards to people who are the most affected by Coronavirus. You can help. Every year \$3 Billion of unspent gift cards go to waste. We're on a mission to change that. The goal of the #ShowYourCards campaign is to encourage people from around the country to donate the gift cards that they have lying around unused on giftcardbank.org. Gift Card Bank will make sure those gift cards get into the hands of the families who have been most affected by Coronavirus.

<https://helpwithcovid.com/projects/309-gift-card-bank>



TEST

Brunel University London, Lancaster University, and University of Surrey

UK scientists develop smart device that can test for COVID-19 at home

A team of UK scientists have developed a new smart testing device for COVID-19 (coronavirus). Incorporating artificial intelligence, image processing, and molecular virology, researchers from a trio of British universities have developed a device that can detect the virus in 30 minutes using a smartphone app.

<https://www.designboom.com/technology/uk-scientists-smart-device-test-covid-19-home-03-25-2020/>

25
Mar

ILLUSTRATION

markyoder.designs

I will design posters in exchange for gel sanitizer

#printisnotdead #graphicindex #posterwall #editorialdesign #typeposter #graphicdesigner #plakat #posterlabs #swissposter #yorokobu #showusyourtype #typography #postereveryday #dailyposter #typographicdesign #designfeed #typecollect #typecollect #typehype #graphic #thedesigblacklist #icographica #itsnicethat #gfxmob

<https://www.instagram.com/p/B-Nrwo3ht8T/?igshid=koxp7yqom7ic>

26
Mar

Introducing the world to a new CoVID-19 testing platform -
Virus Hunter[®]



Created in collaboration with
three leading UK universities:
Lancaster, Brunel and Surrey

The CoVID-19 pandemic affects us all. We all need reassurances that we are
collectively working together to reduce the R level.

Our new and innovative CoVID-19 testing platform provides highly specific,
highly sensitive results in as little as 20 minutes without the need to send
samples to a laboratory

Instagram

Search

WILL DESIGN
POSTERS
IN EXCHANGE
FOR
HAND
SANITIZER

238

HOME TEST

EXCHANGE

239

POSTER

@sergioabstracts

Being antisocial has never been so easy. Stay home. Stay safe.

#graphicdesign #designinspiration #digitalart #graphicstudio #graphicoftheday #designblacklist #visualspiration #visualgraphics #brand #brands #branding #brandidentity #brandingdesign #brandingidentity #brandinginspiration #brandinginspo #brandingproject #digitalbranding #logobrand #logo #logotype

<https://www.instagram.com/p/B-MSF6MhjcW/?igshid=1o31tpd44655x>

26
Mar

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ANTISOCIAL



RENDER

George Washington University Hospital

3-D video shows Covid-19 attack patient's lungs

A 3D medical imaging released by George Washington University Hospital in the US shows how quickly the novel coronavirus can spread through the lungs of a healthy person. The hospital used images from CT scans, usually used for cancer screenings or to plan surgeries, to create a 3D view of the lungs of a coronavirus patient, who had been asymptomatic a few days earlier.

<https://www.cnn.com/videos/us/2020/03/26/3d-video-shows-covid-19-attack-lungs.cnn>

26
Mar

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VR LUNGS

POSTER

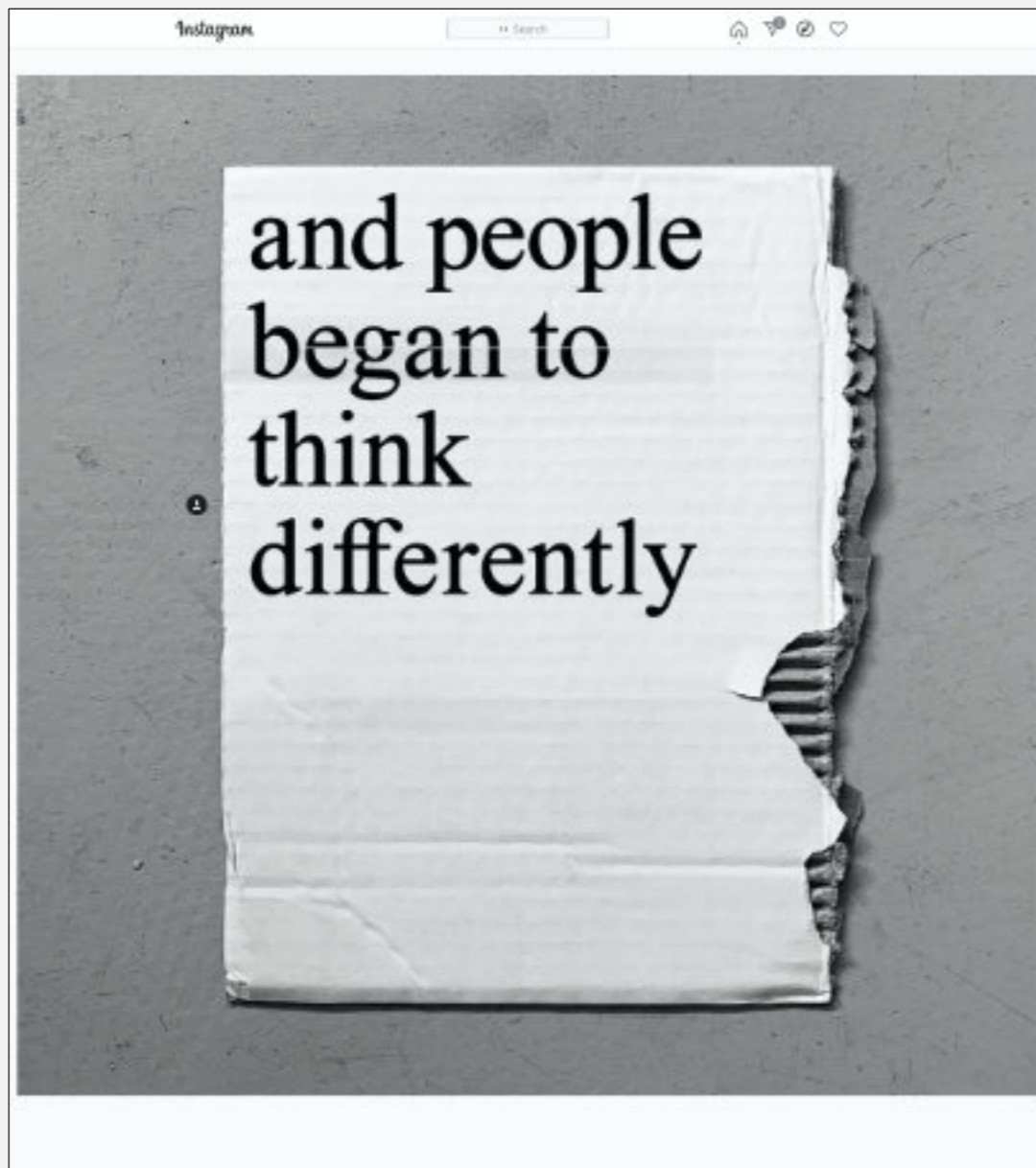
xpatrickthomas

And people began to think differently

And people stayed home, and read books and listened, and rested and exercised, and made art and played, and learned new ways of being, and stopped, and listened deeper, someone meditated, ...

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

26
Mar



VENTILATOR

Dyson

Government orders 10,000 of the life-saving machines from Dyson

Safety of those who need this vital equipment is our absolute priority. We are now testing proof of concepts from a number of suppliers in the coming days with the support of expert clinicians and health regulators. New orders are all dependent on machines passing regulatory tests; this is the case with Dyson. Their machines must meet the necessary safety and regulatory standards - if they do not they will not be brought or rolled out to hospitals!

<https://www.dailymail.co.uk/news/article-8154637/Government-orders-10-000-ventilators-Dyson-help-battle-coronavirus.html>

26
Mar



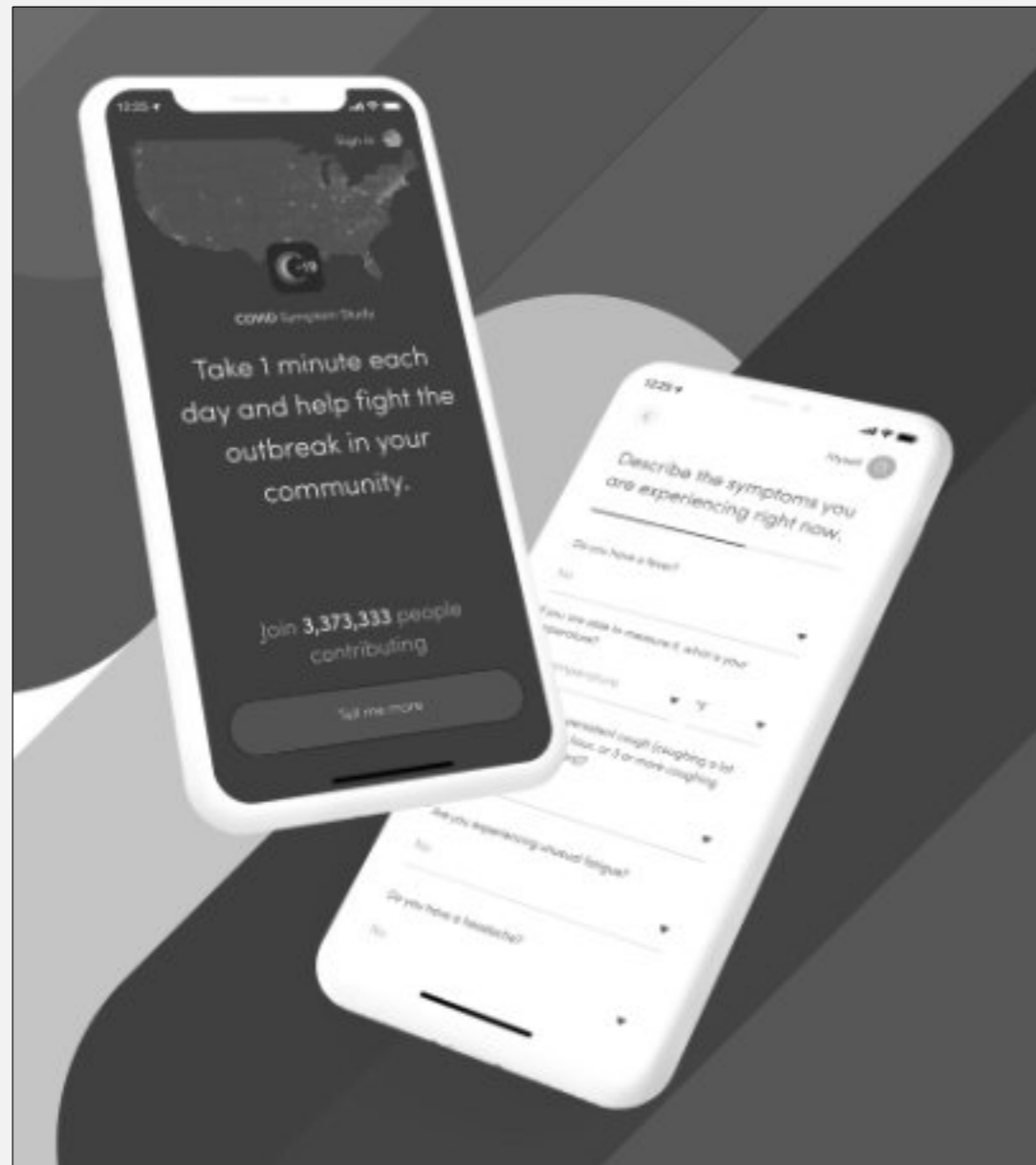
APP

King's College London

Coronavirus symptom tracker claims up to 6.6MILLION people in Britain may already have the life-threatening infection

An app tracking people's coronavirus symptoms in their own homes has revealed that more than 6.6million people in the UK could have had the infection already. The COVID Symptom Tracker, created by scientists at King's College London, was downloaded around 650,000 times in the first 24 hours after it launched on Tuesday. By today it had been signed up to by 1.25million people and has become the third most popular download in the UK's App Store, with some 50,000 new usersXhour.

<https://www.dailymail.co.uk/news/article-8154891/Coronavirus-tracker-claims-6-6MILLION-people-UK-it.html>



244 SYMPTOMS TRACKER

APP

Ghost Data

Governments could use social media to enforce coronavirus lockdowns

Researchers said they fed half a million Instagram posts into software that identified places in Italy where lockdown rules were being broken, before handing the data to the government.

<https://www.dailymail.co.uk/news/article-8154769/Governments-use-social-media-enforce-coronavirus-lockdowns.html>



INSTAGRAM TRACKER

HACKATHON

Various

Hack the crisis

Starting this evening Accelerate Estonia and Garage48 will host an online hackathon so that Estonia can emerge from the crisis stronger than ever. Now is the prime time to design, test and launch moonshot ideas that will either help tackle the crisis or position Estonia well for the aftermath.

<https://www.guaana.com/challenges/d2PibqwzsvPqYQ4ED/results/9okG4Qz82XugNZJ5>

26
Mar

HACKATHON

Various

COVID-19 Global Hackathon

The #BuildforCOVID19 Global Online Hackathon was an opportunity for developers around the world to tackle challenges related to the coronavirus (COVID-19) pandemic in March/April 2020. Expert judges from the health, science and technology fields selected the following highlighted projects.

<https://globalcovid.netlify.app>

26
Mar

Introduction

EMC: Starting this evening Accelerate Estonia and Garage48 will host an online hackathon so that Estonia can emerge from the crisis stronger than ever. Now is the prime time to design, test and launch moonshot ideas that will either help tackle the crisis or position Estonia well for the aftermath.

Accelerate Estonia will sponsor up to 5 ideas with 5K for execution during the state of emergency and the full support of the minister for ICT and Foreign Trade, Mr. Kairnar Kainar. So what are we looking for? Ideas that are:

- prototypable in 48 hours and help solve the crisis.
- giving Estonia the edge in the post-crisis world.

Do not stop at anything. Think of moonshots. Think of stuff that needs different regulation. Submit your idea for all interested hackathon teams to pick it up and solve it. You can be part of the team as well.

EST: Juba täna õhtul algab Accelerate Estonia ja Garage48 digitaalne häkkaton. Võideme paanika vastu tegudega ja loome kaugpraktilisi lahendusi, mis aitavad teid kriisiperioodil tõeliselt väljuda!

Accelerate Estonia toetab kuni 5 tugevamat ideed 5000 euroga, et need eriolukorraga kiiresti ellu viia. Vihivõimendaja- ja infotehnoloogiaminister Kairnar Kainar aitab elluviimisega igal võimalikul moel.

Disainime, testime ja panevme tööse loomulikke ideid. Otsime ideid, mis on 48 tunni jooksul testitavad ja aitavad kriisiperioodil tõeliselt väljuda teie konkurentsivõime kriisi-järgperioodiks.

Ära hõta end tagasi. Mõtle võimatule. Mõtle asjadele, mis nõuavad muudatust regulatsioonides, ettevõttekultuuris, ettevõtte tootmis- ja ettevõtte vahendites. Lisa idee probleemi lahendamiseks, mis tõi sind välja sellest kriisist. Sa võid osaleda sellega liituda.

Proposals

- Practical and healthy foodshop memo list for people who want to visit food shops as infrequently as possible
- Track the economic impact of the crisis
- Toolkit for unexpected remote teams

18,000+ innovators from 175 countries created 1,560 projects to #BuildForCOVID19

The #BuildforCOVID19 Global Online Hackathon was an opportunity for global developers to come together and tackle challenges related to the coronavirus (COVID-19) pandemic.

Innovators around the world were encouraged to use technologies of their choice across a range of suggested themes and challenge areas—some sourced through health partners including the World Health Organization and scientists from the Chan Zuckerberg Biohub.

The hackathon welcomed locally and globally focused software solutions, with support from technology companies and platforms including AWS, Facebook, Giphy, Microsoft, Pinterest, Salesforce, Slack, TikTok, Twitter and WeChat, who shared resources to support participants throughout the submission period.

Highlighted projects

We consider every participant who dedicated their time and skills to #BuildforCOVID19 a winner. That said, our team of health & technical expert judges have spent the past week considering the viability,

Italy

VALVE

Fabio Techni and Giulio Fraser

Italian engineers use 3D printing hack to turn scuba masks into ventilators

Sporting goods retailer Decathlon is contributing to the fight against coronavirus by sending makeshift ventilators to hospitals in northern Italy. The company has converted its line of snorkelling masks with the help of engineers from an Italian research institute who used a 3D printing hack to transform the equipment.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

**SCUBA RESPIRATOR**

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Italy

VALVE

Danilo Petta and Ozgur Pinar Cer

'breathe just' is an adjustable apparatus that doubles the use of a single oxygen mask

In response to the COVID-19 pandemic, the team at Mask architects has volunteered their time and effort to design an adjustable piece of apparatus that doubles the capacity of pulmonary ventilators. 'breathe just', which intends to be available for open-source 3D printing as soon as tests in Italy are completed, works by splitting the oxygen output directly from the inhalation/exhalation channel.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

**BREATHE JUST**

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26
Mar

26
Mar

PAVILION

The Government of Pakistan

Field hospital

A view of a field hospital comprising of 1000 beds setup by the Punjab government for coronavirus patients and suspects, in Lahore, Pakistan, March 26, 2020.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



TENT

The Government of USA

Field hospital beds going up at Miami-Dade's Youth Fair to help COVID-19 strain

Construction crews are building temporary hospital beds planned for the Youth Fair campus in Westchester as the county's health system prepares for a surge of coronavirus cases.

Crews arrived Monday night from a Kentucky company, Emergency Disaster Services, to build the first 250-bed hospital, which is expected to be completed by Friday

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



ACTIONS

HACKATHON

PRIVATE

Internet

HACKATHON

Various

Defeat coronavirus

Our mission is to combine technology, medicine, entrepreneurship, and education to defeat coronavirus. Our highest priority is responding immediately to the rapidly deteriorating global situation. Many organizations on the frontlines of this medical war desperately need all the help they can get as soon as possible.

<https://hackcovid.org>

26
Mar

Internet

HACKATHON

Various

What does our future look like after Covid-19?

The world will never return to the way that it was; together, we can bring about change and invent a bright new future. Can you help? The great minds of dancers, athletes, actors, industry experts, entrepreneurs, influencers, developers, economists, innovators, students, designers, scientists, doctors, manufacturers, consultants, campaigners, investors, brand managers, adventurers, young and old...

<https://hackathon.common.vc>

26
Mar

DEFEAT CORONAVIRUS

REGISTER

HackCOVID

3 · 2 · 8

DEFEAT

CORONAVIRUS

ONLINE

>> SIGN UP HERE <<

Our mission is to combine technology, medicine, entrepreneurship, and education to DEFEAT CORONAVIRUS.

Our highest priority is responding immediately to the rapidly deteriorating global situation.

Many organizations on the frontlines of this medical war desperately need all the help they can get as soon as possible. At 3 · 2 · 1 · HackCOVID, the first anti-coronavirus hackathon and an international virtual event, we encouraged you to focus on creating MVPs that are GOOD ENOUGH, RIGHT NOW.

Now, we are asking you to keep up the fight every weekend to defeat coronavirus, with our next event starting on Saturday (28 March).

VIEW FAQs

VIEW SCHEDULE

EMAIL US

SEE PREVIOUS EVENTS



Home The Blog Challenges Agenda Our Story



Take my idea forward

What does our future look like after Covid-19?

The world will never return to the way that it was; together, we can bring about change and invent a bright new future.

Can you help?

WANTED: The great minds of dancers, athletes, actors, industry experts, entrepreneurs, influencers, developers, economists, innovators, students, designers, scientists, doctors, manufacturers, consultants, campaigners, investors, brand managers, adventurers, young and old...

Two days, 5 hours each

Saturday 18-Sunday 19
April 2020

Online — Global

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HACKCOVID

CORONAVIRUS HACKATHON

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SHIELD

Nagami Design*Nagami Design 3D-prints face shields to protect medical staff from coronavirus*

Spanish brand Nagami Design has switched the use of its robotic arm from making furniture to 3D-printing face shields for medical staff treating coronavirus patients.

Nagami Design usually makes objects such as 3D-printed chairs by Zaha Hadid Architects, but has converted its manufacturing process to address the shortage of protective equipment in hospitals.

<https://www.dezeen.com/2020/03/27/3d-printed-face-shields-coronavirus-covid-19-masks-nagami-design/>



TENT

Jupe designs*Jupe designs flat-pack intensive care unit to bolster hospitals impacted by coronavirus*

Flat-pack startup Jupe has unveiled the "world's first standalone intensive care unit" and several other pop-up care facilities to help hospitals under pressure due to coronavirus.

Wilson and Blizzard teamed up with health advocate and physician Esther Choo and humanitarian designer Cameron Sinclair to develop the new arm called Jupe Health. It has created three care facilities that can be flat-packed and rapidly deployed to hospitals in the US.

https://www.dezeen.com/2020/03/27/jupe-health-flat-packed-coronavirus-care-units/?li_source=LI



GRAPHICS

INSTRUCTIONAL

INDEPENDENT

Spain

ANIMATION

Javier Mariscal

#yomequedoencasa

#mariscaloficial #yomequedoencasa #mariscal illustration #digital #ipad

<https://www.instagram.com/p/B-PKQPzCZ1S/?igshid=165bjw0ag7fmy>



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#YOMEQUEDOENCASA

USA

PHOTO

@maxwellswift

Coronavirus love

Here's something to cheer you up. Perhaps you've seen or heard about Jeremy and Tori on social media — Brooklyn neighbours who saw each other from their respective rooftops and began dating in a time of quarantine. With the help of a drone, video chat and a helpful roommate, Jeremy courted Tori as thousands of fans on Instagram and TikTok cheered them on. Check out our story about @toricigs and @jermcohen to find out how this rooftop romance came together.

<https://www.instagram.com/p/B-Plz9MH0Ps/?igshid=rjla1irmini4>



LOVE

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GRAPHICS

EMOTIONAL

INDEPENDENT

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Mar

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PROJECTION

Valentin Flauraud/EPA

#stayhome

Every evening this week, Switzerland's most famous mountain, the Matterhorn, has been beaming out messages about the coronavirus outbreak. "Stay at Home" one evening, "Hope" the next. More than 200 patients have now died from the virus in the country. Tap the link in our bio for the full story.

<https://www.instagram.com/p/B-QMx3uJDaC/?igshid=ukxwan38gk7t>

GOGGLES

Farsoon, Huaxiang & LEHVOSS Group

Farsoon, Huaxiang & LEHVOSS Group additively manufacture safety goggles to fight COVID-19

To prevent infection in highly contaminated hospital environments, medical workers who are in close contact with patients must wear personal protective equipment (PPE) including masks, gloves, and respiratory systems to prevent infections transmitted through the nose and mouth. In addition to the safety PPE equipment listed above, other critical protection equipment are safety goggles. These are just as important as masks in protecting medical personnel against infection.

<https://www.3dprintingmedia.network/safety-goggles-to-fight-covid-19/>



Germany

TESTER

Bosch

Bosch creates coronavirus swab test and machine that gives results in less than three hours - removing the need to send samples to a laboratory

Bosch has created a coronavirus test and machine that gives results in two-and-a-half hours, removing the need to send samples to a laboratory. The results are 95 per cent accurate, according to the German manufacturer, better known for its washing machines and fridge freezers

<https://www.dailymail.co.uk/news/article-8159285/Bosch-creates-coronavirus-swab-test-machine-gives-results-three-hours.html>



260 **SWAB TESTER**

UK

DRONES

UK Police

UK police use drones and roadblocks to enforce lockdown

A police force has defended using a drone camera to shame people into not driving into a national park during the lockdown, while another force said it was introducing roadblocks to stop drivers heading to tourist hotspots.

<https://www.theguardian.com/world/2020/mar/26/uk-police-use-drones-and-roadblocks-to-enforce-lockdown>



TRACKERS

27
Mar

261

27
Mar

POSTER

Suissas + Silva

Suissas + Silva turn flags into houses to urge the world to stay home to fight COVID-19

As of yesterday (march 26 2020) a quarter of the world's population has now entered lockdown due to the COVID-19 pandemic according to reports from BBC news. With such a vast number of people staying indoors to prevent the spread of the virus, Hugo Suissas and Tiago Silva have decided to convert every national flag into a new 'at home' version from Jamaica to Japan, each flag has been modified with the addition of a pitched roof, evoking the image of a house. To complement the new designs, the duo has also created the concept: 'Stay home. Everywhere. Fight COVID-19'

<https://www.designboom.com/design/suissas-silva-flags-into-houses-stay-home-fight-covid19-03-27-2020/>

27
Mar



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HOME FLAGS

OPEN CALL

Creative Lancashire

Global Call to Creatives

For the first time, the UN is launching an Open Brief to creatives everywhere to help spread public health messages in ways that will be effective, accessible and shareable. Together we can flatten the curve. This isn't a single campaign. The UN are looking for a multitude of creative solutions to reach audiences across different cultures, age groups, affiliations, geographies and languages. We are asking you to extend your imagination, raise your ambition and lend your support and ingenuity.

<https://www.creativelancashire.org/posts/global-call-to-creatives>

27
Mar



GLOBAL CALL

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SHELTERS

ADAPTATION

GOVERNMENT

Italy

PAVILION

The Government of Italy

Field hospital

Volunteer artisans, Civil Protection workers and members of the National Alpine Association are working in Bergamo, the Italian epicentre of the coronavirus, to build a field hospital for patients.

<https://www.france24.com/en/20200413-never-give-up-volunteers-raise-hospital-and-spirits-in-italy-s-virus-wracked-bergamo>

27
Mar



BERGAMO

264

USA

PAVILION

The Government of USA

Field hospital

A temporary hospital is set up at the Jacob K. Javits Convention Center in New York City, March 27, 2020.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>

27
Mar



NEW YORK

265

SHELTERS

ADAPTATION

GOVERNMENT

Iran

PAVILION

The Government of Iran

Field hospital

A field hospital that will hold 2,000 patients set up in the international convention centre in Northern Tehran.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>

27
Mar



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TEHRAN

Serbia

PAVILION

The Government of Serbia

Field hospital

Serbia converts enormous hall into coronavirus medical centre.

<https://www.dailymail.co.uk/news/article-8160451/Serbia-converts-enormous-hall-coronavirus-medical-centre-France-deploys-FLYING-hospital.html>

SHELTERS

ADAPTATION

GOVERNMENT

27
Mar



SERBIA

267

VALVE

Przemysław Stachura

Polish designer shares 3D printed adapter for DAR filter connecting to 3M masks

Przemysław Stachura, who came up with the design of a 3D printed adapter for DAR filter to transform a 3M mask into a special type of PPE. The model [available here to download] quickly caught the attention of paramedics in Poland and other nations, who expressed a desire to test and use. The reason for producing this adapter is that the certified and compatible filters to the 3M masks are now out of stock

<https://www.3dprintingmedia.network/3d-printed-adapter-for-dar-filter-connecting-to-3m-masks/>

27
Mar

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DAR FILTER

COLLABORATION

Various

Proto Shield

The Proto Shield is an open-source, low-cost, quickly produced face shield. It is designed to be functionally equivalent to the Prusa face shield. It's just 100x faster to make. The visor is compatible with 3D printed Prusa parts. Materials for the Proto Shield cost less than \$1, and it can be produced by almost any laser cutter in less than 1 minute. It can be stored and shipped flat, is comfortable enough to be worn all day, and can be disassembled for sterilization and re-use.

<https://www.protohaven.org/proto-shield/>

27
Mar

Protohaven

Access During COVID 7 About 7 Proto Shield 7 Ally Face Mask 7

\$0.00 Items @

Home > Proto Shield

Proto Shield

The Proto Shield is an open-source, low-cost, quickly produced face shield. It is designed to be functionally equivalent to the Prusa face shield. It's just 100x faster to make. The visor is compatible with 3D printed Prusa parts.

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One person can make hundreds of Proto Shields in a day from almost anywhere in the world. Here's how:

Tools

- Laser cutter (Hobby+ bed size 18" x 30" +)
- Hot knife or scissors
- Small flat head screwdriver
- Rubber gloves, face mask, and disinfected work surface

Materials

- 304" or 1.5mm PETG sheet (approximately 30" x 2' per shield)
- 3/16" or 5mm PETG sheet (approximately 5.5" x 5.5" per shield)
- 25" or 20mm elastic band (approximately 14" per shield)

SHIELDS

269

MAP

Tectonix

Cell phone data shows Spring Break partygoers traveled across US

A heat map created by Tectonix GEO and X-Mode tracked Spring Breakers cell phone data to see where they travelled after the parties, potentially tracking coronavirus spread.

<https://www.dailymail.co.uk/news/article-8160759/Cell-phone-data-reveals-Spring-Break-covidots-traveled-flooding-beaches.html>

27
Mar



PLATFORM

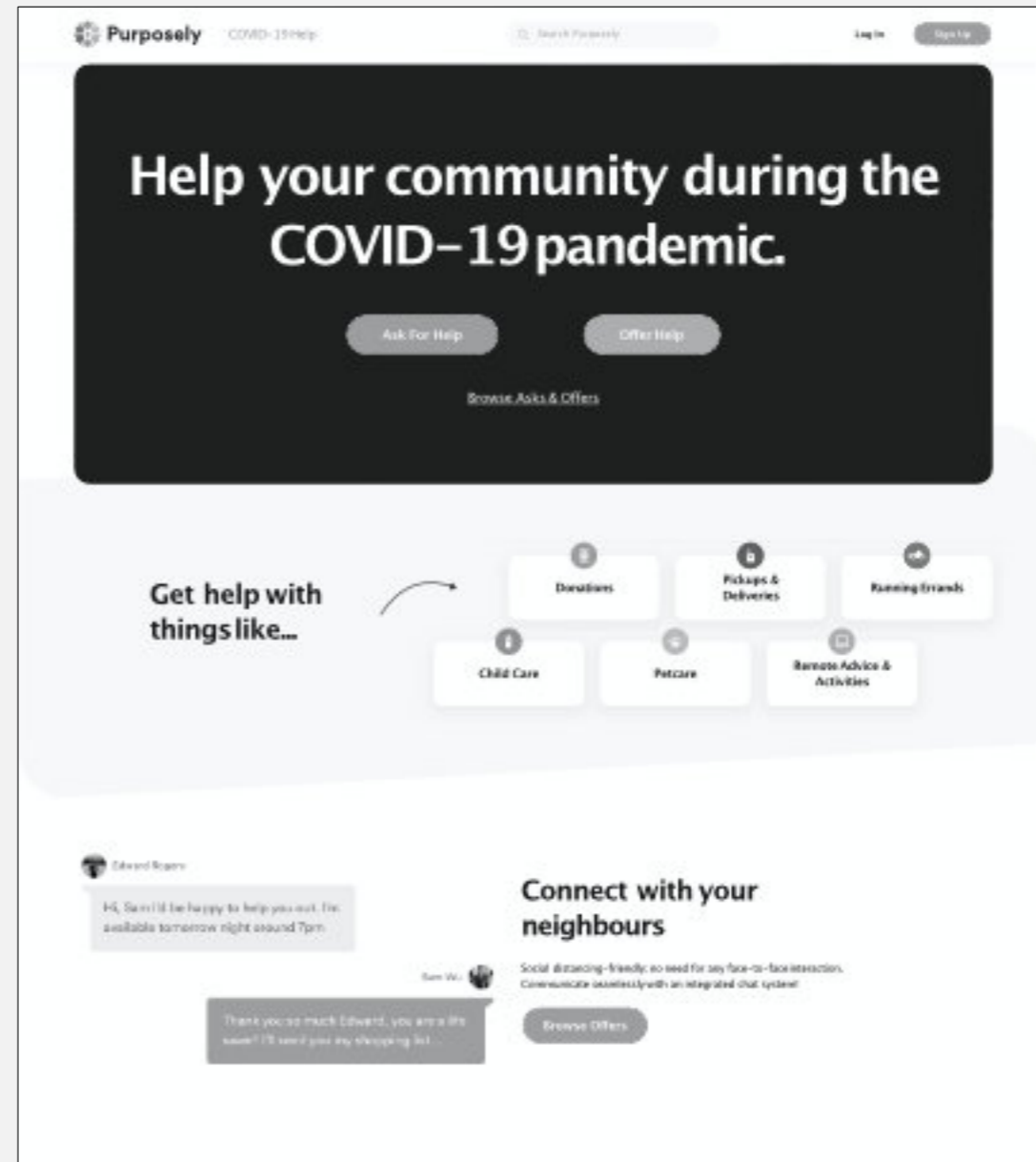
Purposely

Help your community during the COVID-19 pandemic.

A digital platform to exchange questions and/or help.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

27
Mar



TEST

Charity Medical Detection Dogs

Coronavirus UK: Sniffer dogs could detect cases at airports

A British charity has teamed up with scientists to see whether dogs could help detect COVID-19 through their keen sense of smell, they said on Friday.

Innovation minister Lord Bethell said he hoped the dogs could provide "speedy results" as part of the government's wider testing strategy.

<https://www.bbc.co.uk/news/uk-52686660>

27
Mar



272

SNIFFER DOGS

POSTER

Millie Marotta & NHS

Millie Marotta is an illustrator of adult colouring books and has now made NHS illustrations

My hope is that people will share their colouring via the hashtags #LoveNHS and #ColourForOurCarers on social media. You could also put them on your window or post to loved ones.

<https://www.dailymail.co.uk/news/article-8162201/Show-thanks-NHS-printing-colouring-heart-poster-window.html>

27
Mar



LOVE NHS

273

SCRUB

Anielle Elsener

DECODE is a complete zero waste design system that solves industry problems through communication, sharing, and play.

Our founder, Danielle Elsener, has dedicated her life's work to proving zero waste as a valid and robust design model. For over a decade, she has learned from industry, educational institutions, and self-run initiatives to understand how best to do this. What began as a love for puzzle solving through zero waste pattern-making, became a way to fix the fashion industry's biggest problem.

<https://decodecodecode.com>

27
Mar



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ZERO WASTE SCRUB

POSTER

BBC

Exercising

There are some tips for staying safe while exercising during coronavirus restrictions. In the UK, the government says people should: Keep a social distance of more than 2m (6ft) from other people. "Stay local" and use open spaces near home for exercise. Do not attempt team sports, because of rules on social distancing and gatherings. No mention is given to how long you can exercise for.

<https://www.instagram.com/p/B-SAGa3Jrwt/?igshid=18e4el74cc0ln>

28
Mar



SAFE EXERCISE

275

INFOGRAPHIC

The Guardian

Tips for safer shopping

Supermarkets are racing to install measures to keep shoppers and staff at least 2 metres apart after the government called for an immediate increase in safety efforts to contain the coronavirus outbreak.

<https://www.instagram.com/p/B-RYFHUFnh4/?igshid=13iuh6zfh2ns>

28
Mar

TESTER

Abbott

US approves rapid test that can detect coronavirus within 15 minutes as US death toll approaches 1,700

Abbott Laboratories said on Friday it won the federal government's marketing approval for a diagnostic test for the coronavirus that can deliver results to patients within minutes.

<https://www.dailymail.co.uk/news/article-8162275/Abbott-wins-U-S-approval-test-detect-coronavirus-minutes.html>

28
Mar



OPEN CALL

Various

Slack group

Group of volunteers organized and operating via Slack.

<https://app.slack.com/client/T0104H4BYJ3/browse-people>

28
Mar

POSTER

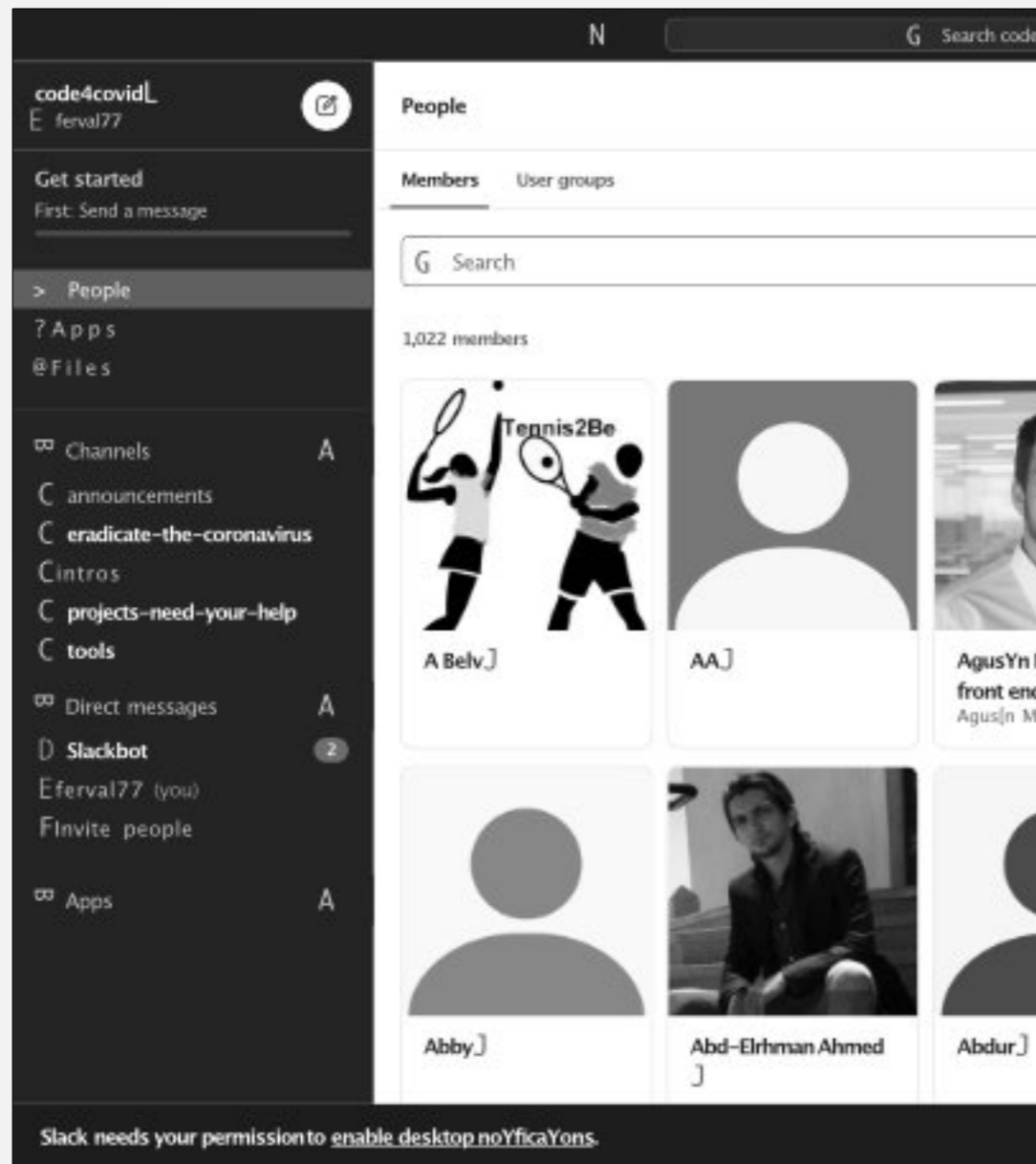
Activista

Los Angeles based design agency Activista have reimagined a series of iconic album covers in accordance with the law.

A series of re-envisioned album sleeves show what they might have looked like if they had been released in the current climate, where people are forced to obey a social distance of six feet.

<https://www.dailymail.co.uk/tvshowbiz/article-8162761/Artist-imagines-iconic-album-covers-obey-social-distancing-rules.html>

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Mar



SHELTERS

OTHER

INDEPENDENT

USA

TENT

Dr. Timmy Cheng

California doctor moves into a tent in his garage to protect his wife and children from coronavirus while he treats patients

Dr. Timmy Cheng treats patients with COVID-19 so he's taking steps to protect his family from the virus that has killed tens of thousands worldwide. The pulmonary and critical care specialist has moved into his family's garage. He is camping out in a tent to protect his family from the novel coronavirus. Inside the tent, Dr. Cheng has a twin mattress, a laptop and snacks.

<https://www.dailymail.co.uk/news/article-8163289/California-doctor-working-patients-coronavirus-moves-tent-garage.html>



GARAGE TENT

UK

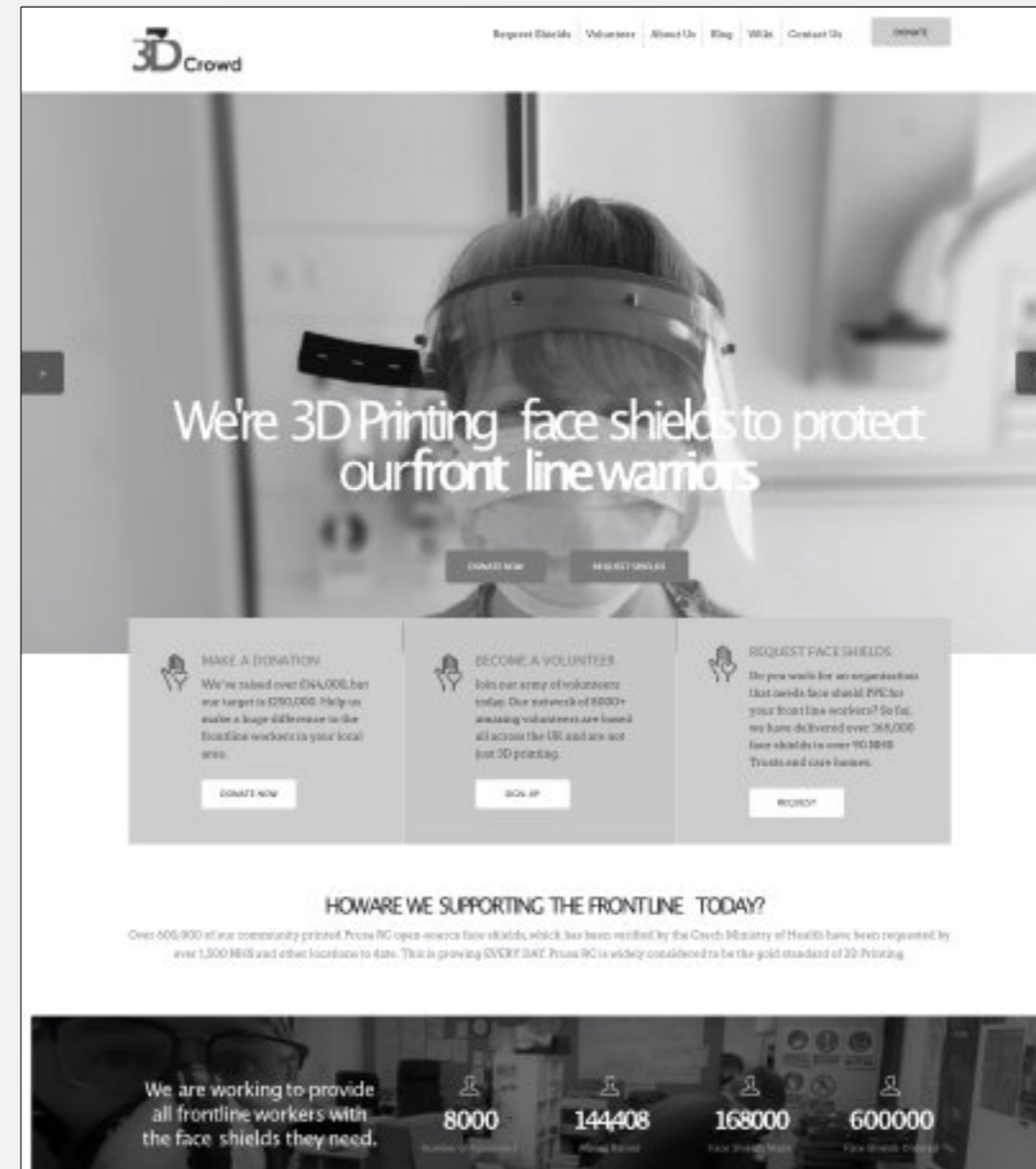
COLLABORATION

3DCROWN

Owners of 3D printers answer NHS call to arms to produce thousands of visors to protect nurses and doctors treating coronavirus victims

The owners of more than 600 3D printers have answered Britain's call to arms and started to produce thousands of visors for the NHS. The masks, which protect doctors and nurses treating coronavirus patients, are being delivered to hospitals across the country. It comes after several hospitals on the frontline of the outbreak reportedly ran out of face masks and basic protective equipment last weekend.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



3DCROWN

NETWORKS

MAKERS

NGO

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Mar

28
Mar

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APP

Various

The Community of Madrid launches its first tracking app

NHS Health orders an app on COVID-19 that will allow geolocating mobile phones. It can be used by citizens to self-assess their health, which also allows locating the sick.

<https://www.ecestaticos.com/imagetatic/clipping/2bc/c10/2bcc10b78f370614abed76a7dc6efc24/madrid-da-el-primer-paso-en-espana-y-lanza-su-app-contra-el-coronavirus-asi-funciona.jpg?mtime=1584556256>

MASK

New Balance

New Balance redirects production

New Balance redirected a portion of its skilled US team to work on face masks. The footwear label posted the update on instagram with an image of a mask and the call-out 'Made shoes yesterday. Making masks today.' It features what looks like shoelaces and canvas materials familiar to the new Balance aesthetic.

<https://www.designboom.com/design/diy-face-masks-protect-against-coronavirus-04-14-2020/>

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Mar28
Mar

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TRACKING APP



Made shoes yesterday.
Making masks today.



NEW BALANCE

283

Italy

MASK

Lorenzo Rocchi

Open source mask

Dimensions are 24x20 and 32x26mm. The print was made in classic PET-G, with an MK3-S prusa. 0.25mm layer, while for the slots only, the height has been changed to 0.10mm to avoid problems with protruding perimeters, and to avoid the generation of unnecessary supports in uncomfortable places

<https://www.opensourcemask.com/en/download1/item/34-lorenzo-rocchi-italy.html>



3D PRINTED MASK

The Netherlands

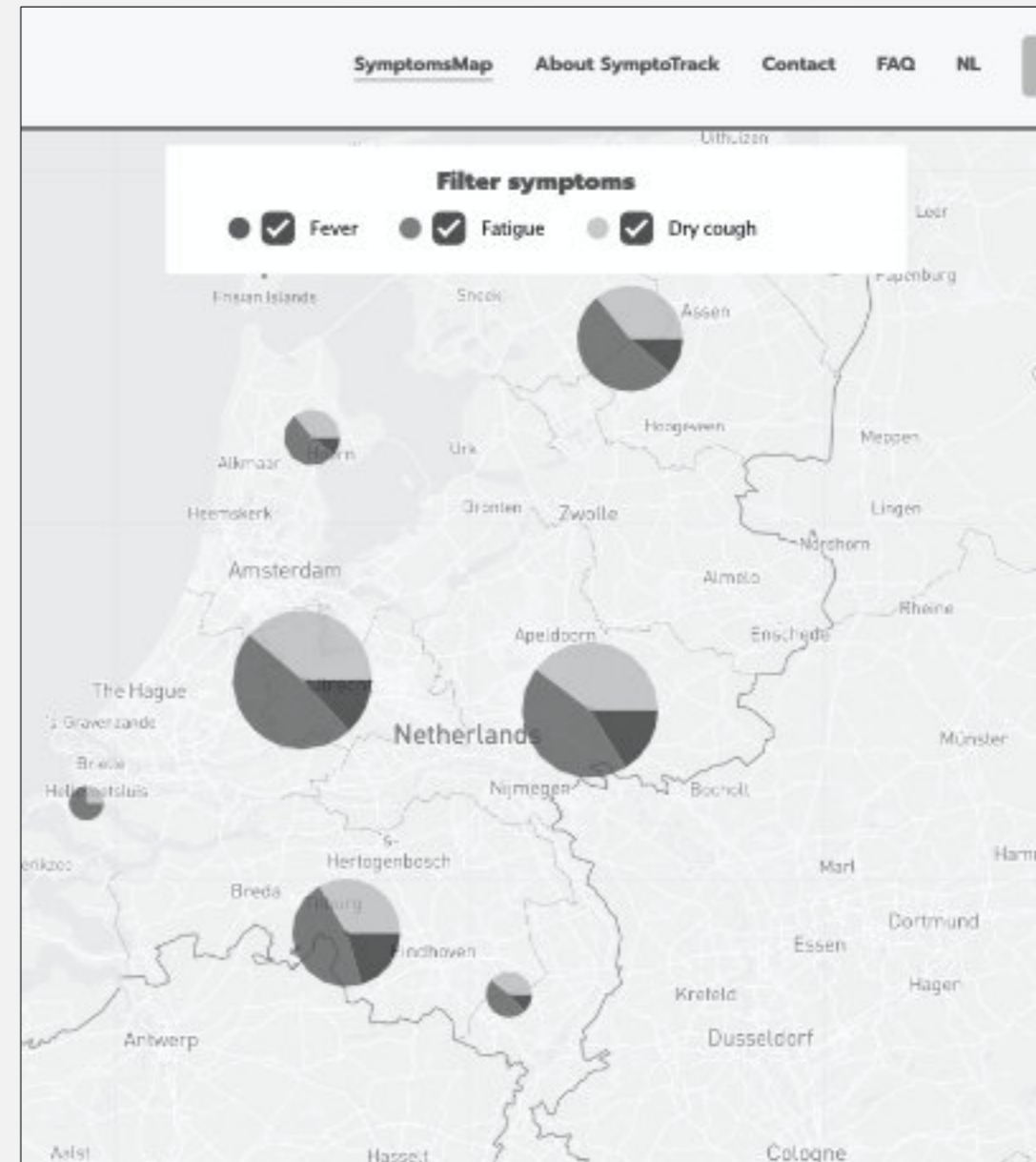
MAP

HIKE, Greenberry and Forest

COVID-19 SymptoTrack

SymptoTrack is a tool that works to map anyone with symptoms of COVID-19. By answering this questionnaire, you can record your own symptoms or those of someone else. We use this data to map the spread of the virus. SymptoTrack was developed by HIKE, Greenberry and Forest to help healthcare workers in their fight against the coronavirus.

<https://www.symptotrack.org>



SYMPTOTRACK

28 Mar

28 Mar

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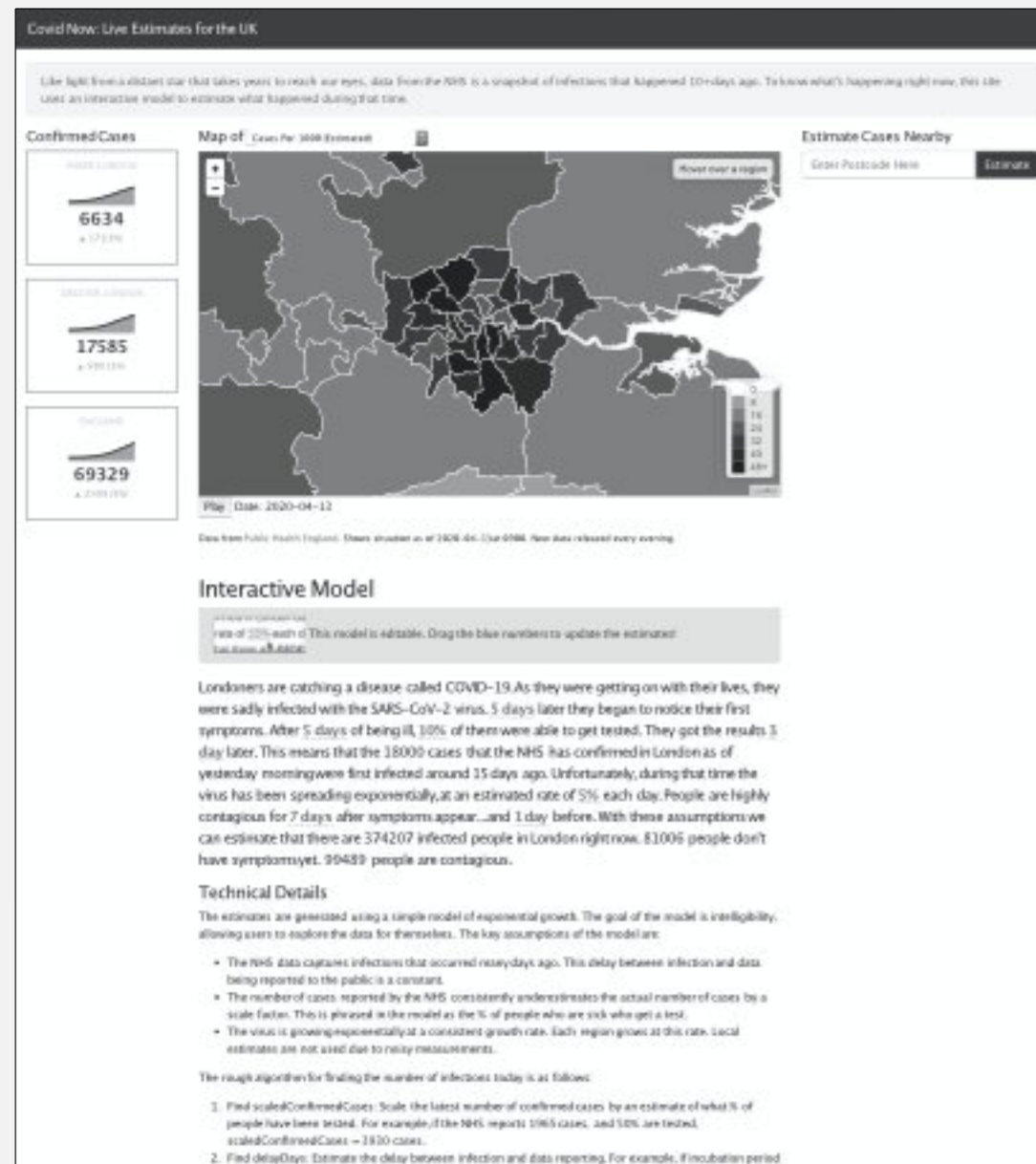
MAP

Brandon Jackson

Covid Now: Live Estimates for the UK

Like light from a distant star that takes years to reach our eyes, data from the NHS is a snapshot of infections that happened 10+ days ago. To know what's happening right now, this site uses an interactive model to estimate what happened during that time. The estimates are generated using a simple model of exponential growth. The goal of the model is intelligibility, allowing users to explore the data for themselves.

<http://whereisit.in.london/>

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Mar

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ESTIMATOR

ILLUSTRATION

Telefonica

Telefónica hugs the heroes of the battle against the coronavirus

A simple Telefónica tweet, accompanied by a drawing, has served to recognize the priceless effort of the most admirable and demanded group of the moment. "Dedicated to all health personnel in Spain, and especially Madrid, in these difficult times. #GraciasHéroes", publishes the telecommunications company. The drawing is the creation of Niko Gómez Nicolás.

<https://pbs.twimg.com/media/EUXIDE3XkAASauz.jpg>



#GRACIAS

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Mar

SHIELD

Eric Höweler

American architects mobilise to make coronavirus face shields for hospital workers

Architects in the USA including BIG and KPF are working on an open-source project to make face shields for hospital workers treating coronavirus patients.

<https://www.dezeen.com/2020/03/29/american-architects-coronavirus-face-shields-hospital-workers/>



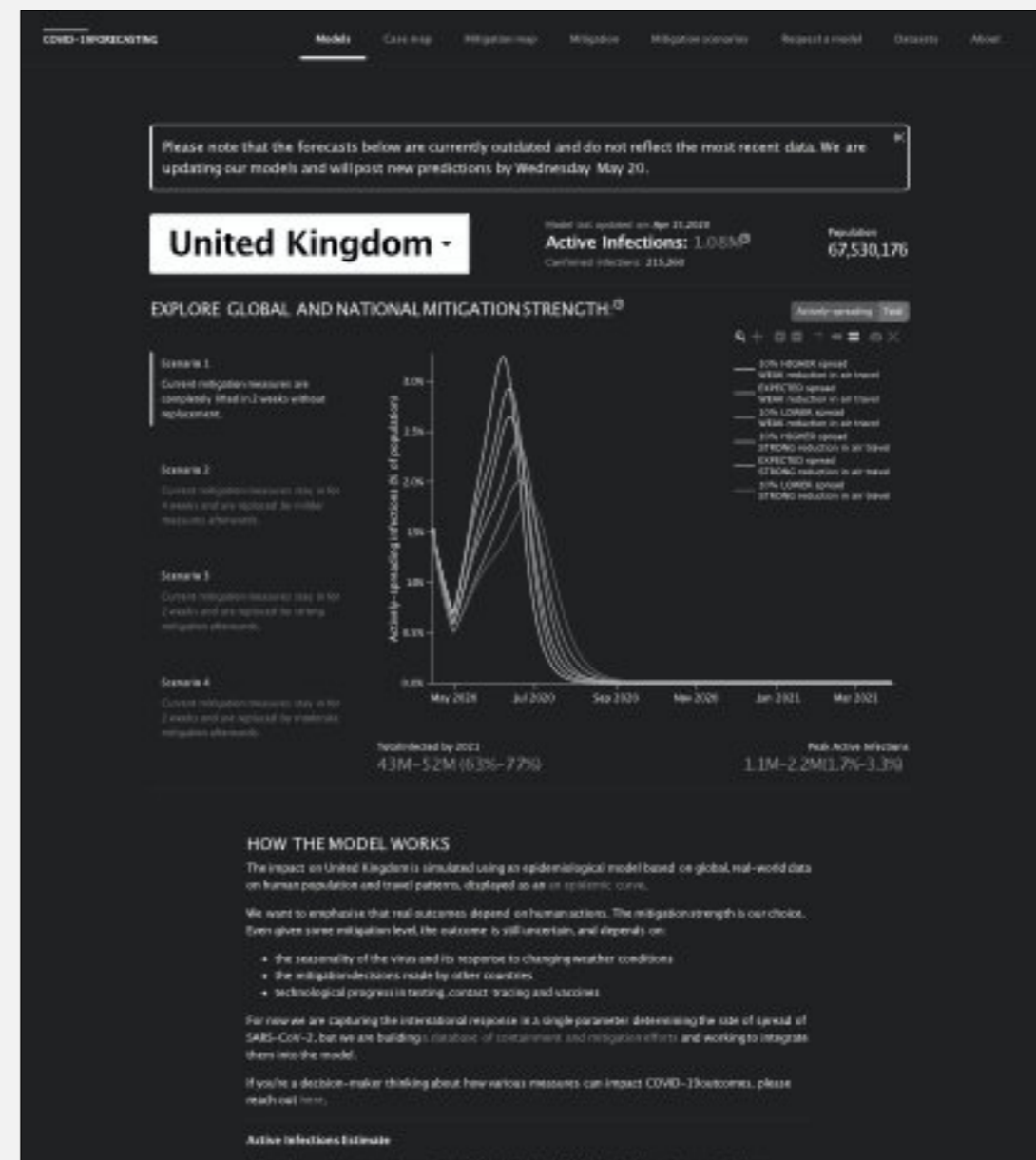
CHARTS

The Future of Humanity Institute, University of Oxford

Mitigation calculation

The following tool can be used to calculate the estimated effect of various combinations of COVID-19 countermeasures. On the left, measures and measure groups can be toggled to factor into the calculation. On the right, the impact on growth is displayed using coloured bands. The impact estimates are based on our model combining a countermeasures dataset and their empirically observed growth reduction. The impact of each measure can be customized by the sliders to e.g. factor in non-compliance.

<http://epidemicforecasting.org/containment>



SIGN

tape_measures

Observing Safe Distancing on Instagram: Toilets, Ngee Ann City

Tape measures for social distancing.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



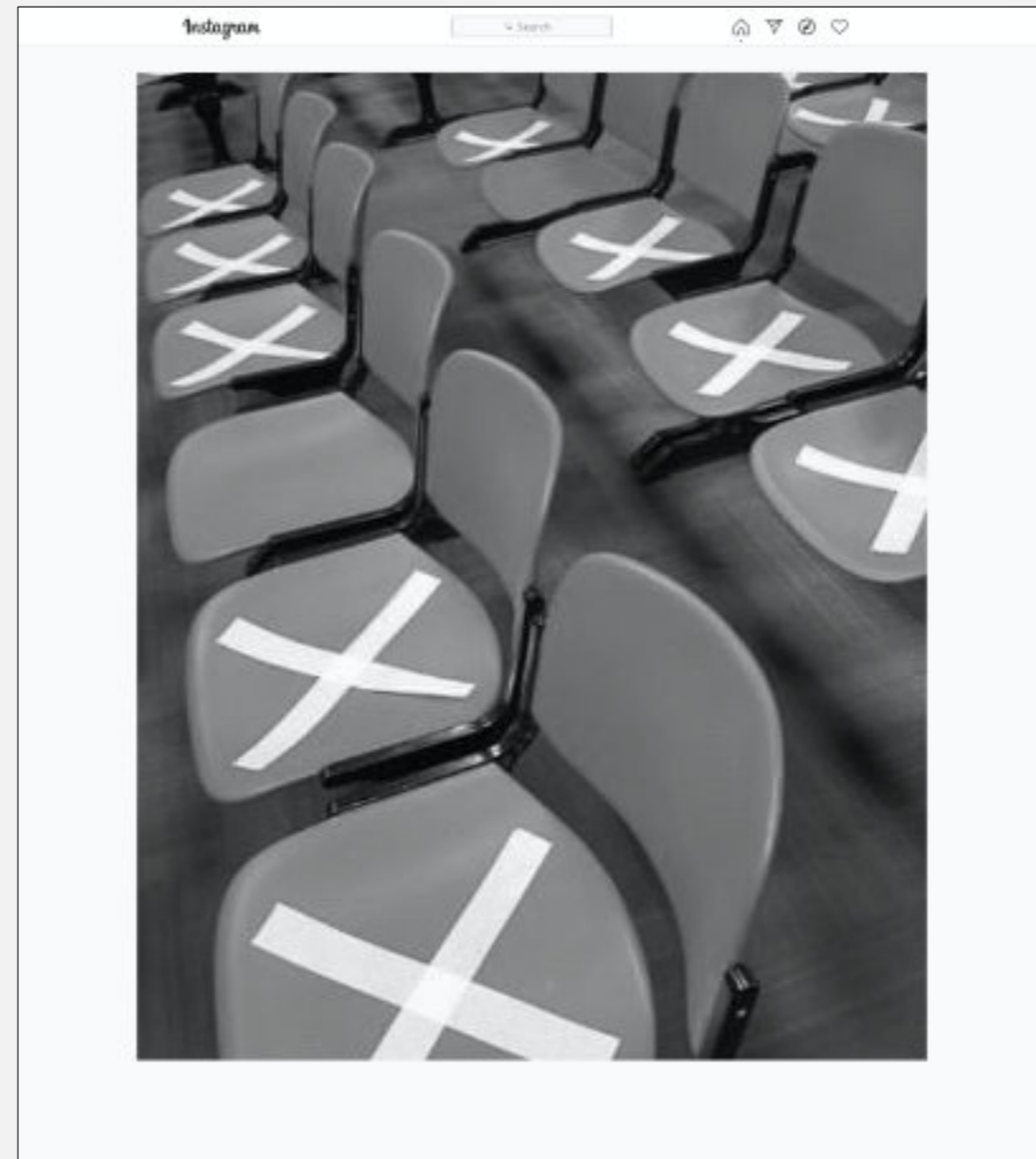
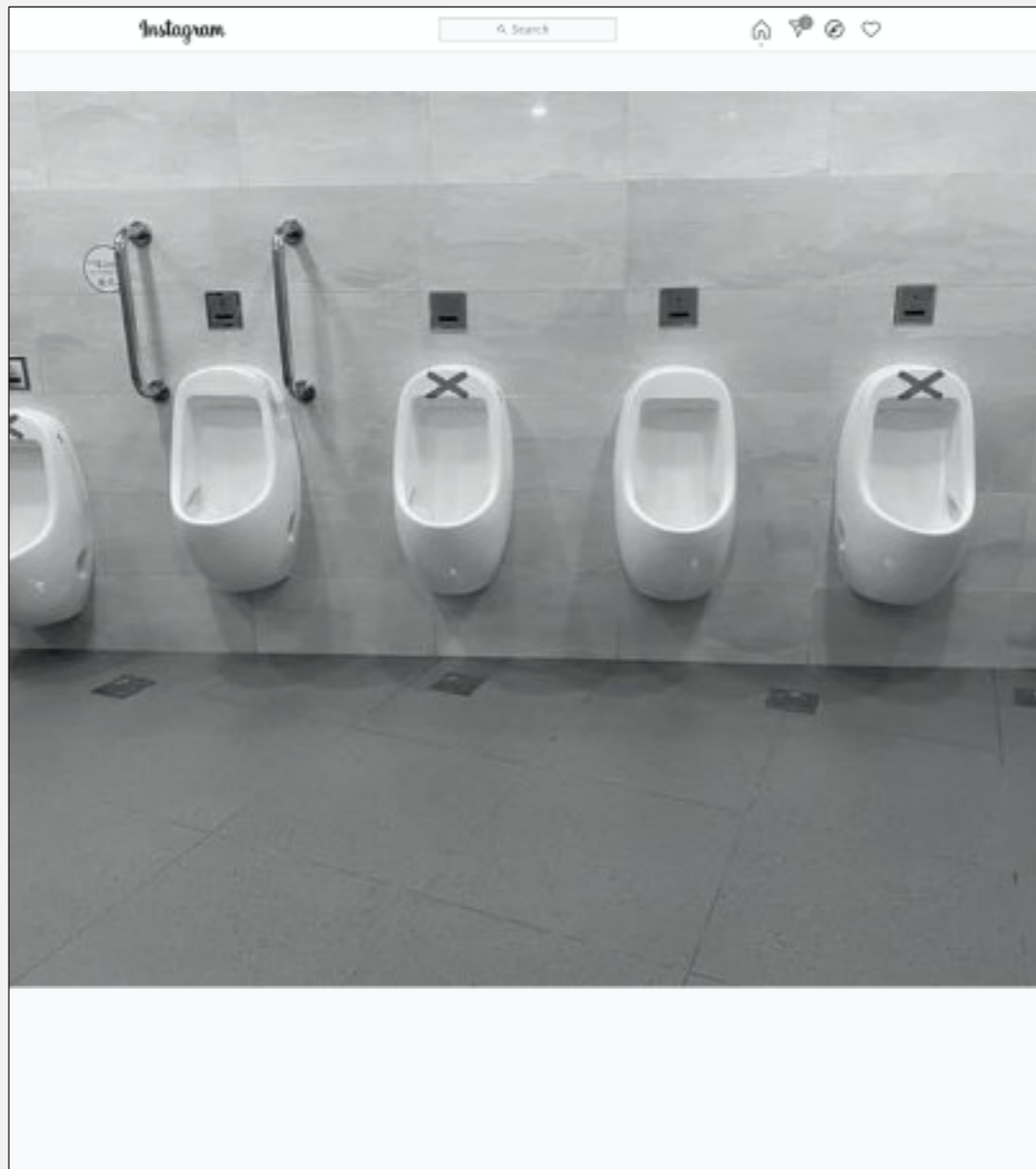
SIGN

tape_measures

Immigration & Checkpoints Authority / 30 March 2020 [:@_rachelch]

Tape measures for social distancing.

https://www.instagram.com/p/B-ZVCOAh_CG/?utm_source=ig_embed



WEARABLE

Accent systems

Accent Systems developed a connected wristband technology to contain the spread of Covid-19

The engineering company Accent Systems (headquarters in Barcelona) has developed a device to contain Covid-19 contagions and prevent their rapid spread. It is a Bluetooth wristband that makes contact tracing and accurately reconstructs the contacts that an infected person has had in recent weeks and isolate them preemptively, to prevent their spread.

<https://accent-systems.com/blog/accent-systems-developed-connected-wristband-technology-contain-covid19/>

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Mar

VENTILATOR

Mercedes and UCL

Formula 1 Mercedes engineers and University College make new coronavirus breathing device in 4 days

The Mercedes team and academics at University College London took just four days to produce the first 'continuous positive airway pressure' (CPAP) device.

<https://www.dailymail.co.uk/news/article-8166455/Formula-One-Mercedes-engineers-University-College-make-new-coronavirus-breathing-device-4-days.html>

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Mar

Covid-19
BLE wristband

accent
systems



292

WRISTBAND



RESPIRATOR

293

- ACTIONS
- VOLUNTEERING
- PROF. ASSOCIATION

UK

OPEN CALL

Various

Call for projects

We are here to provide technical assistance to the various mutual aid networks and other initiatives that are emerging as this pandemic unfolds, as well as pre-existing radical projects. Apply before April 30, 2020 to be part of our 3rd cohort.

<http://radicalengineers.com/>

30
Mar

USA

ILLUSTRATION

tainted saint

Not all heroes wear capes!

#doctorfauci #anthonyfauci #worldhealthorganization #centerofdiseasecontrol #quarantineandchill #fauciforpresident #fauci #drfauci #doctoranthonyfauci #infauciwetrust #smallbusinesses #supportlocalbusiness #supportsmallbusiness #tainted saint

<https://www.instagram.com/p/B-XZNCop7tV/>

- GRAPHICS
- POLITICAL
- INDEPENDENT

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Mar



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RADICAL ENGINEERS

CANDLE

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PAVILION

The Government of Brazil

A field hospital

Workers set up a temporary field hospital to treat patients who have COVID-19 inside Pacaembu stadium in Sao Paulo, Brazil, March 30, 2020.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



PAVILION

The Government of USA

A field hospital

A worker moves items at a federal medical station as it is set up as a field hospital at Temple University's Liacouras Center in Philadelphia, March 30, 2020.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



ILLUSTRATION

@olivergalart

Blue

A restful colour, PANTONE 19-4052 Classic Blue brings a sense of peace and tranquility to the human spirit, offering refuge.

<https://www.instagram.com/p/B-XC9boAqiC/?igshid=1gkvqt10fgae2>



ILLUSTRATION

Times Magazine

What to Know and What to Do About the Global Pandemic

This issue explores our strange new normal—in China, where COVID-19 still casts a long shadow; in Europe, where health systems are struggling to weather extraordinary challenges; and in the U.S., where a mismanaged political response lulled many into a sense of security now shattered by school and work closures, lost wages and social separation. In words and images, these stories detail the disparate responses—medical, technical and personal—required to slow and halt COVID-19, and, most important, how we can all emerge on the other side.

<https://time.com/magazine/us/5806214/march-30th-2020-vol-195-no-11-u-s/>



ACTIONS

OPEN PORTAL

UNIVERSITY

Spain

PROJECTS

Various

Design to fight COVID-19

Design2FightCOVID19 has tested our ability for 6 weeks, to bring 11 small actions against COVID19. A continuous exercise of collective intelligence, without stopping working a single day on projects. These are the projects that we currently have active. There are those who already have a solution, others do not. If you want to participate do not hesitate to enter our Slack. As we receive projects, we will publish them here, but we have all the information in Slack.

<https://design2fightcovid19.com>

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Mar

Hong Kong

SHIELD

CUHK and the HKSP

DIY Face Mask – 8 Steps in Making Protective Gear

In a bid to help the public fight the virus and alleviate anxiety in searching for surgical masks, a taskforce led by the University of Hong Kong-Shenzhen Hospital (HKUSZH), Consumer Council, Hong Kong Applied Science and Technology Research Institute (ASTRI), Hong Kong Science Park (HKSP), and the Department of Architecture and Civil Engineering in the City University of Hong Kong (CityU) is formed. In the past weeks, lab tests were conducted on the efficacy of surgical mask after washing and sterilizing, shortage of face masks.

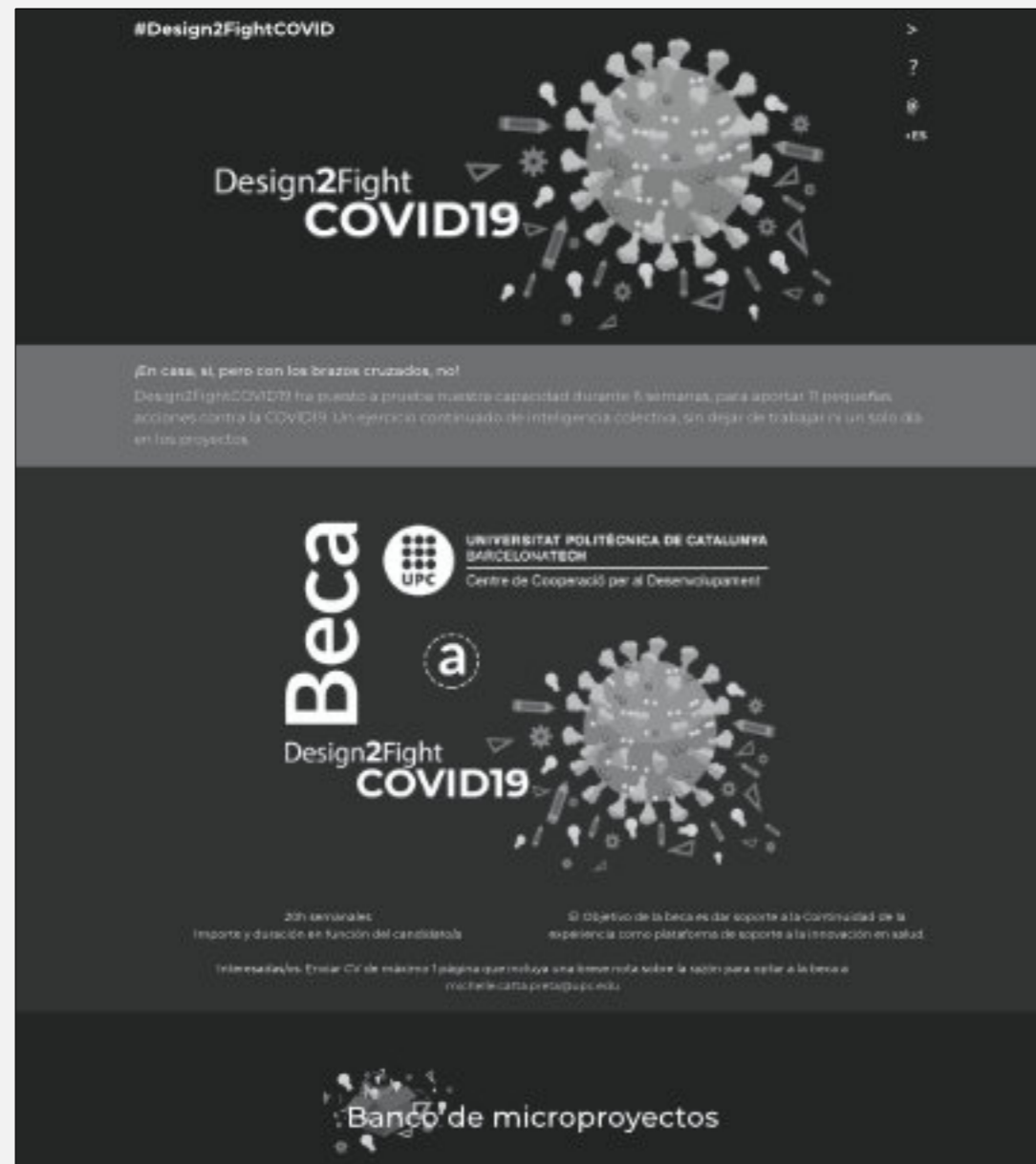
https://www.consumer.org.hk/ws_en/news/specials/2020/mask-diy-tips.html

PRODUCTS

FACE PREVENTION

CONSORTIUM

31
Mar



300

MICROPROJECTS BANK

DIY SHIELD

301

ILLUSTRATION

Chris Ware, The New Yorker

'New Yorker' magazine pays tribute to pandemic heroes, medical staff

The iconic magazine The New Yorker dedicates the illustration on its latest cover, by Chris Ware, to those who have been described as the heroes of the coronavirus pandemic, medical personnel, with a design that shows that this sector of the Society, so exposed to the disease, also has a family and children. The drawing, titled "Bedtime", shows a hospital corridor full of doctors and nurses in action, dressed in the gowns, gloves and surgical masks characteristic of this epidemic, while one of them says good night to his husband and children through the screen of a mobile phone.

https://amp.rtve.es/noticias/20200331/coronavirus-revista-new-yorker-rinde-homenaje-heroes-pandemia-personal-medico/2011132.shtml?_twitter_impression=true



PHOTO

Vincent Thian

A woman has her body temperature checked amid the coronavirus outbreak.

The majority of coronavirus cases are mild, but about 20% of cases become either severe or critical, according to data from the Chinese Center for Disease Control. Most patients develop fever, a dry cough, and shortness of breath — the three most common symptoms of COVID-19. In this context, thermometers are playing a fundamental role on identifying infected citizens.

<https://www.businessinsider.com/coronavirus-covid19-day-by-day-symptoms-patients-2020-2?r=US&IR=T>



PHOTO

Europa Press

Bench signalling

Madrid adapts public space for social distancing

https://i.dailymail.co.uk/1s/2020/03/31/12/26629198-8171255-image-a-40_1585654557868.jpg



SIGN

The Government of Malaysia

Malaysia sparks outrage after telling women to wear make-up at home during lockdown

Malaysia's government is facing widespread criticism from women's organisations and Malaysians alike after posting a series of "sexist" advice for wives and mothers working from home during the country's coronavirus lockdown. The Women, Family and Community Development Ministry (KPWKM) posted a series of infographics on its social media pages on Monday aimed at telling women how they can stay productive and keep the peace at home.

<https://www.independent.co.uk/news/world/asia/coronavirus-malaysia-outrage-women-ministry-makeup-lockdown-a9437851.html>



PHOTO

Stephen Lovekin

Together alone

This photographer has been capturing Brooklyn residents in isolation. "I hope that in this time of chaos and uncertainty, this project will help people feel more connected to the outside world!" Stephen Lovekin photographs residents in the New York City borough through their windows, asking each family to share a message for the world. Tap the link in our bio to see more of his photos

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



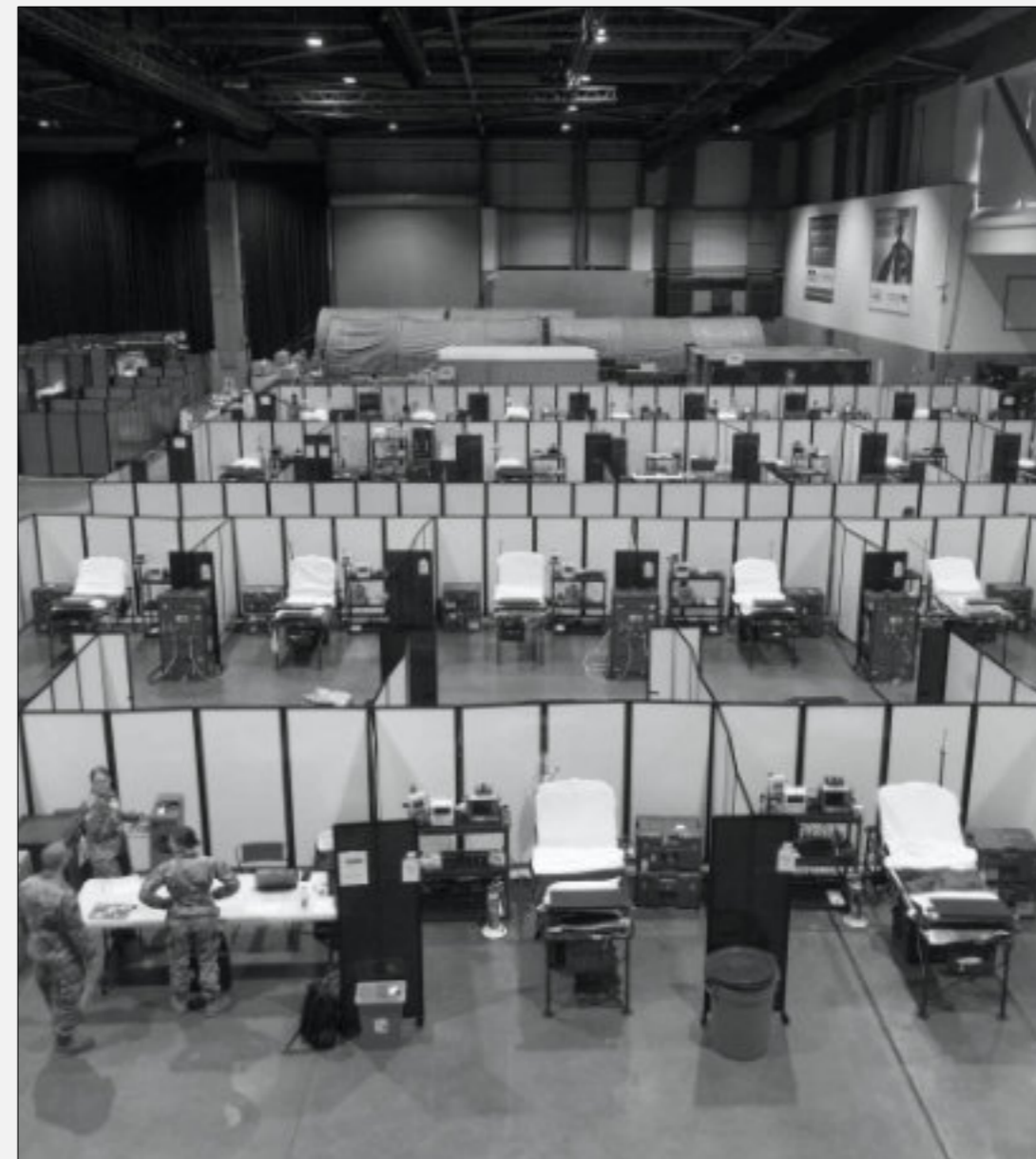
PAVILION

The Government of USA

A field hospital

Army soldiers from Joint Base Lewis McCord and Fort Carson build a field hospital at the Century Link Event Center in Seattle.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



PAVILION

The Government of USA

A field hospital

Beds are readied as Texas Army National Guardsmen set up a field hospital in response to the coronavirus pandemic at the Kay Bailey Hutchison Convention Center, March 31, 2020, in Dallas, Texas.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



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Mar

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DALLAS

FORMULA

Maggie Koerth, Laura Bronner and Jasmine Mithani

Why It's So Freaking Hard To Make A Good COVID-19 Model

Imagine a simple mathematical model to predict coronavirus outcomes. In other (more mathematical) words:

$$N(\text{dead}) = N(\text{susceptible population}) * \text{infection rate} * \text{fatality rate}$$

https://fivethirtyeight.com/features/why-its-so-freaking-hard-to-make-a-good-covid-19-model/amp/?twitter_impression=true

31
Mar

FiveThirtyEight

UPDATED 12:16 PM ET 03/31/2020

Why It's So Freaking Hard To Make A Good COVID-19 Model

By Maggie Koerth, Laura Bronner and Jasmine Mithani

Filed under Coronavirus

In other (more mathematical) words:

$$N(\text{dead}) = N(\text{susceptible population}) * \text{infection rate} * \text{fatality rate}$$

See? Easy. But then you start trying to fill in the blanks. That's when you discover that there isn't a single number to plug into ... anything. Every variable is dependent on a number of choices and knowledge gaps. And if every individual piece of a model is wobbly, then the model is going to have as much trouble standing on its own as a data journalist who has spent too long on a conference call while socially isolated after work.

Consider something as basic as data entry. Different countries and regions collect data in different ways. There's no single spreadsheet everyone is filling out that can easily allow us to compare cases and deaths around the world. Even within the United States, doctors are not consistently reporting the total number of deaths due to COVID-19.

The same inconsistencies apply to who gets tested. Some countries are giving tests to anyone who wants one. Others are ... not. That affects how much we can know about how many people have actually contracted COVID-19, versus how many people have tested positive.

And the virus itself is an unpredictable contagion, *hitting some areas more than others* — meaning that local demographics and health care access are going to be big determinants when it comes to the virus' impact on communities.

"As public health people, we're often working in a little bit of the dark, trying to make our best estimates with really uncertain information," said Dr. Bill Miller, a professor of epidemiology at Ohio State University.

So let's explore our super simple model to see why it's so hard to make a good model for something this uncertain.

THE FATALITY RATE

(Note: The flowchart in the image shows 'Infection Rate' leading to 'Total Deaths' and 'Fatality Rate'. Below this, another flowchart shows 'Infection Rate' leading to 'Cases' and 'Deaths', which then leads to 'Total Deaths'.)

MODELLING

309

PARTITIONS

Opposite Office

Opposite Office proposes to turn Berlin's Brandenburg airport into COVID-19 'superhospital'

Opposite Office, the architecture firm led by Benedikt Hartl, has proposed to transform Berlin's Brandenburg airport into a 'superhospital' for COVID-19 (coronavirus) patients. The airport, which has been under construction since 2006, was originally planned to open in 2011 before it encountered a series of delays and cost overruns. 'The airport is an example of incorrect planning and cost explosion,' says Hartl, who has written an open letter to the German minister of health, Jens Spahn.

<https://www.designboom.com/architecture/opposite-office-berlin-brandenburg-airport-covid-19-superhospital-03-31-2020/>



AIRPORT ADAPTATION

31
Mar

310

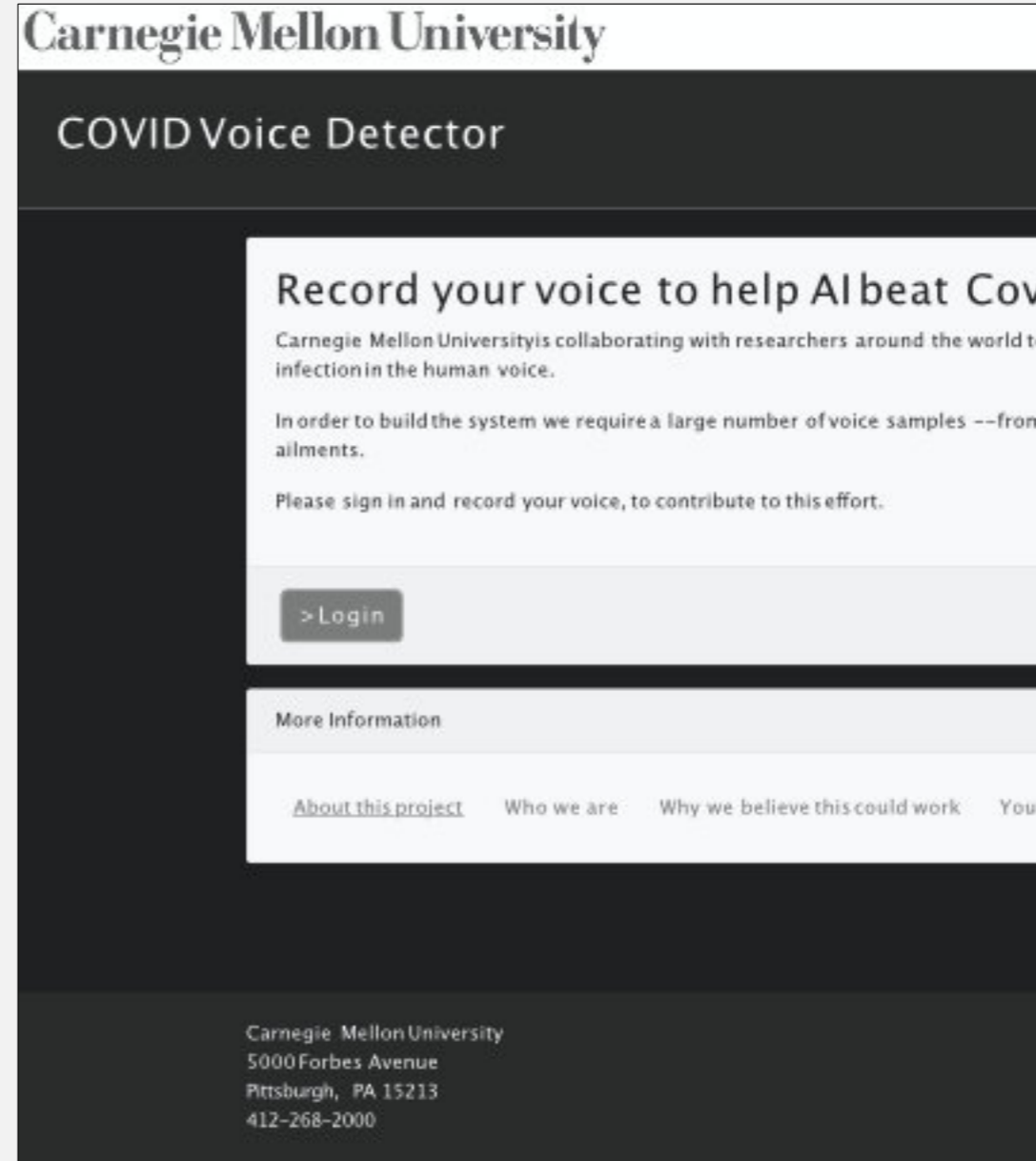
APP

Carnegie Mellon University

AI-powered app analyzes the user's voice to determine whether they are infected with the coronavirus

A new app could determine if you may have contracted the coronavirus just by analyzing your voice. Researchers at Carnegie Mellon University have developed an AI-powered system that analyzes your voice and provides a score on the likelihood it contains signatures of the virus. The technology picks up breathing patterns and other vital parameters, as the coronavirus greatly affects the lungs.

<https://www.dailymail.co.uk/sciencetech/article-8174045/AI-powered-app-analyzes-users-voice-determine-infected-coronavirus.html>



VOICE DETECTION

31
Mar

311

MAP & CHARTS

The Government of Italy

COVID-19 outbreak in Italy

A national Dashboard addressing total cases, active cases, nationality, age and distribution time-series analysis.

<https://unwfp.maps.arcgis.com/apps/opsdashboard/index.html#/4f74fc222b7041cd9cc3c52e62af1b8c>



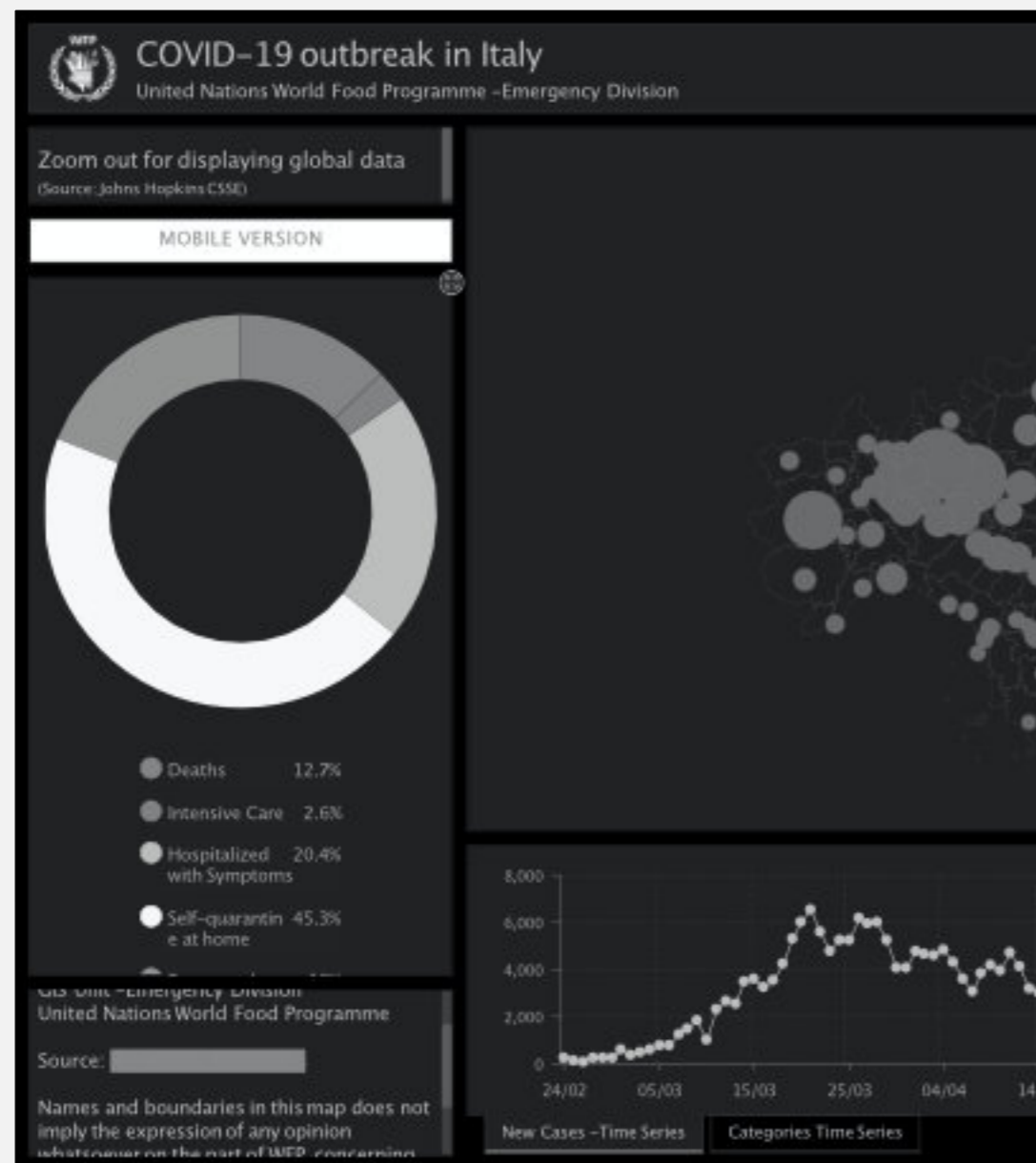
MAP & CHARTS

The Government of Japan

Coronavirus COVID-19 Japan Case (2019-nCoV)

Another national Dashboard addressing total cases, active cases, nationality, age and distribution time-series analysis.

<https://jagjapan.maps.arcgis.com/apps/opsdashboard/index.html#/641eba7fef234a47880e1e1dc4de85ce>



MAP & CHARTS

The Government of Ghana

COVID-19 outbreak in Ghana

Another national Dashboard, in this case in africa, addressing total cases, active cases, nationality, age and distribution time-series analysis.

<https://statsghana.maps.arcgis.com/apps/opsdashboard/index.html#/a22ebfb6d9cb47ff9ce87619d53f68e5>



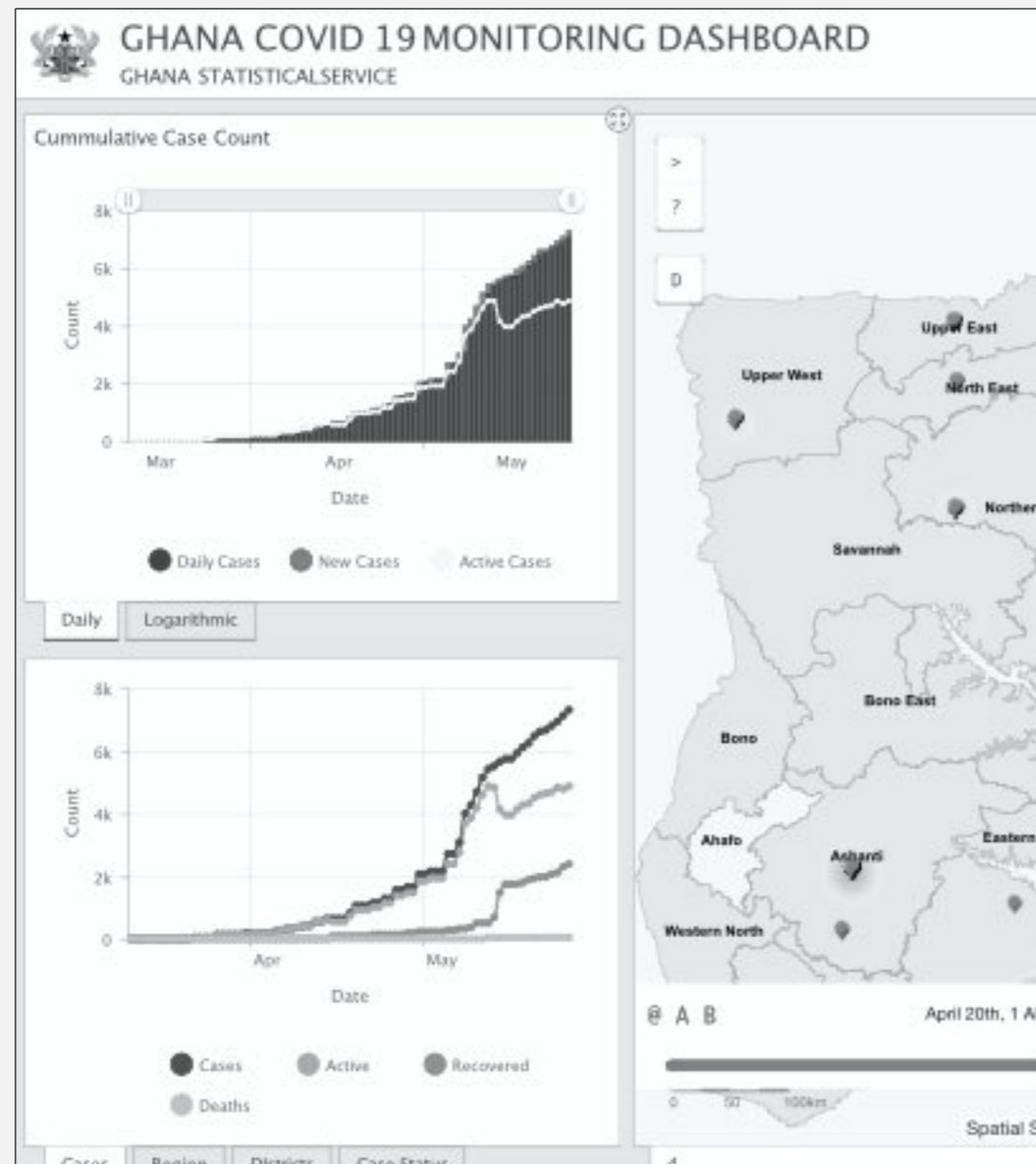
TESTER

Professor Maneesh Singh

Researcher claims to have created a COVID-19 test that costs £2 and gives results in five minutes

Professor Maneesh Singh, a scientist at Biocel Analytics in Hull, Yorkshire, says his coronavirus test costs only £2 and returns results in just minutes. Professor Singh's test works by shining infrared light onto a swab sample from someone's mouth to try and trigger a reaction which will signal a positive result

<https://www.dailymail.co.uk/news/article-8175423/Researcher-claims-created-COVID-19-test-costs-2-gives-results-five-minutes.html>



- GRAPHICS
- EMOTIONAL
- INDEPENDENT

UK

VIDEO

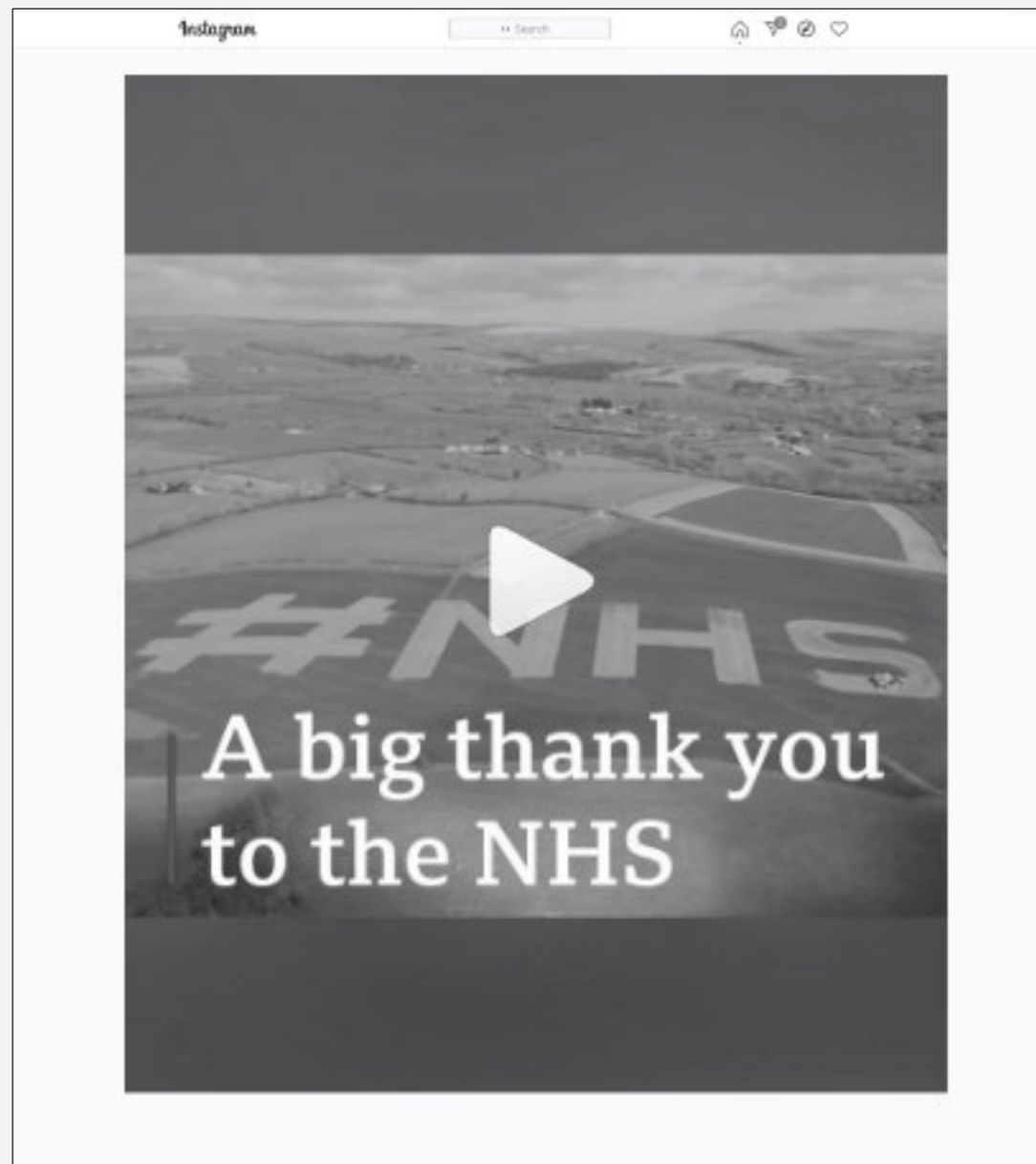
Matthew Alford and John Govier

NHS thanks

A huge thank you to all NHS workers. Matthew Alford from Devon, UK created it with help from farmer John Govier. It's over 100m high and almost 400m wide. It took two hours to complete, from planning to moving.

<https://www.instagram.com/p/B-chVEAplcQ/?igshid=w3f766j2yb8c>

OI
Apr



316

NHS THANKS!

USA

PAVILION

The Government of USA

A field hospital

Members of the Michigan National Guard assemble beds at the TCF Center which is being converted by the U.S. Army Corps of Engineers into a field hospital in Detroit, April 1, 2020.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>

- SHELTERS
- ADAPTATION
- GOVERNMENT

OI
Apr



DETROIT

317

OPEN CALL

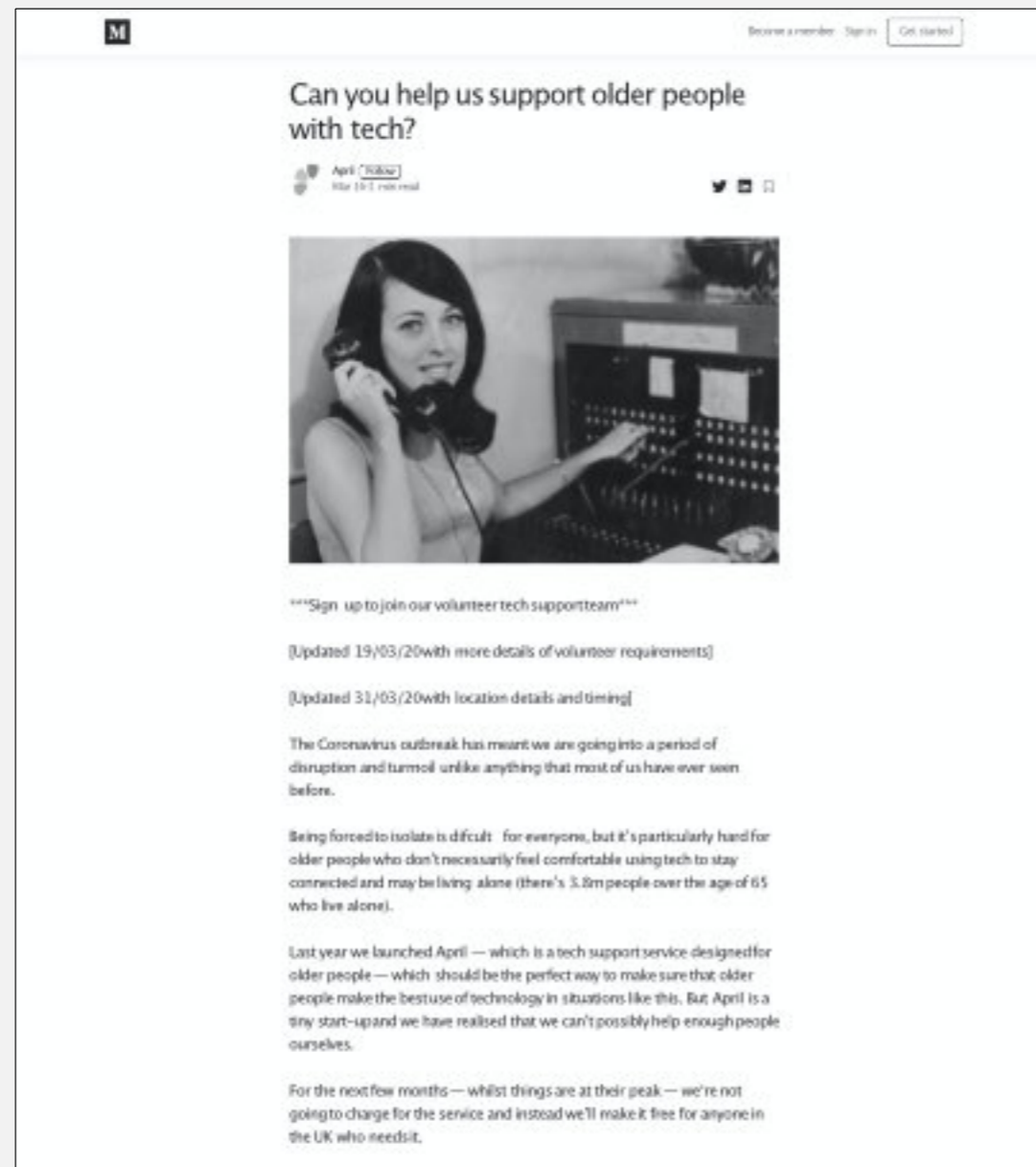
Various

Can you help us support older people with tech?

For the next few months — whilst things are at their peak — we're not going to charge for the service and instead we'll make it free for anyone in the UK who needs it. So we'll be a phone support team available to provide help on everyday tech issues. Think: setting up WhatsApp video, getting an email account or help shopping online at Tesco's.

But we can't do it on our own — we need help from YOU.

<https://medium.com/@myapriluk/can-you-help-us-support-older-people-with-tech-52a53ca6819f>



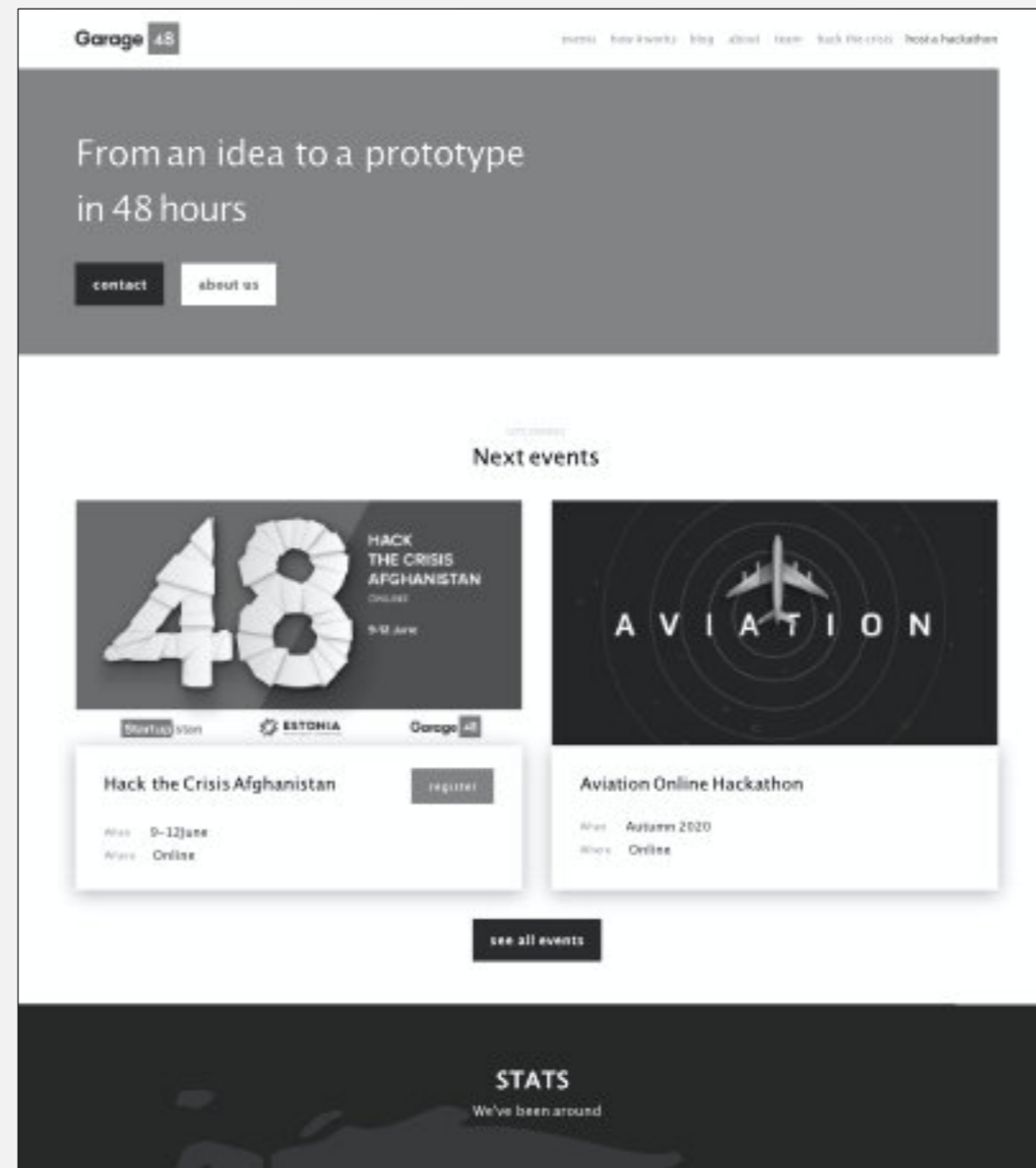
HACKATHON

Various

We have 67 hackathons confirmed and growing

Garage48 hackathon series was initiated to boost a local startup scene by bringing the Silicon Valley attitude to Eastern Europe as well as to other developing markets. More than 8 years later, after 140 hackathons organized in 43 different cities and 25 countries all across the globe, more than 1500 ideas pitched and nearly 800 prototypes built, the goal has remained the same- to enrich the startup ecosystems all across the globe from a grassroots level. We help to spark hackathons* across the world to emerge from the #covid19 crisis stronger together!

<http://garage48.org/hackthecrisis>



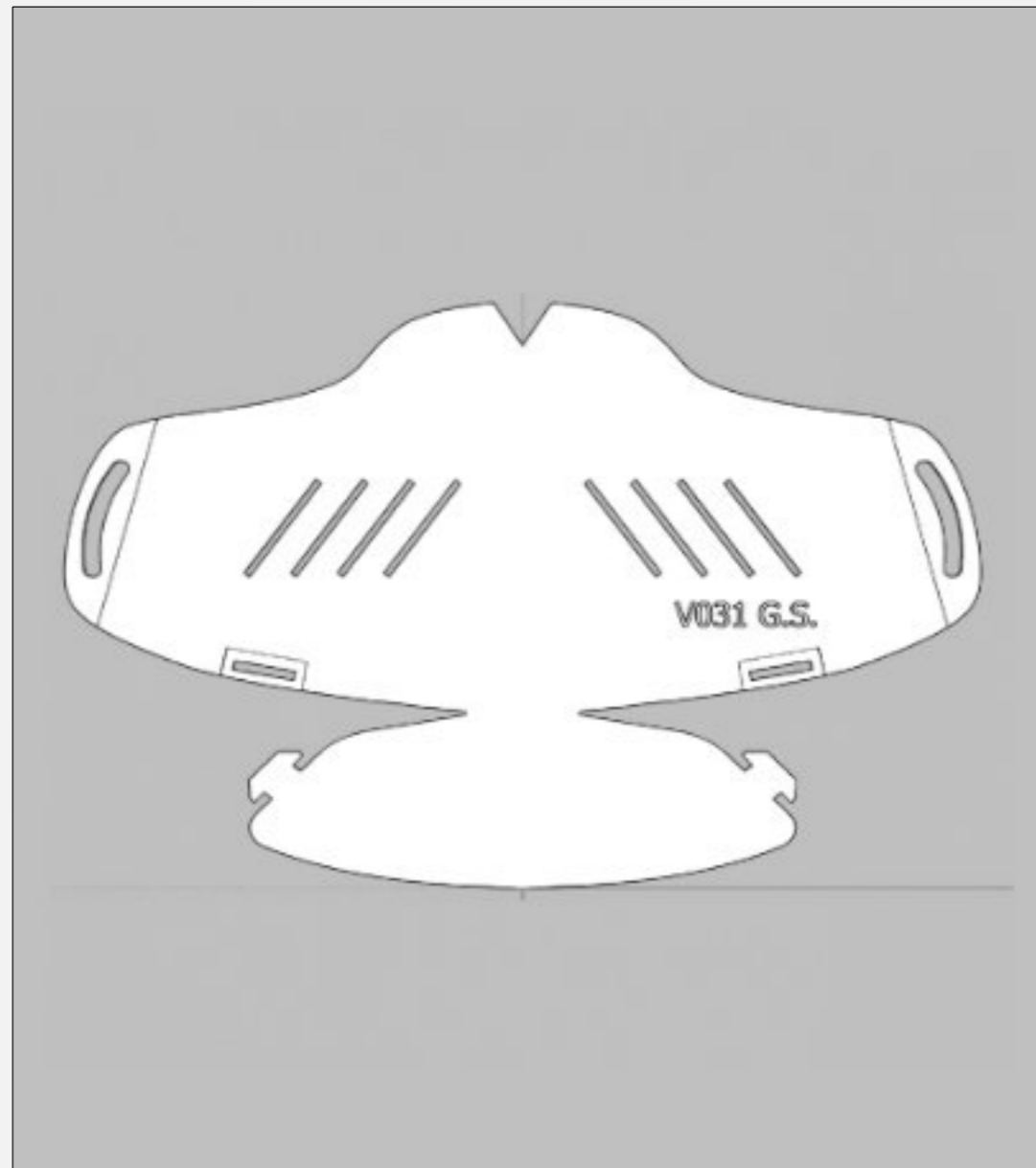
MASK

Jon Lareau

3D printed mask

Free download!

<https://www.opensourcemask.com/en/download1/item/35-jon-lareau-usa.html>



OI
Apr

320

3D PRINTED MASK

VALVE

David Ulibarri (EASD Alcoi), Sergio Ferrero y Miguel Ángel García (EASD València)

Professors from EASD València and EASD Alcoi design a breathing valve for doctors in ICU environment

Professors David Ulibarri (EASD Alcoi), Sergio Ferrero (EASD València) and Miguel Ángel García (EASD València), have designed and manufactured a valve, the "Tinky Winky Valve", which modifies the Decathlon Easybreath snorkel mask, transforming it into a self contained breathing apparatus for physicians working in ICU environment, including nebulized environments. It is their contribution to the fight against the COVID-19 virus.

<http://www.easdvalencia.com/profesores-de-la-easd-valencia-y-la-easd-alcoi-disenan-una-valvula-de-respiracion-para-medicos-en-ambiente-uci/>

O2
Apr



TINKY WINKY VALVE

321

- SHELTERS
- NEW BUILDING
- GOVERNMENT

Russia

BUILDING

The Government of Russia

New building in Moscow

Workers erect a Chinese-style building which will be a new hospital, on the outskirts of Moscow.

<https://abcnews.go.com/International/photos-field-hospitals-built-globe-coronavirus-pandemic-spreads/story?id=69962474>



322 MOSCOW

Spain

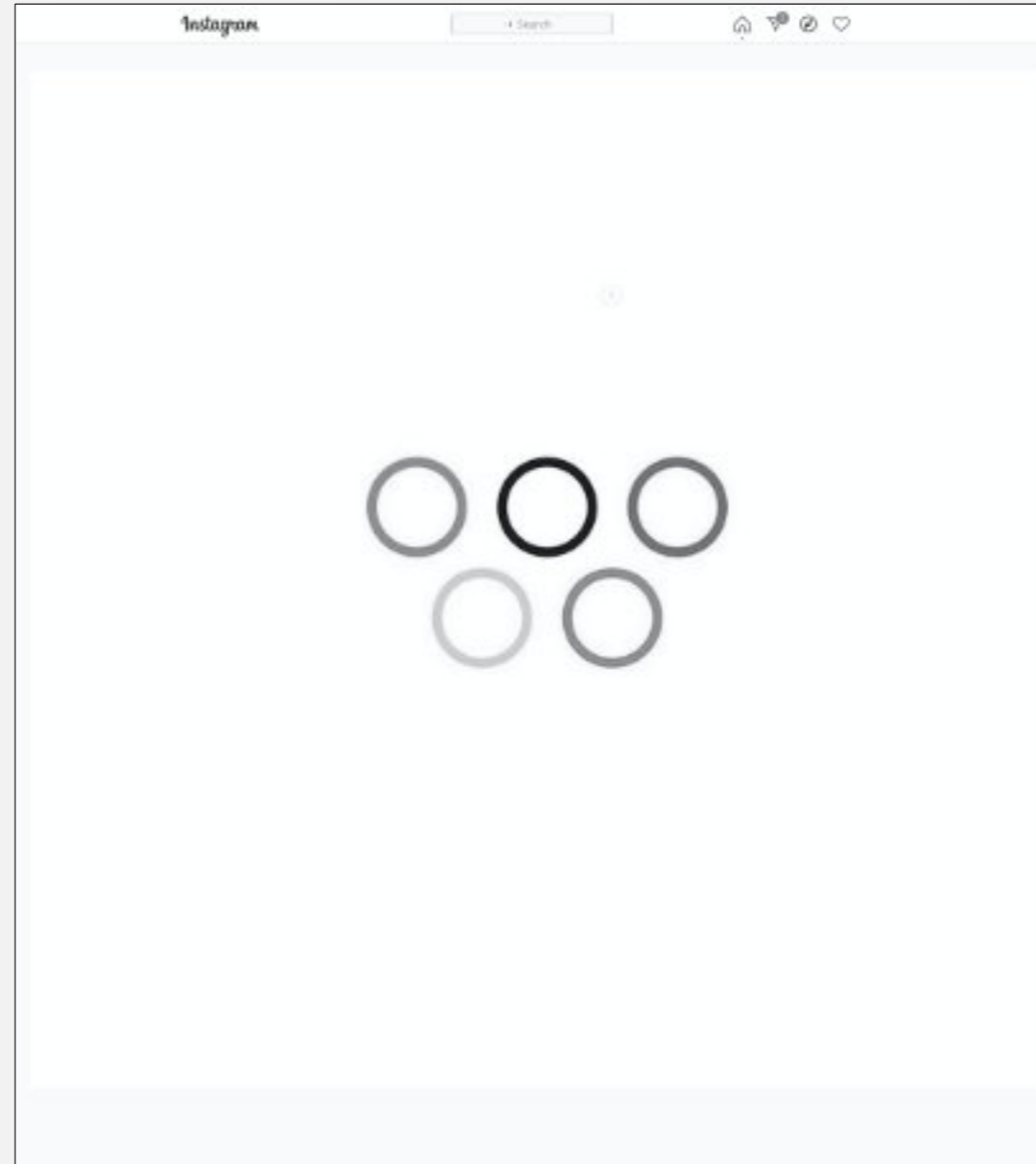
ILLUSTRATION

@juretovrljan

Social distancing logos

Graphic designer @juretovrljan modifies the logos of world-famous brands and adapts them to the COVID-19 situation. For example, the little mermaid of the Starbucks logo appears with a mask, the circles that form the MasterCard logo and the symbol of the Olympic Games move away to keep the safety distance.

<https://www.instagram.com/p/B-fYPfqKIIB/?igshid=10v8hminck18w>



DISTANCING 323

- GRAPHICS
- EDUCATIONAL
- INDEPENDENT

O2
Apr

O2
Apr

ILLUSTRATION

Dan Perjovschi, MoMA

MoMA commission

#DanPerjovschi creates deceptively simple drawings directly on newspapers, book covers, and museum walls that express complex ideas. Responding to recent local and global events, his newest group of line drawings, "The Time of the Virus" (2020), portray reality with pointed humour, often exposing civic behaviour and human fragility.

https://www.instagram.com/p/B-iXA_bj2d1/?igshid=19z1l8clm10cc



HEROES

RESPIRATOR

Czech Institute of Informatics, Robotics and Cybernetics (CIIRC)

ŠKODA leverages in-house MJF to 3D print 60 respirator sets a day

Czech automobile manufacture ŠKODA revealed that it is using its in-house Multi Jet Fusion 3D printing equipment to help in the production of respirators for front-line medical staff. Developed by the Czech Institute of Informatics, Robotics and Cybernetics (CIIRC) at the Czech Technical University, the respirator is designed to be reusable and could help protect doctors and nurses from COVID-19 exposure

<https://www.3dprintingmedia.network/skoda-mjf-3d-print-60-respirator-sets/>



CIIRC 3D MASK

POSTER

The Government of UK

'If you go out, you can spread it. People will die.'

A series of impactful new adverts have been launched by the UK government to deter people from going outside during the coronavirus lockdown. The new campaign, which is stronger than any which has been produced before, warn the public 'people will die' if they do not stay at home. Full-page adverts with the new messaging include the slogan: 'Stay home. Protect the NHS. Save lives.' They have been placed in most national newspapers and across a number of social media platforms.

<https://metro.co.uk/2020/04/02/terrifying-new-posters-released-uk-government-stop-coronavirus-spread-12499677/>

02
Apr



326 FEAR POSTER

SHIELD

Massachusetts Institute of Technology

MIT develops one-piece plastic face shields for coronavirus medics

MIT researchers have begun mass-producing disposable face shields for medical workers fighting COVID-19, which come flat-packed and can be folded into shape. In a bid to meet the increasing demand for personal protective equipment (PPE) amid the coronavirus pandemic, a team of researchers at the Massachusetts Institute of Technology (MIT) have designed disposable face shields that can be mass-produced rapidly. Made from a single piece of plastic, each shield comes in a flat design that can be swiftly folded into a three-dimensional structure when needed for use.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

03
Apr



FOLDING SHIELD

327

PROJECTION

@the.illuminator

Projections against Trump

Art-activist group @the.illuminator has protested the US government's response to the coronavirus pandemic by projecting calls to action onto a New York skyscraper.

<https://www.instagram.com/p/B-hsr44IEuX/?igshid=681jcm99lq68>



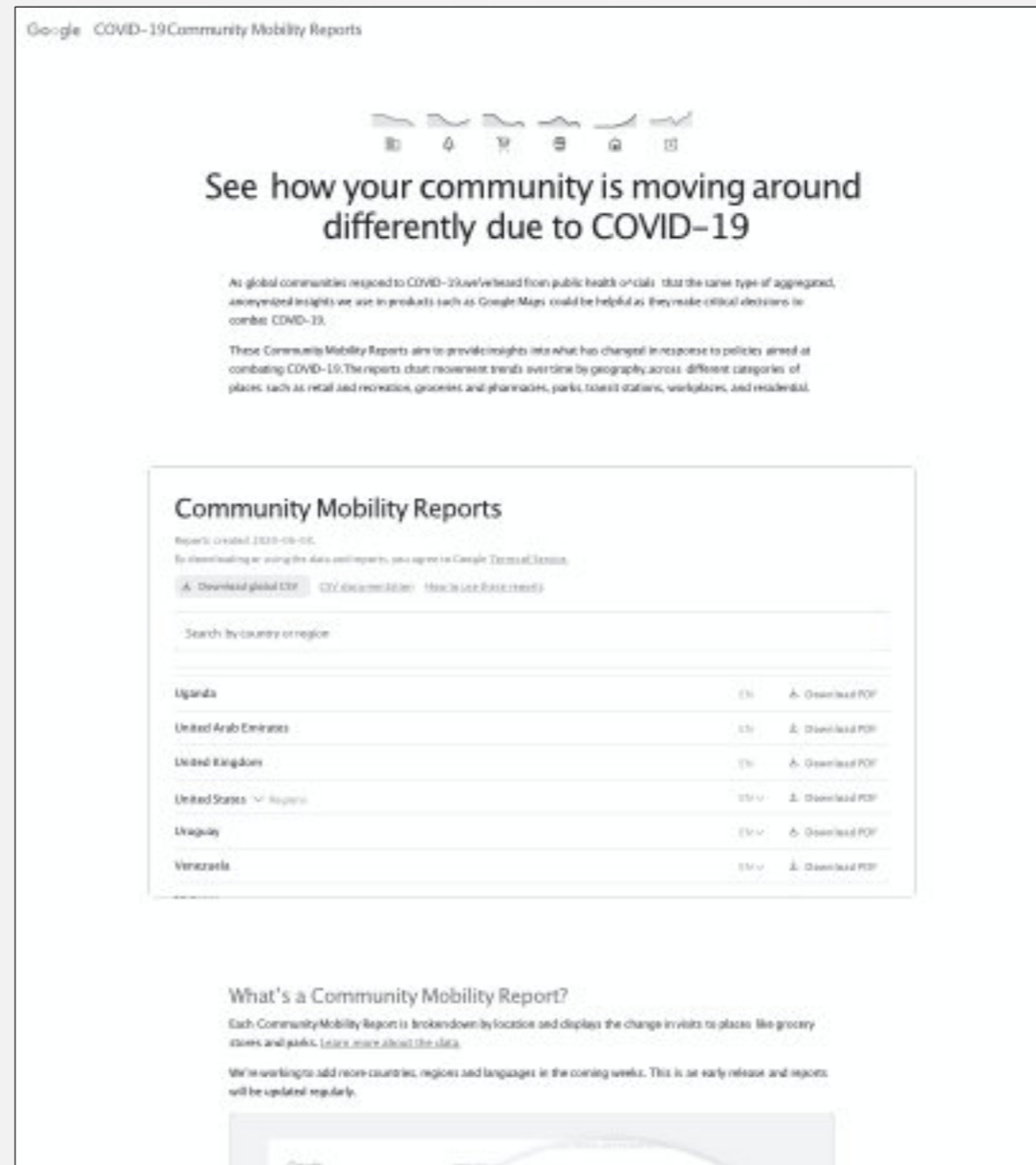
CHARTS

Google

Google reveals a staggering drop in movement of people around the world during the global coronavirus pandemic as trips to shops, parks and workplaces plummet

Google is using data harvested directly from users' devices to reveal how different countries, regions and cities are responding to the coronavirus lockdown. A constant stream of data from the tech firm is being published online and compared to the normal 'baseline' level from before coronavirus swept the globe. It covers data from 131 different countries and breaks it down to show drops in visits to shops, parks, workplaces, transit stations, pharmacies and offices.

<https://www.google.com/covid19/mobility/>



ILLUSTRATION

Andy Andersen

Artists Across the Internet Make Tributes to Dr. Anthony Fauci

Dr. Anthony Fauci, head of the National Institute of Allergy and Infectious Diseases and a member of the White House coronavirus task force, is by all accounts the man of the hour. While facing threats to his safety from rightwing elements, he is also being showered with praise and admiration, sometimes uncomfortably, as he became the most recognized voice in the United States on the coronavirus pandemic. On social media, Fauci is being celebrated with thousands of artistic tributes, from admiring portraits and cartoons to tattoos, sock puppets, and saint icons bearing his image.

<https://hyperallergic.com/554171/anthony-fauci/>



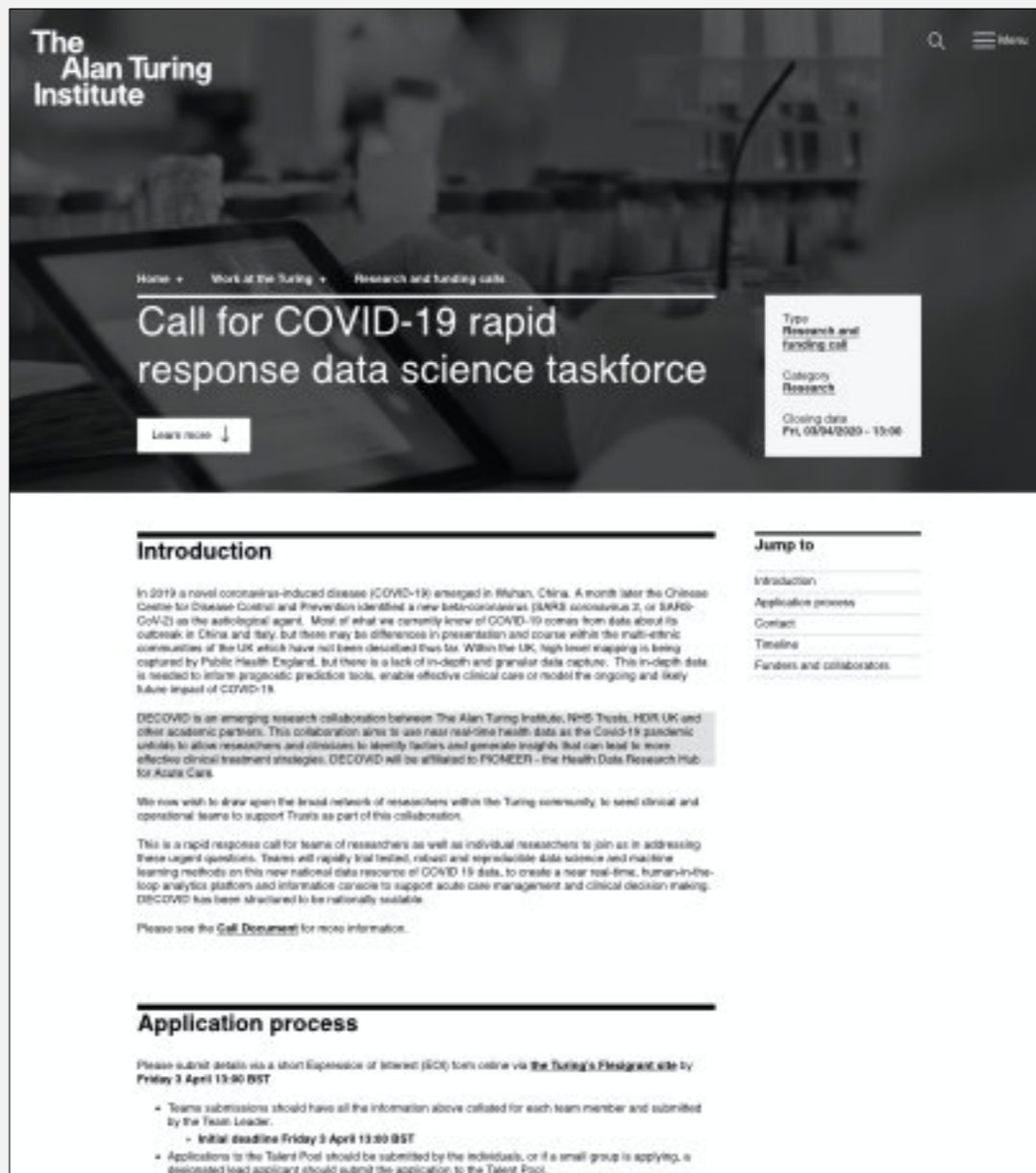
OPEN CALL

Turing Institute

Call for COVID-19 rapid response data science task-force

DECOVID is an emerging research collaboration between The Alan Turing Institute, NHS Trusts, HDR UK and other academic partners. This collaboration aims to use near real-time health data as the COVID-19 pandemic unfolds to allow researchers and clinicians to identify factors and generate insights that can lead to more effective clinical treatment strategies. DECOVID will be affiliated to PIONEER - the Health Data Research Hub for Acute Care.

<https://www.turing.ac.uk/work-turing/research-and-funding-calls/call-covid-19-rapid-response-data-science-taskforce>



SPECIFICATIONS

UK Government

Department of Health supplied two forms for British manufacturers to fill out if they could step up to help

The UK Government today penned an open letter pleading for firms who can make PPE and coronavirus tests to come forward (pictured, one of the forms).

<https://www.dailymail.co.uk/news/article-8184991/Government-pens-open-letter-pleading-PPE-antigen-antibody-kits.html>



APP

Various

DP3T - Decentralized Privacy-Preserving Proximity Tracing

We are an international consortium of technologists, legal experts, engineers and epidemiologists with a wide range of experience who are interested in ensuring that any proximity tracing technology does not result in governments obtaining surveillance capabilities which will endanger Civil society.

<https://github.com/DP-3T/documents>



Department of Health & Social Care

SEARCH RESULTS - Supply COVID-19 complete kits

Please provide the name and contact details for your organisation:

Name of your organisation

Company number

Registration name

Product name (if any) - please specify the name of the product or kit you are supplying

Primary contact name

Primary contact role or designation

Primary contact telephone number

Please check email address

Why GitHub? - Teams Enterprise Explore - Marketplace Pricing - Search - Sign in - Sign up

DP-3T / documents

Code Issues Pull requests Actions Projects Security Insights

Decentralized Privacy-Preserving Proximity Tracing - Documents

258 commits 1 branch 20 packages 0 releases 35 contributors

Branch name	File name	File size	Created
main	README.md	1.5 KB	7 days ago
main	SECURITY.md	1.5 KB	7 days ago
main	data_protection	Added data protection	1 day ago
main	graphics	Added CC-BY-SA 4.0 LICENSE to graphics	1 day ago
main	public_engagement_campaign	Added traditional Chinese language content	16 days ago
main	gitignore	Updated gitignore with macOS patterns	2 months ago
main	COVID-19 Response - White Paper L...	Added data document	2 months ago
main	DP3T - News of the Project.pdf	Document on the News of the DP3T Project	21 days ago
main	DP3T - Data Protection and Sec...	Added file via upload	2 months ago
main	DP3T - Exposure Score Calculat...	Revising PDF incompleteness	7 days ago
main	DP3T - Incompleteness Document...	Incompleteness form proposal	17 days ago
main	DP3T - Simplified Three Page Br...	Updated three page brief	2 months ago
main	DP3T - Optimal Authentication Anal...	Revising DP3T - Optimal Authentication Analysis and Considerations.pdf	1 day ago
main	DP3T White Paper.pdf	Revised version White Paper	16 days ago
main	DP3T - slides beta.pdf	add slides beta	2 months ago
main	FAQ.md	clarified anonymous communication question	2 months ago
main	README.md	add Alan Barak to README	10 days ago

DP3T - Decentralized Privacy-Preserving Proximity Tracing

This repository documents a secure, decentralized, privacy-preserving proximity tracing system. Its goal is to simplify and accelerate the process of identifying people who have been in contact with an infected person, thus providing technological foundations to help slow the spread of the SARS-CoV-2 virus. The system aims to minimize privacy and security risks for individuals and communities and guarantee the highest level of data protection.

Who we are

We are an international consortium of technologists, legal experts, engineers and epidemiologists with a wide range of experience who are interested in ensuring that any proximity tracing technology does not result in governments obtaining surveillance capabilities which will endanger civil society.

The following people are behind this design:

EPFL: Prof. Carmela Troncoso, Prof. Mehdi Payer, Prof. Jean-Pierre Hubaux, Prof. Marcel Salathé, Prof. James Larus, Prof. Edward Bunker, Dr. Wouter Lams, Thoma Stalder, Dr. Apostolos Pyrgidis, Dr. Daniele Jurek, Dr. Benjamin Szyban, Sylvain Chupel
ETHZ: Prof. Kenneth Paterson, Prof. Srijan Capkun, Prof. David Basin, Dr. Jia Benli, Dennis Jackson
KU Leuven: Prof. Bart Preneel, Prof. Nigel Smart, Dr. Dave Stebila, Dr. Aydin Abdol
TU Delft: Prof. Sjoerd Cuijter
University College London: Dr. Michael Veale
CSIR: Helmholtz Center for Information Security: Prof. Car Cremers, Prof. Michael Backes, Dr. Niko Ole Tippenhauer

OPEN CALL

UN

United Nations Global Call Out To Creatives - help stop the spread of COVID-19

The United Nations (UN) needs your help in translating critical public health messages, into work that will engage and inform people across different cultures, languages, communities and platforms. The shortlisted work will reach everyone, everywhere.

<https://www.talenthouse.com/i/united-nations-global-call-out-to-creatives-help-stop-the-spread-of-covid-19>



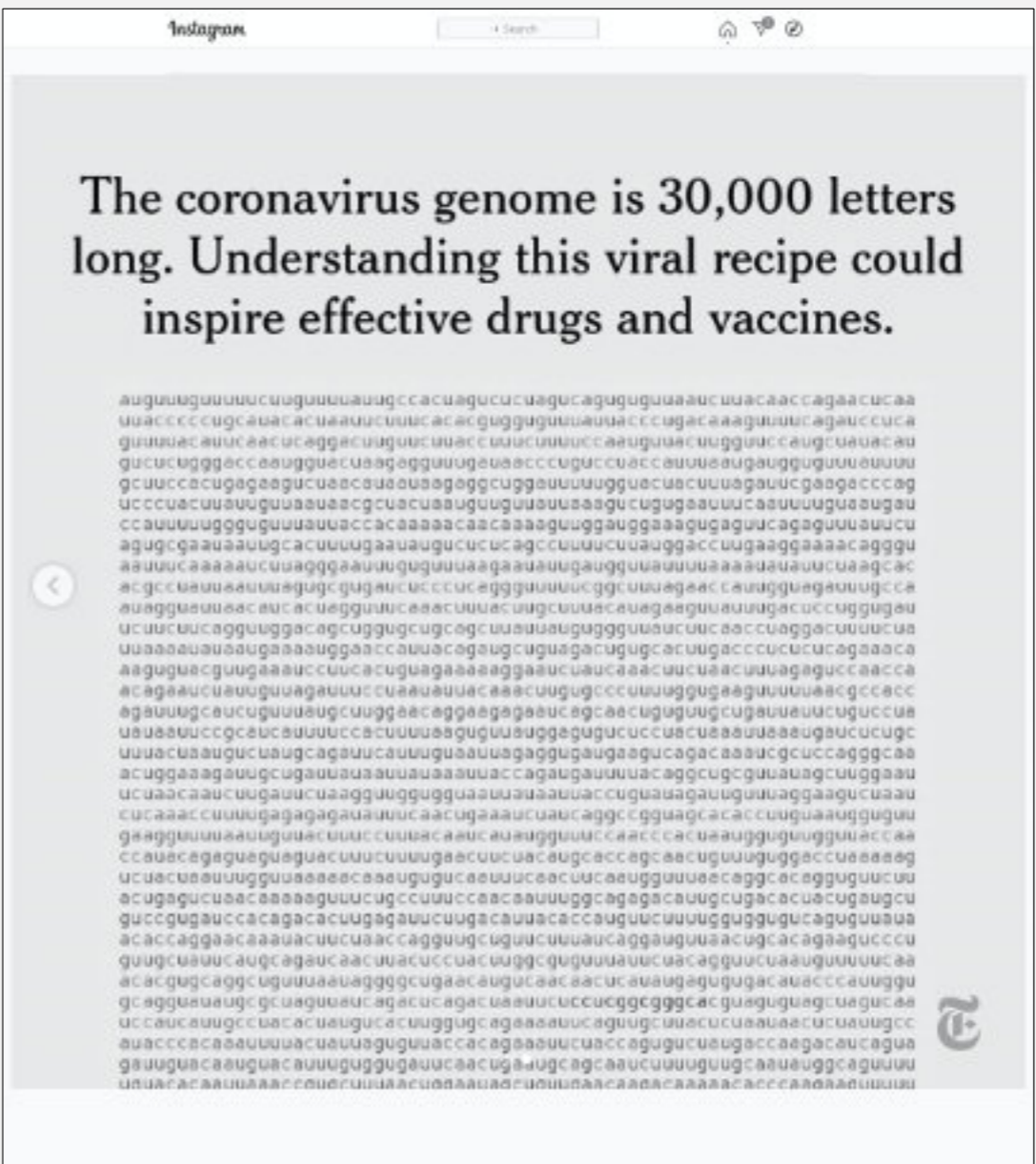
ILLUSTRATION

The New York Times

Coronavirus; 30,000 letters long genetic code

In January, scientists deciphered the genome of SARS-CoV-2, the virus that causes COVID-19. The sample came from a 41-year-old man who worked at the seafood market in Wuhan where the first cluster of cases appeared. Researchers are now racing to make sense of this viral recipe, which could inspire drugs, vaccines and other tools to fight the ongoing pandemic.

<https://www.instagram.com/p/B-KSYPWHKFz/?igshid=ys2s5icgdmvi>



PHOTO

Azahara Simón

Spanish nurse writes her name for patients

"Sometimes we forget that we are so covered that it is impossible for patients to know who is who, Who has asked something and that can generate confusion and anxiety. So if an idea sounds stupid but it works, it's not that stupid."

<https://www.instagram.com/p/B-kaqXDKGA8/?igshid=guiiruru10rs>



NURSES NAME

MASK

Ashley Lawrence

A mask for the deaf and hard of hearing community

Although many people have been creating reusable fabric masks, A key group have been excluded From this movement: The deaf and hard of hearing. Ashley Lawrence – A college student studying Education for the deaf and hard of hearing — Has designed a face mask with a clear window that Allows others to see and read lips and facial expressions. The prototype has caught the attention of Several hundreds of designboom's readers, Who have been discussing its benefits and potential Improvements on this instagram post

<https://www.designboom.com/design/diy-face-masks-protect-against-coronavirus-04-14-2020/>



DEAF MASK

TEST

Newcastle University

British scientists develop 'early warning' home test that can detect the earliest signs of COVID-19 before any symptoms appear

Scientists at Newcastle University have developed a test that could detect when someone has contracted the coronavirus before they display symptoms. The test could provide a result in seconds by detecting an early marker in the human body released after the immune system is provoked by infection. Though one of these markers - called neopterin - does not specifically identify COVID-19, it would show that the immune system has been activated.

<https://www.dailymail.co.uk/news/article-8188229/British-scientists-develop-early-warning-test-detect-coronavirus-symptoms-appear.html>

05
Apr

338

EARLY WARNING TEST

ILLUSTRATION

Julian Montague

Colouring poster

Following up on a request from yesterday's post, you can now find a colouring sheet pdf version of my distancing poster on my website

<https://www.instagram.com/p/B-m28ssBr7g/?igshid=1rcyKx5ef2f6p>

05
Apr

MONTAGUE PROJECTS

339

SHIELD

Jungil Hong and Matt Muller, et al.

RISD graduates design face shields to protect against coronavirus

The team said it aimed to create a simple design that can be reused and sanitised onsite. The velcro strap detaches from the shield so it can be disinfected in a bleach solution, while the vinyl cover is designed to lay down flat so it can be wiped clean. "We can sustain our business and provide a product that's a quarter the price of what's out there because our design is so much simpler," Muller said. "We have the capacity to make between 1,500 and 3,000 shields per day once we get going."

<https://www.dezeen.com/2020/04/06/five-risd-graduates-face-shields-to-protect-coronavirus/>



MINIMAL SHIELD

SHIELD

Foster + Partners

Foster + Partners designs reusable open-source face shield

Architecture studio Foster + Partners has created a laser-cut face shield to protect health workers from coronavirus, which can be disassembled and sanitised so that it can be reused. "Protecting front-line health workers is key and we felt this was an obvious way that we could contribute," Grant Brooker, head of studio at Foster + Partners, told Dezeen.

<https://www.dezeen.com/2020/04/06/foster-partners-reusable-open-source-face-shield/>



FOSTER+PARTNERS

APP

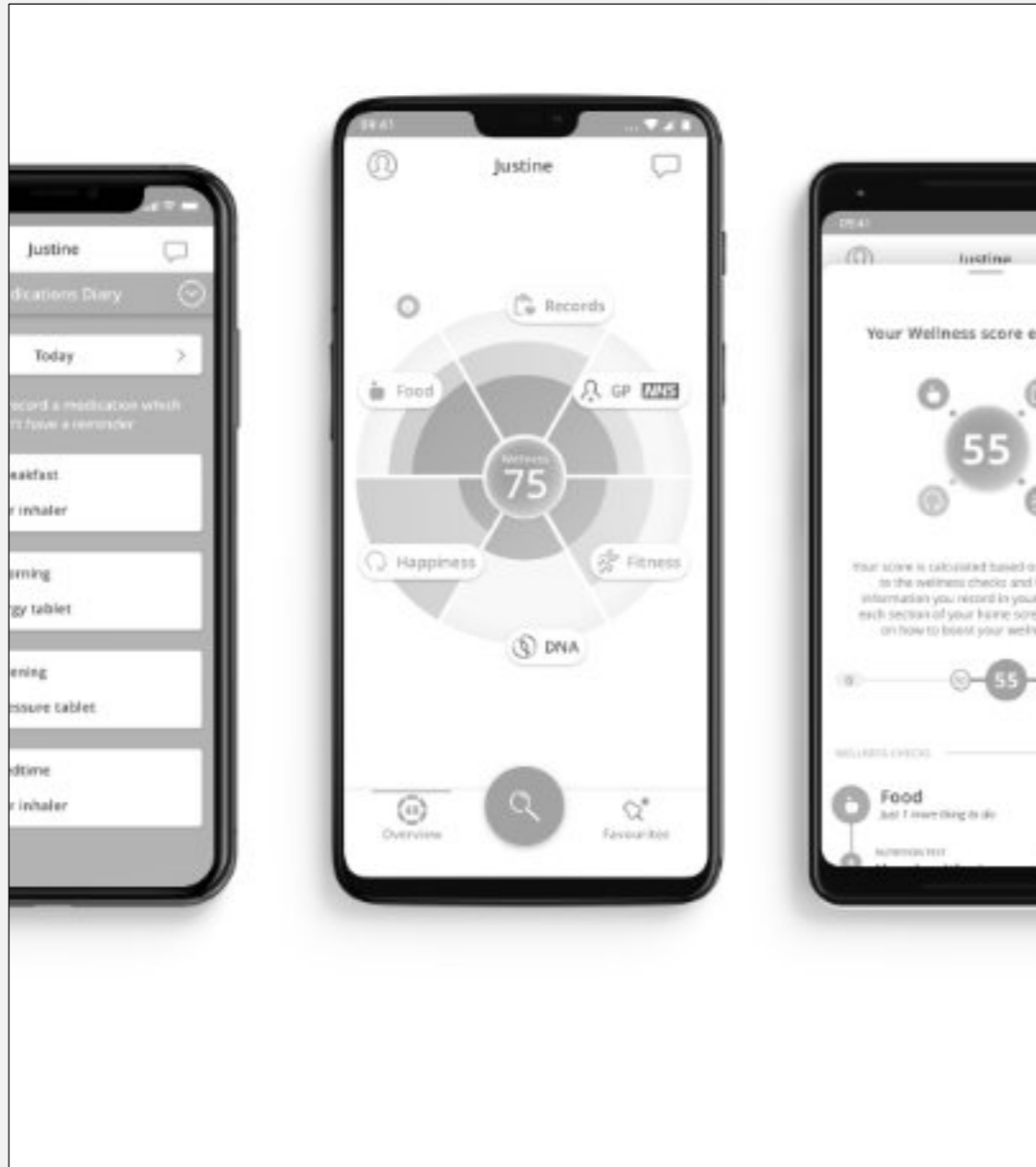
NHS

Social distancing 'heat map' reveals people in Middlesbrough are most likely to flout the new 'stay at home' rules designed to curb the spread of coronavirus

A new coronavirus heat map shows that Middlesbrough has the worst offenders when it comes to flouting the 'stay at home' rules during the coronavirus crisis.

The 'COVID-19 heat map' from NHS-backed health record app Evergreen Life shows people in the North Yorkshire town have been going outdoors the most.

<https://www.evergreen-life.co.uk>



EVERGREEN LIFE

SHIELD

Various

Companies from Spanish town El Cuervo collaborate in manufacturing protective shields

Up to eight companies located in El Cuervo de Sevilla are collaborating in the manufacture of protective screens against coronavirus that have already received the support of health professionals for being very versatile, comfortable and easy to carry and disinfect. The quality of the screens, which are produced altruistically and are delivered free of charge, has led the Virgen del Rocío University Hospital to choose them among other models and is processing their approval and patent.

https://sevilla.abc.es/provincia/sevi-cuervo-vuelca-fabricacion-pantallas-protectoras-contr-coronavirus-202004030735_noticia.html



JUNTOS

ILLUSTRATION

Laura Wächter

Dating confined, dating interruptus

Quarantine separated many couples overnight. What is it like to have a boyfriend or girlfriend in quarantine without being able to see each other? Complicated, but not impossible.

<https://www.instagram.com/p/B-o5GTaJDhc/?igshid=layas7au4e7l>



POSTER

@gabrielegalimbertiphoto

This virus is driving us apart, but when it will be over, I'm sure we'll all be stronger together

In central Milan, spaces that until a month ago hosted advertising now convey messages to raise awareness of coronavirus. Milan is not my hometown: I moved here only four months ago, after almost 15 years of travel— years in which I didn't have a base and the only place I could call home was Castiglion Fiorentino (Tuscany), the town where I grew up. Milan is the city where most of my friends live, those I want to be around, with whom I want to dine at home in the evening and plan holidays, concerts, parties. I haven't seen them for almost a month.

https://www.instagram.com/p/B-aAwseJ_eh/



APP

University of Cambridge

The aim of this research is to collect data to inform the diagnosis of COVID-19 by developing machine learning algorithms, based primarily on sounds of voice, breathing and coughing.

Upload short recordings of cough and breathing and report symptoms to help researchers from the University of Cambridge detect if a person is suffering from COVID-19. Healthy and non-healthy participants welcome.

<https://www.covid-19-sounds.org/en/>



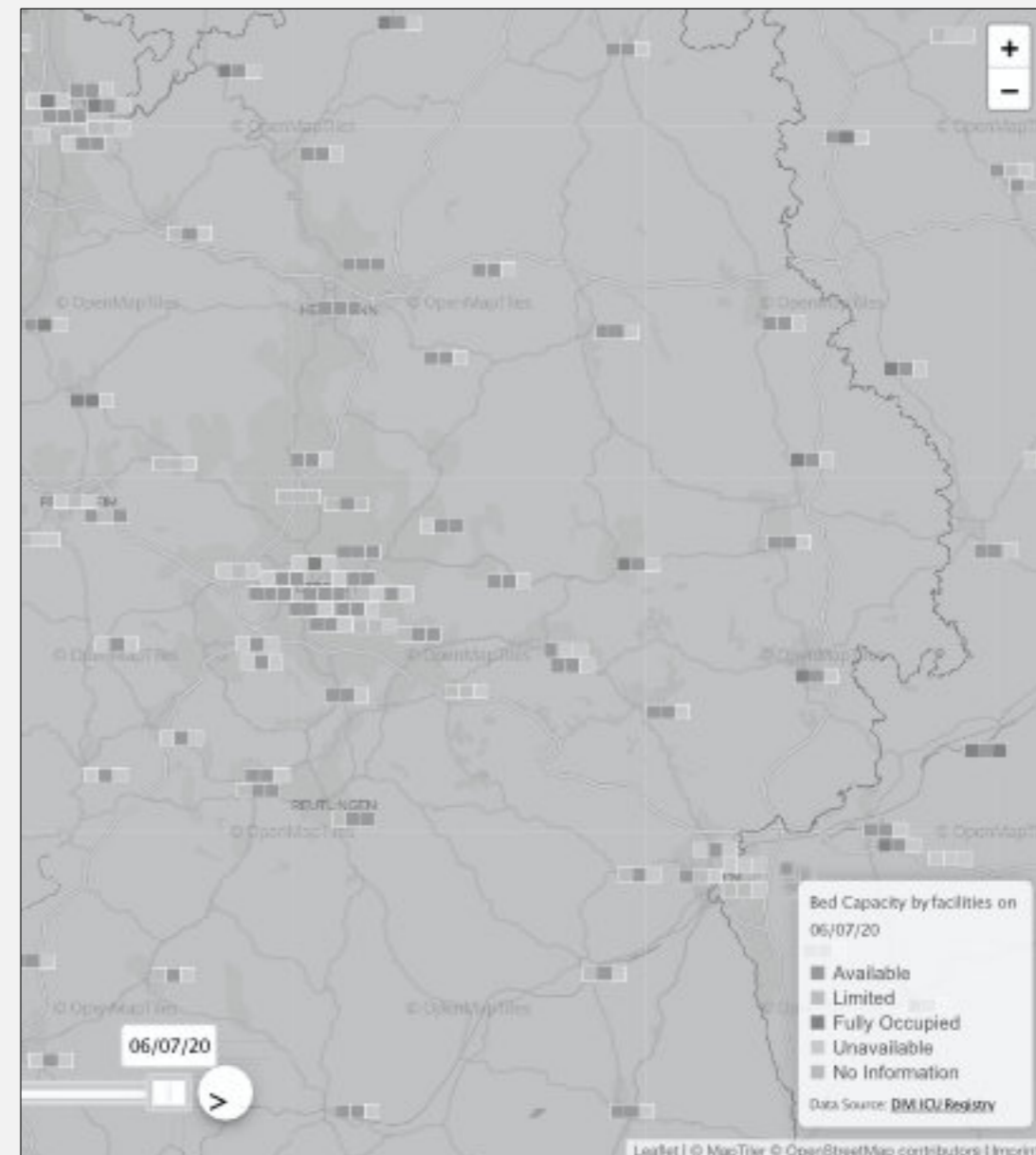
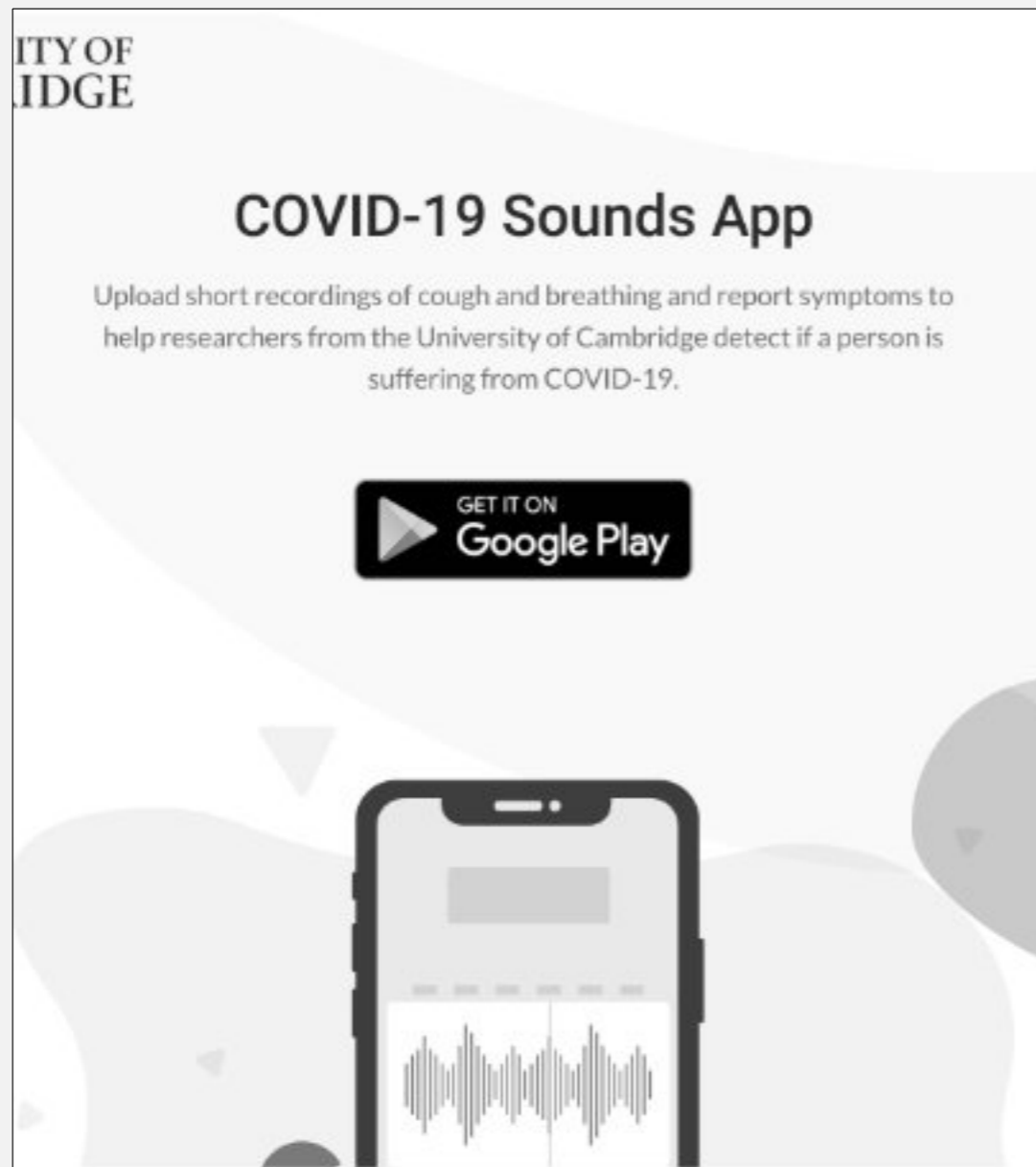
MAP

The Government of Germany

Hospitals - Bed Capacity

A registry of the German Interdisciplinary Association for Intensive and Emergency Medicine (DIMI); Current occupancy situation of intensive care areas of the hospital locations in Germany

<https://coronavis.dbvis.de/en/>



CHARTS

The Government of USA

Virginia Hospitals COVID-19 Dashboard

Hospitalizations, beds and ventilators available in the region.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



DOOR OPENER

makerspacebonn

3D-STL model for opening doors without touching the knobs. #FlattenTheCurve!

Print one for yourself, the people in your family and your local area to #FlattenTheCurve and put an end to this damn pandemic!

<https://github.com/makerspacebonn/CurveFlattener>



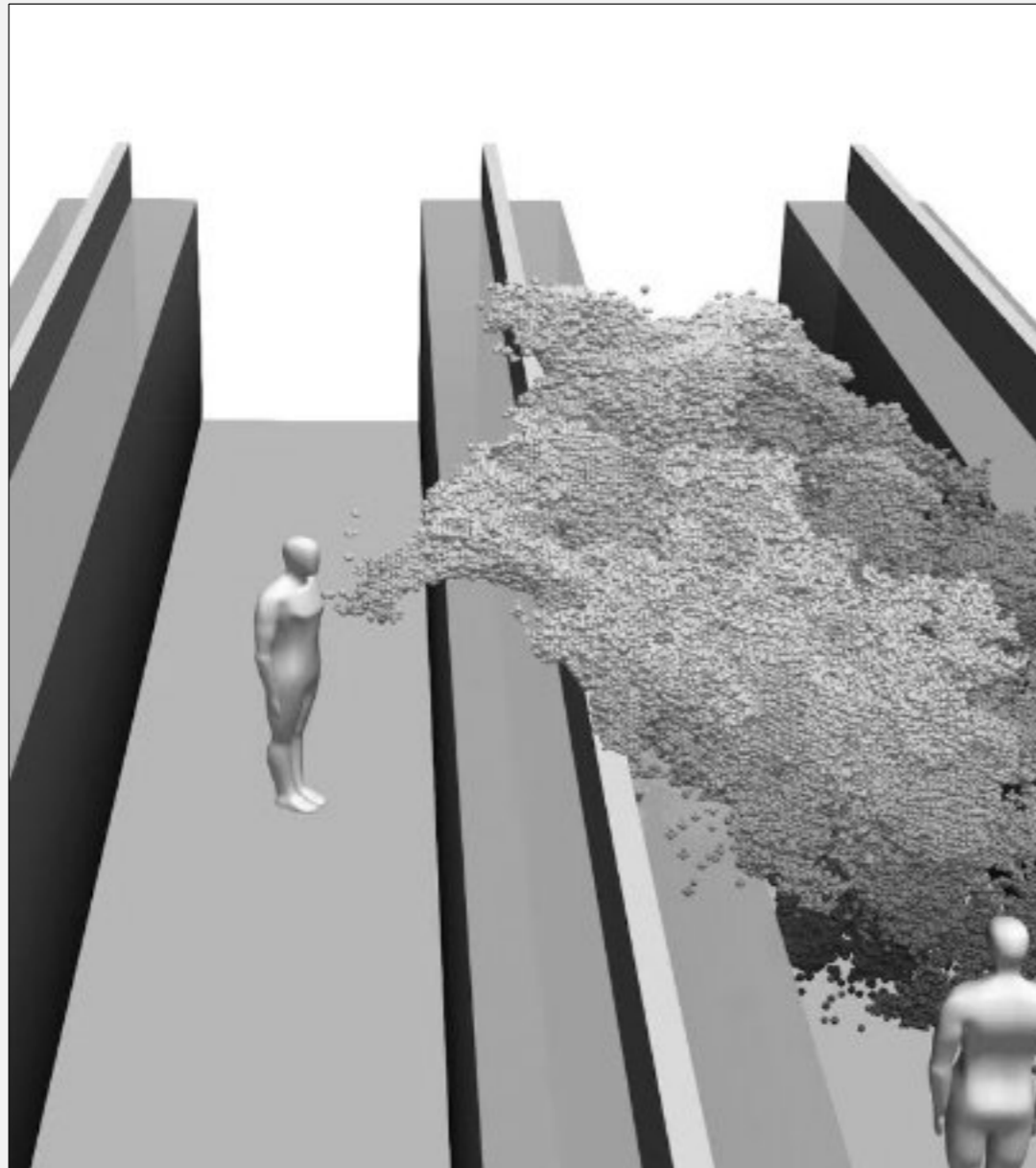
SIMULATION

Aalto university

Researchers modelling the spread of the coronavirus emphasise the importance of avoiding busy indoor spaces

A joint project carried out by four Finnish research organisations has studied the transport and spread of coronavirus through the air. Preliminary results indicate that aerosol particles carrying the virus can remain in the air longer than was originally thought, so it is important to avoid busy public indoor spaces. This also reduces the risk of droplet infection, which remains the main path of transmission for coronavirus

<https://www.aalto.fi/en/news/researchers-modelling-the-spread-of-the-coronavirus-emphasise-the-importance-of-avoiding-busy>



SPREAD

DOOR OPENER

StatGear

This clever keychain helps you avoid touching surfaces

With reports that coronavirus pathogens can live on surfaces for up to 72 hours, minimizing the frequency with which we touch things is paramount. But it's hard to do. You can't exactly avoid doorknobs and punching your PIN into card readers at the grocery store. Enter StatGear, a survival product company founded by a retired New York City paramedic.

<https://www.kickstarter.com/projects/34951038/hygiene-hand-antimicrobial-brass-edc-door-opener-and-stylus?lang=es>



STATGEAR

WEARABLE

Lifekey

COVID-19 public alert system and immunity I.D. band could save lives

Lifekey Immunity Bands help people get back to work, travel, and daily life by enabling easy, contactless sharing of up-to-date COVID-19 immunity status. By simply tapping the smart wristband with a smartphone, business operators and employers can instantly see whether a patron or employee is cleared for entry by a registered US physician who has vaccinated and/or tested the person for COVID-19 or its resultant antibodies.

<https://buckrail.com/covid-19-public-alert-system-and-immunity-i-d-band-could-save-lives/>



LIFEKEY BAND

POSTER

Allen Motor Group

We are giving this poster to everyone to download & display in your windows to show your gratitude to NHS workers of all kinds, from volunteer responders & social care workers to nurses & doctors

The Clap For Our Carers campaign in the evenings of 26th March and 2nd April saw people across the UK applaud them in an emotional show of support and many people are wanting to do their bit to boost the morale of those workers.

<https://www.allenmotorgroup.co.uk/covid19/free-poster/>



THANK YOU NHS



SHIELD

VYZR technologies

The BioVYZR is an outer layer that protects against airborne hazards in our daily environments

Its proprietary design provides a 360-degree seal to shield your personal space on all sides. It also features a built-in air purifying system to filter out pathogens, allergens, and pollutants from the air you breathe. The BioVYZR is a type of PPE known as a Powered Air Purifying Respirator (or PAPR) that has previously only been used in industrial or healthcare environments. The BioVYZR 1.0 packs this critical technology into a practical design that is accessible to everyone.

<https://www.vyzrtech.com/products/bio-vyzzr>



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BIOVYZR 1.0

OPEN CALL

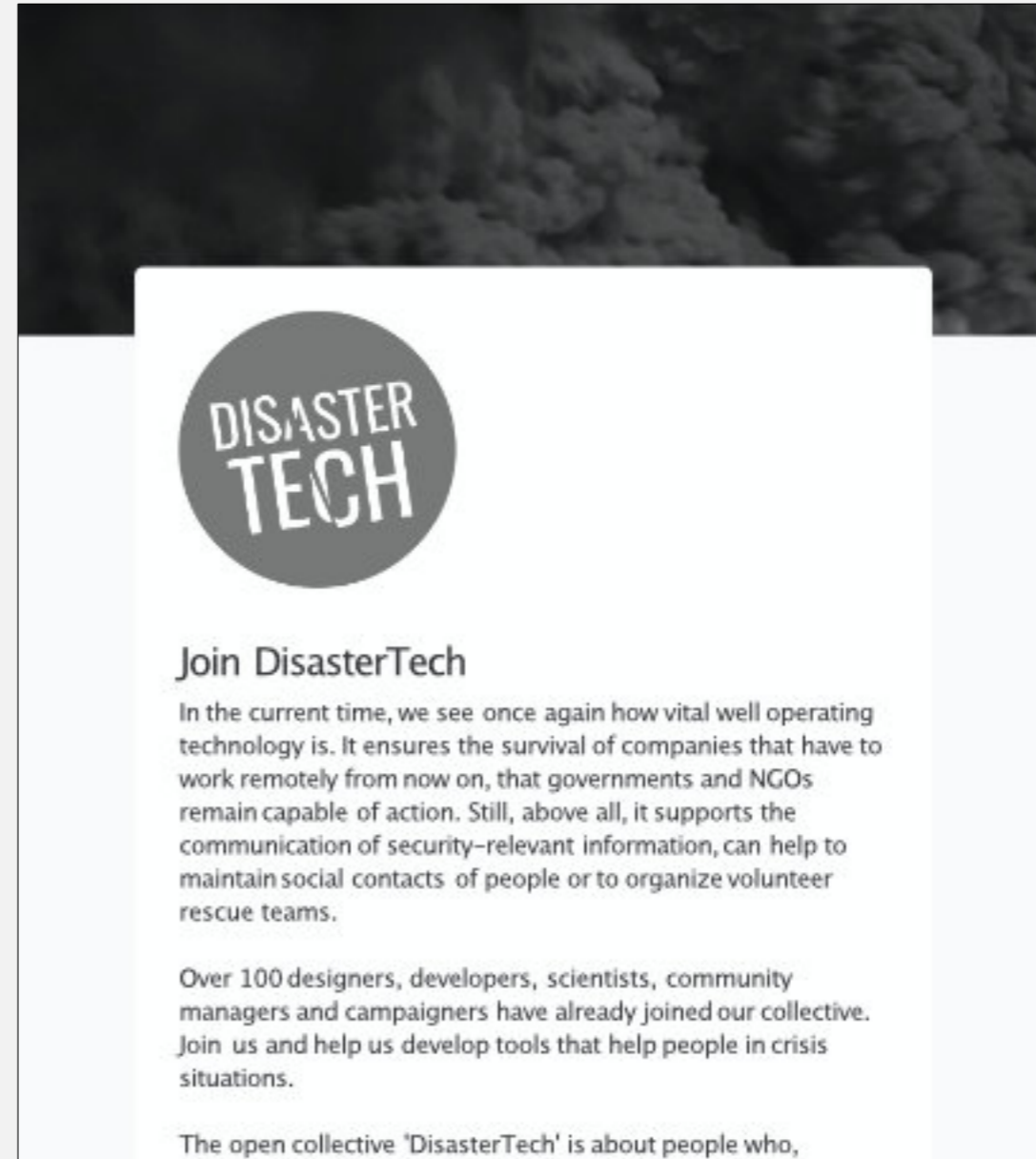
Fabio Techni and Giulio Fraser

Join DisasterTech

The open collective 'DisasterTech' is about people who, independently of COVID-19, create sustainable technologies to help people and organizations in crisis situations and to ensure that our society can continue to be united.

You want to help or have some concrete project ideas? Please join us:

<https://airtable.com/shrt5V5Xdni4uiKV8>



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Apr

DISASTERTECH

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UK

SHIELD

Researchers at the University of Cambridge and the University of Queensland

Simple origami face shield can be folded from single sheet of plastic

Researchers at the University of Cambridge and the University of Queensland have created the HappyShield, an origami face shield that is made by folding a sheet of clear plastic.

Designed by the University of Cambridge's Centre for Natural Material Innovation and University of Queensland's Folded Structures Lab, the HappyShield is made using curved-crease origami.

<https://www.dezeen.com/2020/04/08/origami-face-shield-single-sheet-plastic-coronavirus/>



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HAPPYSHIELD

USA

SHIELD

Nike

Nike designs personal protective equipment for Oregon hospitals

Nike has created face shields and lenses for air-purifying respirators with materials from the sportswear brand's footwear and clothing to help protect against Covid-19. Nike's face shield is modelled on a design that Oregon Health & Science University was already using, and features a foam-like band that is repurposed collar padding and clothing cords to tighten the mask. The shield's three parts are designed to come together in nine stages.

<https://www.dezeen.com/2020/04/08/nike-ppe-face-shield-coronavirus/>



SHIELD - NIKE

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CHART

The New York Times

How the Coronavirus Toll Grew

The first 5,000 deaths came in just over a month. In less than five days, the second 5,000 followed.

<https://static01.nyt.com/images/2020/04/08/nytfrontpage/scan.pdf>



WEARABLE

Information & eGovernment Authority

Bahrain launches electronic bracelets to keep track of active COVID-19 cases

Spearheaded by the Information & eGovernment Authority, the new wristbands are part of the government's effort in quickly tracing new cases of COVID-19, as well as keeping track of active cases.

<https://www.mobihealthnews.com/news/europe/bahrain-launches-electronic-bracelets-keep-track-active-covid-19-cases>



The New York Times
Late Edition
Today: Mostly cloudy, showers, high 63. Tomorrow: Mostly cloudy, cooler showers, especially morning, high 59. Watcher: Page B3.

VOL. CLXX ... No. 58,657 ... NEW YORK, WEDNESDAY, APRIL 8, 2020 ... \$5.00

How the Coronavirus Toll Grew
The first 5,000 deaths came in just over a month. In less than five days, the second 5,000 followed. Article and more graphics, Page A12.

BLACK AMERICANS BEAR THE BRUNT AS DEATHS CLIMB
Statistics From Certain Cities and States Highlight Entrenched Inequality

President Ousts Official Policing Relief Spending

In Wisconsin, Sense of Strain Shadows Vote

As Limits Ease, Wuhan Limpers Into New Life



MASK

Louis Vuitton

Branded mask

Model Jessica Hart showed off her new leather Louis Vuitton face mask while celebrating her 34th birthday recently.

<https://www.dailymail.co.uk/tvshowbiz/article-8199113/Russell-Crowe-wears-Australian-New-Zealand-flags-mask.html>



LOUIS VUITTON



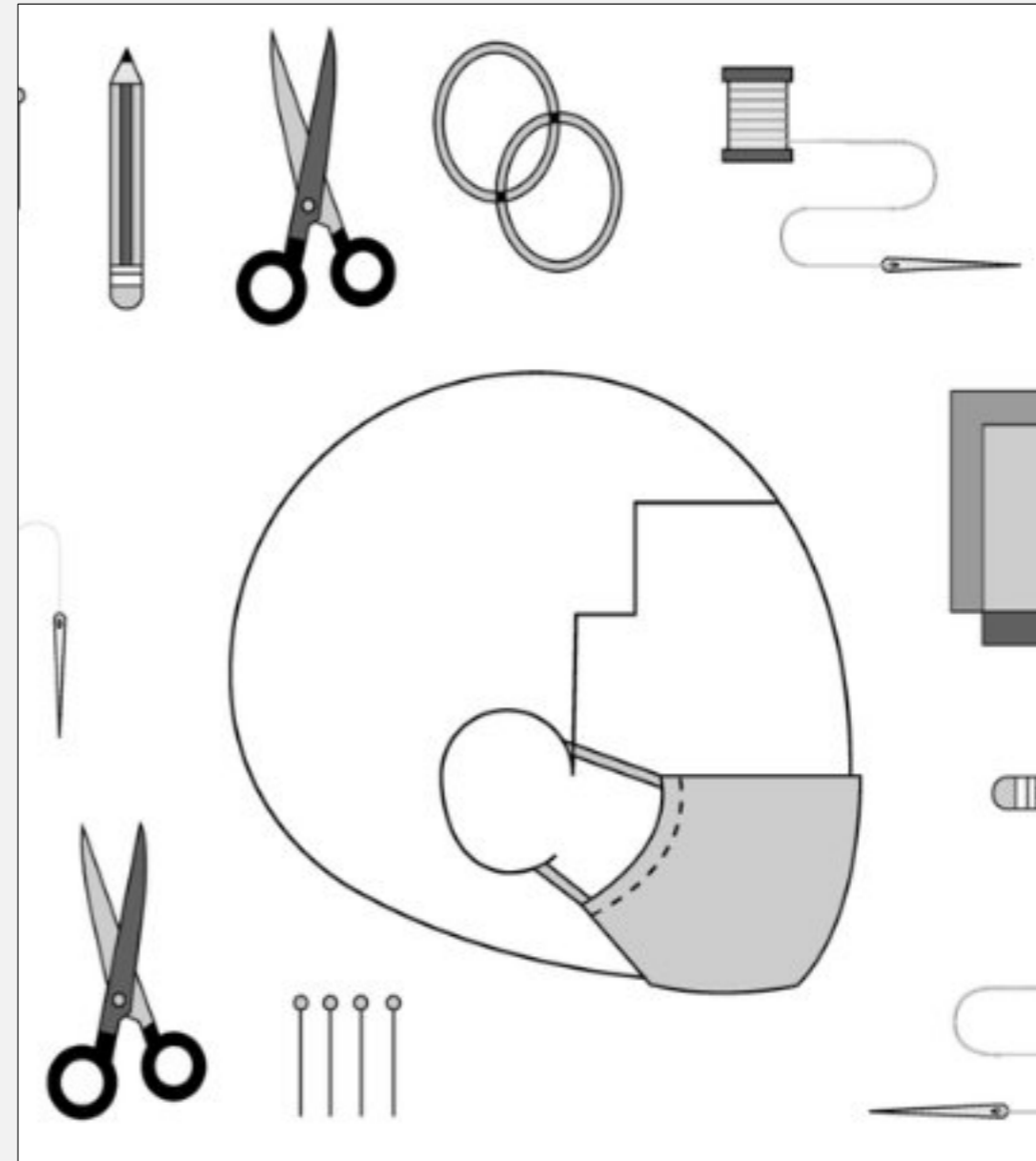
MASK

CNN

How to make your own face mask (whether or not you know how to sew)

The public should not purchase surgical masks or N95 respirators. Health care workers are facing shortages and need those masks to treat coronavirus patients. If you want to make a mask, here are simple, step-by-step instructions from the Centers for Disease Control and Prevention on how to do just that, whether or not you know how to sew..

<https://edition.cnn.com/2020/04/04/health/how-to-make-your-own-mask-wellness-trnd/index.html>



HOME MADE MASK



UCL team designs COVID-19 tracking system that stores data away from the cloud

Scientists say they have developed a Bluetooth tracing system which is ready to be deployed into an app in the fight against coronavirus. A team at UCL (University College London) have been working on the technology with data privacy experts to ease concerns of misuse.

Contact tracing has been widely discussed as a potential solution to help end the COVID-19 lockdown, following in the footsteps of Singapore, where a similar offering has been adopted.

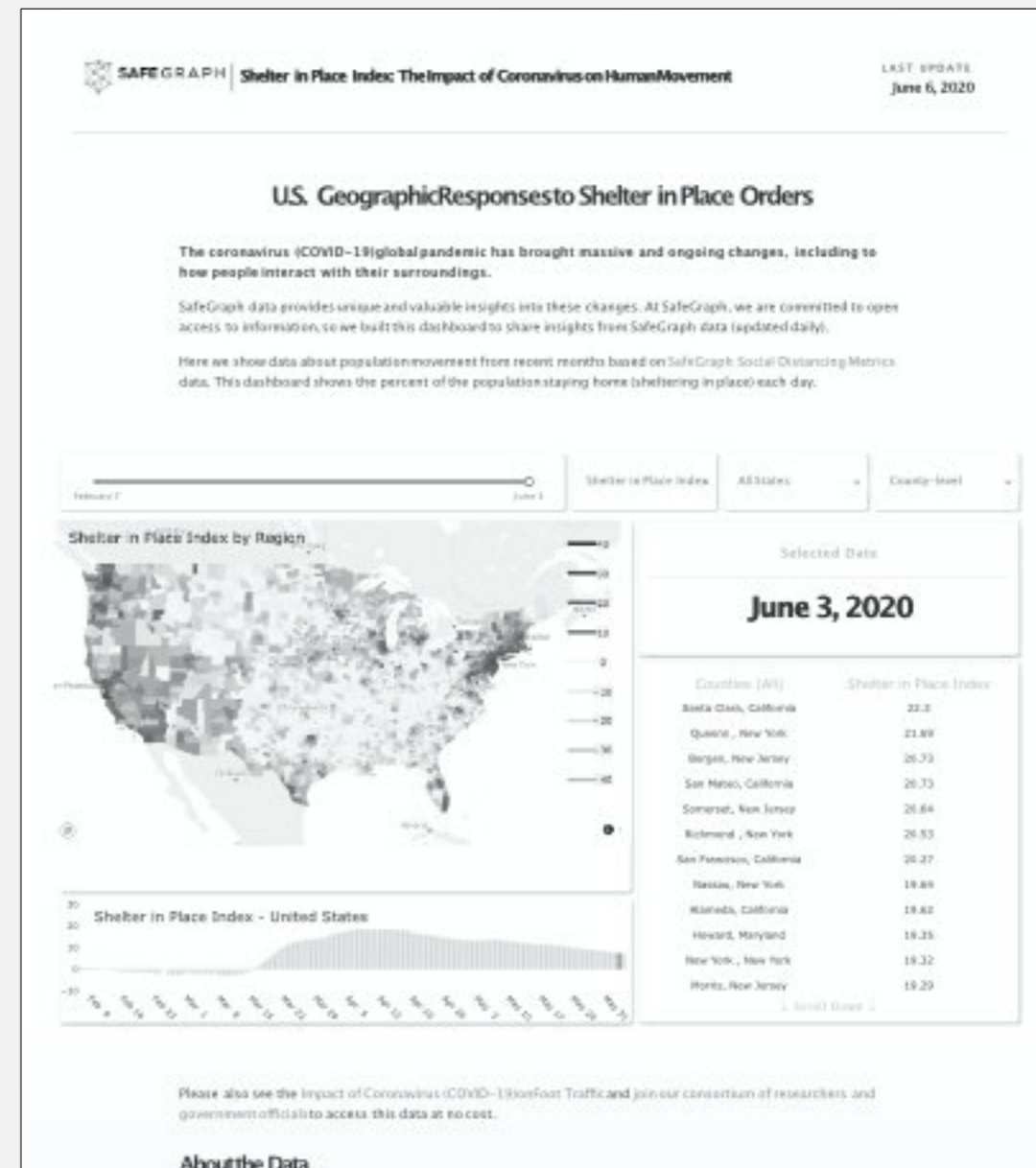
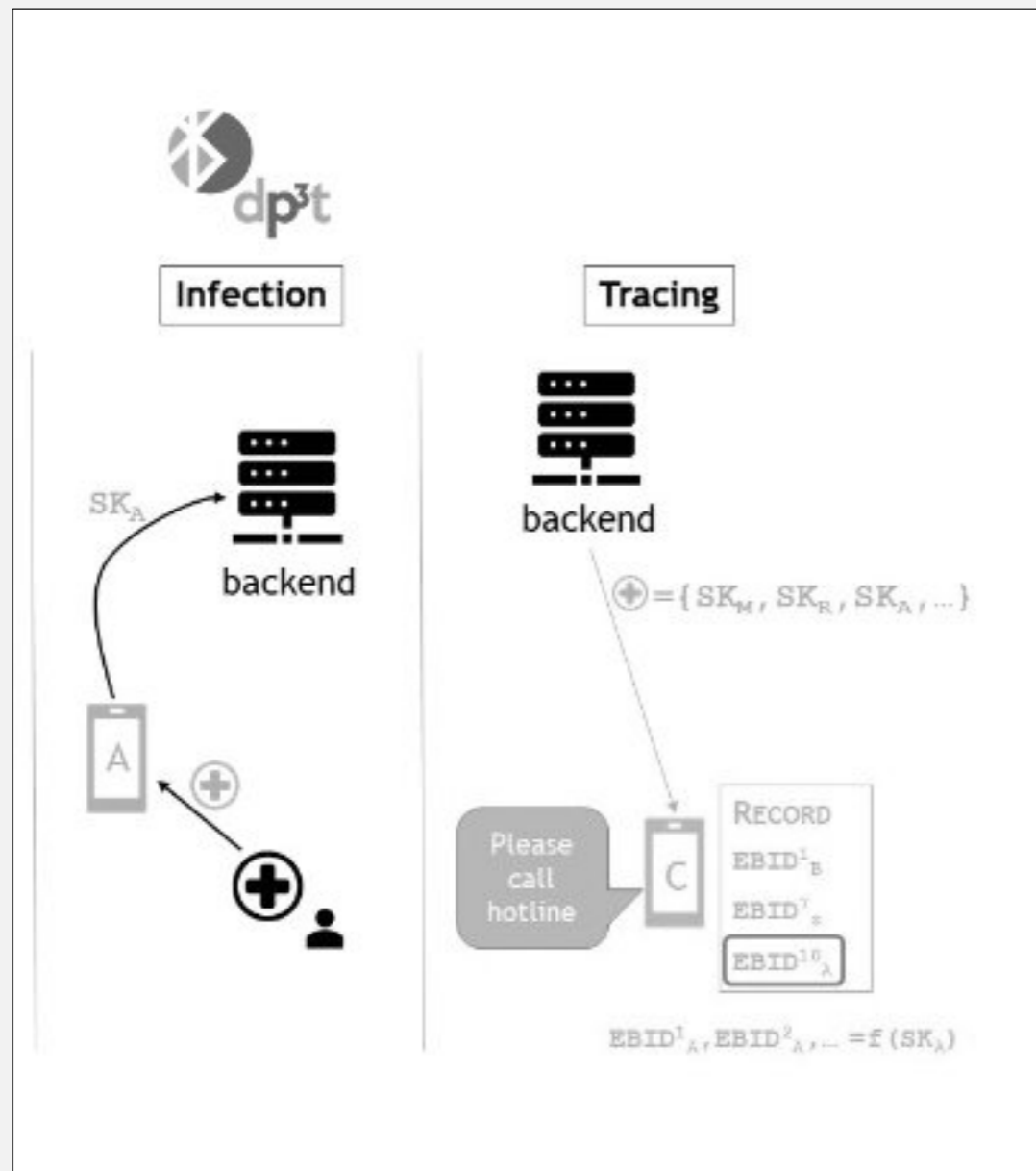
<https://techerati.com/news-hub/covid-19-tracking-system-cloud-centralised-ucl-coronavirus-2020/>



Shelter in Place Index: The Impact of Coronavirus on Human Movement

The coronavirus (COVID-19) global pandemic has brought massive and ongoing changes, including how people interact with their surroundings. SafeGraph data provides unique and valuable insights into these changes. At SafeGraph, we are committed to open access to information, so we built this dashboard to share insights from SafeGraph data (updated daily). Here we show data about population movement from recent months based on SafeGraph Social Distancing Metrics data. This dashboard shows the percentage of the population staying home (sheltering in place) each day.

<https://www.safegraph.com/dashboard/covid19-shelter-in-place>



SPECIFICATIONS

IDEO

COVID-19 Communication & Behavior Change

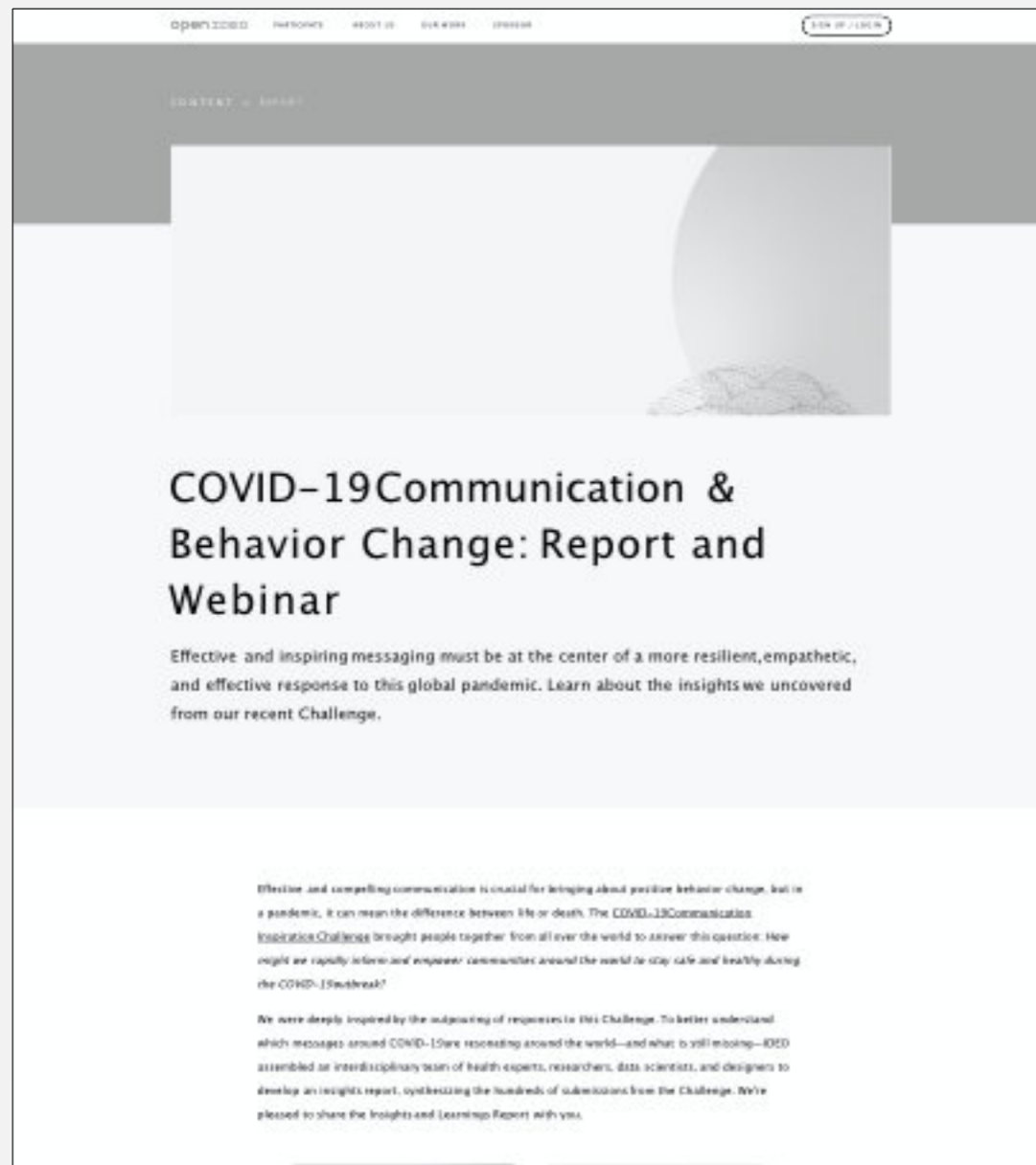
Effective and inspiring messaging must be at the centre of a more resilient, empathetic, and effective response to this global pandemic. Learn about the insights we uncovered from our recent challenge.

<https://www.openideo.com/content/covid-communication-report-webinar>



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IDEO WEBINAR



SHIELD

Apple

Apple reveals its coronavirus face shield design

Apple has unveiled its design for a face shield to protect health workers fighting coronavirus, which it is producing in the millions. Apple is the latest company to design a face shield, with architecture studio Foster + Partners, sports brand Nike, and researchers at Massachusetts Institute of Technology and University of Cambridge among the organisations that have already created versions of the personal protective equipment (PPE).

https://www.dezeen.com/2020/04/09/apple-coronavirus-face-shield/amp/?__twitter_impression=true



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APPLE SHIELD



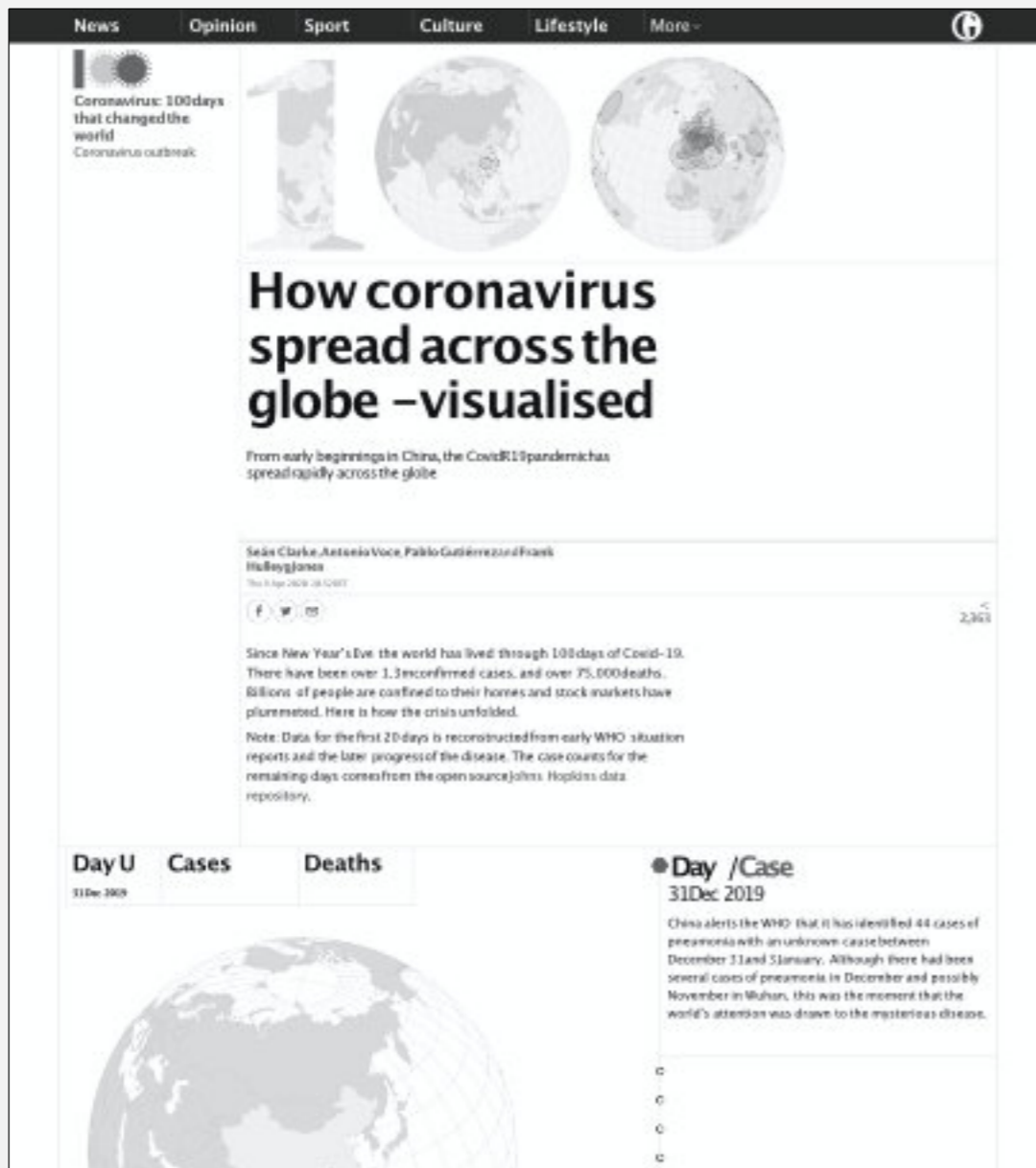
INFOGRAPHIC

Seán Clarke, Antonio Voce, Pablo Gutiérrez and Frank Hulley-Jones

How coronavirus spread across the globe - visualised

Since New Year's Eve the world has lived through 100 days of COVID-19. There have been over 1.3m confirmed cases, and over 75,000 deaths. Billions of people are confined to their homes and stock markets have plummeted. Here is how the crisis unfolded.

<https://www.theguardian.com/world/ng-interactive/2020/apr/09/how-coronavirus-spread-across-the-globe-visualised>



MASK

Roo Williams

Everymask is a DIY face mask that uses a custom harness creating the perfect seal

Governments around the world have urged citizens to protect themselves by wearing face masks in an attempt to slow contagion. The problem is that if handled incorrectly, these face masks can increase the wearer's chances of infection. Trying to find solutions to these problems, designer, developer and maker Roo Williams has created everymask — a DIY face mask designed with as little as possible, for as many people as possible and it is completely stitch-less.

<https://www.designboom.com/design/everymask-diy-facemask-roo-williams-04-11-2020/>



MASK

Oliver Perretta

Virus protection mask and ambient air quality monitoring for this week's render weekly challenge.

I was quite happy with how this came out considering the limited time I spent on the concept. Although I'm aware the best thing we can do now is use what we have to create the PPE people need and avoid unnecessary waste.

<https://www.instagram.com/p/B-0P-ftpViR/>



PAVILION

UK Government

A field hospital

The hospital at the NEC was built in less than fortnight. But since being officially opened by Prince William, it has yet to be put to use. It has a potential capacity to take up to 4,000 patients and is served by a giant mortuary at Birmingham Airport.

<https://www.expressandstar.com/news/Features/2020/04/25/empty-expanse-of-nightingale-hospital-at-nec-is-tribute-to-nhs/>



MASK

Atmoblue

Will respiratory masks become a standard accessory in the future?

Atmoblue is a wearable smart-purifier that delivers 99.97% purified air to let you breath clean air freely while offering the added benefit of mobility, style, and comfort when compared to traditional respiratory masks.

https://www.instagram.com/p/B_44ikiJkrl/?igshid=po1uxlz0v61x

MASK

MICYAN Design

The 3M respirator/shield concept

Instead of designing a face mask, I designed a combination of respirator and face shield for healthcare workers in the front line. The voice indication light in the front will be able to enhance the interaction between healthcare workers and patients.

https://www.instagram.com/micyan_design/



INFOGRAPHIC

Apple and Google

How Apple and Google Are Enabling Covid-19 Contact-Tracing

The tech giants have teamed up to use a Bluetooth-based framework to keep track of the spread of infections without compromising location privacy.

<https://www.wired.com/story/apple-google-bluetooth-contact-tracing-covid-19/>

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ILLUSTRATION

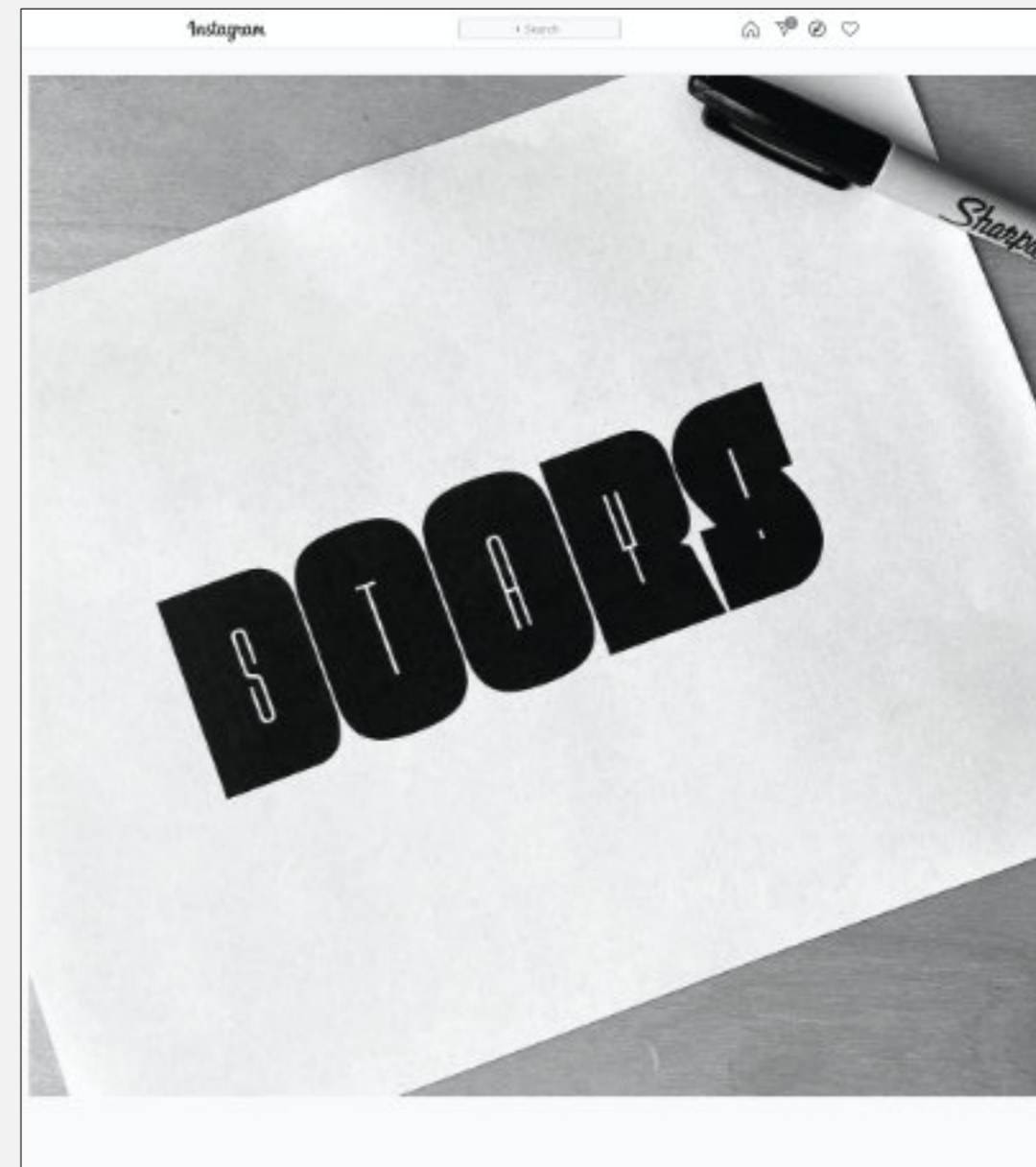
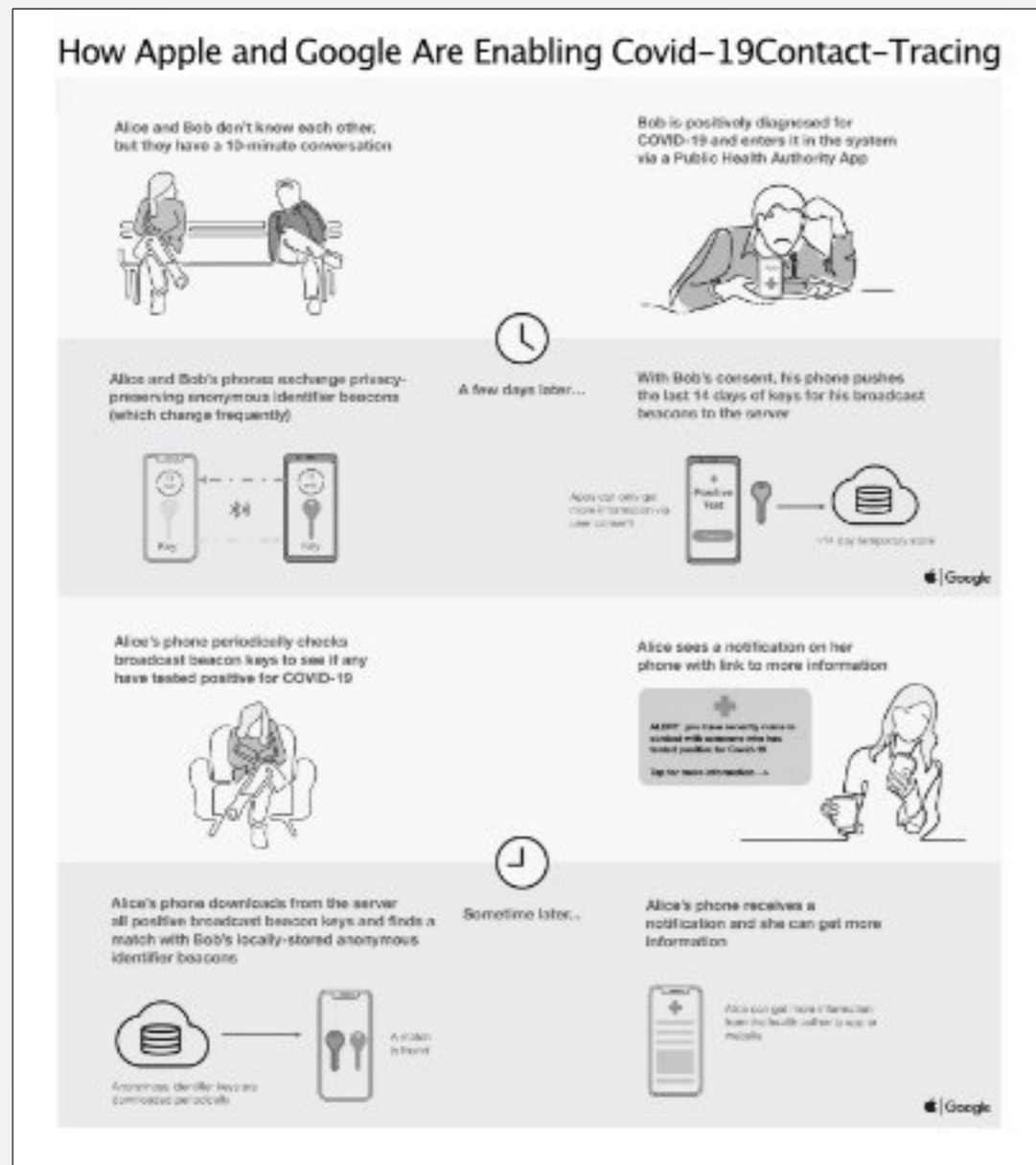
@markcaneso

Coronavirus related work "Stay indoors"

Sending us crystal clear messages.

<https://www.instagram.com/p/B-2K7ohhgiz/?igshid=emtyaouv572>

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Apr



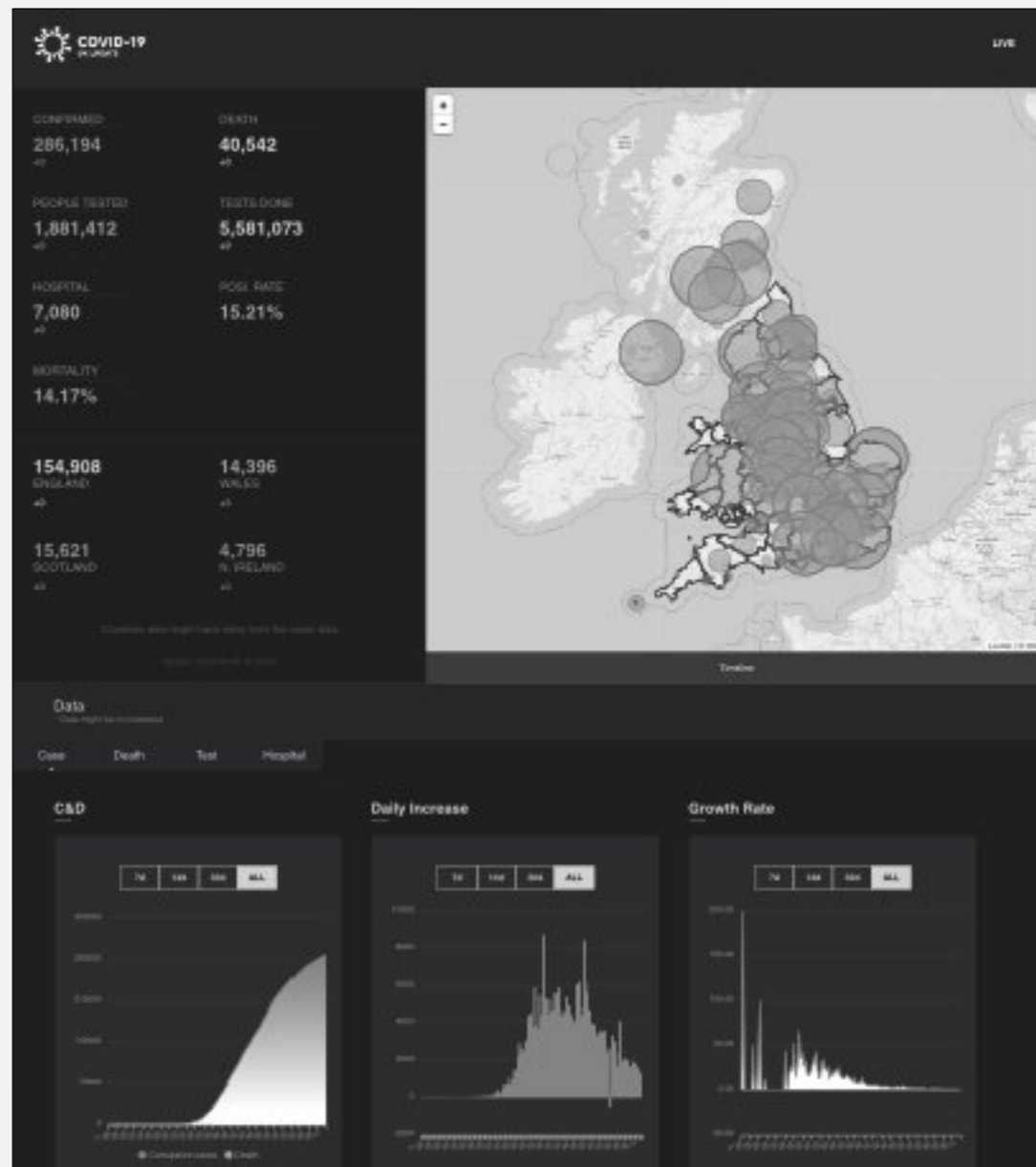
MAP & CHARTS

JeffWu

Uk COVID-19 Cases, Death, Test, Charts and Analytics Data Updates

UK Coronavirus (COVID-19) Data Visualisation Map, Analytics and Charts with real-time updates from official channels. A comprehensive site for the latest information.

<https://covid19uk.live/#/>



SHIELD

Adam Miklosi

Adam Miklosi introduces cheap and simple face shield in response to COVID-19 crisis

Influenced by the 3D-printed face shield initiatives that have been shared around the globe since the outbreak of the coronavirus (COVID-19), Adam Miklosi has created a simple face shield alternative consisting of only one element. The key inspiration was to create a low-cost face shield from a single sheet of plastic which could be a temporary solution to fill the gap of the slow and overloaded supply chain.

<https://www.designboom.com/design/adam-miklosi-simple-cheap-face-shield-covid-19-04-11-2020/>



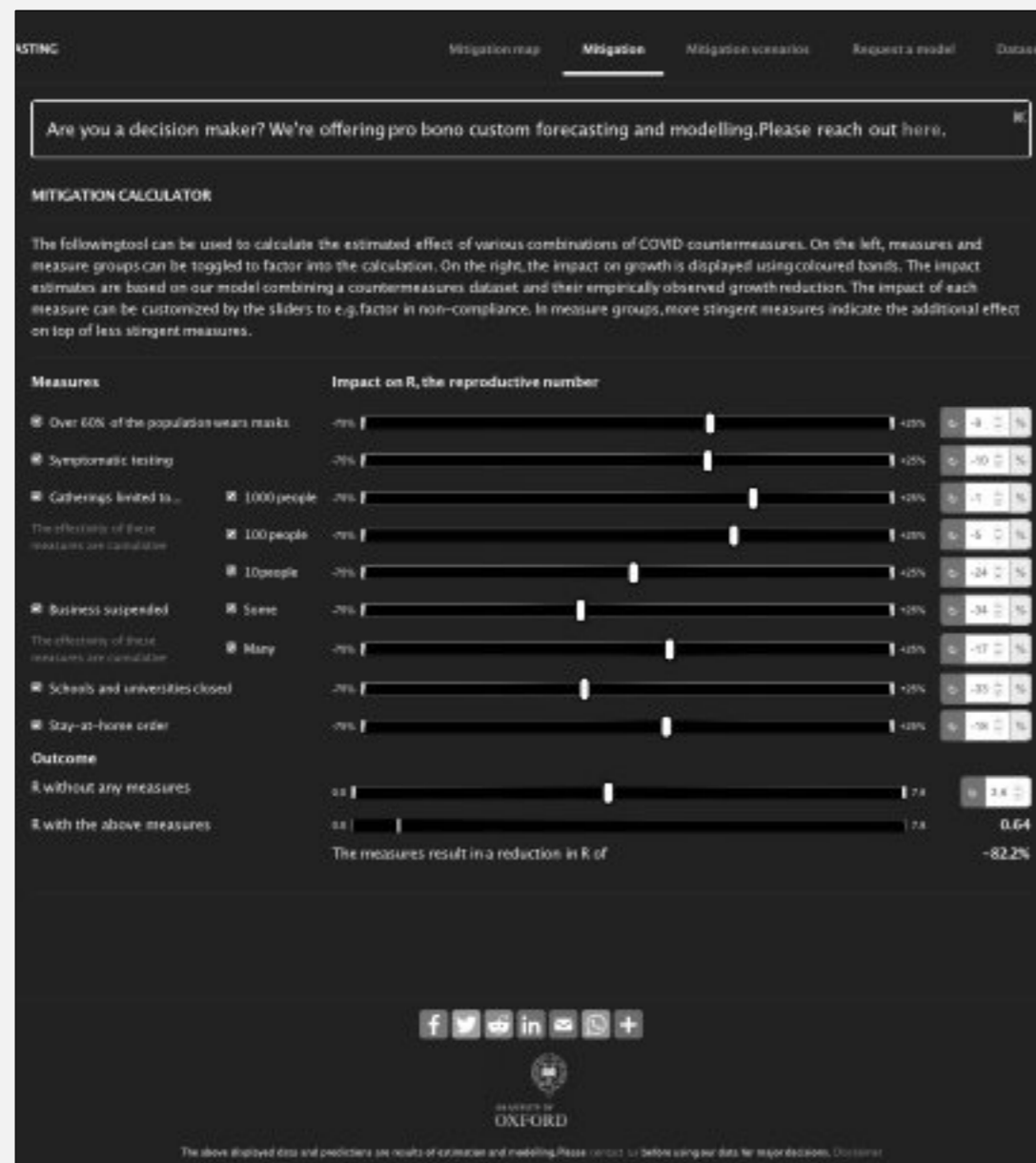
CHARTS

Jan Kulveit (Senior Research Scholar, University of Oxford)

Mitigation Calculator

The following tool can be used to calculate the estimated effect of various combinations of COVID-19 countermeasures. On the left, measures and measure groups can be toggled to factor into the calculation. On the right, the impact on growth is displayed using coloured bands. The impact estimates are based on our model combining a countermeasures dataset and their empirically observed growth reduction. The impact of each measure can be customized by the sliders to e.g. factor in non-compliance..

<http://epidemicforecasting.org/>

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MITIGATION CALCULATOR

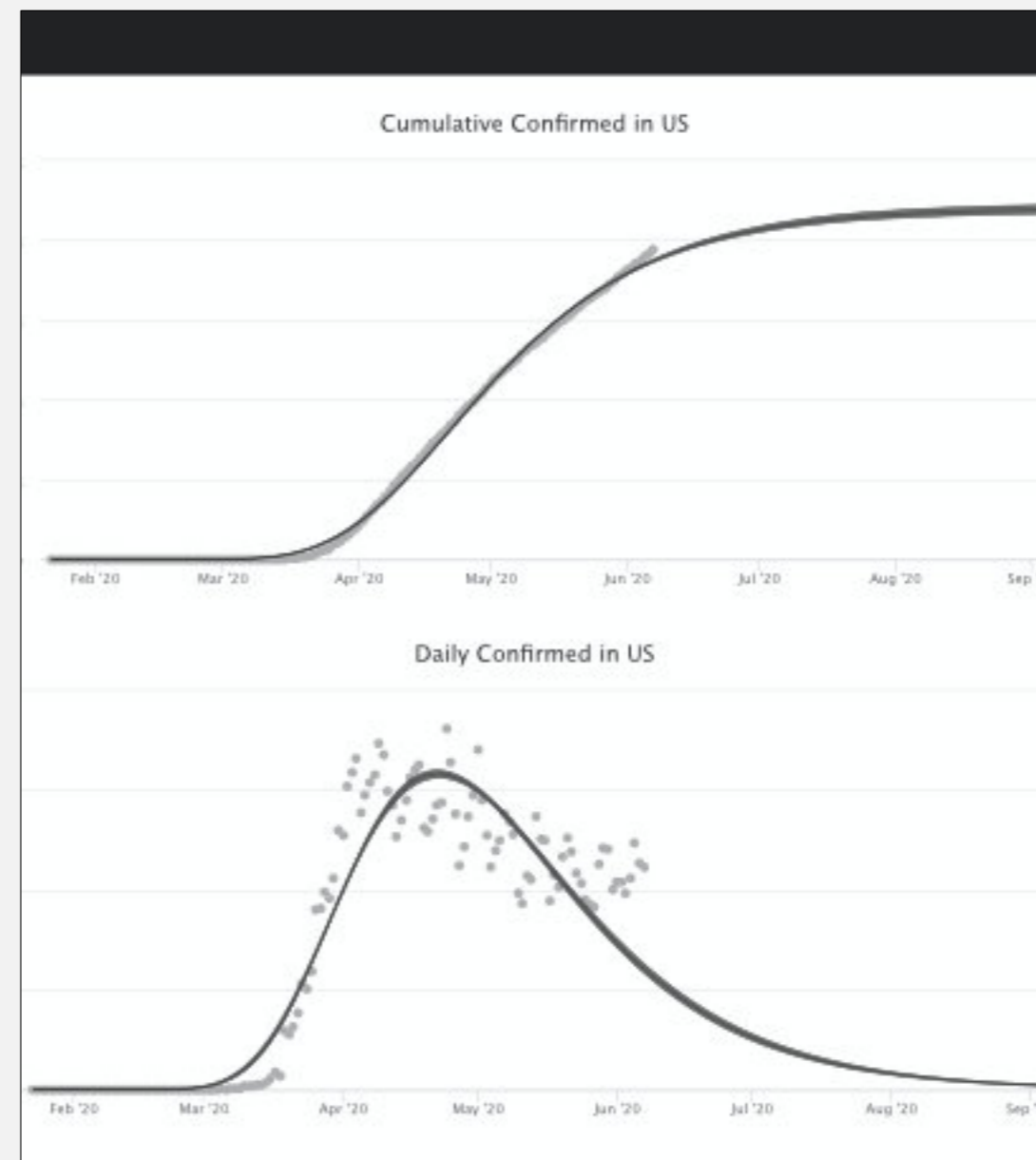
CHARTS

Unknown

COVID Curves

Forecast based on the Gompertz growth model. Data from JHU CSSE. Prediction intervals obtained via bootstrap. Many biases exist in estimating cases, recoveries and deaths during outbreaks

<https://dmca.shinyapps.io/covidcurves/>

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Apr

COVID CURVES

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PLATFORM

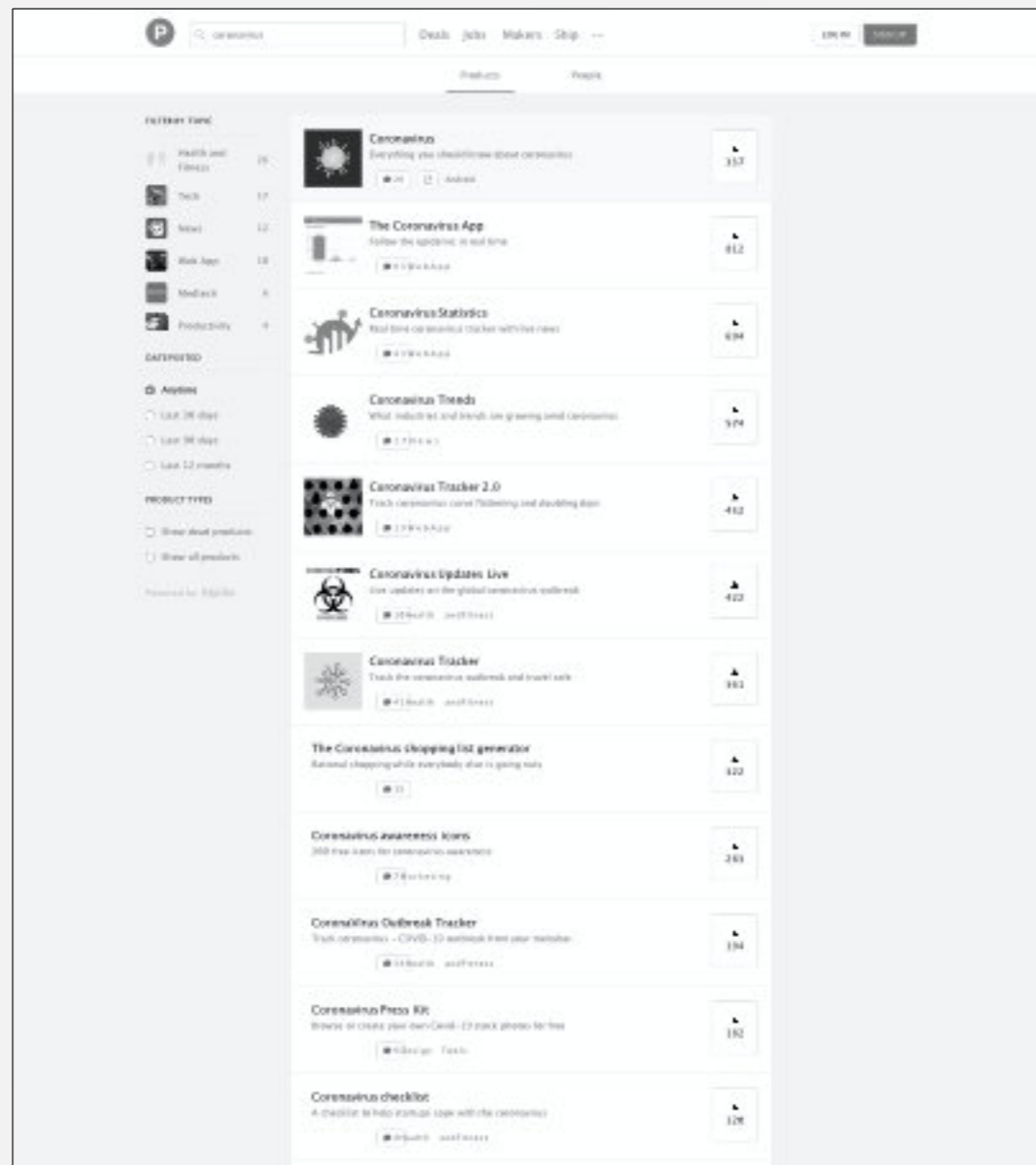
Various

Product Hunt

Product Hunt is a curation of the best new products, every day. Discover the latest mobile apps, websites, and technology products that everyone's talking about. This platform has a dedicated page for COVID-19 projects.

<https://www.producthunt.com/search?q=coronavirus>

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PRODUCT HUNT

VENTILATOR

Various

New 'iron lung' ventilator is due to be trialled with the NHS

A new ventilator developed at Cambridge University is due to be trialled with the NHS to help tackle the deadly coronavirus. Exovent has been modelled on the 'iron lung' used to battle the polio crisis in the 20th century and will be first trialled at Royal Victoria Infirmary in Newcastle. It can be used on a normal ward where patients are conscious, unlike most of the devices being used in hospitals which need people to be sedated.

<https://www.dailymail.co.uk/news/article-8211377/New-iron-lung-ventilator-endorsed-Stephen-Hawkings-family-trialled-NHS.html>

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Apr



IRON LUNG

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STREETS

The Government of Germany

Pop-up bike lanes help with coronavirus physical distancing in Germany

Road markings redrawn after cyclists demand more space to comply with COVID-19 rules. German cities are redrawing road markings to create "pop-up" cycle lanes for the duration of the COVID-19 lockdown, as cyclists demand more space to physically distance on their commutes to work.

<https://www.theguardian.com/world/2020/apr/13/pop-up-bike-lanes-help-with-coronavirus-social-distancing-in-germany>



SPECIFICATIONS

NHS

Coronavirus UK: NHS score system could reject elderly patients

NHS sources denied that elderly patients would be rejected from critical care using a scoring system - where over-65s were ranked on their age, frailty and underlying conditions (pictured: draft guidance). The controversial 'Clinical Frailty Scale' (CFS) ranks patients' vulnerability from one to nine in order to prioritise those most likely to recover from the killer virus.

<https://www.dailymail.co.uk/news/article-8213613/Elderly-coronavirus-patients-denied-critical-care-NHS-score-system.html>



COVID-19 DECISION SUPPORT TOOL

1

AGE	POINTS
<50	0
50-60	1
61-65	2
66-70	3
71-75	4
76-80	5
>80	6

2 Clinical Frailty Scale*

- 1 Very Fit - People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.
- 2 Well - People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g. seasonally.
- 3 Managing Well - People whose medical problems are well controlled, but are not regularly active beyond routine walking.
- 4 Vulnerable - While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up", and/or being tired during the day.
- 5 Mildly Frail - These people often have more evident slowing, and need help in high order ADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.
- 6 Moderately frail - People need help with all outside activities and with keeping house. Inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.
- 7 Severely Frail - Completely dependent personal care, from whatever cause (physiological). Even so, they seem stable and high risk of dying (within ~ 6 months).
- 8 Very Severely Frail - Completely dependent approaching the end of life. Typically, they not recover even from a minor illness.
- 9 Terminally ill - Approaching the end of life category applies to people with a life expectancy < 6 months, who are not otherwise evident.

+

Scoring frailty in people with dementia
The degree of frailty corresponds to the degree of dementia. Common symptoms in mild dementia include forgetting details of a recent event, though still remembering the repeating the same question/story and social withdrawal. In moderate dementia, recent memory is very impaired, though they seemingly can remember their past life even they can do personal care with prompting. In severe dementia, they cannot do personal care without

* 1. Canadian Study on Health & Aging, November 2005. 2. A. Robinson et al. A global clinical measure of fitness and frailty in older people. CMAJ 2005; 173:489-495.

TOTAL = SUM OF THE 3 DOMAINS ABOVE (-1 FOR FEMALE SEX)

! There may be situations arising that are outside the scope of the framework that require special consideration, thus clinical discretion will be used. Frailty scoring is used as a proxy for physiological frailty which leads to reduced chances of recovery in ICU, therefore where conditions pre-physical activity but are stable and inappropriately affect the score, then that situation requires special consideration.

POINTS	TREATMENT	FAILURE OF FIRST LINE MANAGEMENT	NOTES	Deviations from ARDS guideline
Group 1 < 8	ICU-based care	Palliation or ECMO	Usual criteria for ECMO and <60 years	Step 1 < 8 Step 2 > 8 Step 3 Patients not normally for full active
Group 2 > 8	Ward-based care	Step 3	Consider trial of CPAP	
Group 3 Patients not normally for full active management or failed CPAP trial	Facemask oxygen	Palliation	Consider domiciliary care	

Factsheet

What you should know about COVID-19 to protect yourself and others.

<https://www.cdc.gov/coronavirus/2019-ncov/downloads/2019-ncov-factsheet.pdf>



What you should know about COVID-19 to protect yourself and others

Know about COVID-19

- Coronavirus (COVID-19) is an illness caused by a virus that can spread from person to person.
- The virus that causes COVID-19 is a new coronavirus that has spread throughout the world.
- COVID-19 symptoms can range from mild (or no symptoms) to severe illness.

Practice social distancing

- Buy groceries and medicine, go to the doctor, and complete banking activities online when possible.
- If you must go in person, stay at least 6 feet away from others and disinfect items you must touch.
- Get deliveries and takeout, and limit in-person contact as much as possible.

Know how COVID-19 is spread

- You can become infected by coming into close contact (about 6 feet or two arm lengths) with a person who has COVID-19. COVID-19 is primarily spread from person to person.
- You can become infected from respiratory droplets when an infected person coughs, sneezes, or talks.
- You may also be able to get it by touching a surface or object that has the virus on it, and then by touching your mouth, nose, or eyes.

Prevent the spread of COVID-19 if you are sick

- Stay home if you are sick, except to get medical care.
- Avoid public transportation, ride-sharing, or taxis.
- Separate yourself from other people and pets in your home.
- There is no specific treatment for COVID-19, but you can seek medical care to help relieve your symptoms.
- If you need medical attention, call ahead.

Protect yourself and others from COVID-19

- There is currently no vaccine to protect against COVID-19. The best way to protect yourself is to avoid being exposed to the virus that causes COVID-19.
- Stay home as much as possible and avoid close contact with others.
- Wear a cloth face covering that covers your nose and mouth in public settings.
- Clean and disinfect frequently touched surfaces.
- Wash your hands often with soap and water for at least 20 seconds, or use an alcohol-based hand sanitizer that contains at least

Know your risk for severe illness

- Everyone is at risk of getting COVID-19.
- Older adults and people of any age who have serious underlying medical conditions

UK Biobank: DNA to unlock coronavirus secrets

A vast store of DNA is being used to study why the severity of symptoms for coronavirus varies so much. UK Biobank - which contains samples from 500,000 volunteers, as well as detailed information about their health - is now adding COVID-19 data. It is hoped genetic differences could explain why some people with no underlying health conditions can develop severe illness. More than 15,000 scientists from around the world have access to UK Biobank.

https://www.bbc.co.uk/news/amp/health-52243605?__twitter_impression=true



The screenshot shows the UK Biobank website interface. At the top, there's a search bar and navigation links. The main content area features several news items:

- UK Biobank starts major study of coronavirus immunity** (May 17th, 2020)
- UK Biobank makes health data available to tackle COVID-19** (April 14th, 2020)
- Growth hormone IGF-1 is a likely cause of breast cancer** (March 18th, 2020)

There are also sections for 'Latest Publications' and 'UK Biobank Imaging Study'.

MASK

Standard Issue*Standard Issue creates open-source design for CNC-cut face mask*

Brooklyn design agency Standard Issue has created an open-source design for a face mask that can be CNC-cut and produced on a large scale. Standard Issue's product, called One Mask, is designed so it can be produced by companies that have access to automated cutting and seaming technologies, such as manufacturers for furniture, fashion and sportswear brands. The face mask is not intended to be medical grade but instead aims to help ramp up the production of masks for use by the public.

https://www.dezeen.com/2020/04/14/open-source-face-mask-standard-issue/amp/?_twitter_impression=true

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Apr

**ONE MASK**

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SHIELD

Tokujin Yoshioka*Tokujin Yoshioka shares easy-to-make face shield in aid of COVID-19 healthcare workers*

Tokujin Yoshioka has shared the template for an easy-to-make face shield in aid of healthcare workers fighting on the front line of the COVID-19 pandemic. The quick and simple design can be easily put together as it only takes three steps to assemble. After downloading the template, one has to put it on top of a clear plastic sheet, cut it along the guideline, and attach it to their glasses.

<https://www.designboom.com/design/tokujin-yoshioka-face-shield-covid-19-04-14-2020/>

I4
Apr

**TWO HOLES SHIELD**

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INFOGRAPHIC

The New York Times

How far can respiratory droplets spread when you cough?

The CDC says keeping at least 6 feet away from others can help you avoid contact with these respiratory droplets and lower the risk of infection. But this simulation, created using research data from the Kyoto Institute of Technology, suggests that droplets can travel farther than that.

<https://www.instagram.com/p/B-asZ4nqjy/?igshid=1oki6vbbauc4o>



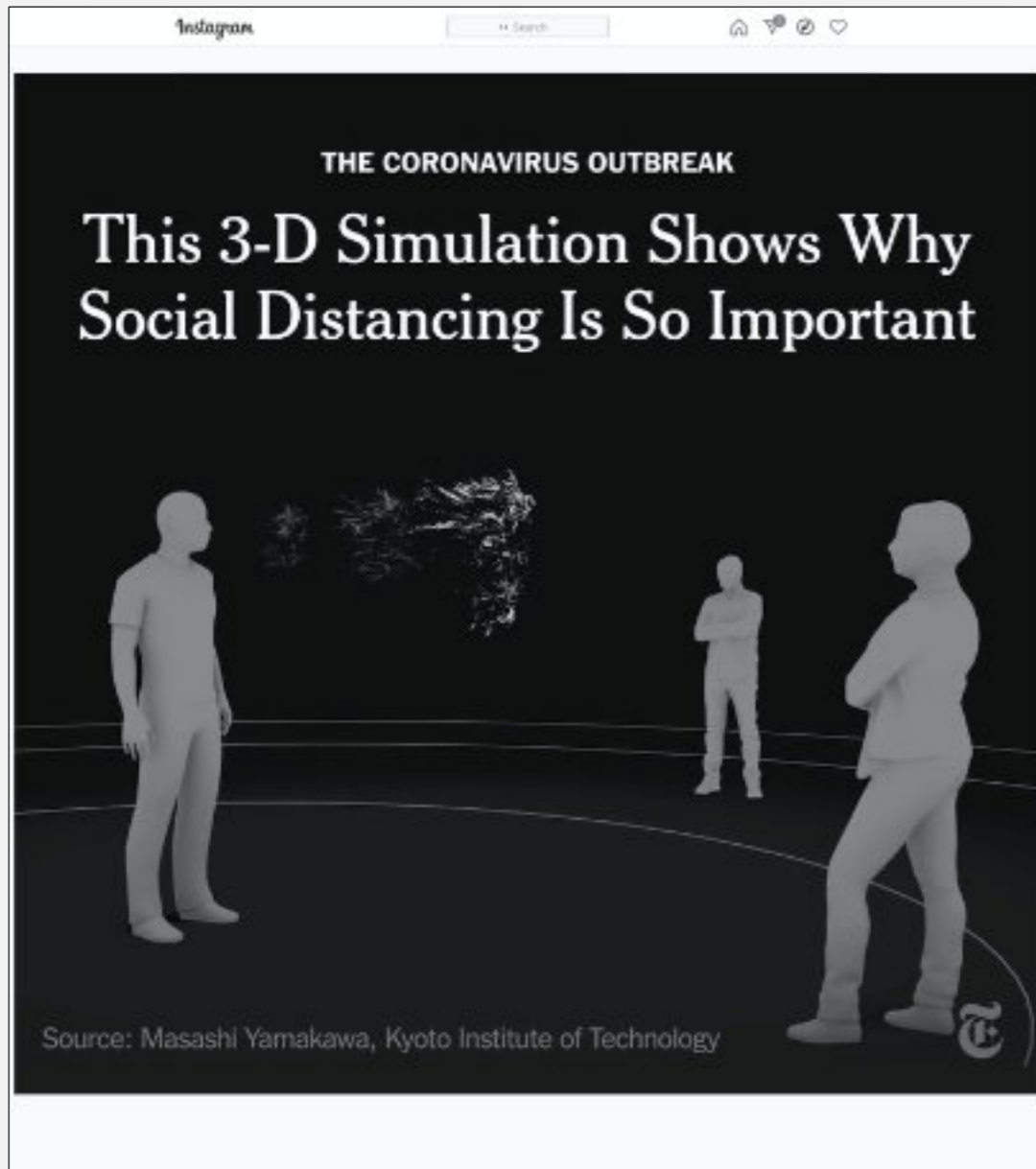
POSTER

BBC

Coronavirus symptoms: What are they and how do I protect myself?

The NHS has listed three main strategies to deal with the symptoms of coronavirus, that people should be aware of and ready to act upon.

<https://www.bbc.co.uk/news/health-51048366>



- SHELTERS
- ADAPTATION
- GOVERNMENT

USA

FIELDS

geosteinmetz

Mass burial site in NYC

Preparing for burials of what appear to be more COVID-19 victims this morning on Hart Island, New York City. For over 150 years this island with no public access has been used to bury over a million souls who's bodies were not claimed for private burial. With the morgues of NYC strained, the pace of burials on Hart Island has increased dramatically. I was cited by NYPD while taking this photo, and my drone was confiscated as evidence, for a court date tentatively scheduled for mid-August.

https://www.instagram.com/p/B-94zNbDti_/?igshid=1xkayi0zot07z

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Apr



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MASS BURIAL SITE

USA

HACKATHON

Various

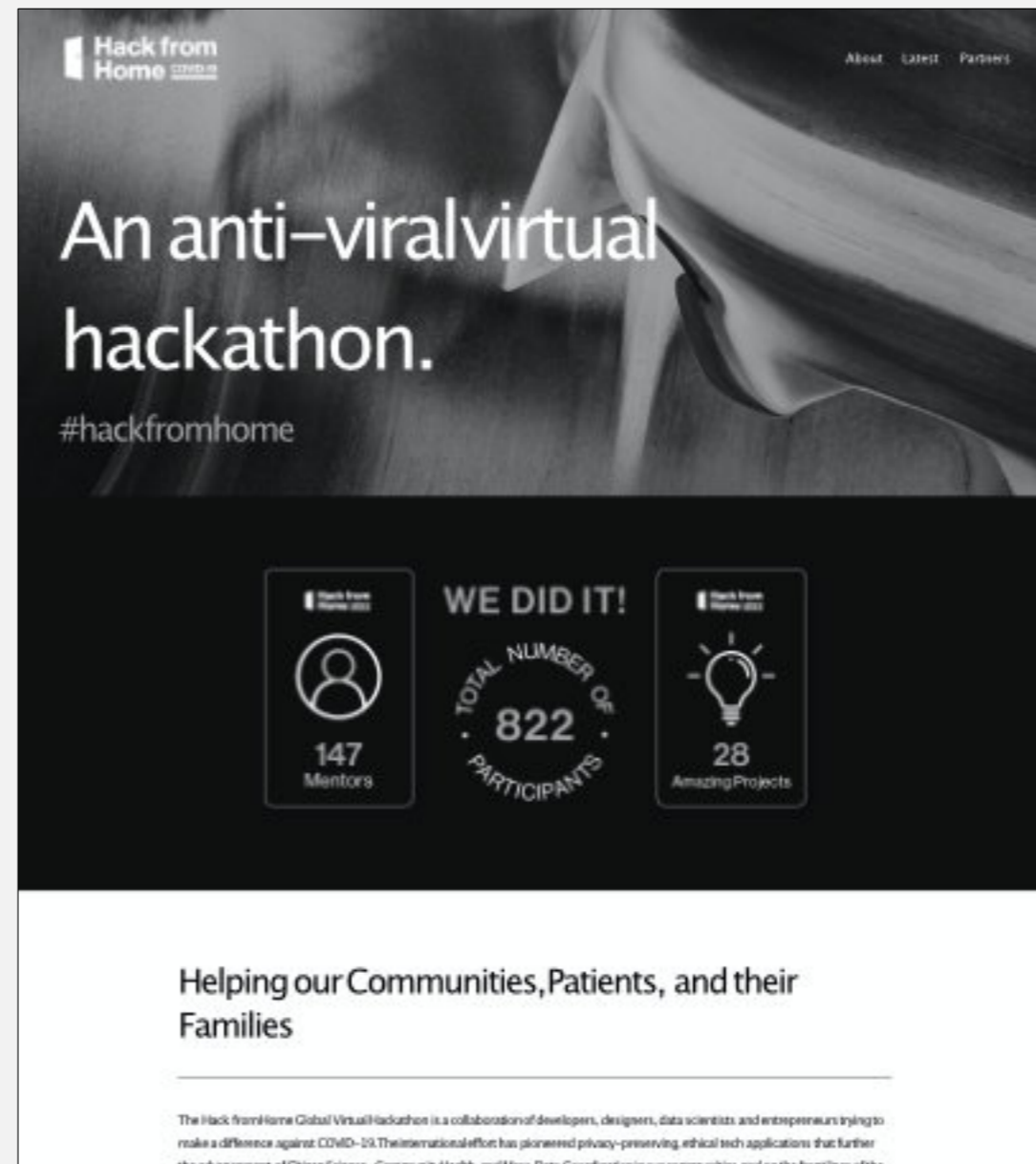
An anti-viral virtual hackathon

HfH is a virtual hackathon sponsored by Dataswift.io and organised by the Ethical Tech Alliance, HAT-LAB, Case Western Reserve University's xLab and Cleveland Clinic's Hwang Lab. We're giving people a chance to respond with action, working together to improve the lives of everyone affected by the Coronavirus. Our goal is to band together to help communities, patients, and their families better using what we know best - technology.

<https://www.hackfromhome.com/>

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Apr

- ACTIONS
- HACKATHON
- CONSORTIUM



HACKFROMHOME

389

MODELLING

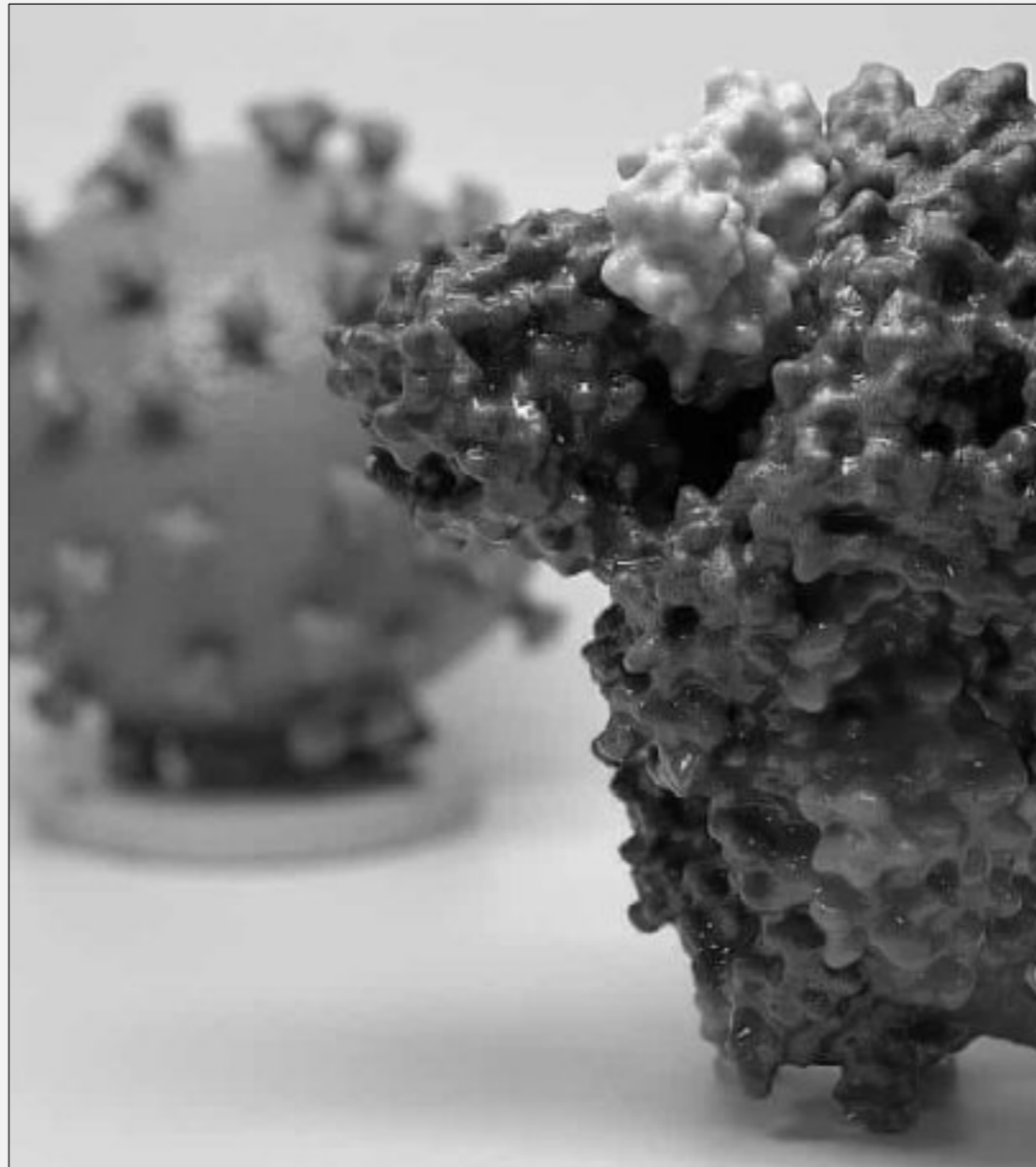
Folding@Home

Volunteers create world's fastest supercomputer to combat coronavirus

The world's fastest supercomputer has been created from volunteers loaning spare time on their home PCs to fold proteins, a scientific task that could prove instrumental in the fight against the coronavirus. According to Folding@Home, the organisation that runs the distributed computing effort, the combined power of the network broke 1,000,000,000,000,000 operations per second – or one “exaflop”

<https://www.theguardian.com/technology/2020/apr/15/volunteers-create-worlds-fastest-supercomputer-to-combat-coronavirus>

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Apr



390 **FASTEST SUPERCOMPUTER**

TENT

WTA

WTA builds emergency quarantine facilities in aid of hospitals in the Philippines

WTA architecture and design studio has created emergency quarantine facilities to augment and increase capacity of hospitals in the Philippines in response to the ongoing COVID-19 pandemic. The temporary structures are being built to house PUIs (persons under investigation) and keep them from spreading the infection.

<https://www.designboom.com/architecture/wta-emergency-quarantine-facilities-covid-19-philippines-04-15-2020/>

15
Apr



391 **TEMPORARY STRUCTURE**

PLATFORM

Dezeen

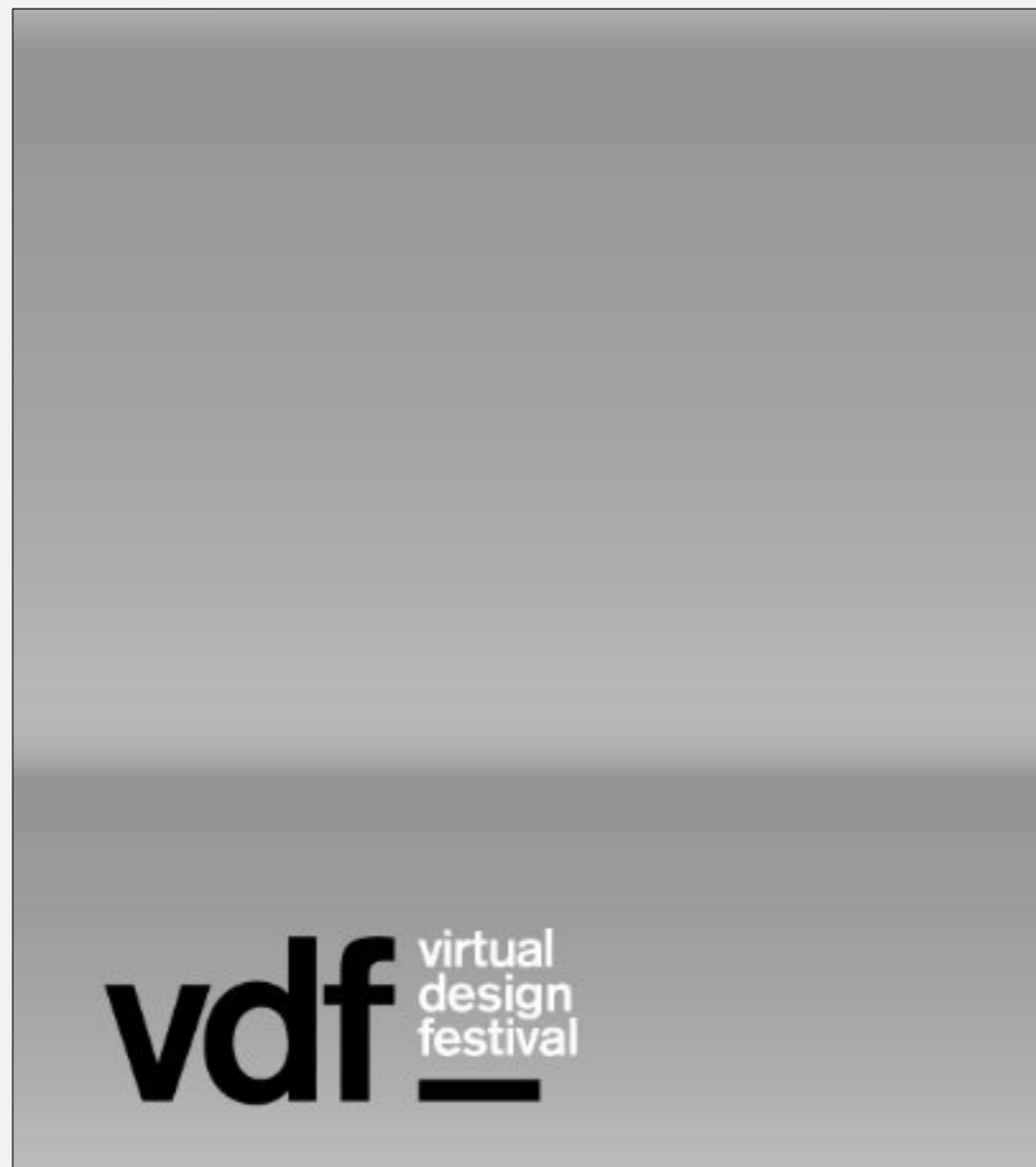
Dezeen announces Virtual Design Festival starting 15 April

Dezeen announces Virtual Design Festival, the world's first online design festival, taking place from Wednesday 15 April onwards.

With much of the world in lockdown due to the coronavirus pandemic, the global architecture and design community is, along with many other sectors, facing unprecedented challenges.

<https://www.dezeen.com/vdf/>

15
Apr



POSTER

David Dee Delgado/Getty Images

Respect Public Hospital Nurses & our Patients

Nurses have held a vigil outside a hospital in the Bronx, New York in a show of solidarity for health workers on the frontline of the coronavirus outbreak.

Holding signs saying "patients before profit" and "we are nurses, not martyrs," health care workers demanded more measures to keep them safe - including the necessary Personal Protective Equipment (PPE).

https://www.instagram.com/p/B_A2zC0JDG2/

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Apr



SCREENS

ISTOBAL

Istobal designs disinfection screens for hospitals, workers and ambulances

In Istobal, a car washing machine company, has reinvented itself to manufacture arches for the disinfection of PPE (Personal Protective Equipment) by adapting part of its production to combat the spread of COVID-19. Everything generated is available to public hospitals and the state security forces and other bodies.

<https://istobal.com/blog/istobal-desarrolla-arcos-para-la-desinfeccion-de-epis-y-del-exterior-de-vehiculos-en-su-lucha-contra-el-covid-19/>

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Apr



394 **DISINFECTION SCREENS**

POSTER

Marcel Wanders

Marcel Wanders creates universal message of hope and solidarity

Dutch designer Marcel Wanders has designed an artwork (below) that combines the Italian flag and phrase *Andrà tutto bene*, which translates as everything will be alright. "During these uncertain times, we appreciate being close to one another even more," said Wanders. "We long to be back in our studio, in our client offices and at the exhibits like Salone del Mobile where creativity is celebrated and where we are motivated and inspired year after year. You may be alone but, we are all in this together"

<https://www.dezeen.com/2020/04/15/daily-coronavirus-architecture-design-briefing-15-april/>

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Apr



ANDRÀ TUTTO BENE

395

PARTITIONS

Shigeru Ban

Shigeru Ban's paper partition system used to shelter homeless 'net cafe refugees'

A martial arts center in Yokohama, Japan, has been converted into a shelter for homeless 'net cafe refugees' following the closure an online cafe in the region because of the COVID-19 pandemic. The temporary space is operated by the local Kanagawa authorities and features Shigeru Ban's paper partition system, offering privacy and distance to prevent infections.

<https://www.designboom.com/architecture/shigeru-ban-net-cafe-refugees-coronavirus-japan-04-15-2020/>

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Apr



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PARTITION SYSTEM

PLATFORM

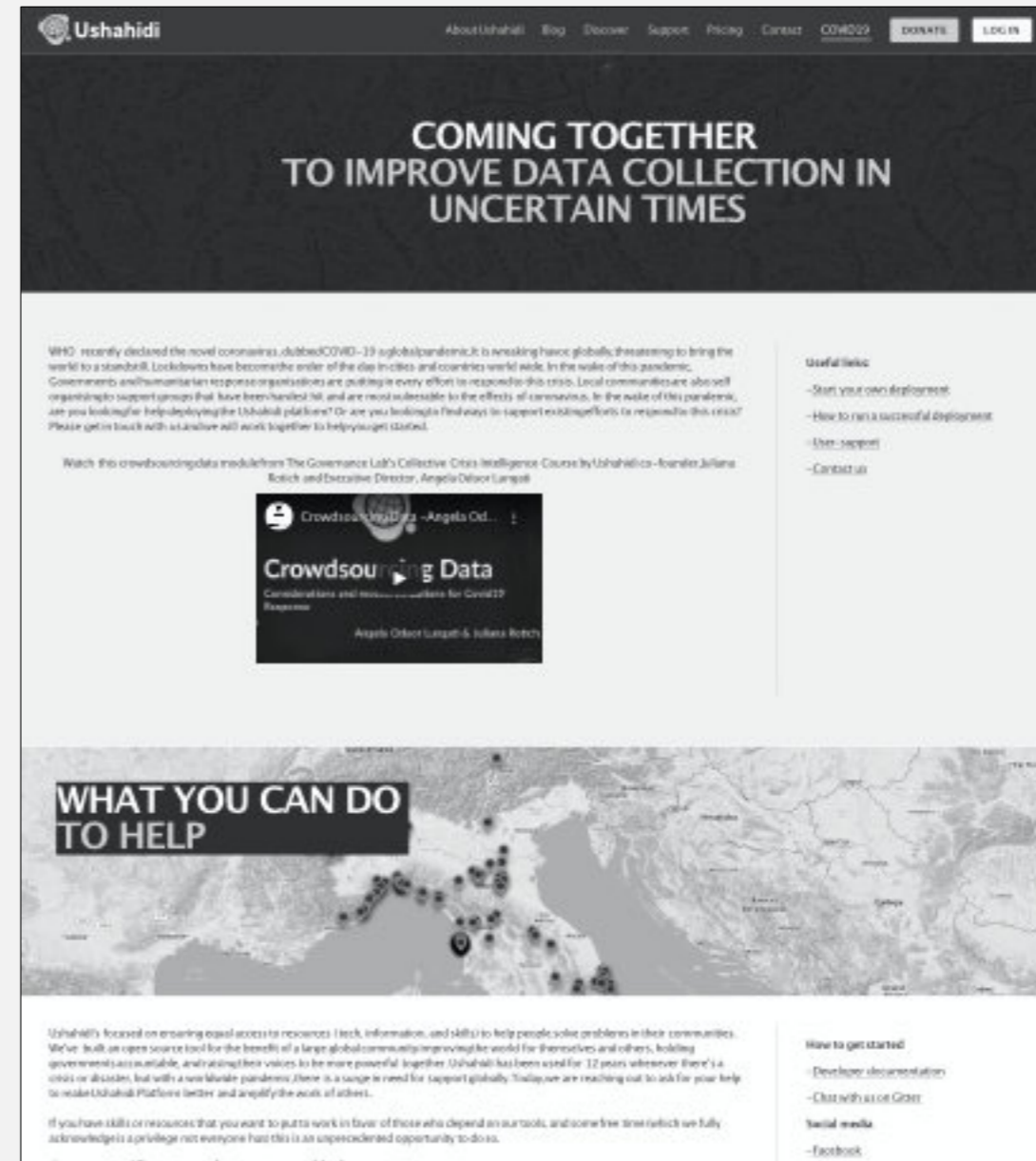
Ushahidi

Coming together to improve data collection in uncertain times

Ushahidi's focused on ensuring equal access to resources (tech, information, and skills) to help people solve problems in their communities. We've built an open source tool for the benefit of a large global community improving the world for themselves and others, holding governments accountable, and raising their voices to be more powerful together. Ushahidi has been used for 12 years whenever there's a crisis or disaster, but with a worldwide pandemic, there is a surge in need for support globally.

<https://www.ushahidi.com/covid>

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Apr



CONNECTING PEOPLE

397

SHIELD

Various

ShieldNHS, a temporary not-for-profit organisation has formed to assemble and donate as many face shields to the NHS as possible.

We are a team of medics, engineers and designers from across London, Imperial College, Royal College of Art, Cambridge Judge Business School and Oxford working on an entirely voluntary basis for no profit to address the national shortage of face shields. With the help of firefighters at Lambeth station, London, ShieldNHS is on track to deliver 40,000 face shields to hospitals.

<https://shieldnhs.org>

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Apr



FACE SHIELD

398

PROJECTS

The R Epidemics Consortium

Released projects and packages

The R Epidemics Consortium (RECON) is an international not-for-profit, non-governmental organisation gathering experts in data science, modelling methodology, public health, and software development to create the next generation of analytics tools for informing the response to disease outbreaks, health emergencies and humanitarian crises, using the R software and other free, open-source resources. These projects are in a usable form. Packages have been developed following RECON's standards, are fully functional, documented and tested.

<https://www.repidemicsconsortium.org/projects/>

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Apr



SHARING PLATFORM

399

BADGE

UK Government

Health Secretary Matt Hancock is pictured with the CARE badge which was revealed yesterday

The badges have been in production since March 19 2020- four days before the UK went into lockdown - and are used to raise the public profiles of caregivers in the UK. They are normally distributed for free by organisations to their staff. Mr Hancock said the CARE badge would have 'practical consequences as well', including enabling care workers to attend priority shopping hours at supermarkets.

<https://www.dailymail.co.uk/news/article-8224887/No-PPE-care-badges-Website-new-pins-CRASHES-hours-Matt-Hancock-unveiled-it.html>



ILLUSTRATION

El Roto

El Pais

"We don't need more clapping, we need more protective personal equipment. Totally."

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



Panama

MASK

Manuel Echavarria

FOLD is a cheap and accessible DIY mask made using coffee filters

Panama-based industrial designer Manuel Echavarria shares his DIY coffee filter mask. Although as yet untested, FOLD intends to provide a last resort facemask that is cheap, easy to make, and uses readily available materials. FOLD aims to relieve the burden on high-end masks, leaving them for those who need them most. Manuel Echavarria's design is cheap (costing less than 0.7 USD), accessible, easy to make, ergonomic, and even disposable.

<https://www.designboom.com/design/fold-cheap-diy-mask-coffee-filters-04-16-2020/>

**COFFEE FILTER MASK**

402

Italy

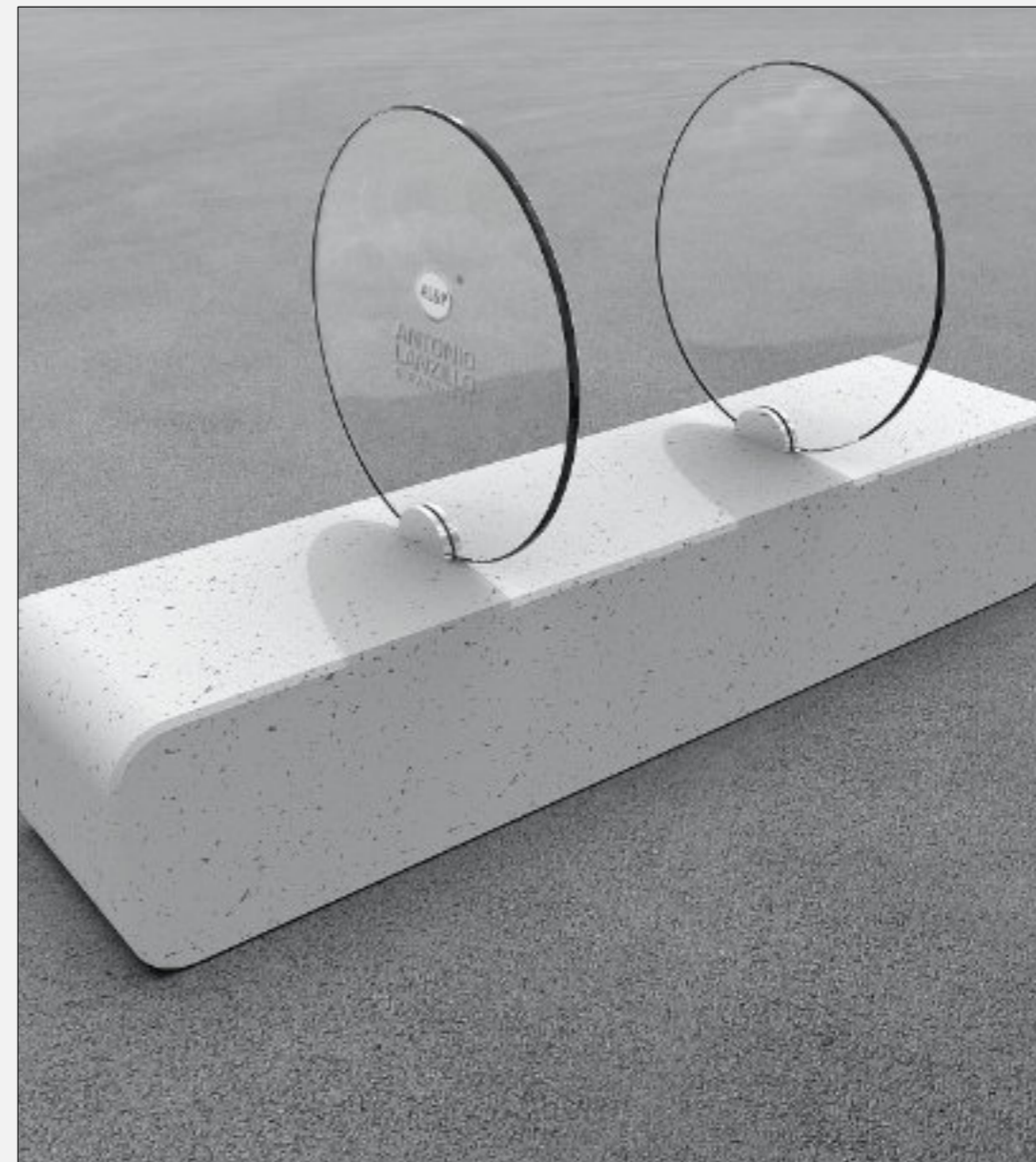
BENCH

Antonio Lanzillo & Partners

'Shield' is a bench to fight COVID-19 designed by Antonio Lanzillo & Partners

'Shield' is a project that proposes how we can live in our cities post-quarantine. Born from the need to return to normality while still safeguarding health and limiting the spread of COVID-19, the benches integrate plexiglass dividers to keep people at a safe social distance and thus limit the possibility of contagion.

<https://www.designboom.com/design/shield-bench-to-fight-covid-19-antonio-lanzillo-partners-04-17-2020/>

**SHIELD**

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Apr

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Apr

MASK

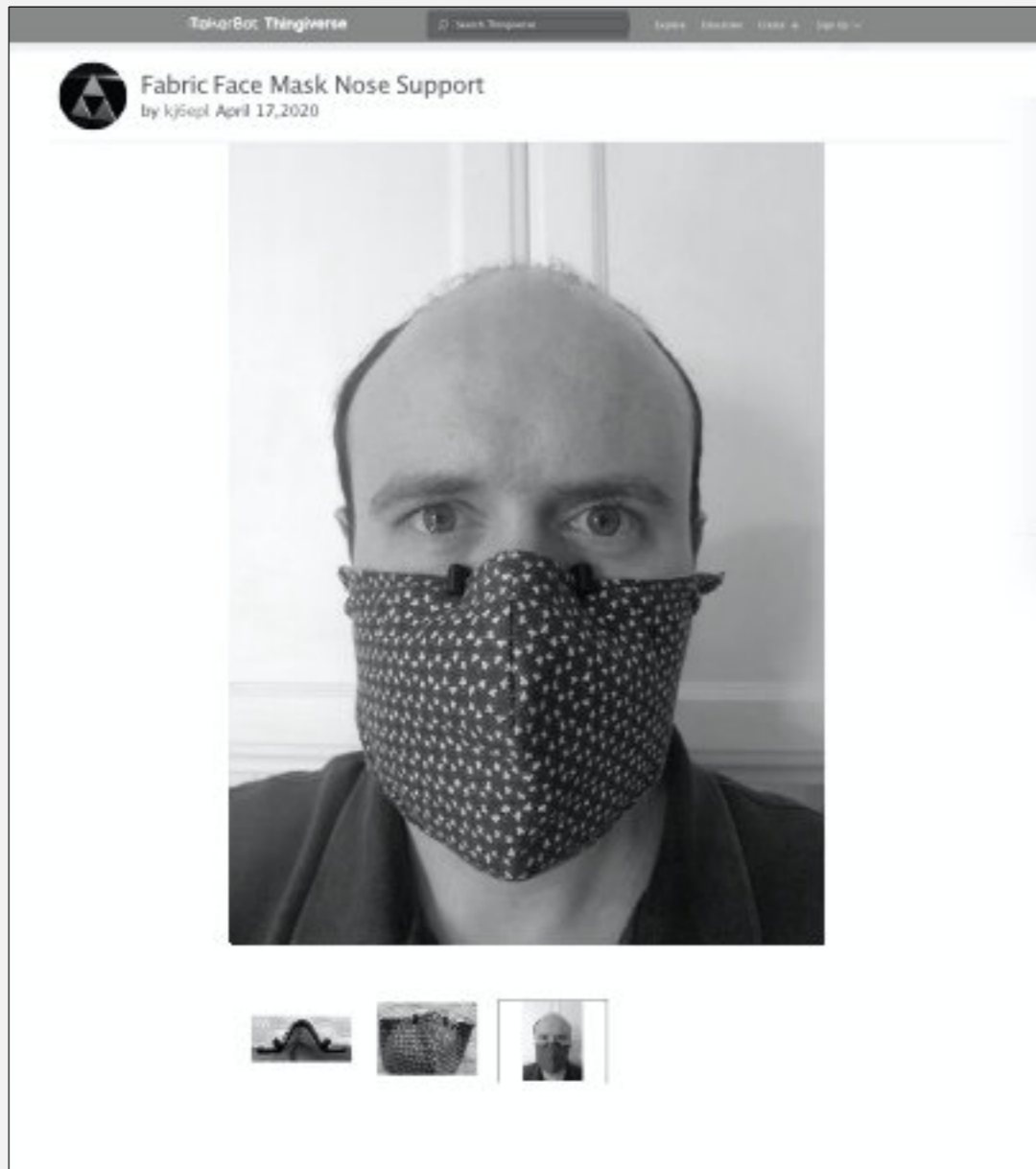
kj6epl

Fabric Face Mask Nose Support

Downloadable 3D printed fabric face mask nose support by kj6epl (do you know anything about this designer to add here?) licensed under the Creative Commons.

<https://www.thingiverse.com/thing:4292549>

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Apr



MASK

Closca

Washable mask 'made in Spain'

Valencia's company Closca made an international name for itself by designing a folding helmet. Carlos Ferrando, its founder, had presented a washable mask - to walk through cities like New Delhi or Madrid - when the coronavirus changed the meaning of the product.

https://elpais.com/elpais/2020/04/18/del_tirador_a_la_ciudad/1587228007_840401.html

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Apr



SPECIFICATIONS

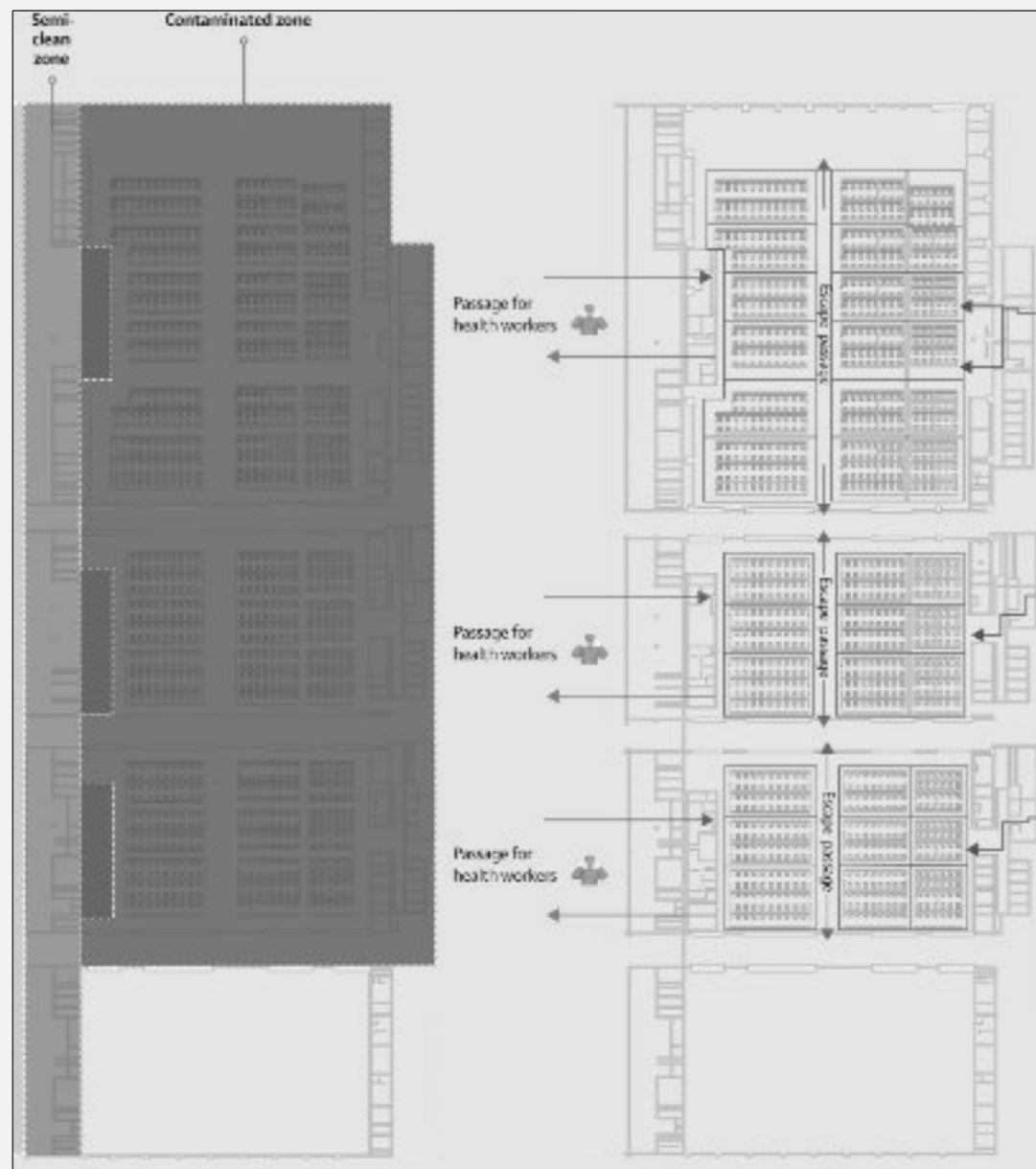
Simiao Chen, et al.

Fangcang shelter hospitals: a novel concept for responding to public health emergencies

Fangcang shelter hospitals are a novel public health concept. They were implemented for the first time in China in February, 2020, to tackle the COVID-19 outbreak. The Fangcang shelter hospitals in China were large-scale, temporary hospitals, rapidly built by converting existing public venues, such as stadiums and exhibition centres, into health-care facilities.

[https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)30744-3/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)30744-3/fulltext)

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Apr



FANGCANG

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PAVILION

BDP and NHS

Manchester Central to Turn into NHS Nightingale Hospital North West

In the UK national efforts to combat the coronavirus pandemic, our architecture and engineering teams are helping to convert large event venues into emergency hospitals. Our Manchester studio has designed the conversion of the Grade II* listed G-MEX conference centre into the NHS Nightingale Hospital North West. The temporary facility will have 663 beds for treating COVID-19 patients.

<http://www.bdp.com/en/latest/news/2020/manchester-central-to-turn-into-nhs-nightingale-hospital-north-west/>

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Apr



MANCHESTER

407

PRODUCTS

FACE PREVENTION

INDEPENDENT

South Korea

MASK

Min Chang

The designer proposes futuristic NIKE skincare LED mask to encourage self-development

Korean concept designer Min Chang kim visualizes a futuristic NIKE wellness and cosmetic product — for a post-pandemic world. In collaboration with PDF HAUS, a product design education institution, Kim brings life to the idea of a product combining elements of the skincare industry, and the 'new normal'.

<https://www.designboom.com/design/futuristc-nike-skin-care-led-mask-encourages-self-development-04-19-2020/>

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Apr



408 POST-COVID BEAUTY

Canada

COLLABORATION

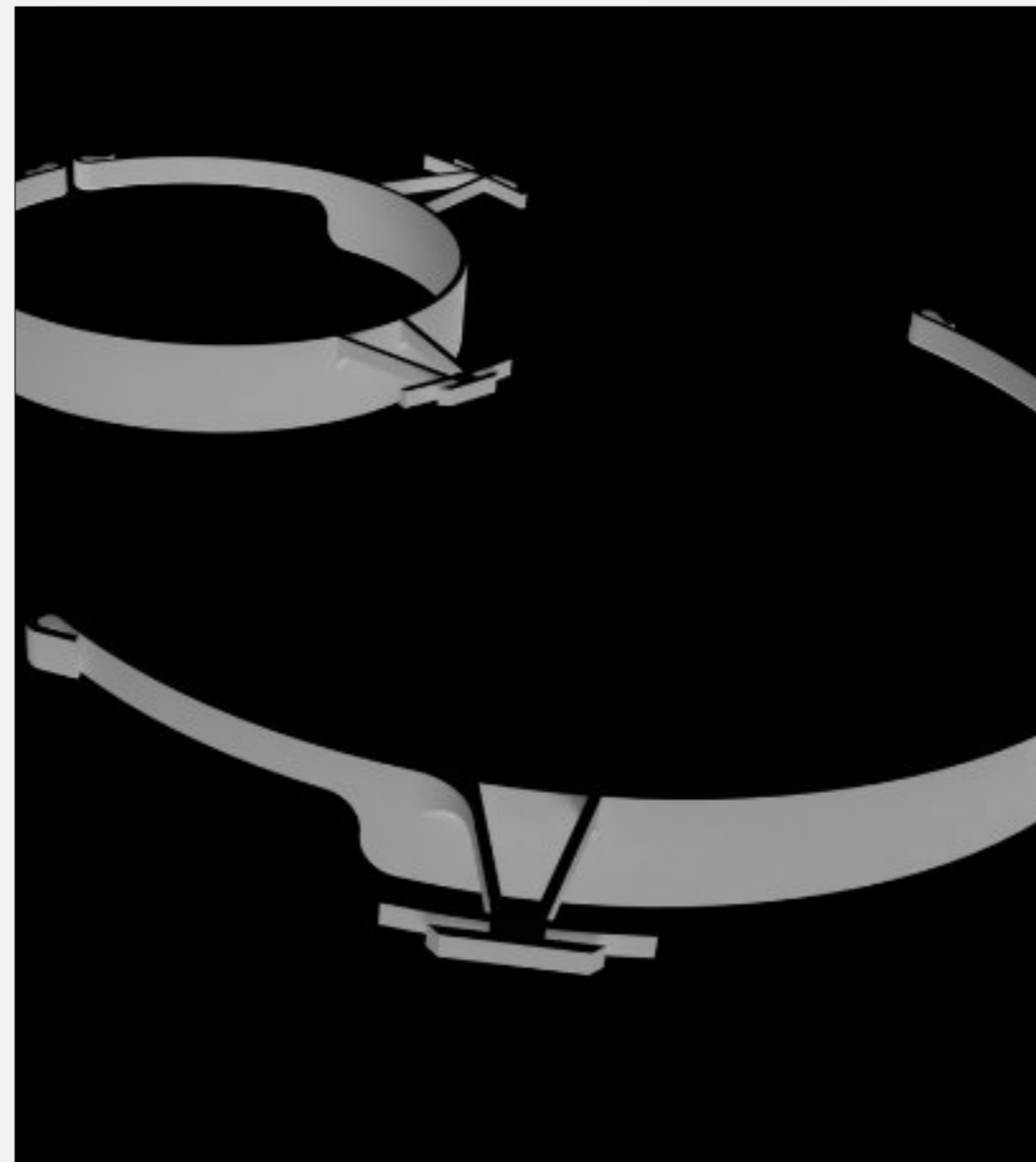
Various

#thePPEdrive

We are calling on the 3D printer community to help create PPE to protect health care professionals. Please see instructions and video on this page (you can download the STL files). Note, the video shows the page protector (PP) version for illustrative purposes but files to download on this page are for the 3 hole punch (3HP) version which is what is requested.

<https://theppedrive.com/3d-printed-visor>

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Apr



3D PRINTED VISOR

409

USE

Various

Hotel adaptations

Entrepreneurs who depend on tourism think of ways to reinvent themselves and guarantee the safety of customers when the confinement ends.

<https://elpais.com/espana/madrid/2020-04-20/un-hotel-burbuja-para-los-pocos-turistas-que-vengan-a-madrid.html>



PAVILION

UK Government

NHS Nightingale Hospital Yorkshire and the Humber

NHS Nightingale Yorkshire and the Humber is our new, temporary hospital, based at Harrogate Convention Centre to provide 500 additional critical care beds in our region, should they be needed during the COVID-19 pandemic.

<https://www.leedsth.nhs.uk/nightingaleyh/>



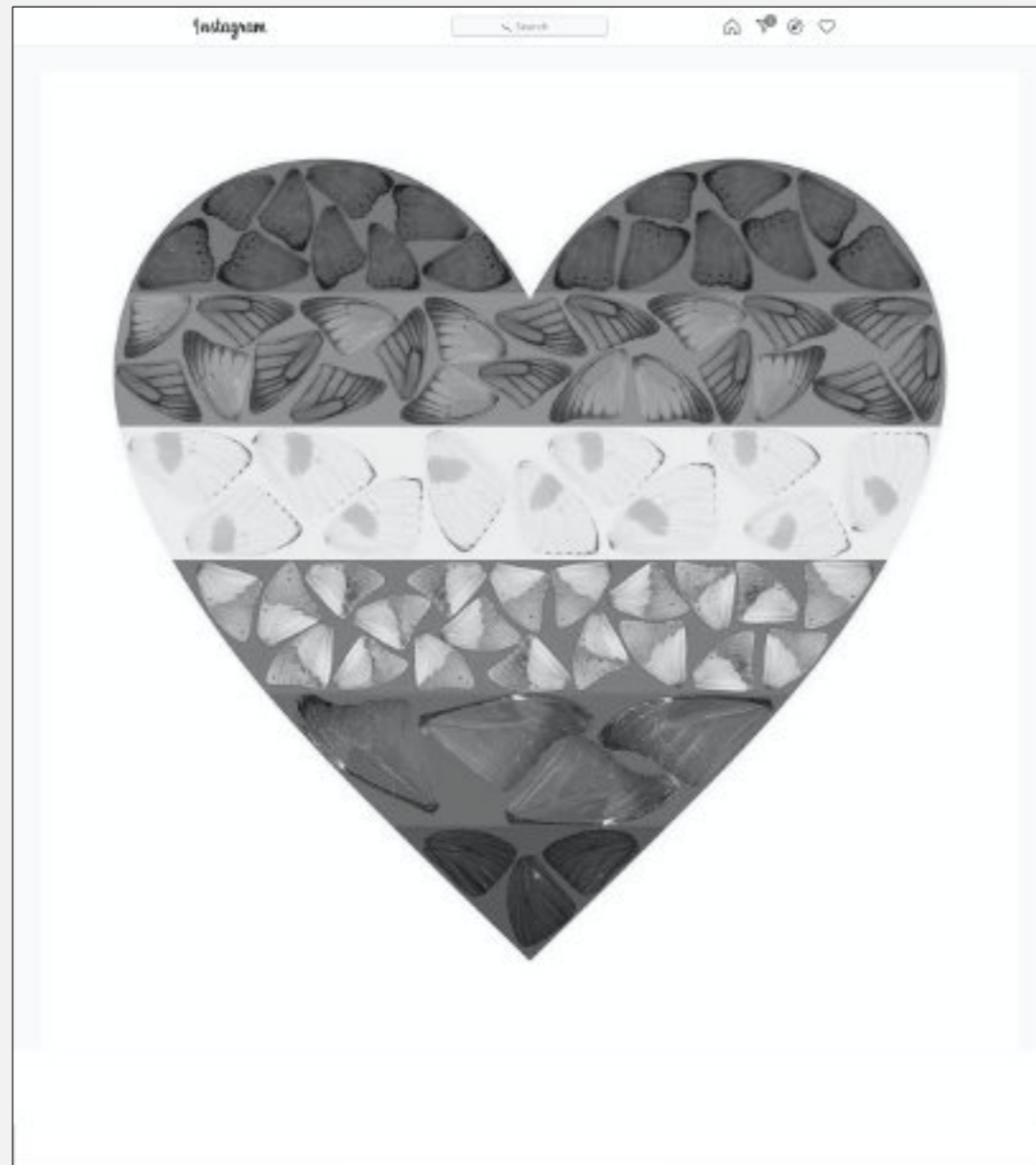
PARTICIPATION

Damian Hirst

Heart rainbow

I'm in awe of the charity-workers and community groups across the country who are risking their lives and health to deliver food to the most vulnerable in this time of crisis. I wanted to pay tribute to them so I also made this heart using the colours of the rainbow, a symbol of solidarity and hope, to support the Evening Standard and The Independent's campaign to raise money for these vital organisations. It'll be printed in today's Evening Standard so if you're able to then pick up a copy and stick it up and show some love and hope in your window.

https://www.instagram.com/p/B_M764OnrP6/?igshid=7bf7bzomgk



USE

CNTW

CNTW launches 'wobble rooms' to support staff wellbeing

Cumbria, Northumberland, Tyne and Wear NHS Foundation Trust has launched 'wobble rooms' to support staff's mental wellbeing during the COVID-19 pandemic. CNTW, a provider of mental health and learning disability services, is offering staff the chance to sign up to virtual wobble rooms which provide staff with a way to articulate how they feel about the pressures they are dealing with. The introduction of wobble rooms is part of a wider effort from CNTW to support staff wellbeing. The wobble room provides a space dedicated to staff to be able to share things and support each other.

<https://www.cntw.nhs.uk/news/cntw-launches-wobble-rooms-to-support-staff-wellbeing/>



POD

Plastique Fantastique

PF creates a mobile bubble-like space to protect COVID-19 doctors

Plastique Fantastique has created the mobile personal protective space, a pneumatic area where doctors can treat patients in safety. It has a positive air pressure which means the air constantly flows out of the personal space only – not letting potentially contaminated air inside. A ventilator, which can be located outside or in an extra decontaminated space, would supply clean air into the plastic bubble-like design.

<https://www.designboom.com/design/plastique-fantastique-mobile-pps-personal-protective-space-doctors-covid19-04-20-2020/>

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414

BUBBLE ROOM

HACKATHON

Various

We are a community of people who are building tools for those impacted by COVID-19

The purpose of the hackathon is NOT to take advantage of the current humanitarian and economic crisis related to the rapid spread of COVID-19. It is rather an opportunity to channel our energy and spare time into building tools that enable behaviors driven by our current constraints.

<https://hackinginplace.com/Welcome-to-Hacking-In-Place-535ce27f76c64a36a75a35e22a669517>

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Apr



ETHICAL HACKATHON

415

DATABASE

Wikipedia

Wikipedia:WikiProject COVID-19

WikiProject COVID-19 is a WikiProject dedicated to Wikipedia's coverage of the SARS-CoV-2 virus, the COVID-19 disease, and the COVID-19 pandemic. Please join us!

The project is an offshoot of WikiProject Disaster management, WikiProject Medicine (including the Pulmonology and Society and medicine task forces), and WikiProject Viruses. Sibling projects include WikiProject AIDS.

https://en.wikipedia.org/wiki/Wikipedia:WikiProject_COVID-19

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Apr

PARTICIPATION

Various

Iban Ramon designed this platform, which is supported by València World Design Capital 2022

The collective creativity platform "Esto Pasará", is fuelled by projects and initiatives that, through design, aim to improve life in times of COVID-19. Do you need sanitary material plans for 3D printing (masks, visors, respirators, etc.)? Are you looking for courses related to design? Do you want to access publications, documentaries or consult a guide to creative proposals? Here you will find all those proposals, altruistic and free.

<https://estopasara.wdc2022.com>

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WIKIPEDIA

ESTO PASARA

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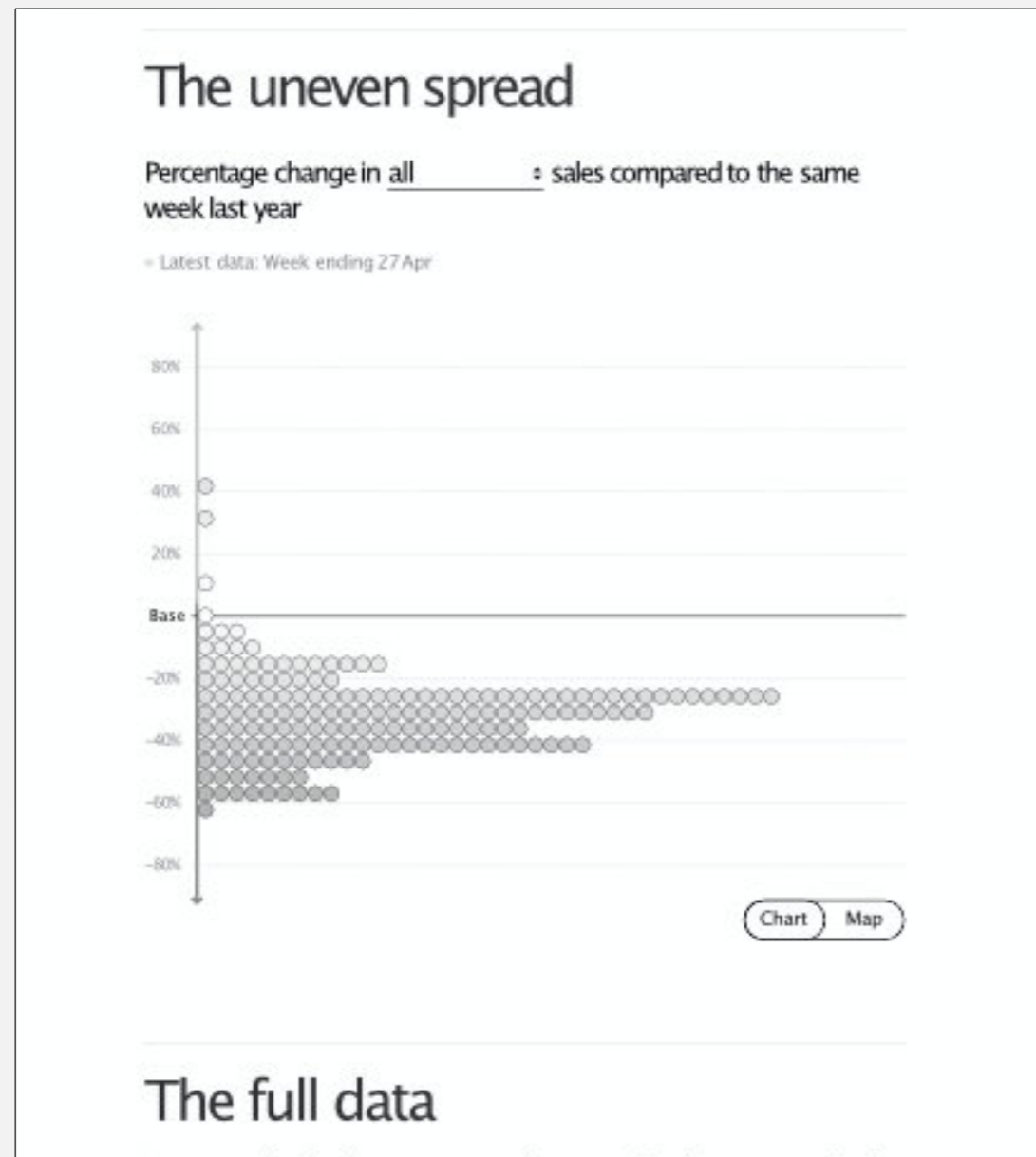
MAP & CHARTS

Tortoise

Corona shock tracker

Tortoise are tracking the economic shock that the pandemic is having in real time using a sample of current consumer spending data from bank account holders across England and Wales. This sample data would, in a normal year, cover a flow of spending of about £50bn – about 4 per cent of all UK household spending. By watching these flows, we can see not just the broad scale of the corona shock, but its geographic unevenness.

https://members.tortoisemedia.com/wp-content/uploads/sites/3/2020/04/Coronashock-hero_tracker.png



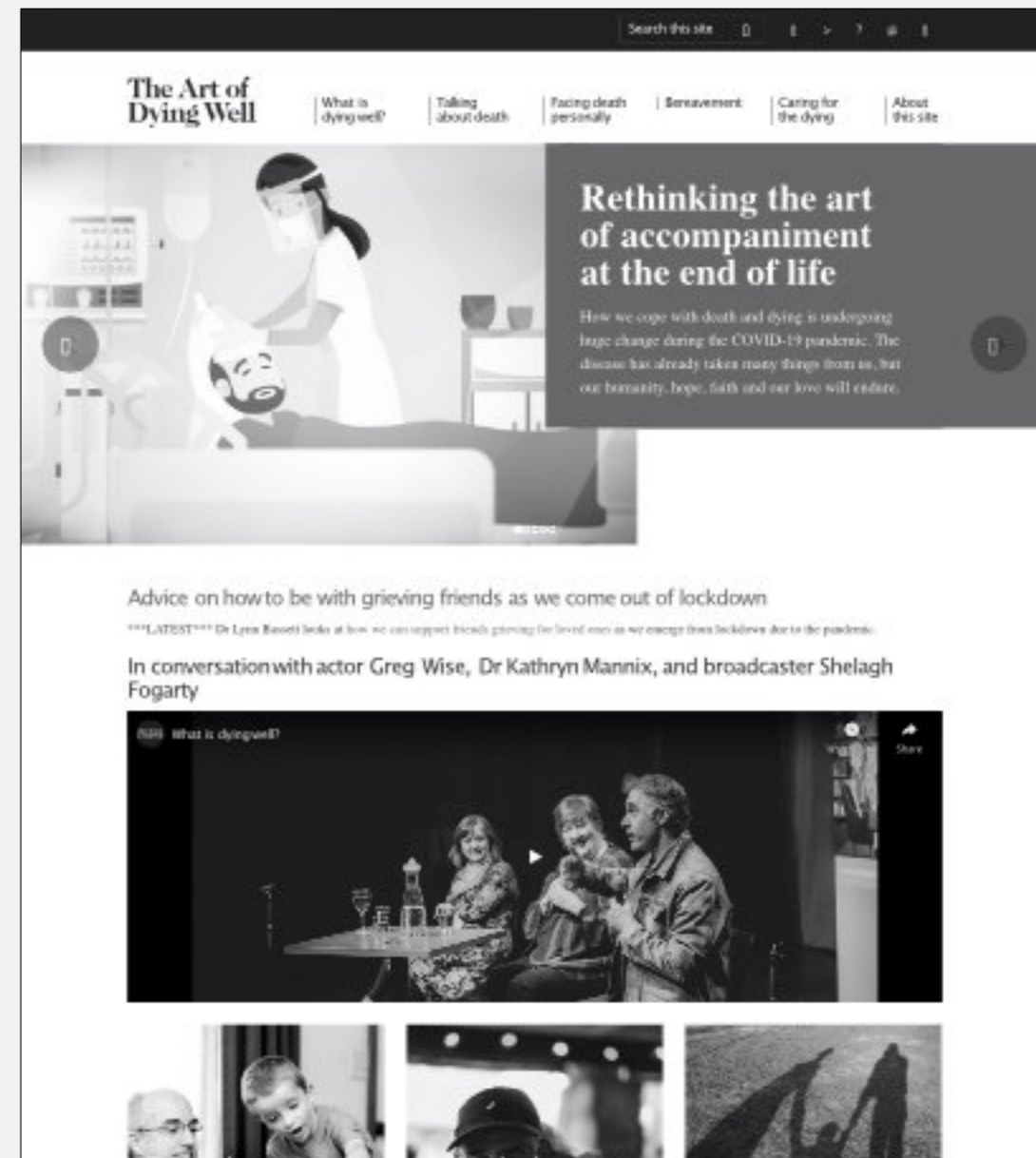
SPECIFICATIONS

The Centre for The Art of Dying Well at St Mary's University, London

The art of dying well: Deathbed etiquette guide offers advice on virtual communication with dying relatives

The Centre for The Art of Dying Well at St Mary's University, London, advised relatives unable to be physically with their loved ones to communicate with them virtually, trust in the care of doctors and nurses and not let feelings of guilt take over. The guide also said relatives should speak from the heart, remember to say important last words and reassure them that you 'will be ok'.

<https://www.dailymail.co.uk/news/article-8238969/Stark-guide-deathbed-etiquette-released-bid-aid-families-hit-coronavirus.html>



Genomic epidemiology of novel coronavirus - Global subsampling

Nextstrain.org aims to provide a real-time snapshot of evolving pathogen populations and to provide interactive data visualizations to virologists, epidemiologists, public health officials, and community scientists. Through interactive data visualizations, we aim to allow exploration of continually up-to-date datasets, providing a novel surveillance tool to the scientific and public health communities.

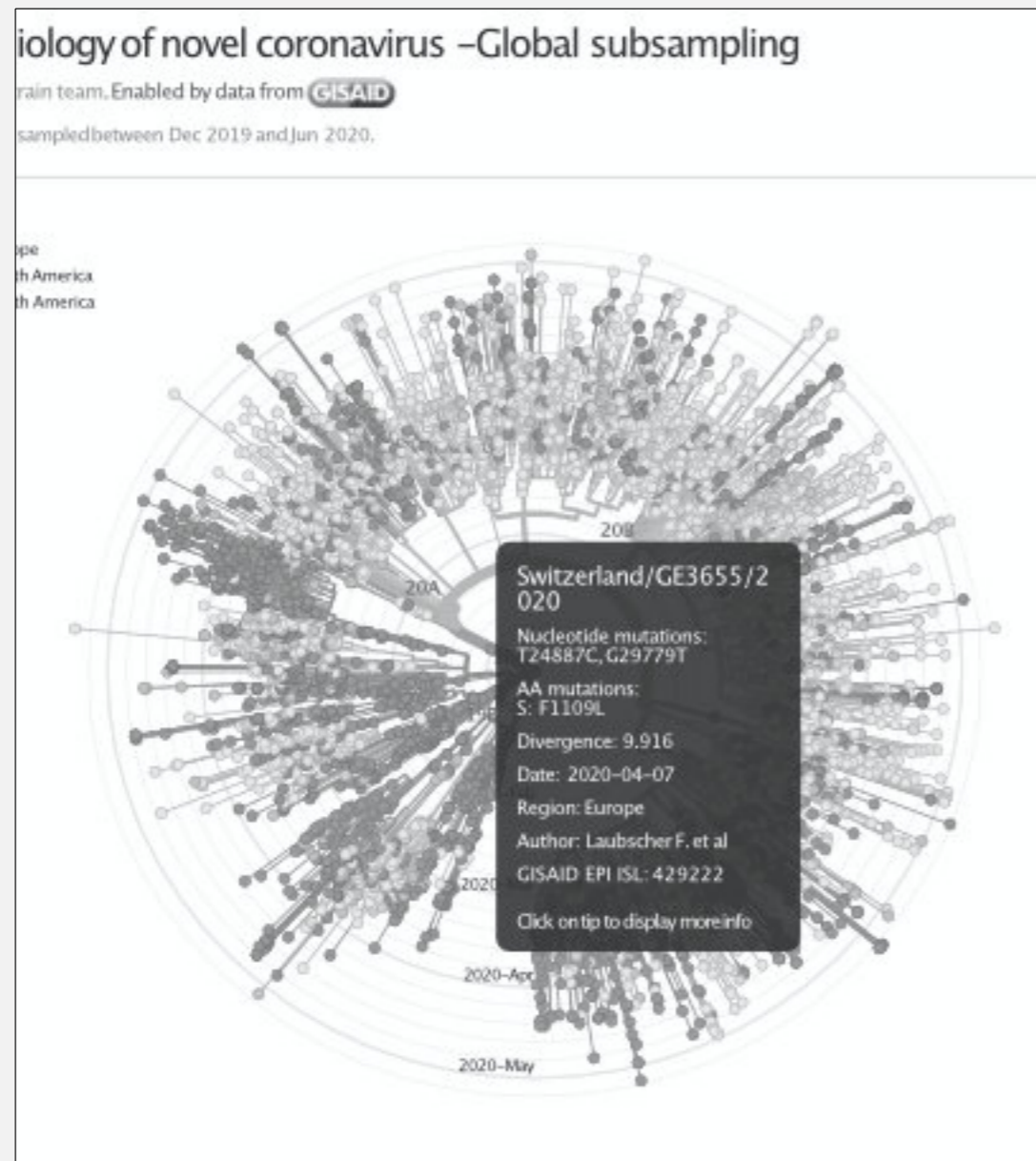
<https://nextstrain.org/ncov?!=radial>



A Call for Action

The current pandemic has not only shown vulnerabilities in our public health systems but has also made visible our failure to re-use data between the public and private sectors — what we call data collaboratives — to inform decision makers how to fight dynamic threats like the novel Coronavirus. Here we call for action, and we propose the 7 actions to make data collaboration systematic, sustainable and responsible (and build the data infrastructure we need)

<https://medium.com/data-stewards-network/a-call-for-action-813669f32244>



CALL FOR ACTION

TOWARD BUILDING THE **DATA INFRASTRUCTURE AND ECOSYSTEM** WE NEED TO TACKLE PANDEMICS AND OTHER DYNAMIC SOCIETAL AND ENVIRONMENTAL THREATS

#data4covid19

7 ACTIONS TO MAKE DATA COLLABORATION SYSTEMATIC, SUSTAINABLE, AND RESPONSIBLE IN LIGHT OF COVID-19

- DEVELOPING GOVERNANCE FRAMEWORKS
- ESTABLISHING DATA STANDARDS
- BUILDING A NETWORK
- FORMING ROLES
- BUILDING CAPACITY
- USING OPEN FUNDS
- PROMOTING TECHNICAL INNOVATION

The undersigned concerned individuals, all of whom have worked responsibly to harness the potential of data to address critical societal and environmental challenges, call upon major stakeholders to take seven key actions to unleash the potential of #datacollaboration in addressing the ongoing COVID-19 pandemic and to improve preparedness for the future.

JOIN US AND SIGN [HERE](#).

WHY WE NEED ACTION
The spread of COVID-19 is a human tragedy and a worldwide crisis. The social and economic costs are huge, and they are contributing to a *global slowdown*. Despite the amount of data collected daily, we have not been able to leverage them to accelerate our understanding and action to counter COVID-19. As a result we have entered a global state of profound uncertainty and anxiety.

SHIELD

designlibero

'Bubble shield' by designlibero imagines a solar-powered personal space

For this project Libero Rutilo and Ekaterina Shchetina of designlibero have brought the phrase 'living in your own bubble' into manifestation. Developed in response to the COVID-19 pandemic and the need to limit the spread of the virus, the 'bubble shield' concept is essentially a physical barrier created to protect people in public spaces. We all live in our world and this 'bubble shield' concept proposes how the idea of a private protected zone could become physical.

<https://www.rechargenews.com/transition/living-in-a-bubble-covid-19-fashion-statement-with-green-credentials/2-1-807628>

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Apr



422

BUBBLE SHIELD

PARTITIONS

Aviointeriors

Italian-based design firm Aviointeriors has come up with two cabin concepts

Is this what flying economy class will look like after the coronavirus crisis? Designs emerge of cabins where passengers are shielded by screens to help prevent further outbreaks. The 'Janus' takes its inspiration from the ancient two-faced Roman god and has a reversed centre seat, while the 'Glassafe' concept sees each seat fitted with a 'hood'.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

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Apr



CABIN PARTITIONS

423

SHIELD

Various

A single piece of plastic folds to make the 'flatpack faceshield' for medical staff

Developed by Jakarta-based designers, local interior bureau, the 'flatpack faceshield' offers lightweight yet durable protection for medical staff on the frontline of COVID-19. Made using one single component of plastic, the shield is not only quick to produce but easier to distribute in its flatpack form. Funded by Bandung Institute of Technology, the team has already donated almost 500 faceshields to healthcare facilities in Indonesia.

<https://www.designboom.com/design/one-piece-of-plastic-flatpack-faceshield-medical-staff-04-22-2020/>

**FLATPACK FACESHIELD**

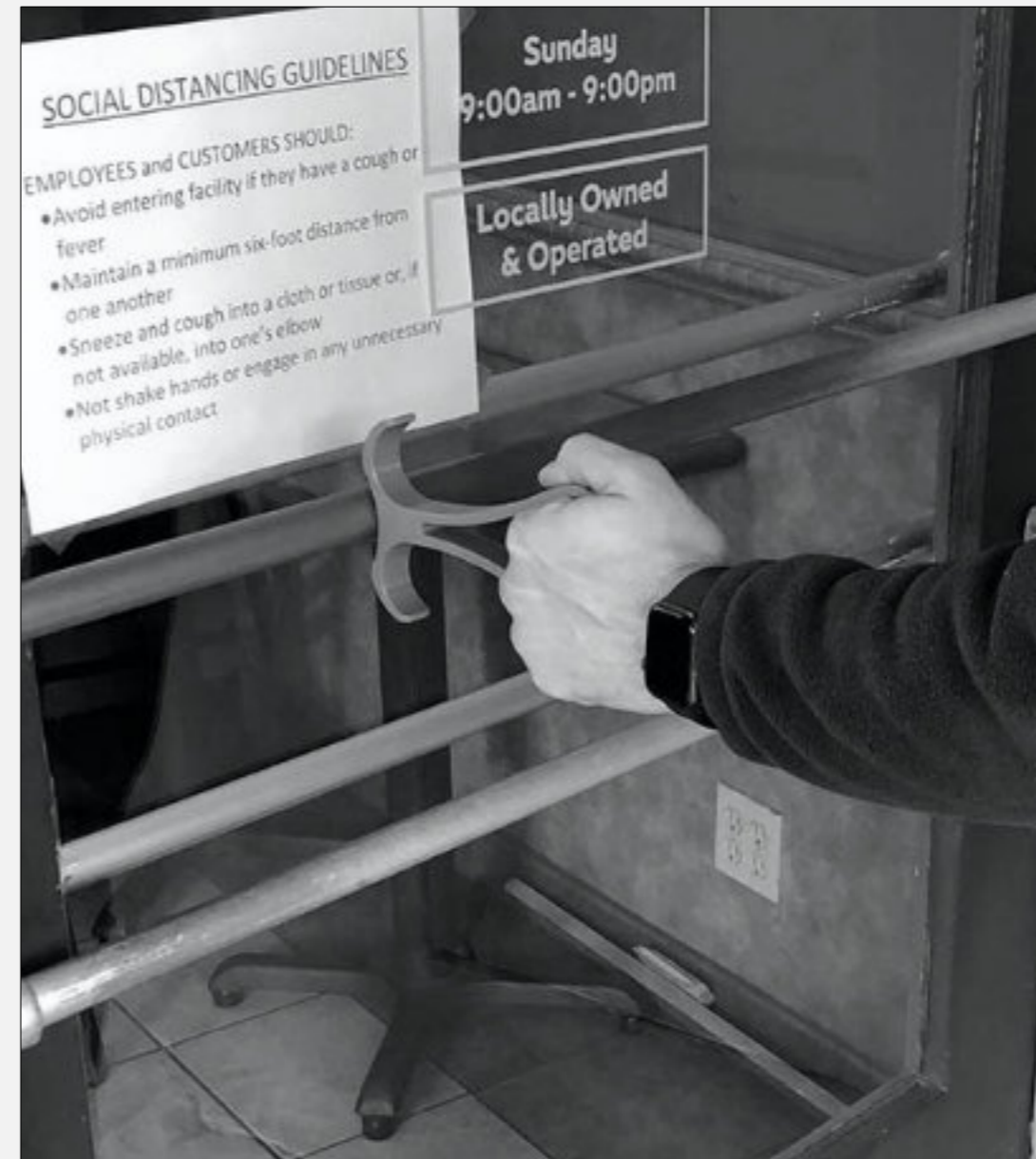
OPENER

Matteo Zallio

'Handy' is an open source tool designed to slow the spread of COVID-19

Designed in response to the COVID-19 pandemic, the opensource device aims to help people avoid touching contaminated surfaces in order to prevent further spread of the virus. Zallio, a user experience researcher with a background in architecture and design, noticed how difficult it is to open doors, press buttons and interact with objects in the public space since the spread of COVID-19. The idea behind 'handy' is to therefore offer an open source response to combating the virus, which is reportedly known to last on some surfaces for days.

<https://www.designboom.com/design/handy-open-source-tool-slow-the-spread-of-covid-19-04-22-2020/>

**HANDY**

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Apr

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ANIMATION

zzdesign

Our Future Is in Our Hands

"My work is on a giant digital billboard in the heart of Times Square in NYC telling everyone: OUR FUTURE IS IN OUR HANDS (literally) Artists and creators from around the world were asked to create a piece for this city we love. I'm so honored to be a part of this citywide public art campaign initiated by @posterhousenyc @print_mag @tsqarts and @forfreedom They are not only on the digital billboards in @timessquarenyc, but also on over 1,800 @linknycofficial digital billboards and screens in all five boroughs of NYC and one on the New Jersey side of the Lincoln Tunnel."

https://www.instagram.com/p/B_P9DgBnOXi/?igshid=1pa6j8mvoa3h0

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Apr



426 FUTURES

ANIMATION

@mrseaves101 and @zzdesign

My artwork is in the heart of @timessquarenyc sending a message of gratitude to the rest of the world: Thank You Essential Workers

This piece was created as part of a citywide public art campaign initiated by Poster House NYC, Print Magazine, Times Square Arts, and For Freedoms that went live across New York last week. Artists and designers from around the globe were asked to create messages of love, gratitude, and solidarity with frontline workers, and I was honoured to be a part of the group.

https://www.instagram.com/p/B_Q11u3jg9B/?igshid=1me7yluzmagc

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Apr



ESSENTIAL WORKERS 427

ILLUSTRATION

Jessica Walsh

Coronavirus-related emojis by &Walsh offer "comic relief" during pandemic

Jessica Walsh's creative agency &Walsh has designed emojis that detail life during the coronavirus pandemic, including hand sanitiser, a tin of beans and healthcare workers dressed as superheroes.

The New York designer has made hundreds of emojis and sticker designs with her team to relate to the current climate caused by the crisis.

<https://www.dezeen.com/2020/04/23/emojis-andwalsh-coronavirus/>



EMOJI NURSES

428

PERFORMANCE

Josh Cohen

'How not to touch your face in contagious times'

Bringing some much-needed lightness to the surreal state of current affairs, Josh Cohen shares his short video on 'how not to touch your face in contagious times'. From donning a suit of armor to wrapping himself in a plastic bubble, the Brooklyn-based designer offers some inventive, but not so practical ways to avoid touching your face and spreading potentially harmful germs.

<https://www.designboom.com/design/josh-cohen-how-not-to-touch-your-face-in-contagious-times-04-23-2020/>



DON'T TOUCH

429

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Apr23
Apr

INTERVENTION

Ben Birchall/PA Wire

Masked Banksy

Banksy's Girl with a Pierced Eardrum mural has been given a face mask in a nod to the coronavirus pandemic. The anonymous UK-based street artist originally created the piece in his home city of Bristol six years ago. It is not yet known who added the health worker style face mask or if it was Banksy.

https://www.instagram.com/p/B_Uxdleprpe/



COVID BANKSY

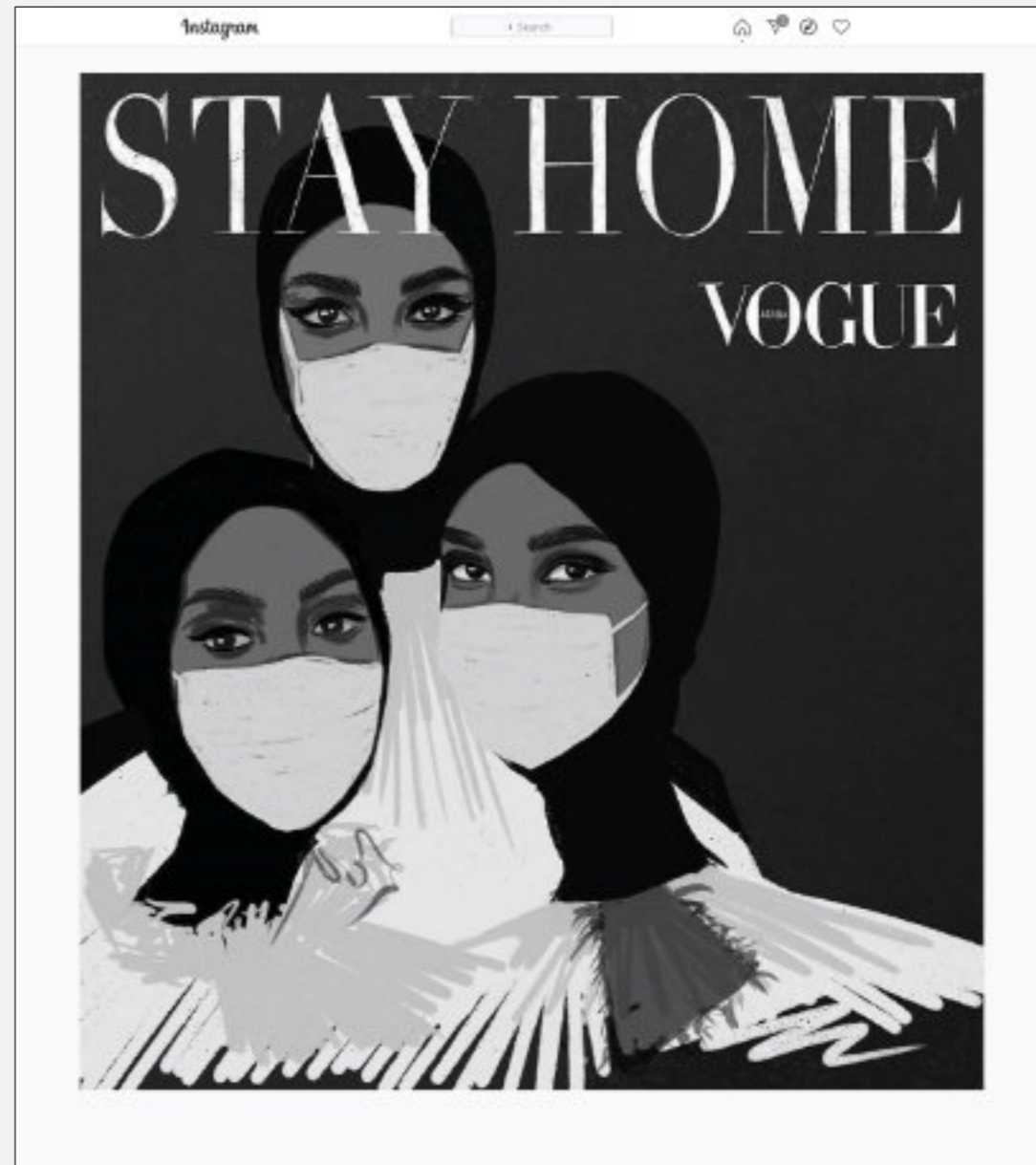
ILLUSTRATION

voguearabia

Vogue Arbia Cover

In the span of a couple of days, it has been truly gratifying seeing Vogue Arabia's readers joining us in our #StayHome campaign to create their own renditions of our covers in order to propel our message of safe practices during the Covid-19 pandemic. We hope that you continue to stay home and adopt the prescribed safety procedures for as long as it takes us to get through this together.

https://www.instagram.com/p/B-_k7UJBOhs/



STAY HOME

MASK

@yrurari

Mutated Quarantine Crafts

"I've been experimenting with some of my sweater ideas to wear on a face, always interesting to see the outcome. It has been fun to see masks inspired by mine, good use of quarantine time to knit. But a reminder again, my masks are not made for safety, knitted masks are not safe to start with!

https://www.instagram.com/p/B_ThZw-HT-F/?igshid=1qkzi15nl9zv

23
Apr



432

CONCEPTUAL MASK

BLANKET

Paul Cocksedge

Paul Cocksedge Imagines a Social Distancing Blanket for a Post-Lockdown World

The COVID-19 pandemic is far from over, and we will have to learn to live with the virus and adapt to our new reality, which supposes long-term spacing. This inspired Cocksedge to create "here comes the sun", a proposal for our post-lockdown future. The project aims to help people to socialize safely and confidently once the restrictions have been eased. Featuring a blanket, "here comes the sun" has been designed so that people are two meters away from each other, the required distance science has recommended for stopping contagion.

<https://www.designboom.com/design/paul-cocksedge-here-comes-the-sun-social-distancing-04-23-2020/>

23
Apr



DISTANCING BLANKET

433

ROBOT

Boston Dynamics

Boston Dynamics spot robot dog helps doctors treat COVID-19 patients

The Boston Dynamics spot robot dog has learnt a new trick by treating COVID-19 patients. The mobile four-legged bot can now protect frontline healthcare workers by minimizing their exposure to the contagious virus. This mobile tool is especially helpful when there is a shortage of personal protective equipment (PPE).

<https://www.designboom.com/technology/boston-dynamics-spot-robot-dog-doctors-covid-19-04-24-2020/>



SPOT ROBOT

SIGN

The Government of Russia

Siberian social distancing

This notice in Russia advises people to keep 1.5 metres (5ft) apart - illustrating the message by saying the distance is equivalent to a small bear

<https://www.dailymail.co.uk/news/article-8252887/Russia-denies-hiding-coronavirus-figures-5-849-new-cases-recorded.html>



SIBERIAN DISTANCING

Argentina

MASK

River Plate

Masks become a football branding item

Masks will be part of everyday life for a while. This is also understood by some football teams who have launched these customised products with their club shield or colours, which fans can purchase through the official sales channels of each club.

https://as01.epimg.net/diarioas/imagenes/2020/04/23/actualidad/1587674345_059954_1587675090_noticia_normal.jpg

**FOOTBALL FANS**

Scotland

MASK

Steven Patrick Sim

Born from my anxiety...

"I'm not so afraid for my own health, and the risk to my own life... instead I'm really worried of the threat to my mum and dad... I fear for their lives. So I created the tartan as a PUBLIC HEALTH WARNING. A tartan which could become a visual reminder to BE AWARE... aware of the dangers that are now lurking in the microscopic world all around us."

<https://thetartanartisan.com/blogs/news/why-i-created-the-virohazard-tartan>

**THE VIROHAZARD TARTAN**

24
Apr

24
Apr

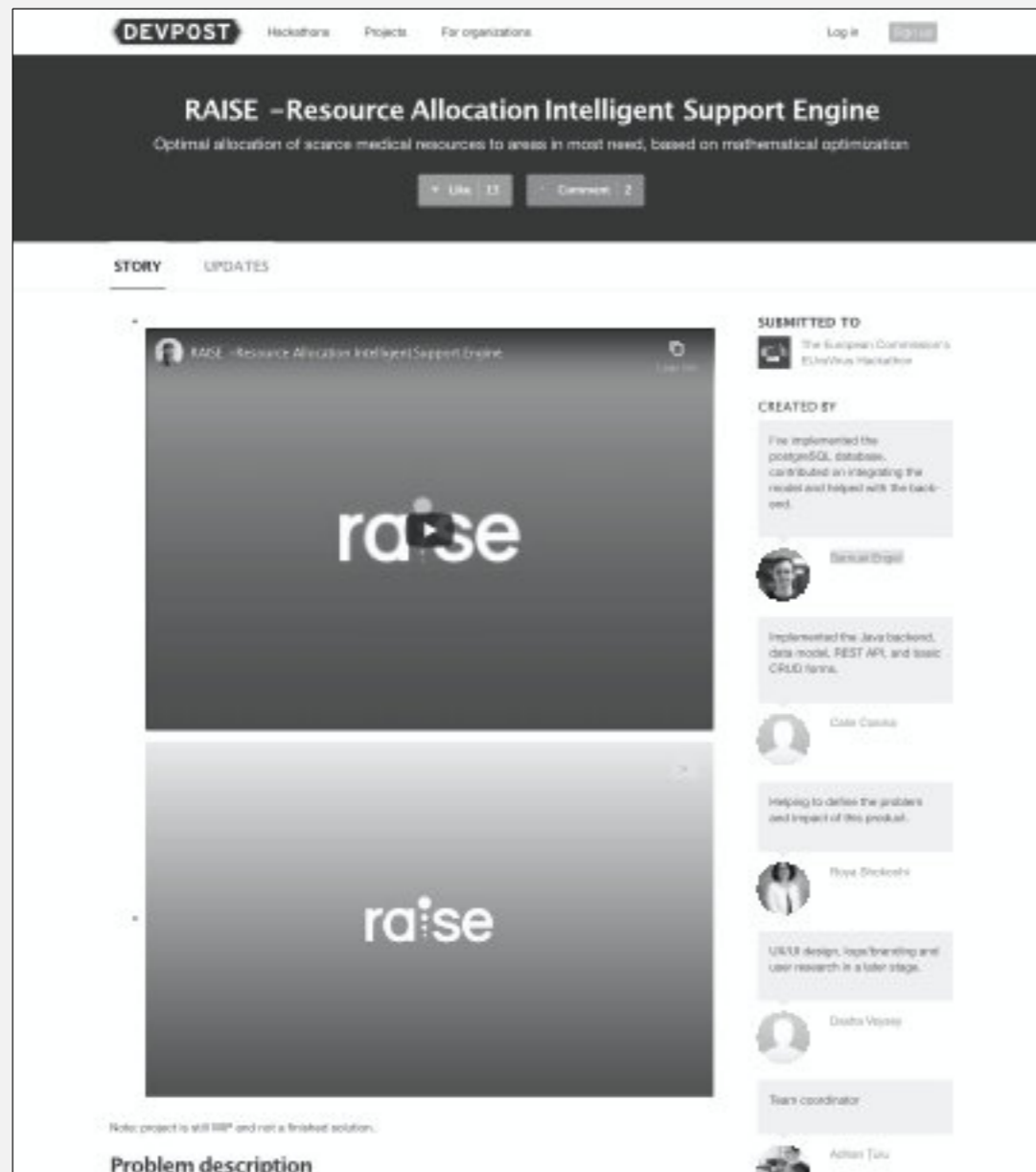
APP

Adrian Tuiu, et al.

RAISE - Resource Allocation Intelligent Support Engine

Optimal allocation of scarce medical resources to areas in most need, based on mathematical optimization. RAISE (Resource Allocation Intelligent Support Engine) consists of an optimization engine wrapped in a web app. The engine applies mathematical optimization to solve this medical resource allocation problem in a way that fulfills the most demand across regions while minimizing transportation times.

<https://devpost.com/software/raise-resource-allocation-intelligent-support-engine-3ykiv5>



RAISE

POSTER

NYT

Do not eat disinfectant

At a White House COVID-19 briefing on Thursday 23th, President Trump pushed dangerous and unproven theories about treatments, specifically that hitting someone with a "tremendous" beam of light or injecting a household disinfectant into a human body could treat Covid-19. The president later said he didn't mean the suggestions. But sarcastic or not, his claims are without scientific basis.

https://www.instagram.com/p/B_YNt1cAHSX/?igshid=722xpy632eoh



DO NOT EAT DISINFECTANT

24
Apr24
Apr

MASK

Digital_Sqrt***Surgical Mask Ear Saver***

"Another Ear saver. I know everybody is making one. However, You can get 11 on an Build plate that is 220x220mm and print in 110 Minutes. The down side is you need to be at the printer every 110 Minutes."

<https://www.thingiverse.com/thing:4313287>

25
Apr

MASK

Maesequer Family***Far-right patriotic mask costs 4.25 euros***

The Meseguer family, a couple affiliated with far-right party Vox residing in Bullas (Murcia) came up with the idea of making units with olive green fabric representative of their party or the National guard, and embroidering a small flag of Spain on a corner.

Success, among their party friends, was immediate.

https://www.instagram.com/p/B_Z0dGoKlz0/?igshid=1a6pdytkewsgi

25
Apr



MAP & CHARTS

COVID-19 Coronavirus Tracker

This tracker provides the number of confirmed cases and deaths from novel coronavirus by country, the trend in confirmed case and death counts by country, and a global map showing which countries have confirmed cases and deaths. The data are drawn from the Johns Hopkins University (JHU) Coronavirus Resource Center's COVID-19 Map and the World Health Organization's (WHO) Coronavirus Disease (COVID-2019) situation reports.

<https://www.kff.org/global-health-policy/fact-sheet/coronavirus-tracker/>

25
Apr

TEST

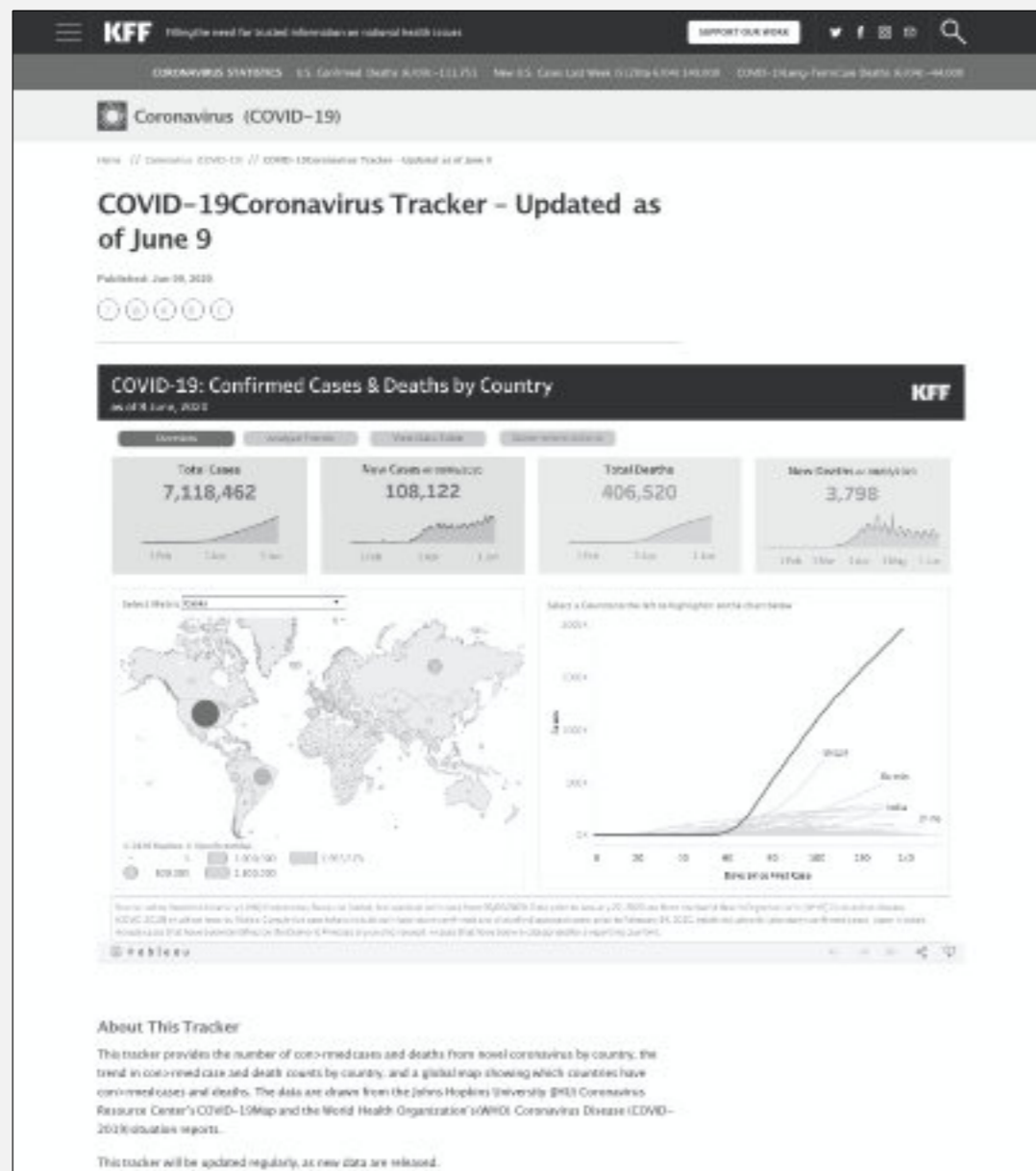
Oxford scientists develop accurate antibody kits that work in 20 minutes

Oxford scientists develop accurate antibody kits that work in 20 minutes and could be producing one million a week by June.

Scientist breakthrough means Britons could take test to see if they have immunity from coronavirus by June.

<https://www.dailymail.co.uk/news/article-8257233/Government-orders-50million-game-changing-immunity-tests.html>

25
Apr



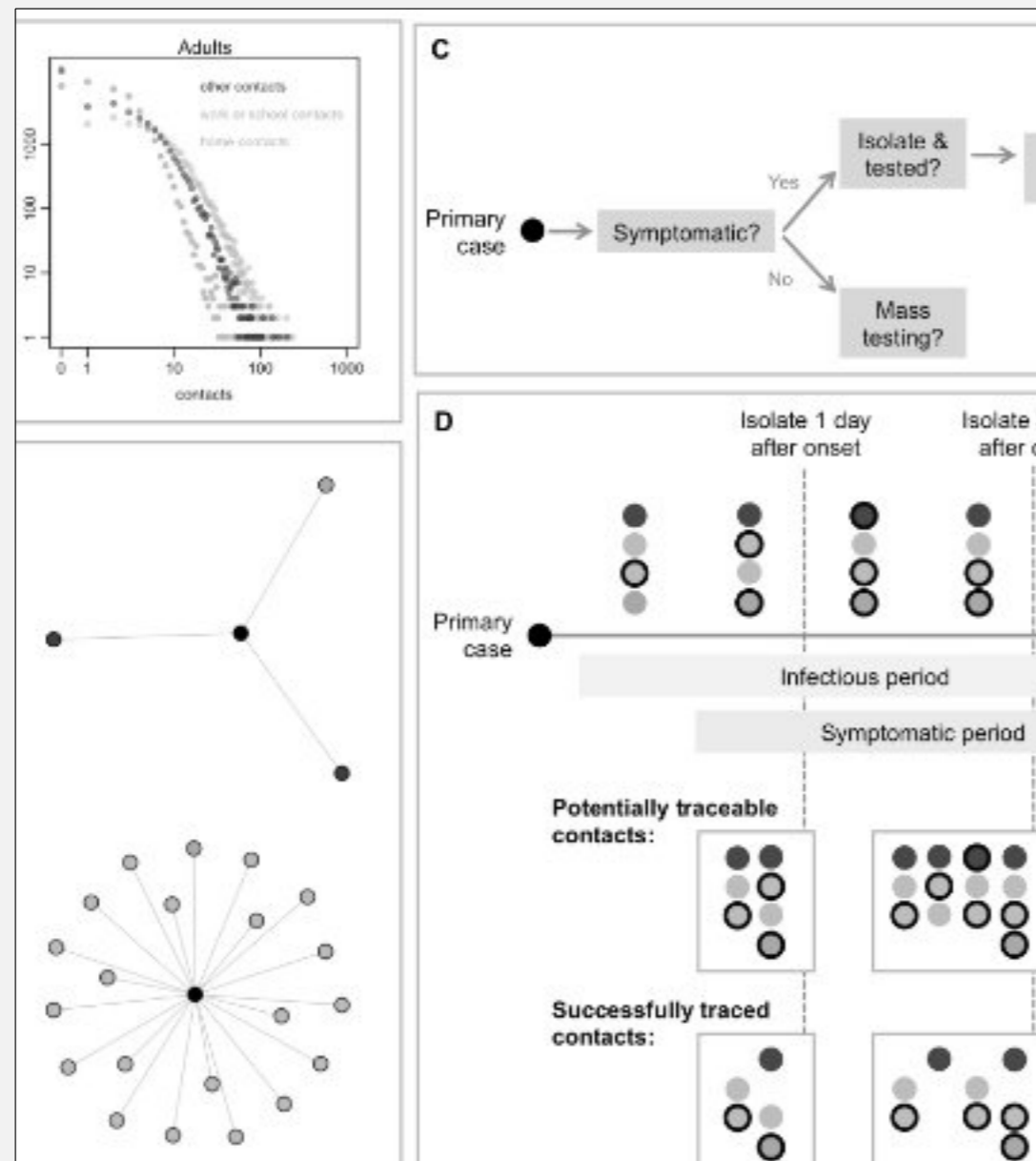
CHARTS

Adam J Kucharski et al. - Centre for Mathematical Modelling of Infectious Diseases

Effectiveness of isolation, testing, contact tracing and physical distancing on reducing transmission of COVID-19 in different settings: a mathematical modelling study

Our new preliminary analysis looks at the potential impact of various isolation, contact tracing, testing, and physical distancing measures on COVID-19, using social interaction data from over 40,000 people in the UK.

<https://twitter.com/AdamJKucharski/status/1254166905692307456>



USE

Red Cross

Hotels for homeless

About twenty homeless people recover from the coronavirus in the rooms with four stars that have been medicalized by the Madrid City Council and the Red Cross.

<https://elpais.com/espana/madrid/2020-04-26/el-hotel-para-ejecutivos-que-aloja-a-los-sintecho-contagiados.html>



POSTER

Emily Oberman

Apart

For several weeks, visual artists, illustrators and graphic designers the world over have been at work, donating their time and skills to help make sense of a novel virus, and to relay critical health information to the masses.

<https://www.whatdesigncando.com/stories/say-it-with-posters/>



APART

POSTER

Ola Baldych

Y'all Wear You

For several weeks, visual artists, illustrators and graphic designers the world over have been at work. The success of these projects suggest that those of us in the communications industry can play a valuable role in the weeks and months ahead. While it's true that one poster alone cannot change behaviour, a chorus of thousands can at least help us maintain some sanity and solidarity.

<https://www.whatdesigncando.com/stories/say-it-with-posters/>



Y'ALL WEAR YOUR

26
Apr26
Apr

POD

CLEANTECH J-1

First in the world "CLEANTech" full-body intelligent disinfection channel facility installed at Hong Kong airport

A pod known as the CleanTech J-1 is currently in use at Hong Kong's International Airport to protect visitors, boasting a 99.9 per cent disinfectant rate.

<https://www.dimsumdaily.hk/first-in-the-world-cleantech-full-body-intelligent-disinfection-channel-facility-installed-at-hong-kong-airport/>



CLEANTECH J-1

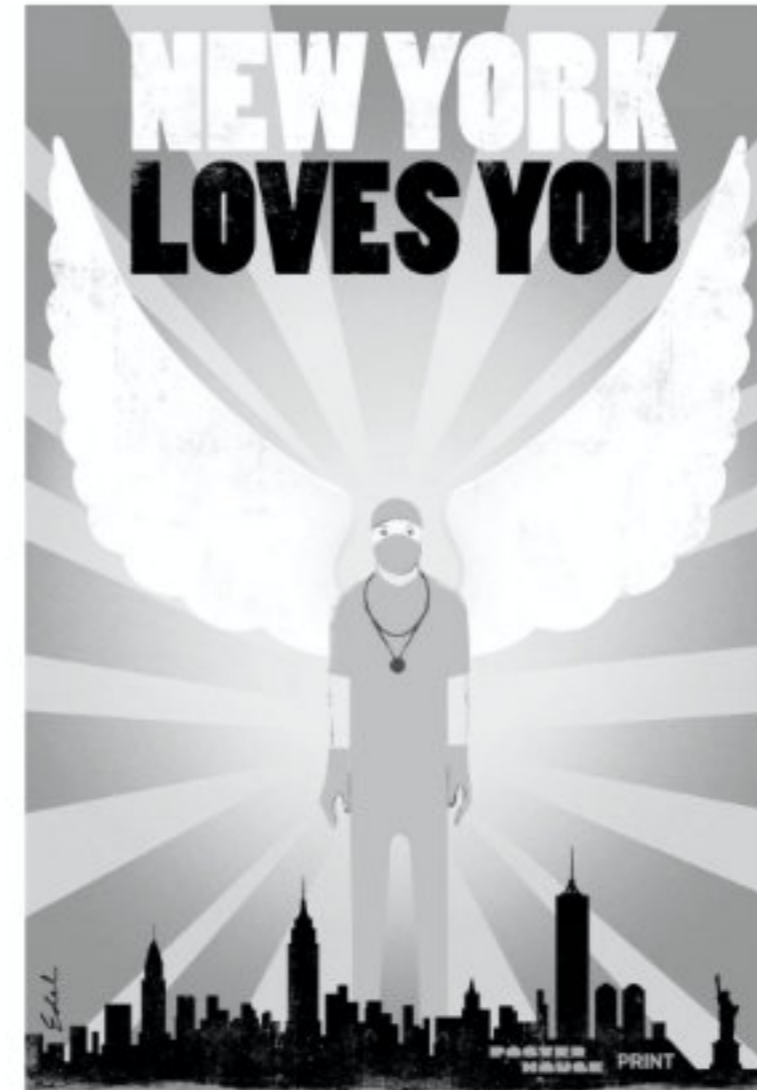
POSTER

Edel Rodriguez

New York Loves You

For several weeks, visual artists, illustrators and graphic designers the world over have been at work. Across Times Square in New York City and on the streets of London, posters designed by the likes of Edel Rodriguez and Marina Willer now act as beacons of hope, and love letters to key workers everywhere.

<https://www.whatdesigncando.com/stories/say-it-with-posters/>



NY LOVES YOU

26
Apr

26
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POSTER

Koto

NHeroes

In the UK, ten leading studios including Pentagram, Koto and Studio MakGill have donated artworks to a new virtual poster campaign which aims to celebrate the country's National Health Service. The posters appear in a set of downloadable mockups, which are available to purchase through the Layers website. All proceeds from the collection will go to NHS Charities Together.

<https://www.whatdesigncando.com/stories/say-it-with-posters/>



NHEROES

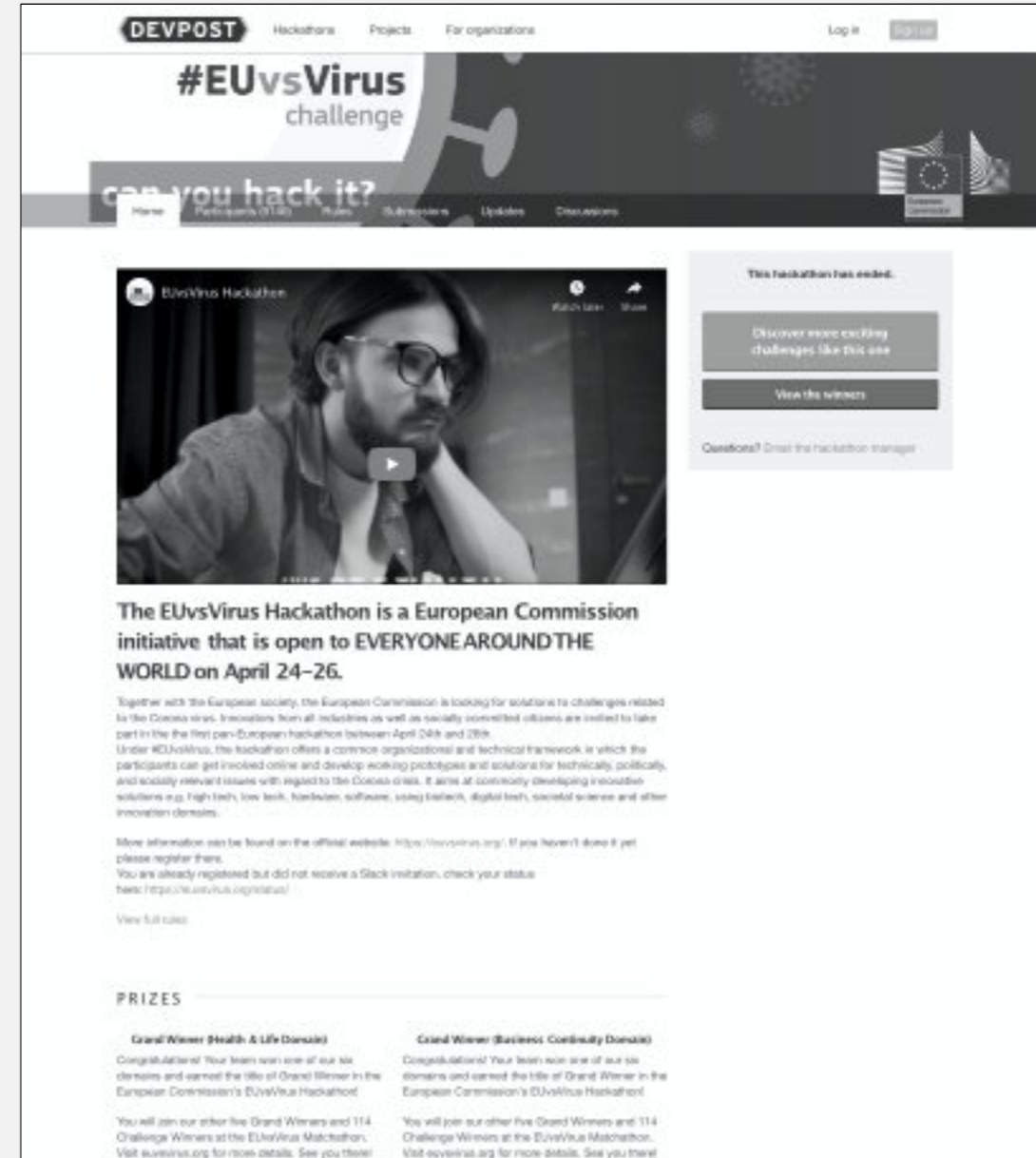
HACKATHON

European Commission

The EUvsVirus Hackathon is a European Commission initiative

Under #EUvsVirus, the hackathon offers a common organizational and technical framework in which the participants can get involved online and develop working prototypes and solutions for technically, politically, and socially relevant issues with regard to the Corona crisis. It aims at commonly developing innovative solutions e.g. high tech, low tech, hardware, software, using biotech, digital tech, societal science and other innovation domains.

https://eunitedvirus.devpost.com/?ref_feature=challenge



EUvsVIRUS

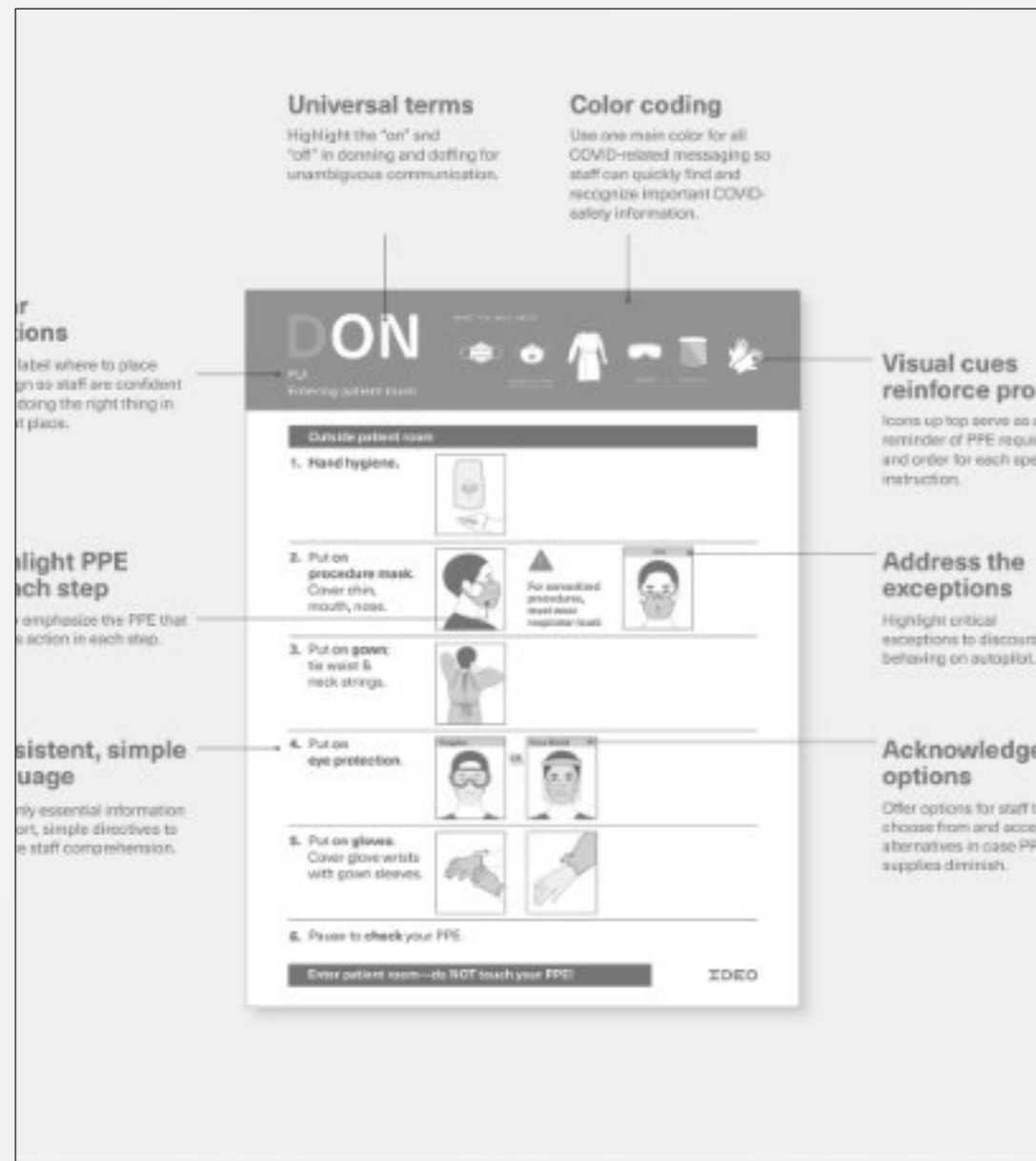
POSTER

IDEO

Designing for COVID Safety: PPE Instructions for Clinical Settings

In partnership with the University of Chicago Medicine, IDEO designed a set of instructional signs and communications principles to help healthcare workers providing care for COVID-19 patients better understand how to protect themselves by properly taking on and off their personal protective equipment (PPE) while in a clinical setting. Proper procedures for donning (putting on) and doffing (taking off) PPE is a critical moment for healthcare workers, as it is the point at which they're most at risk for self-contamination and exposure of the virus.

<https://www.ideo.com/post/designing-for-covid-safety-ppe-instructions-for-clinical-settings>



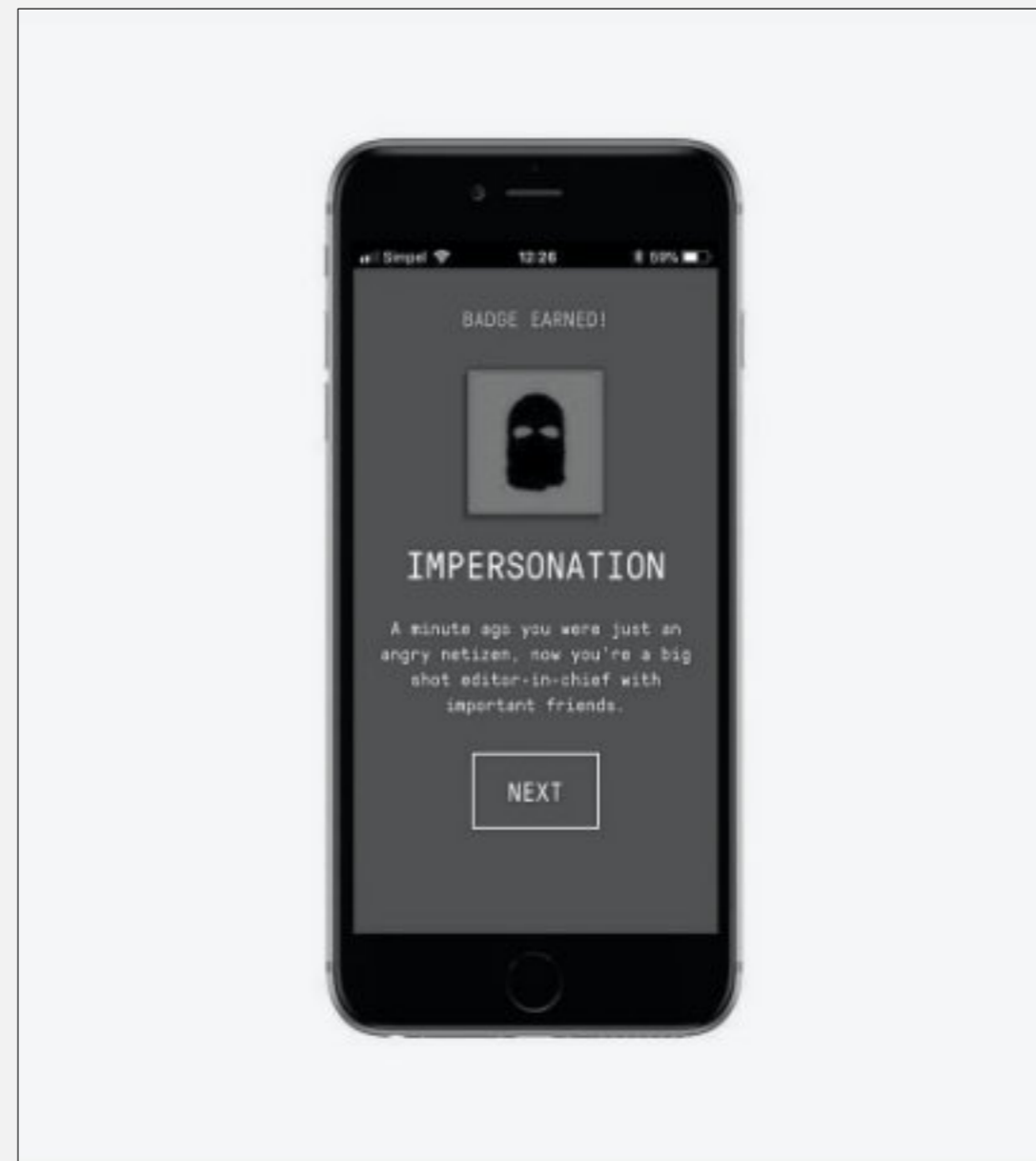
APP

Jon Roozenbeek y Sander van der Linden

Newspaper El Pais recommends this old game to fight far-right fake news in Spain

In Bad News, you take on the role of fake news-monger. Drop all pretense of ethics and choose a path that builds your persona as an unscrupulous media magnate. But keep an eye on your 'followers' and 'credibility' meters. Your task is to get as many followers as you can while slowly building up fake credibility as a news site. But watch out: you lose if you tell obvious lies or disappoint your supporters!

<https://www.getbadnews.com/#intro>



PARTITIONS

Retroreformas

Coronavirus update: Perspex screens could be used in restaurants and bars to protect customers

A Spanish company has designed screens for tables to make restaurants and bars safer by protecting customers from coronavirus. Manuel Gil from the renovation business Retroreformas in the city of Leganes in Madrid, came up with the idea of setting up perspex screens to protect customers in bars and restaurants. The idea has been launched with the slogan "Llena tu Bar" which translates to "Fill your bar". Under the proposal, the screens can be adapted to each premises to isolate customers in cubicles.

<https://7news.com.au/lifestyle/health-wellbeing/coronavirus-update-perspex-screens-could-be-used-in-restaurants-and-bars-to-protect-customers-c-1000544>

27
Apr



454 **PERSPEX SCREENS**

SIGN

Tesco

'Please keep 2m apart': Tesco signalling urges shoppers to social distance

The sign explains the social distancing measures the supermarket is taking to keep shoppers safe amid the Covid-19 outbreak.

<https://www.marketingweek.com/tesco-social-distance-coronavirus/>

27
Apr



455 **2M DISTANCE**

MASK

El Hijo de Soberano

Mexico's Lucha Libre wrestlers are known for their elaborate masks.

Unable to compete because of coronavirus, some have turned their design skills to making colourful protective facemasks. Wearing of face coverings is compulsory in many areas of Mexico due to the virus outbreak. El Hijo de Soberano creates masks using famous designs associated with legendary Lucha Libre stars. The wrestler, who doesn't reveal his face, says he uses "lycra and the fabrics that are used in the wrestling suit making"

https://www.instagram.com/p/B_ffyHJlk/

27
Apr

APP

LOCIX

UK and US firms making tracing apps for private companies to track employees

Private contact-tracing apps could help ease coronavirus lockdown and get major businesses back to work by monitoring COVID-19 spread in offices and alerting staff if they have been in contact with an infected colleague. Locix's system shows exactly where employees have been and how long they spent there using heat maps

<https://www.dailymail.co.uk/news/article-8260301/Private-contact-tracing-apps-help-ease-coronavirus-lockdown.html>

27
Apr



456

WRESTLING MASK

HEAT TRACKER

457

INFOGRAPHIC

Nicky Case

Protecting Lives & Liberty: How Contact Tracing Can Foil COVID-19 & Big Brother

If you'd like to help translate this comic, click here to see what translations have already been done! If your language hasn't been done yet, send a Pull Request to that repo with your translated comic

<https://ncase.me/contact-tracing/>



PROTECTING LIVES & LIBERTY
how contact tracing apps can foil both COVID-19 and Big Brother

A problem with COVID-19: You're contagious ~2 days before you know you're infected.

But it takes ~3 days to become contagious, so if we quarantine folks exposed to you the day you know you're infected...

We stop the spread, by staying one step ahead!

This is called "contact tracing". It's a core part of how South Korea & Taiwan are *already* containing COVID-19, and what we must do, too.

...but we *do* need to find them quickly. Traditional contact tracing, with interviews, is too slow.

Hence, why we need contact tracing *apps*.

But do we have

* what about never-symptomatic people? turns out they don't play a large role in COVID-19 spread! see citations at end

TRACING INFOGRAPHIC

POSTER

Javier Parra

Javier Parra designs a poster in support of public health

"To beat the coronavirus, stay home!" says the poster in which two health professionals appear together with a second motto: "Resisting is winning". In addition, the phrase "Long live public health" appears, as a scream that is launched by a community of neighbors from their window

<https://www.levante-emv.com/horta/2020/03/18/javier-parra-disena-cartel-apoyo/1990924.html>



Para vencer al coronavirus...
¡QUÉDATE EN CASA!

VIVA LA SANIDAD PÚBLICA

RESISTE

QUEDATE EN CASA

PARTICIPATION

Foster and Partners

Foster + Partners shares architecture challenges for children in lockdown

British architecture studio Foster + Partners is publishing a series of architecture challenges, including building a paper skyscraper and creating a city, to keep children in coronavirus lockdown entertained.

Called #architecturefromhome, the initiative was launched by Foster + Partners to help entertain and educate children who are currently stuck at home.

<https://www.dezeen.com/2020/04/28/foster-partners-architecture-challenges-children-coronavirus/>



CHILDREN CHALLENGE

SHIELD

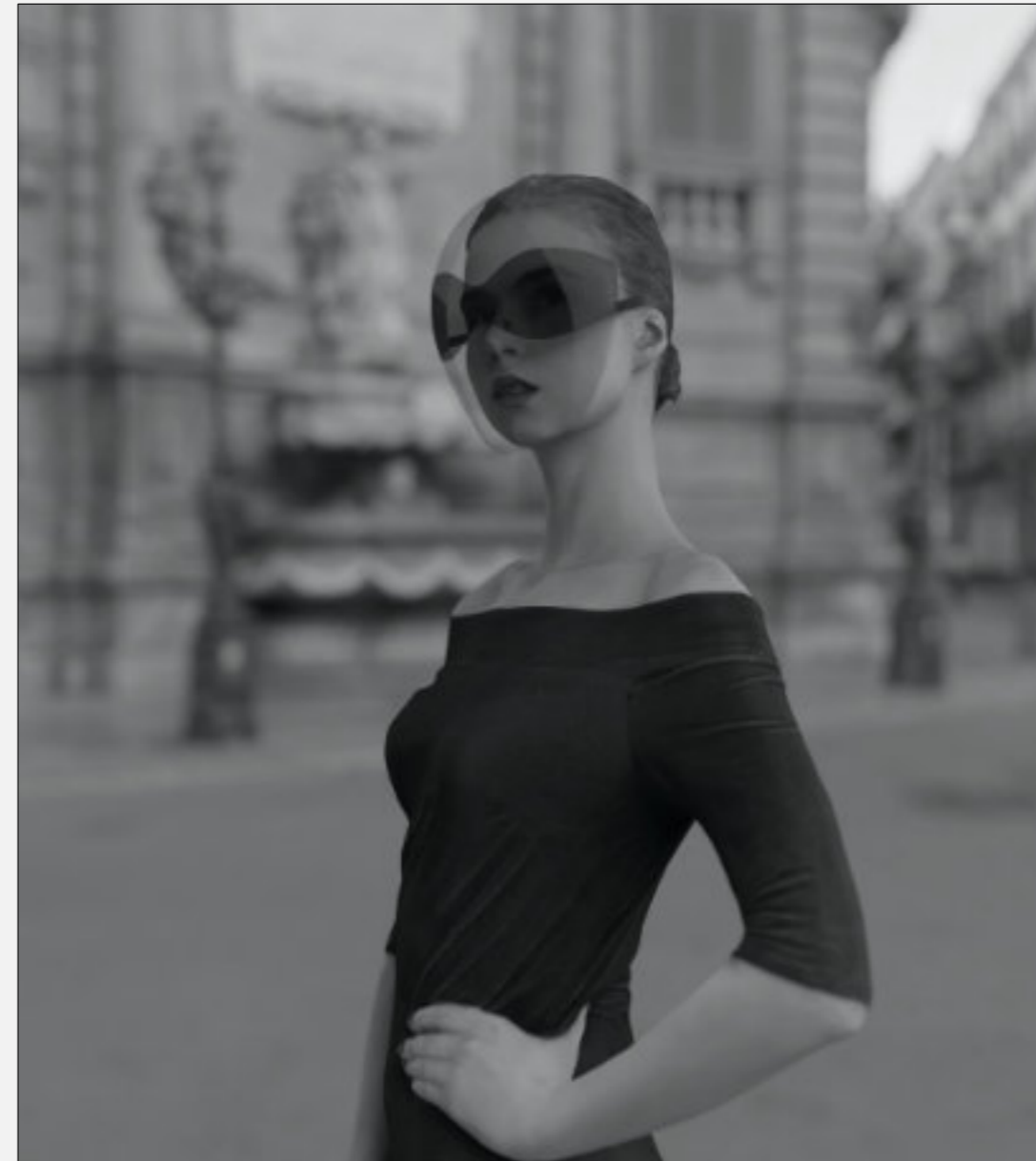
Joe Doucet

Joe Doucet designs face shield to be a fashion accessory

Doucet's conceptual design comprises a curved, see-through guard that fronts a dark sunglass lenses and arms. The minimal shield would be put on like a pair of glasses.

The designer developed the face shield in response to the question: "how do we encourage mass adoption of an unwanted necessity?". He hopes this version could be a more attractive option of personal protective equipment (PPE) for non-medical users.

<https://www.dezeen.com/2020/04/28/face-shield-joe-doucet-coronavirus/>



FASHION SHIELD

28
Apr

28
Apr

POSTER

Michael James Schneider

Nothing further to say

hustle memory (quote by @jennyjaffe)

You are only unproductive by the standards of the world we lived in two month ago. And that world is gone now.

https://www.instagram.com/p/B_g8gg1KPXI/?igshid=1j40uxgz9griy



OPEN CALL

NHSX

The Challenge: Supporting the Elderly, Vulnerable and Self-Isolating

We believe new technologies can help support the vulnerable, elderly and self-isolating as COVID-19 continues to spread. Within this challenge, we are particularly looking for innovators able to support in three specific areas. If this is your company, apply.

Please note: this competition is aimed at helping in the community, and we are not looking for solutions that are trying to solve clinical problems or require integration with NHS systems.

<https://techforce19.uk/#About>



SHIELD

Production Club

Production Club designs drink- and vape-friendly PPE suit for clubbing during a pandemic

Creative studio Production Club has designed a personal protective suit for clubbing in the time of coronavirus, which includes features for phone integration and beverage and vape consumption.

Production Club's concept for the personal protective equipment (PPE) suit, called Micrashell, is designed to offer people a way of safely gathering and partying at gigs and nightclubs during a pandemic.

<https://www.dezeen.com/2020/04/29/ppe-suit-production-club-micrashell-coronavirus-design/>

29
Apr



PANDEMIC RAVE SUIT

POSTER

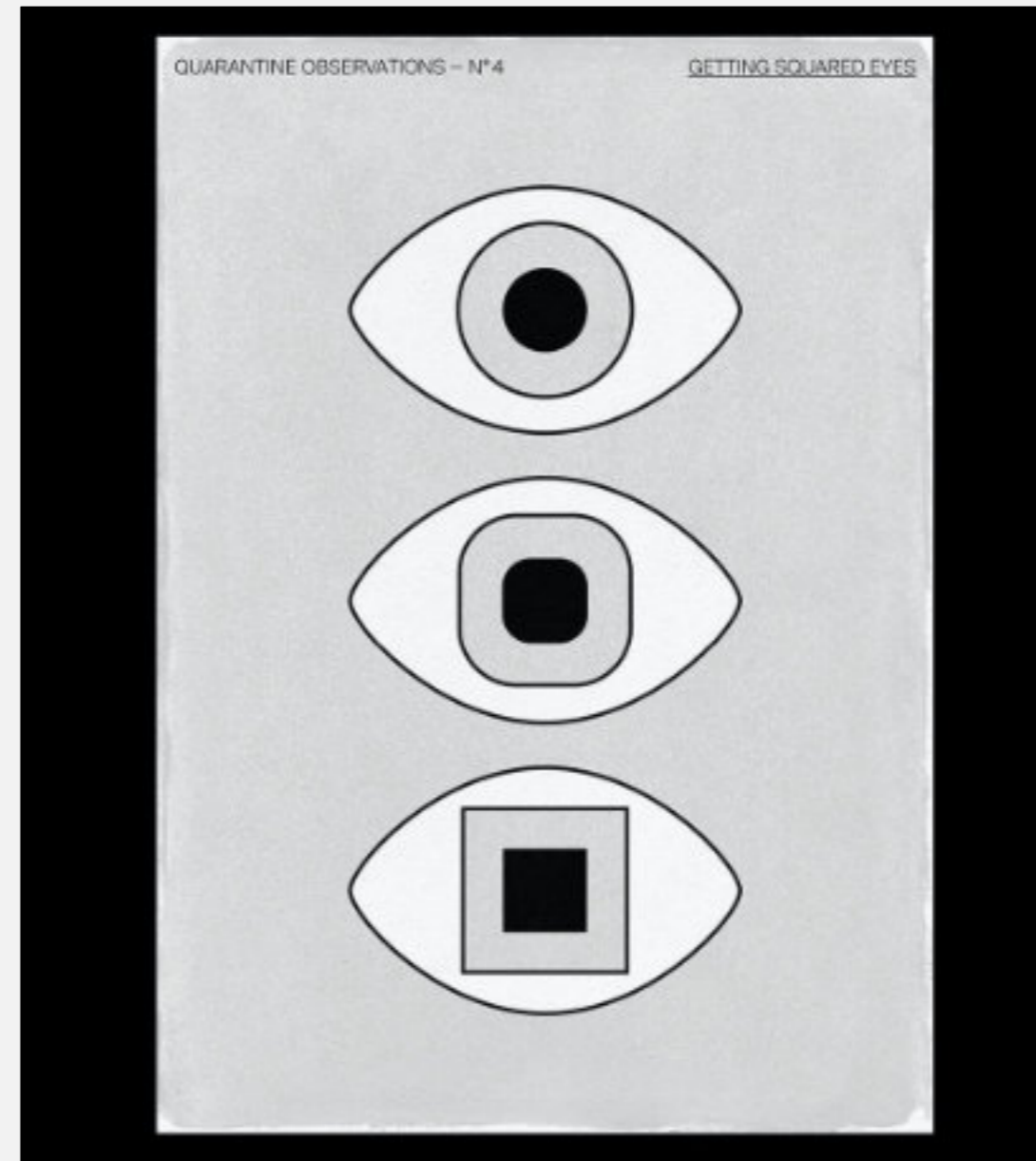
linuslohoff

Quarantine observations N°4 - Getting squared eyes.

During Quarantine I have made some observations. Never before I have consumed so much digital content and watching on screens all the time. My mum always said: Son, don't watch too much TV, you will get squared eyes.

https://www.instagram.com/p/B_jn0coCz-q/?igshid=nc4zay38cyg1

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Apr



QUARANTINE OBSERVATION

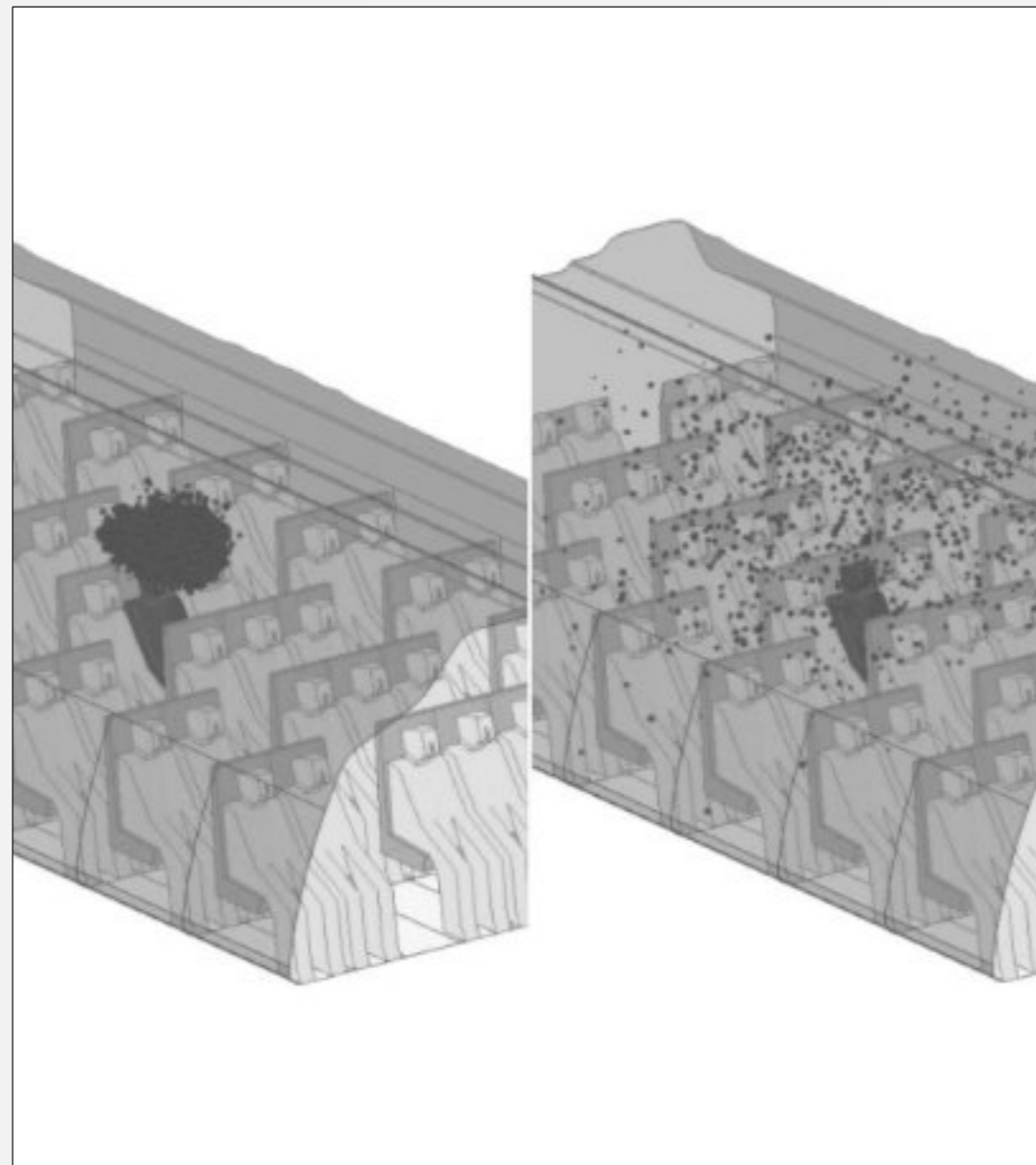
SIMULATION

Purdue University

Terrifying video shows exactly how coughing on an airplane can spread the deadly coronavirus through the whole cabin

The visualisation created by Purdue University, Indiana, shows how coronavirus pathogens travel far further than expected. It shows how saliva droplets from one cough cause an initial plume of germs, which then spread throughout the plane in the air. Up to ten people around the cougher are highlighted as most at-risk because of their proximity - but some bugs spread to each corner of the cabin.

<https://www.dailymail.co.uk/news/article-8270193/GIF-shows-cough-airplane-spread-deadly-coronavirus-cabin.html>



466 PLANE SPREAD

ROBOT

Dokat Cura

Nurse robot

The state government of Tamil Nadu in southern India is testing a robot nurse, who can minimise human contact with coronavirus patients. Aravind, COO of Dotworld Technologies, which makes these robots said: "dokat Aura can support those suffering from mild infection all by herself. They can receive their medicine and food from her and their dosage can be monitored with inbuilt cameras."

<https://uk.news.yahoo.com/robot-nurses-may-soon-help-090000187.html?guccounter=1cabin.html>



ROBOT NURSE

MECHANISM

Carlo Ratti

Carlo Ratti's Pura-Case uses "ozone power" to sanitise clothes

Italian studio Carlo Ratti Associati has designed a concept for a battery-powered wardrobe purifier that uses ozone to remove bacteria and viruses from the user's clothes.

The portable case can be placed in a hallway or inside a closet and will be made from recycled fibres, which will be coated to keep the ozone inside the case during the sanitisation process.

<https://www.dezeen.com/2020/04/30/pura-case-carlo-ratti-associati/>



PURA CASE

SIGN

Picture; Nick Corlet

Tribute to UK's healthcare workers

Tributes to the UK's healthcare workers have been appearing across the country. From sand art, to field art, road markings and graffiti - people have been coming together to celebrate the NHS and thank health, social and other key workers' efforts during the coronavirus pandemic.

https://www.instagram.com/p/B_nhuTOJl5h/?igshid=tzagshmhmsseg



THANK YOU NHS

SIGN

B&Q

A B&Q worker wears a face visor at the store in Chiswick, West London, this afternoon as customers are advised to keep their distance

Photographs taken inside the store in Chiswick, West London, today showed workers wearing face visors - and floor markings to keep shoppers two metres (6ft) apart. B&Q said all of its branches will have a designated queuing area outside which will require that customers keep two metres apart before entering the store. They have also implemented two metre directional arrows to guide customers while inside the shop, and sanitiser stations are being provided for trolleys.

<https://www.dailymail.co.uk/news/article-8273129/B-Q-reopens-288-branches-UK-today.html>



MASK

@yumikohiguchi

Handmade mask

This handmade mask has a flower pattern on a white background. I was aiming for neatness, but I did too much.

You are free to make it, so please enjoy making it by yourself!

https://www.instagram.com/p/B_m4Ae7pFj1/?igshid=a8u4f1l2mtcw



INFOGRAPHIC

Hilton Hotels

'Hilton CleanStay'

Hilton is working with Reckitt Benckiser, the maker of Dettol and Lysol, and the US hospital group Mayo Clinic to create the 'Hilton CleanStay' brand with an increased focus on cleanliness. These policies will include door seals on rooms to show when they were last cleaned, replacing frequent-use items such as guest directories with digital options available on request, and paying particular attention to ten high-touch areas, detailed in a graphic below.

<https://www.dailymail.co.uk/news/article-8272651/Coronavirus-UK-Ministers-draw-10-granular-blueprints-post-lockdown-return-work.html>



- 1 SWITCHES & ELECTRONIC CONTROLS**
Lights, lamps, switches and electronic controls.
- 2 HANDLES & KNOBS**
Doors, closets, drawers, furniture knobs and drapery pull handles.
- 3 MAJOR BATHROOM SURFACES**
Toilet handles and seats, splash walls, shower/tub controls and sink faucets.
- 4 CLIMATE CONTROL PANELS**
- 5 TELEPHONES, REMOTE CONTROLS AND CLOCKS**
Handsets, dial pads and function buttons.
- 6 BED & BEDDING**
All bed linens including duvet covers, pillowcases and sheets.
- 7 BATH AMENITIES**
Bulk dispensers, individual amenities, tissue boxes, soap dishes, amenity trays and hair dryer.
- 8 HARD SURFACES**
Tables, desks and nightstands.
- 9 CLOSET GOODS**
Iron, safe handle and keypad.
- 10 IN-ROOM FOOD & BEVERAGE**
Cutlery, glassware, ice buckets, mini bars, kettle and coffeemaker.



MASK

Altitude Mask

The state-of-the-art protective face mask Premier League clubs are in talks to use for players when they return to full training under strict lockdown measures

At least four top-flight teams are in discussions with Dubai-based company Altitude Mask over their new N95 mask which has been specifically built to protect athletes against Covid-19.

<https://www.dailymail.co.uk/sport/sportsnews/article-8274421/Coronavirus-UK-state-art-protective-face-mask-Premier-League-clubs-talks-use.html>



ALTITUDE N95

- THE SLEEVE**
The double layered neoprene skin is easily washable, elastic and durable
- SILICON MASK BASE**
Restricts any air intake under the neoprene sleeve, supports the base and structure of the mask.
- N95 FILTER**
A disposable respirator filter that helps provide reliable respiratory protection of at least 95 percent filtration efficiency against particles
- THE FLUX VALVE**
Restricts the oxygen intake
- AIR RESISTANCE**
Set the level of Air Resistance from Levels 1 to 6



Italy

SHIELD

Massimo Iosa Ghini

Massimo Iosa Ghini designs conceptual face mask

Italian architect, Massimo Iosa Ghini, has designed a concept for a protective mask that encloses the whole face and is fully transparent. "Design has to give its contribution and the designer's responsibility is to share tangible solutions," said Iosa Ghini. "I thought to design a new, aesthetically pleasant, easy-to-use mask that, above all, can be used repeatedly"

<https://www.dezeen.com/2020/05/01/massimo-iosa-ghini-face-mask-paul-priestman-coronavirus-design/>

**FULL MASK**

China

CAMERA

Rokid

Chinese startup Rokid sees opportunity with COVID-fighting smart glasses

A Chinese startup that develops augmented-reality products for use in manufacturing and gaming has found a promising growth area in the midst of a global pandemic - wearable glasses that measure temperatures on the move.

<https://www.reuters.com/article/us-health-coronavirus-china-detection-gl/chinese-startup-rokid-sees-opportunity-with-covid-fighting-smart-glasses-idUSKBN22D4TQ>

**TEMPERATURE TRACKER**

OI
May

OI
May

SHELTERS

NEW BUILDING

PRIVATE

Austria

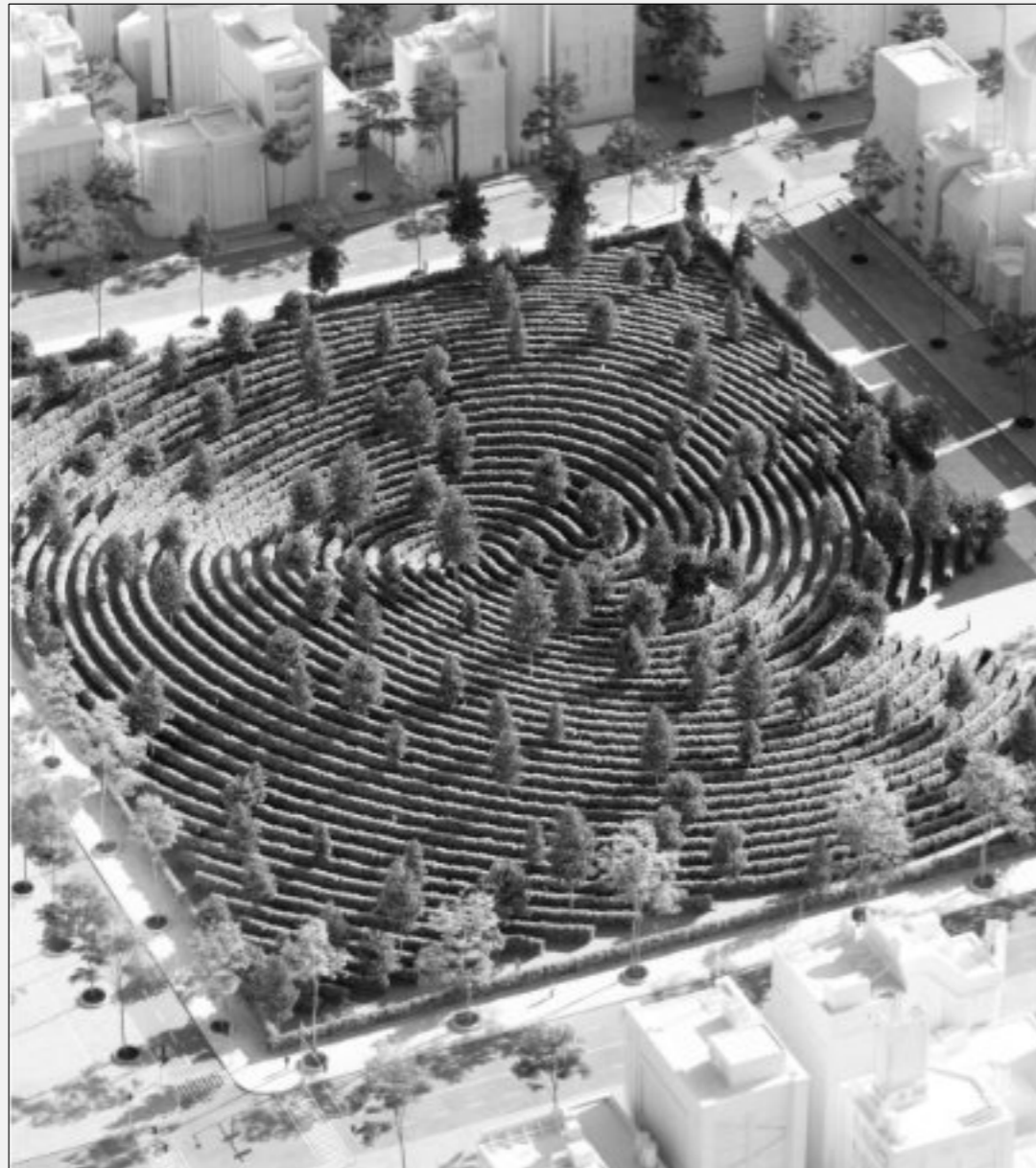
USE

PRECHT

Studio Precht Designs A Park for Social Distancing

Austrian firm Studio Precht has published a proposal for 'Parc de la Distance': a maze-like public green space designed with social distancing measures in mind. Offering a new way for "being alone in public," the park's numerous walkways are arranged in a swirl pattern separated by tall hedges. Each route has a gateway on the entrance and exit, which indicates if the path is occupied or free to stroll.

<https://www.whatdesigncando.com/stories/studio-precht-designs-a-park-for-social-distancing/>



DISTANCING PARK

Japan

PARTICIPATION

Sumida Aquarium

Keepers at Toyko's Sumida Aquarium, which has been closed since 1 March due to the coronavirus pandemic, are starting to worry about their garden eels.

The sensitive little creatures had become used to seeing hundreds of faces peering into their tanks. Now the aquarium is deserted they've started to dive into the sand whenever their keepers walk past. This makes it hard to check they're healthy. The aquarium says the eels are "forgetting about humans" and is making what it calls an "emergency plea". "Could you show your face to our garden eels from your home?" Yes, they're asking people to call in for a sub-aqua video chat

<https://www.bbc.co.uk/news/newsbeat-52500113>



VIDEO-CHAT WITH EELS

NETWORKS

VIRTUAL COMMUNITY

PRIVATE

OI
May

OI
May

476

477

BANNER

NYT, Photo taken in Brooklyn by @stephensperanza.

#CancelRent is a new rallying cry for tenants from New York to Los Angeles.

As unemployment soars across the country, tenants rights groups rallied around an audacious goal: to persuade the government to halt rent and mortgage payments — without back payments accruing — for as long as the economy is battered by the #coronavirus.

https://www.instagram.com/p/B_pfHxWn0qd/?igshid=15oaafmkd3dxr



SHIELD

David Nieper

Re-usable protective hoods have been developed at Southampton University to help prevent NHS shortages

The re-usable PPE, designed by British scientists and manufacturers, has the potential to replace throwaway items. In Derbyshire, women's fashion firm David Nieper has created a re-usable surgical gown which can be laundered by hospitals. Tests show the 'parachute gown' remains sterile and waterproof even after 100 washes at 73C (163F). The gowns comply with the highest European safety standards.

<https://www.dailymail.co.uk/news/article-8279089/Re-usable-PPE-coronavirus-pandemic-solve-NHS-shortages.html>



MASK

Gnomo

Locally made Philanthropic masks

This illustrated mask is proudly produced by Gnomo, illustrated by Valencian artists, sewn in Valencia and printed in our Ruzafa neighborhood. Because you can do wonderful things without going far. Reusable hygienic masks made applying the recommendations of the UNE0065 standard, with outer microfiber layer and 3 inner layers.

<https://gnomo.eu/products/mascarilla-tutticonfetti>



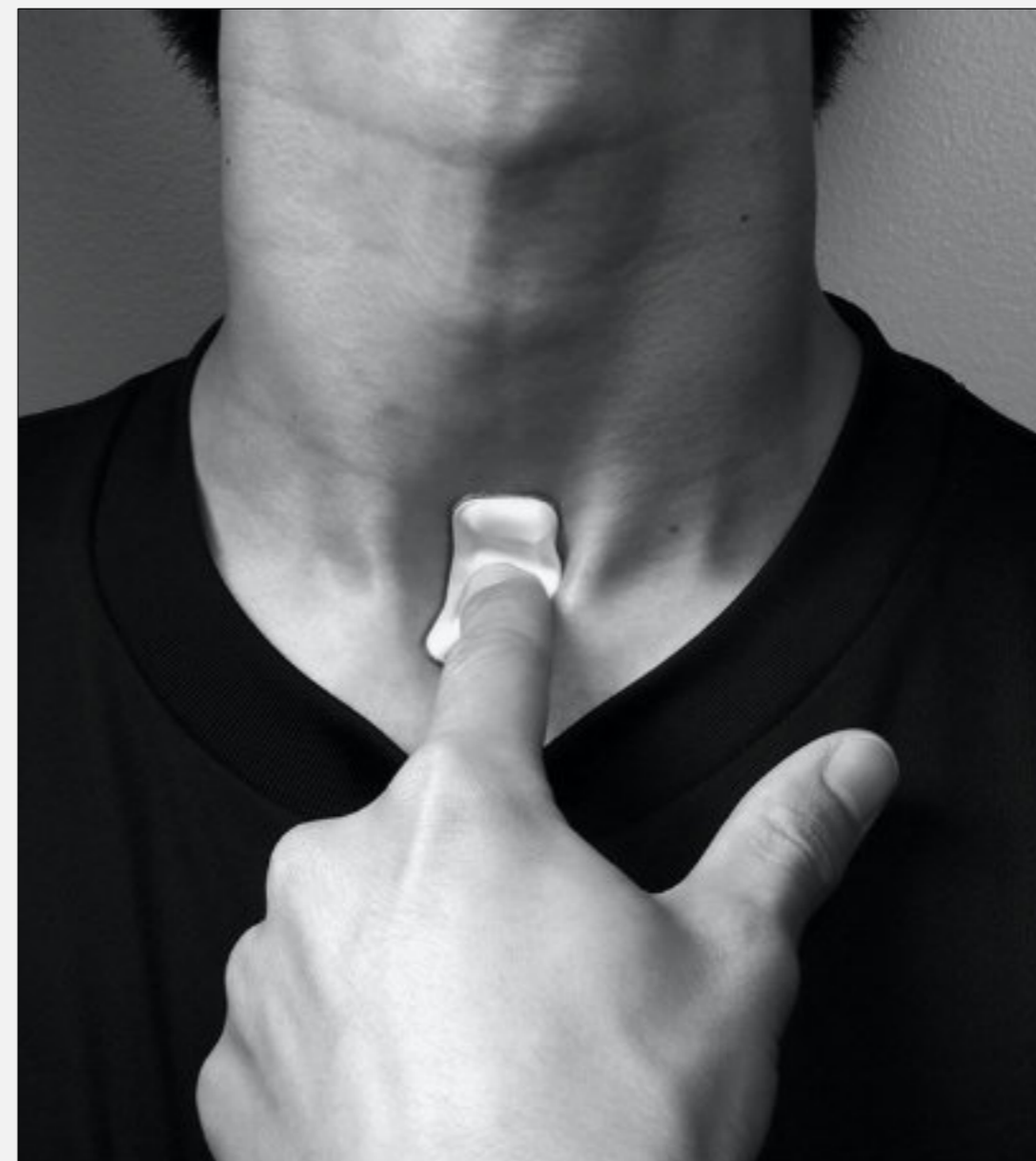
WEARABLE

Northwestern University, John Rogers

Smart patch placed on the throat could determine if you have coronavirus before symptoms arise by monitoring coughs and other vitals

A smart patch could catch early symptoms of the coronavirus and alert healthcare staff before symptoms emerge. About the size of a postage stamp, the soft, flexible device sits at the base of the throat and uses sensors to measure factors associated with the virus, such as heart rate and cough. The device transmits the data to a private server where algorithms create graphical summaries for healthcare authorities to analyze.

<https://www.dailymail.co.uk/sciencetech/article-8286003/Smart-patch-placed-throat-determine-coronavirus-symptoms-arise.html>



SPECIFICATIONS

Dr Vageesh Jain

Vital fingertip alarm that can protect lives: Doctors call for oxygen monitors to be prescribed to most vulnerable

A paper published in March by Dr Vageesh Jain, a senior public health specialist at University College London, showed that Chronic Obstructive Pulmonary Disease (COPD) was the 'strongest predictor' of Severe disease. The review discovered COPD patients were six times more likely to develop severe COVID-19 infections and 17 times more likely to need intensive care treatment.

<https://www.dailymail.co.uk/health/article-8286177/Doctors-call-oxygen-monitors-prescribed-vulnerable.html>

04
May



482 **VITAL FINGERTIP ALARM**

PODS

Scott Brownrigg

Scott Brownrigg's Social Contact Pod would let people visit vulnerable family during pandemic

Architecture firm Scott Brownrigg has developed a concept for a pod with a transparent divider to allow people to meet vulnerable relatives safely, plus today's other design-related coronavirus news.

Called the Social Contact Pod, the prefabricated structure would allow families with vulnerable relatives to meet without putting each other at risk of transmitting disease.

<https://www.dezeen.com/2020/05/05/coronavirus-briefing-scott-brownrigg-social-contact-pod/>

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May



SOCIAL CONTACT PODS 483

INFOGRAPHIC

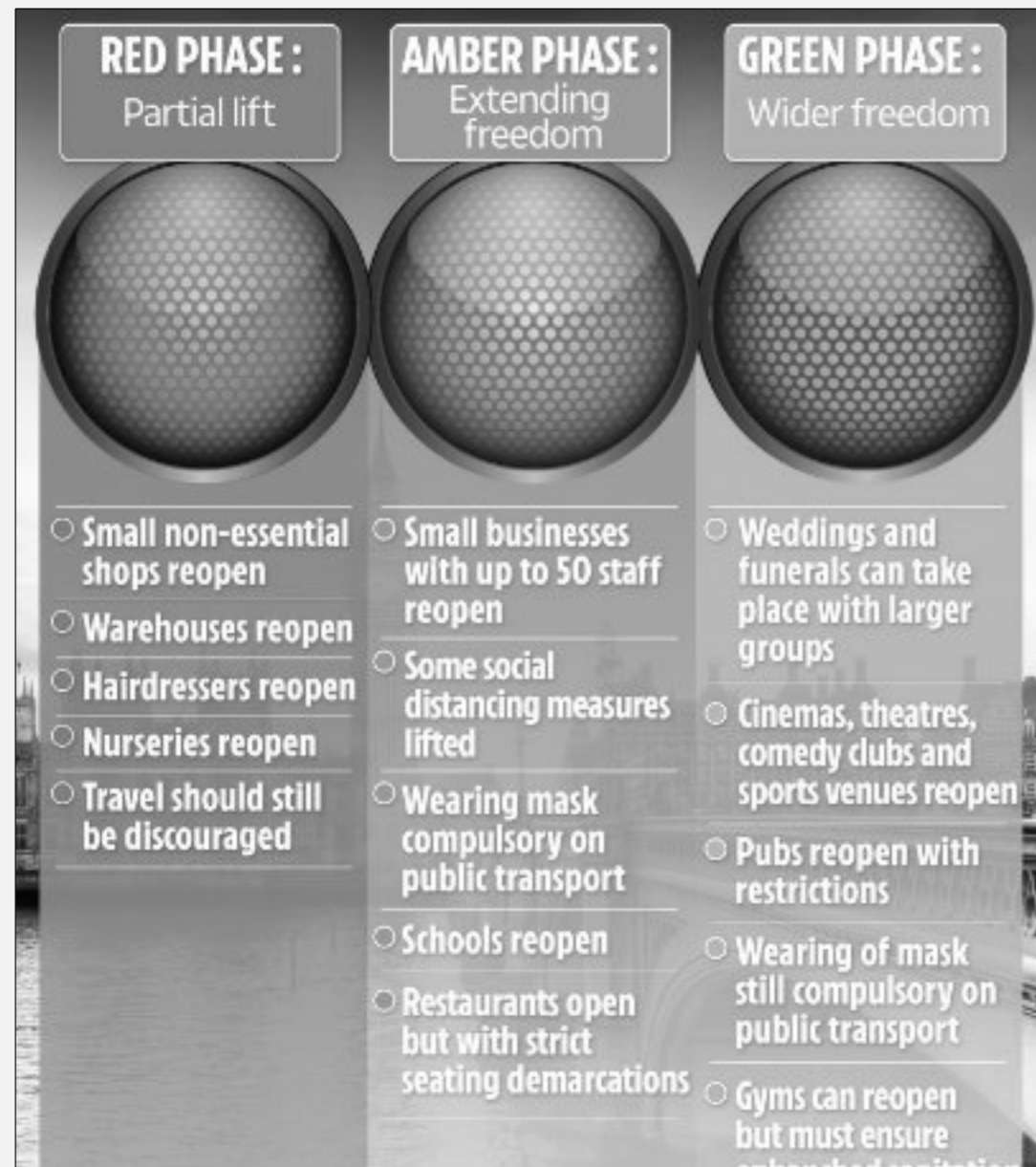
SAGE

'Traffic light' system for easing lockdown

A traffic light system could be used to explain to the public the new rules when lockdown is eased, according to government advisers. Behavioural experts floated a simple system to classify activities as they warned people could struggle to grasp complicated new arrangements.

The proposal emerged in a paper prepared for the government's SAGE group, which has been released on its website along with a tranche of other documents.

<https://www.thesun.co.uk/wp-content/uploads/2020/04/TM-graphic-pg5-v2.jpg>



'TRAFFIC LIGHTS'

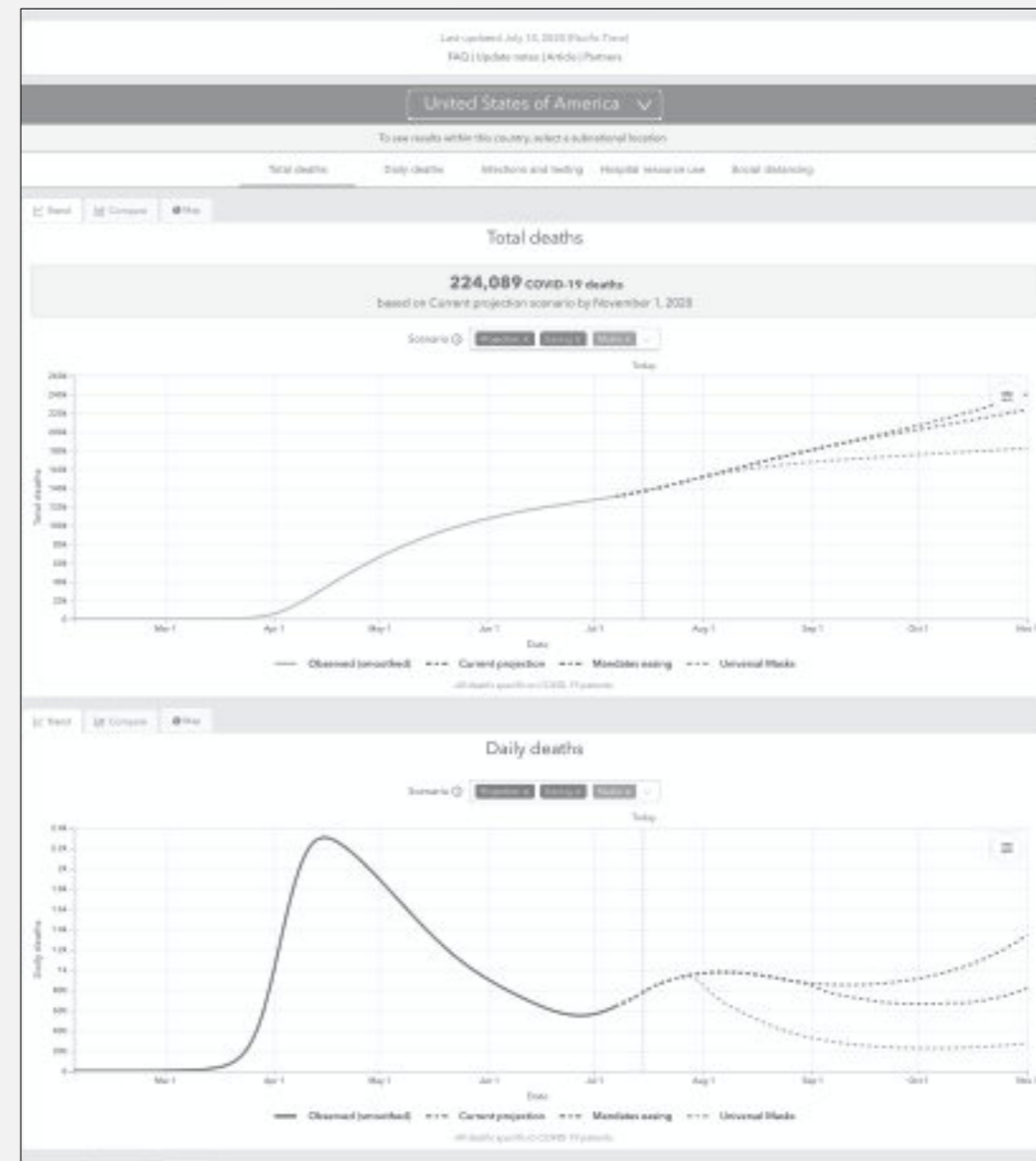
CHART

University of Washington's Institute for Health Metrics and Evaluation (IHME)

Researchers double U.S. COVID-19 death forecast, citing eased restrictions

A newly revised coronavirus mortality model predicts nearly 135,000 Americans will die from COVID-19 by early August, almost double previous projections, as social-distancing measures for quelling the pandemic are increasingly relaxed.

<https://covid19.healthdata.org/united-states-of-america>



DEATH FORECAST

Italy

SHIELD

MARGstudio, Alessio Casciano Design and Angeletti Ruzza

Inflatable face shield designed for socialising post pandemic

Italian designers MARGstudio, Alessio Casciano Design and Angeletti Ruzza created the concept as they wanted to find a way that people could return to restaurants or eating at friends' homes. "The shield is designed for all people who want to return to live the conviviality of a lunch, dinner or drink in a public place, near friends and family," said Annalisa Grasselli of MARGstudio. "The main purpose of the shield is to protect individuals and, at the same time, to allow freedom of movement in eating and drinking."

<https://www.dezeen.com/2020/05/06/inflatable-face-shield-coronavirus-margstudio-alessio-casciano-angeletti-ruzza/>



INFLATABLE SHIELD

Spain

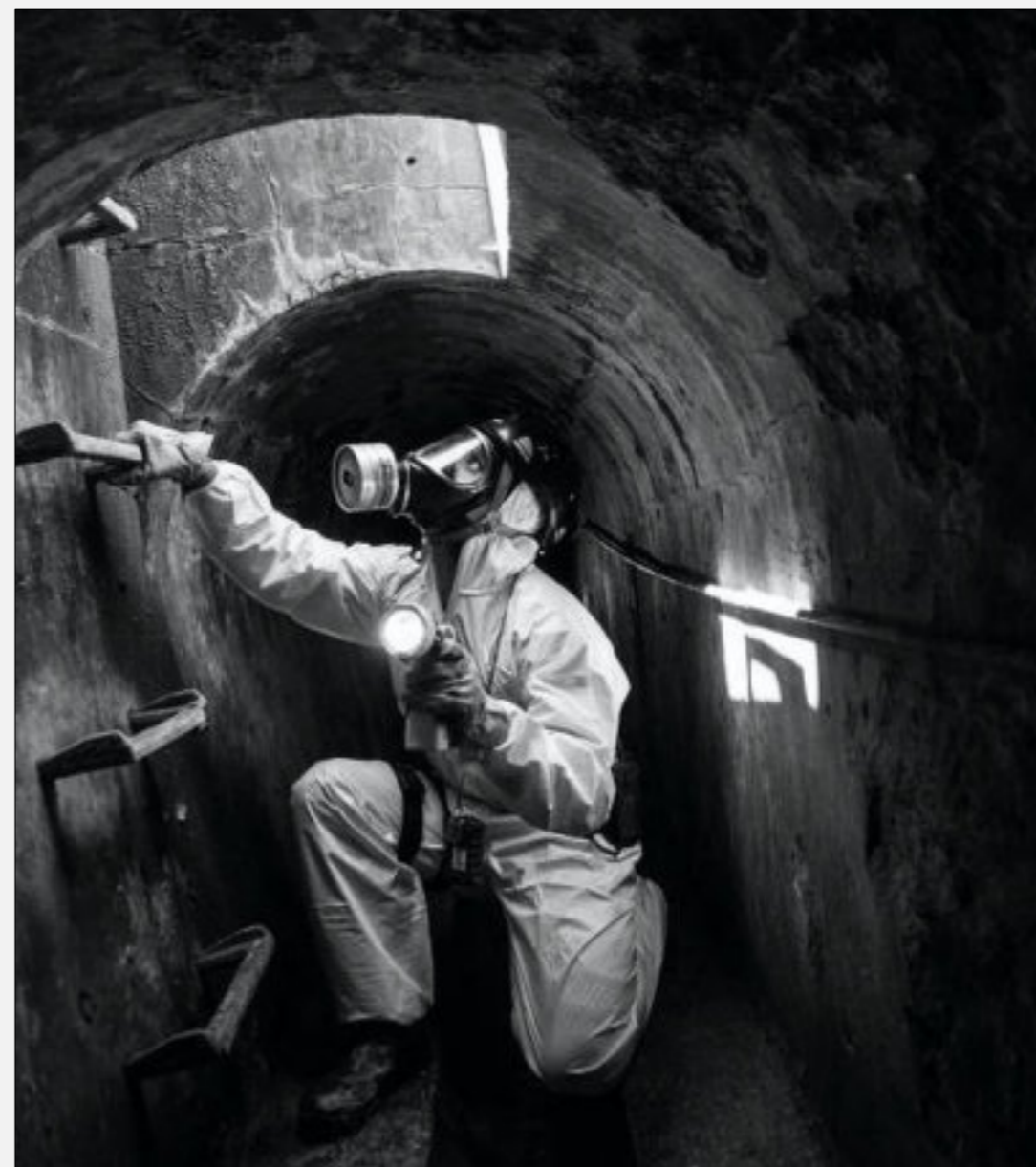
TEST

The Government of Spain

Sewage analysis can alert of new infections weeks in advance

On March 12, when Murcia barely counted a few dozen cases of covid-19, they began to carry out PCR tests on samples of the sewage that reached the main treatment plants in the region. They did this until April 14. The results show that the waters that arrive at the plants contain RNA from the SARS-CoV-2, but those that come out already purified are completely clean.

<https://elpais.com/ciencia/2020-05-06/a-la-caza-de-un-nuevo-brote-de-coronavirus-en-las-cloacas.html>



SEWAGE TRACKING

STICKER

Peter Saville and Fergadelic

Peter Saville and Fergadelic design stickers to support the NHS

Artists including Peter Saville and Fergadelic have contributed to the Stick Together sticker collection that is being sold to support the NHS.

The collection of 10 stickers, called Stick Together, was organised by curator Francesca Gavin and founder of Sticker Archive website Alex Powis to raise funds for the NHS.

<https://www.dezeen.com/2020/05/06/coronavirus-briefing-peter-saville-fergadelic-stick-together-nhs/>



488 **STICK TOGETHER**

MASK

WeWantMore

Made from old NIKE and adidas sneakers, these expressive face masks have been designed to highlight humanity's creativity and ability to adapt

While the COVID-19 pandemic is still expanding in some parts of the world, in others a post-corona society is gradually taking shape with societies rethinking everything from working and traveling to socializing and working out. As we enter this uncharted territory, the designers say the masks are a reminder that the design community can help establish a better world for tomorrow.

<https://static.designboom.com/wp-content/uploads/2020/05/wewantmore-old-sneakers-face-masks-designboom-01.jpg>



REPURPOSED SNEAKERS

SPECIFICATIONS

The American Institute of Architects

The American Institute of Architects has released a tool kit that provides strategies for limiting exposure to coronavirus in buildings as restrictions begin to ease.

The AIA released the Re-occupancy Assessment Tool today to promote a safer re-occupancy of buildings as lockdown and isolation measures ease in the US. Developed by the AIA's Disaster Assistance Committee, the 19-page document is geared towards re-opening buildings that closed as part of non-essential businesses, like offices, schools, restaurants and stores in a safe manner.

<https://www.dezeen.com/2020/05/07/re-occupancy-assessment-tool-aia-coronavirus-pandemic-usa/>

07
May

TEST

M-Rad designs

M-Rad designs mobile Covid-19 testing unit concept from "virus-destroying" copper

California-based design and architecture studio M-Rad proposes using the natural antiviral properties of copper alloy to create a travelling Covid-19 testing unit. Designed to carry out both Covid-19 tests and antibody tests, M-Rad's concept for a portable testing unit features a body clad in copper alloy. Chosen for its antipathogenic properties, the copper exterior would create a "virus-destroying environment".

<https://www.dezeen.com/2020/05/07/m-rad-covid-19-testing-unit-copper-design/>

07
May



Re-occupancy Assessment Tool V1.0

May 6, 2020

Background

Stay-at-home orders that began in California on March 19, 2020, quickly swept the nation. More than a month later, federal and state governments are debating the process by which businesses, schools, and other non-essential facilities can reopen. The CDC, WHO, OSHA, ASHRAE, and others have already developed administrative and behavioral resources for reoccupying buildings; however, guidance that holistically addresses the CDC's Hierarchy of Controls is needed to ensure the public's health, safety, and welfare.

Architects and allied professionals are in a unique position to coordinate a range of mitigation strategies that, in aggregate, reduce the risk of exposure to and transmission of COVID-19 within non-health care settings. Our goal is to promote best practices that protect the health, safety, and welfare of the public while creating opportunities for businesses, schools, restaurants, and other non-essential facilities to provide services.

The purpose of this document is to provide architects, private clients, and civic leaders a framework of strategies for reoccupying buildings and businesses that are in the process of transitioning from being fully closed to fully open. This document aims to provide a range of general mitigation measures to consider, with the understanding that the risk of infection can only be "flattened" and not eliminated entirely. Solutions require a coordinated approach between building features and operational practices.

It should be noted that certain COVID-19 measures listed within this assessment tool may be inconsistent with other site needs, such as security, accessibility, and sustainability; the totality of these considerations must be prioritized during this public health emergency. Furthermore, decision makers and design professionals are encouraged to evaluate the vulnerability of these buildings with a biological and natural disaster confluence.



490 RE-OCCUPANCY TOOL

TESTING MOBILE UNIT

491

POD

Andrés Bustamante Arrieta

Temporary Pavilion for Health Workers

In many cities, hundreds of female healthcare workers caring for COVID-19 patients are sleeping in their cars or other precarious facilities, at the end of their shifts, to avoid going home or taking public transportation, primarily out of fear to contagion. The Temporary Pavilion for Health Workers (TPHW) is a modular ephemeral housing project created by the Mexican architecture and technology studio Revolution Studio, headed by architect Andrés Bustamante Arrieta

https://www.instagram.com/p/B_4YMrDKtIS/?igshid=juchhebo00bi

07
May

492 NURSES PAVILION

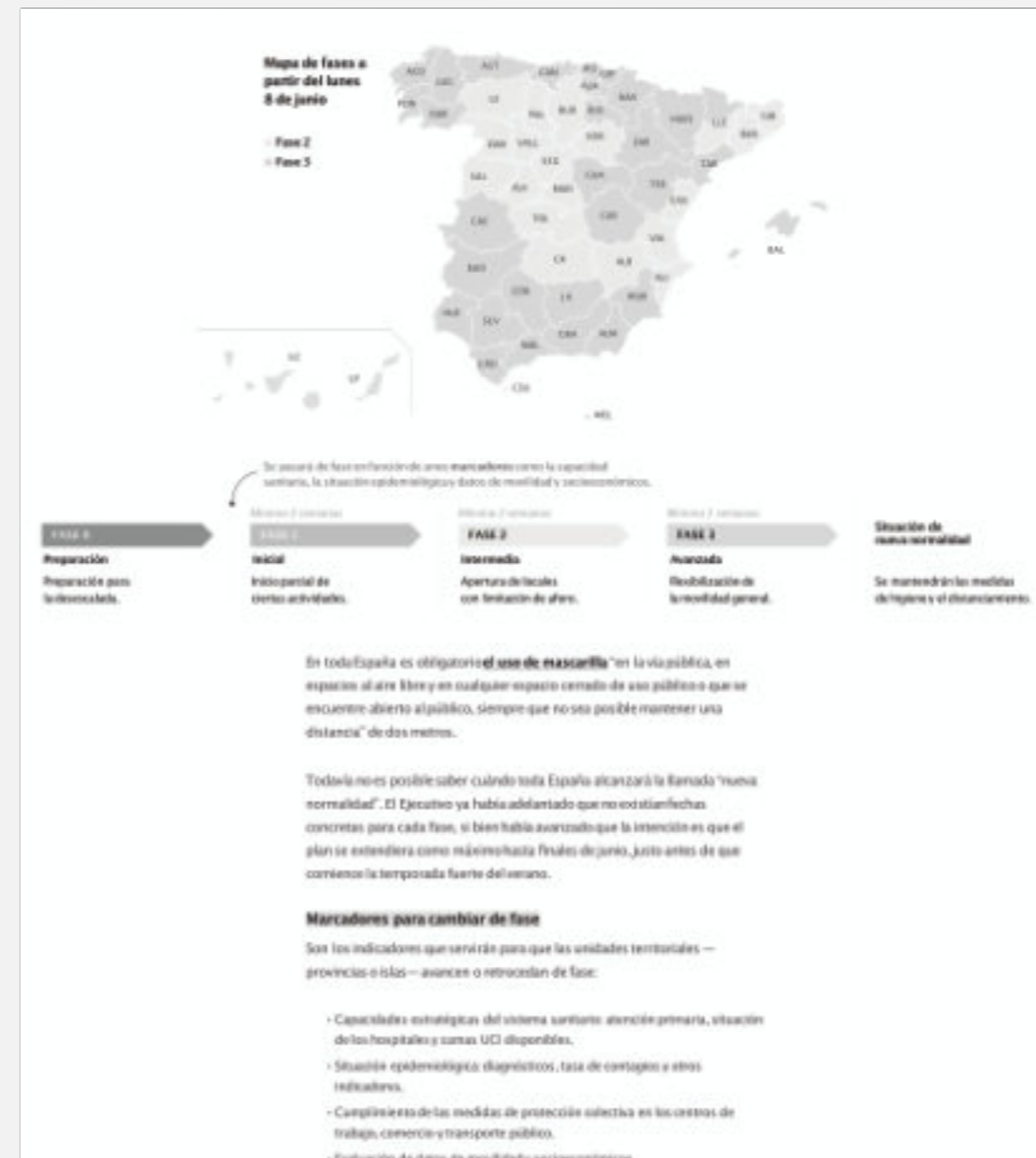
MAP & CHARTS

El Pais

Unlocking guide: see what phase your province is in and what activities are allowed

Markers to change phase

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>

07
May

UNLOCKING DASHBOARD

493

PARTITIONS

SBGA Blengini Ghirardelli

C'entro is a fibreglass frame to help people social distance in public parks

Design studio SBGA Blengini Ghirardelli has created a concept for social distancing within parks. C'entro is a modular frame made of colourful fibreglass rods that would snap together to form a circle on the ground for up to two people to sit inside. Spacers between each hoop would show people the distance they need to keep between each other to slow the transmission of coronavirus.

<https://www.dezeen.com/2020/05/07/coronavirus-briefing-blengini-ghirardelli-park-social-distance/>



C'ENTRO

07
May

494

PARTITIONS

Factorydesign

Factorydesign introduces 'isolate' partition screen for air travel post COVID-19

Factorydesign has created 'isolate', a social distancing screen kit for future travelling via airplanes, post COVID-19. As the pandemic quickly establishes behavioral changes within shared public areas, future passengers will place even greater value on personal space than ever before. Not only from a comfort perspective, but mainly from a health and safety standpoint.

<https://www.designboom.com/design/factorydesign-isolate-partition-screen-air-travel-covid-19-05-07-2020/>



'ISOLATE'

495

07
May

MASK

OFFWHITE

Masks will be a fashion accessory: is there an ethical dilemma?

Numerous designers such as street label Offwhite are putting designed masks up for sale and already starring in fashion shows . . .
Should they be a symbol of style and individuality now that we wear them daily?

<https://smoda.elpais.com/moda/actualidad/mascarillas-coronavirus-accesorio-moda/>

**OFFWHITE**

07
May

496

MASK

Collina Strada

Masks will be a fashion accessory: is there an ethical dilemma?

Numerous fashion brands such as Collina Strada are putting designed masks up for sale and already starring in fashion shows...
Should they be a symbol of style and individuality now that we wear them daily?

<https://smoda.elpais.com/moda/actualidad/mascarillas-coronavirus-accesorio-moda/>

**COLLINA STRADA**

07
May

497

Spain

MASK

JCPajares

Masks will be a fashion accessory: is there an ethical dilemma?

Also new emerging designers such as JCPajares are putting designed masks up for sale and already starring in fashion shows ...
Should they be a symbol of style and individuality now that we wear them daily?

<https://smoda.elpais.com/moda/actualidad/mascarillas-coronavirus-accesorio-moda/>

**JCPAJARES**

498

Australia

MASK

Huei Yin Wong

Stock markets embroidered on face masks question: our health or our wealth?

As the long shadow of COVID-19 touches each and every one of our lives, we are being forced to make some very difficult decisions. To illustrate the ongoing tug of war between lives and livelihoods, Huei Yin Wong has taken some of the world's top stock markets and embroidered their rapid declines onto the fabric of a face mask. The project essentially asks one question, what is more valuable, our health or our wealth?

<https://www.designboom.com/art/stock-markets-face-masks-health-or-wealth-05-07-2020/>

**FTSE 250**

499

07
May07
May

OPEN CALL

Milan Council

Milan calls on architects and designers to create social-distancing devices

Architects and designers are being asked to devise social-distancing devices to allow Milan's bars, shops and public spaces to reopen safely following the height of the coronavirus pandemic. Spacers to keep people apart, signs to remind people to distance, and layouts for indoor and outdoor spaces are needed to help the city, which has been in lockdown since 8 March, begin to restart. The Commune di Milano is including a creative consultation as part of plans to reopen commercial and public spaces.

<https://www.dezeen.com/2020/05/08/milan-call-architects-designers-social-distancing-coronavirus/>



PARTICIPATION

Paola Antonelli + Alice Rawsthorn

Paola Antonelli + Alice Rawsthorn collaborate on 'design emergency' project

MoMA curator Paola Antonelli and design critic Alice Rawsthorn are collaborating on design emergency, a new project that explores design's role and impact on the COVID-19 crisis and its aftermath. Since the coronavirus outbreak began, designers and their collaborators have come up with ingenious solutions to help protect the public from the pandemic, improve treatment facilities and methods, and prepare us for the future.

<https://www.designboom.com/design/paola-antonelli-alice-rawsthorn-design-emergency-covid-19-05-08-2020/>



UN NUOVO
INIZIO.
UN
PASSO
ALLA
VOLTA.

Design
Emergency

An investigation into design's
response to Covid-19

by Paola Antonelli and Alice Rawsthorn

@design.emergency

Design: Studio FRKH

CAMERA

DatakaLab

France is using AI to check whether people are wearing masks on public transport

The software, which has already been deployed elsewhere in the country, began a three-month trial in the central Chatelet-Les Halles station of Paris this week, reports Bloomberg. French startup DatakaLab, which created the program, says the goal is not to identify or punish individuals who don't wear masks, but to generate anonymous statistical data that will help authorities anticipate future outbreaks of COVID-19.

<https://www.theverge.com/2020/5/7/21250357/france-masks-public-transport-mandatory-ai-surveillance-camera-software>



TEST

Koniku and Airbus

'Smell cameras' built by Airbus to detect explosives on planes 'could be adapted to sniff out coronavirus

Ultra-sensitive 'smell cameras' have been in development since 2017 and were initially designed to detect explosives. The innovative sensors use microprocessors made of biological cells to identify specific chemicals or microbes floating in the air. Similar technology has already been used to detect cancer and influenza, and it could soon be used to provide advance warning of areas contaminated with SARS-Cov-2, the virus which causes COVID-19..

<https://www.dailymail.co.uk/sciencetech/article-8300259/Smell-cameras-built-detect-explosives-sniff-coronavirus-air.html>



PARTITIONS

The Government of The Netherlands

Plastic screens will be fitted around desks at schools in the Netherlands as they begin to reopen next week after two months in lockdown

Schools in the Netherlands, including the Springplank school in Den Bosch, will begin reopening next week with plastic screens fitted around desks to reduce the risk of coronavirus spreading.

<https://www.dailymail.co.uk/news/article-8301255/Plastic-shields-place-Dutch-schools-reopen-amid-coronavirus.html>



504 **SCHOOLS SETTING**

ILLUSTRATION

@Soyanika via curaessalvar

Help us to help you!

Nurses need us to give them a voice and above all to be responsible!

Thanks @martsmarta for your picture

Help us help you! Share this post with who you think needs to see it. Thanks to @soyanika for this NICE illustration

https://www.instagram.com/p/B_64ndhKkLC/?igshid=1vpi6jsjk9goj



505 **HELP US TO HELP YOU!**

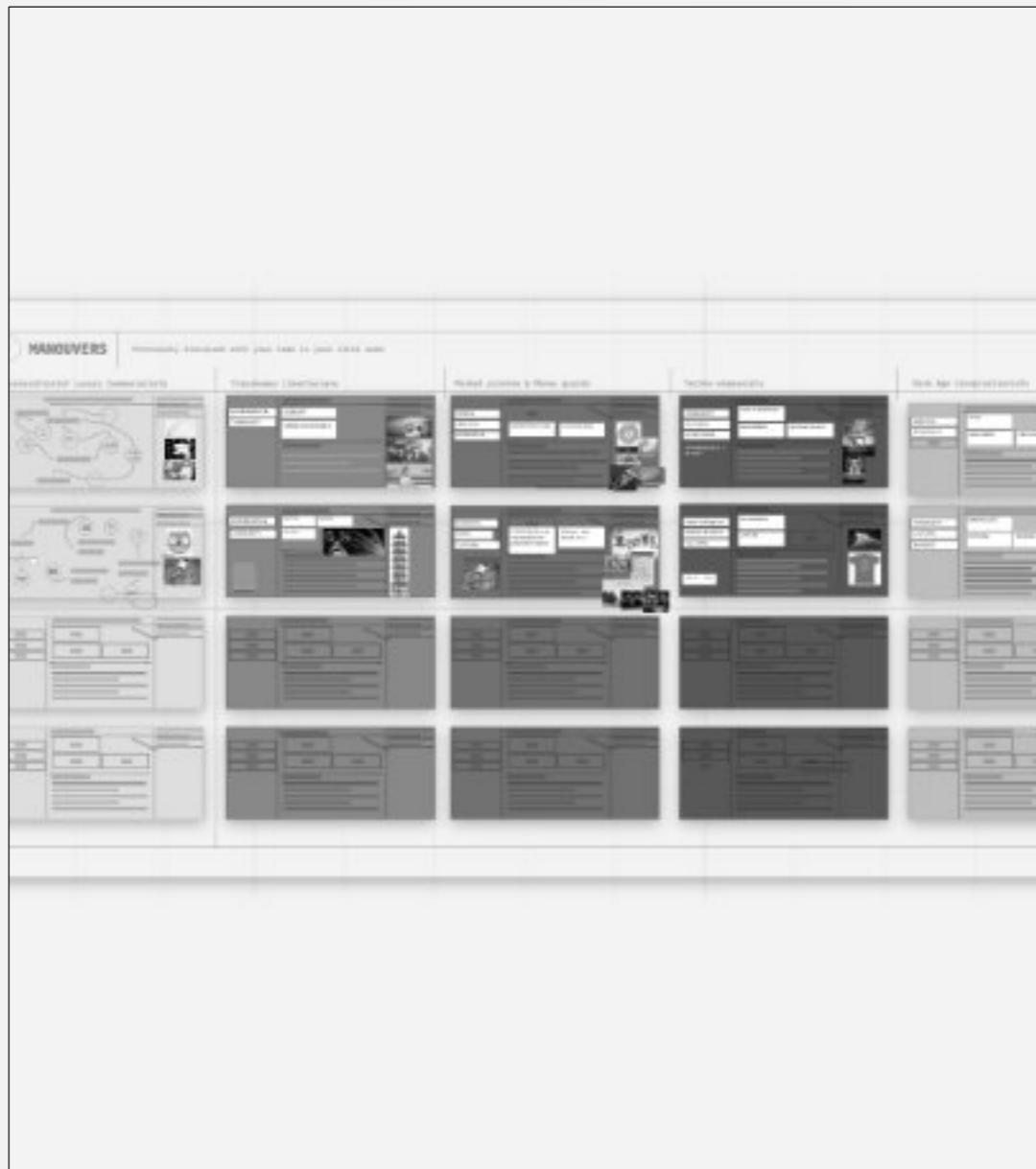
GAME

Research studio **Becoming**

COVID-19 Control Wars

A Collaborative worlding and the invocation of futures-to-come.. Control Wars (CW) is an open-source game and experimental research framework to invoke, dissect and intervene in some of the futures vibrating within our present. It is a tool that combines collaborative fiction, performance, play and low-frequency conflict to recursively simulate emerging scenarios in relation to technologies + biosphere + city-making + post-human governance + markets.

<https://medium.com/@becooming/covid-19-control-wars-572d5e158430>



IO
May

506

CONTROL WARS C19-CW

MEME

Various

Confused Britons mock Boris Johnson's 'stay alert' slogan and accuse No 10 of putting out 'vague' mixed messages by creating their own versions

Britons have mocked the change on social media, saying it is confusing and creating their own versions advising people to shout at the virus to scare it off, look after themselves, and avoid injecting bleach.

<https://www.dailymail.co.uk/news/article-8304985/Sneak-Shout-Virus-Run-Britons-mock-Boris-Johnsons-new-stay-alert-slogan.html>



MOCKING BORIS

IO
May

507

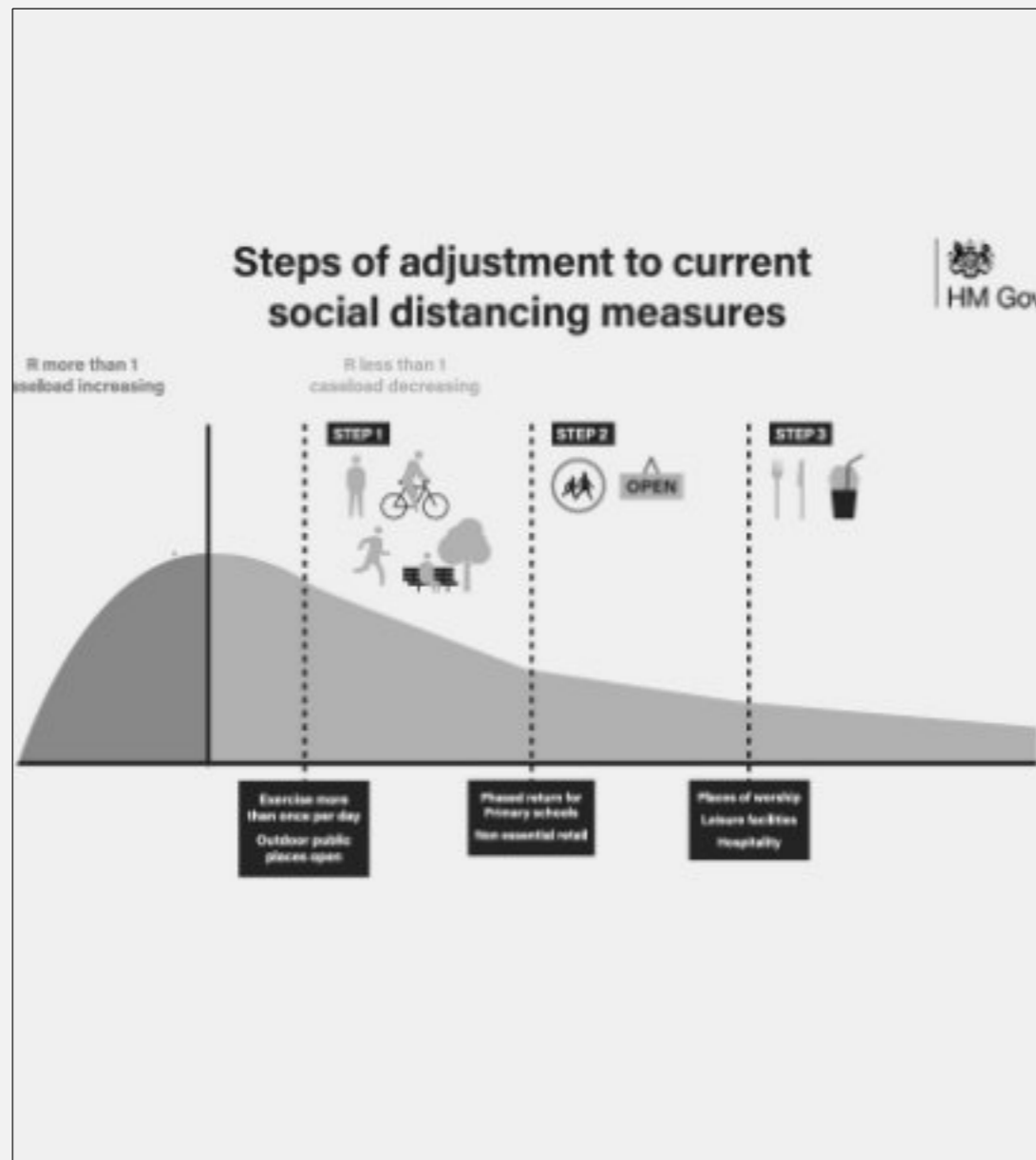
CHART

The Government of UK

Boris Johnson speech: PM announces first easing of lockdown and sets out three-step plan

Boris Johnson "actively encouraged" the nation to get back to work as he unveiled a three-step "road map to recovery" from the coronavirus lockdown.

<https://www.telegraph.co.uk/global-health/science-and-disease/boris-johnson-speech-live-end-lockdown-watch-coronavirus-address/>



WEARABLE

The Government of China

Beijing uses temperature-monitoring bracelets to track students' body temperatures

Schools in Beijing today have unveiled a trial of temperature-monitoring bracelets that alert an app if a student has a fever.

The new devices have been introduced in the country's capital city amid fears that the reopening of schools could trigger a new wave of coronavirus infections.

<https://www.dailymail.co.uk/news/article-8306917/Beijing-school-students-trial-temperature-tracking-bracelets.html>



- SHELTERS
- OTHER
- INDEPENDENT

France

PARTITIONS

@christophegernigonstudio

A feasible solution to ensure #socialdistancing?

French designer Christophe Gemigon imagines the future of #restaurant dining: with suspended shields!

#christophegernigon #PLEXEAT

<https://www.instagram.com/christophegernigonstudio/>



PLEX'EAT

II
May

510

UK

TENT

Curl la Tourelle Head

Curl la Tourelle Head proposes tent classrooms for socially distanced learning

UK studio Curl la Tourelle Head has designed a concept for tent classrooms that would allow students to return to schools while maintaining social distancing guidelines.

Curl la Tourelle Head envisions the pop-up teaching spaces being erected at schools to expand capacity for socially distanced learning and reduce the reliance on restricted circulation routes.

<https://www.dezeen.com/2020/05/13/curl-la-tourelle-head-tent-classrooms-social-distancing-school/>



TENT CLASSROOMS

13
May

511

- SHELTERS
- OTHER
- CITIZENS

INFOGRAPHIC

Weston Williamson + Partners

Weston Williamson + Partners envisions social-distancing office

Weston Williamson + Partners has outlined its plans for a social-distancing workplace, with transparent screens around desks, hands-free doors and a barista, to allow employees to safely return to its office following the coronavirus lockdown.

The London-based architecture studio has created graphics to illustrate the adaptations it plans to make to its office to allow its employees to safely return to work.

<https://www.dezeen.com/2020/05/14/weston-williamson-social-distancing-office/>

14
May

TENT

IKEA

IKEA designs forts for children in lockdown

Furniture company IKEA has designed six play houses that can be built with its products to entertain children in coronavirus lockdown.

Created by IKEA Russia and creative agency Instinct, the children's forts form part of a campaign to encourage people to remain in their homes during lockdown.

<https://www.dezeen.com/2020/05/15/ikea-forts-children-lockdown-coronavirus/>

15
May

WORKING ENVIRONMENT

01. Employ a Barista/Cook → Avoid going out
"We will socialise more & slow down a little"

02. A new social distance=2 metres

03. Transparent plastic screens around each desk

04. Open windows, increased ventilation. Remember to dress in warmer clothes

05. Office entrance/dining area - cleaning zone - testing kits

06. More office space for bikes

07. Workstation Layout

08. 'Meeting space, not rooms'

09. A third of the teams in

10. More space for each other

FÖRTRESS

LANDSKRONA x 1

NATTJASMIN x 2

MIALOTTA x 1

VALBJÖRG x 3

x 10

CAMERA

Heathrow

Heathrow trials thermal imaging temperature checks this week meaning Britons could soon start flying abroad without quarantining when they return

The cameras can read temperatures at a distance of 8ft. If a high temperature or suspected fever is detected, checking systems will produce a warning signal.

<https://www.dailymail.co.uk/news/article-8326973/Heathrow-trials-thermal-imaging-temperature-checks-passengers-arriving-Britain.html>



514

THERMAL RECOGNITION

PARTITIONS

Antony Cauvin

Coronavirus: Man's ingenious solution to cuddle his grandma again goes viral

Antony Cauvin - a 29-year-old plasterer-turned-inventor from Stratford-upon-Avon, who dreamed up a scheme befitting of Back To The Future's Emmett Brown so that he could hug his grandma for the first time in months.

The "Cuddle Curtain" is made up of a see-through shower curtain, fitted with pairs of lengthy safety sleeves on either side so that two people can move effortlessly into place opposite one another.

https://i2-prod.examinerlive.co.uk/incoming/article18264739.ece/ALTERNATES/s1200c/1_cuddle-curtain.jpg



CUDDLE CURTAIN

515

16
May17
May

MASK

Christian Warken

CALMEST is a face mask designed for doctors that spend multiple hours a day wearing a face mask!

The mask is constructed from a particularly breathable and highly dense material that can filter particles up to 0.1 microns (COVID-19 is ~0.13 microns). Through a transparent acrylic layer, the mask can help with better communication and recognition of facial expressions!

<https://www.instagram.com/p/CAYJcO5IQOc/>

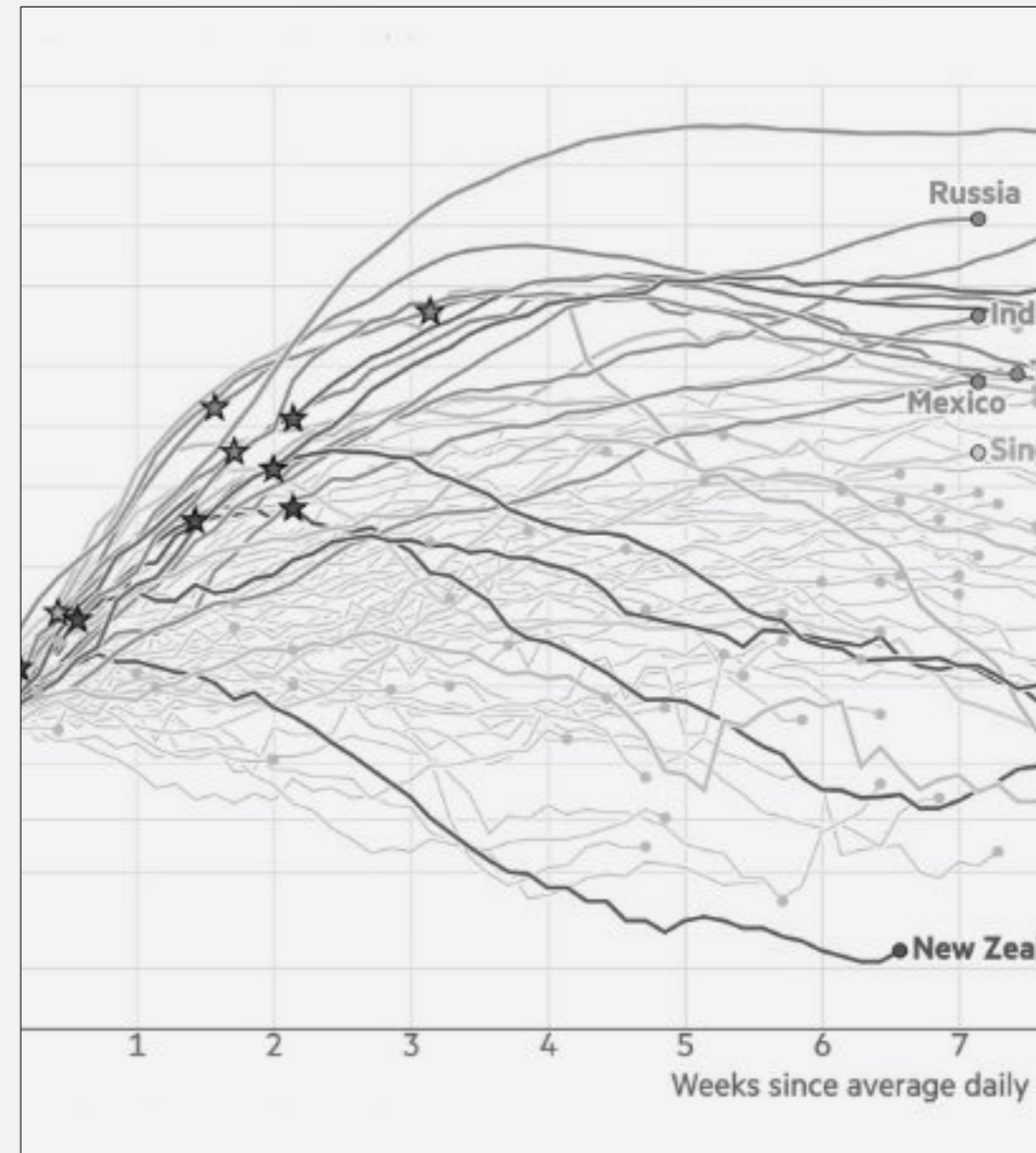
CHARTS

John Burn-Murdoch, Financial Times

FT coronavirus updates "allow people to make an informed decision" says data visualisation journalist

First started "as a fairly scrappy rough chart" tracking coronavirus cases and deaths, the project has expanded to provide updates on responses by different countries, the effect of measures to mitigate the virus spread, like lockdowns, and economic impact. "Without data it would be very easy for governments to tell their own story"

<https://www.dezeen.com/2020/05/19/coronavirus-data-visualisations-financial-times-interview-john-burn-murdoch/>



UK

TEST

Superdrug

£69 DIY antibody tests go on sale

Superdrug today became the first high street retailer to start selling a coronavirus antibody test to the public and has sold out in a matter of hours.

The tests, which are intended to tell someone if they have had the virus in the past, cost £69 and require the user to take blood samples themselves and post them off to a laboratory, where it takes 24 hours to produce a result.

<https://www.dailymail.co.uk/news/article-8340219/Superdrug-high-street-retailer-sell-coronavirus-antibody-test-69.html>

20
May



518

CHEAP TEST

Spain

SHIELD

Rafa Ortega

The Polytechnic University of Valencia (@instaupv) and the @lasucursal_restaurante Group

The Polytechnic University of Valencia (@instaupv) and the @lasucursal_restaurante Group present 'Safe Smile', a new model of face protection screen for the restaurant sector. Designed by the Valencian industrial designer Rafa Ortega, it is a transparent mask designed with room managers, sommeliers, chefs and kitchen staff in mind.

<https://www.instagram.com/p/CAZwkzpKE5Z/>

20
May



SMILE EAT

519

SHIELD

Burger King

Is Burger King handing out giant crowns to ensure social distancing in Germany?

It seems that the fast food giant adopted the social distance crowns concept for a test run. Earlier today, on May 22, Burger King Germany posted on socials that some restaurants are handing out the crowns (folded and users have to make them themselves). 'We wanted to re-enforce the rules of high safety and hygiene standards that the BK restaurants are following,' a Burger King representative told business insider. 'The do-it-yourself social distance crown was a fun and playful way to remind our guests to practice social distancing while they are enjoying food in the restaurants.'

<https://static.designboom.com/wp-content/uploads/2020/05/burger-king-germany-social-distancing-crowns-designboom-001.jpg>



520

DISTANCING SOMBRERO

MECHANISM

Jon Liow, Nicola Trotman, Ash Denman, Samson Tiew, Matt Lobb, and Nathan Davis

'Dropkick' is a handsfree pedestrian crossing button for a post pandemic world

When the team at forward noticed the number of people using their feet to press the button at pedestrian crossings, they decided to develop a handsfree solution. After some research they found that the surfaces of these buttons are breeding grounds for bacteria, and with the current health pandemic sweeping the globe, this issue of public hygiene has never been so important. 'Dropkick' therefore rethinks this trivial yet integral part of urban infrastructure with a device that can be pressed by the users' foot.

<https://static.designboom.com/wp-content/dbsub/440872/2020-05-22/dropkick-dropkick-a-pedestrian-crossing-button-for-a-post-pandemic-world-2-5ec71a7816679.jpg>



DROPKICK

521

22 May

22 May

INFOGRAPHIC

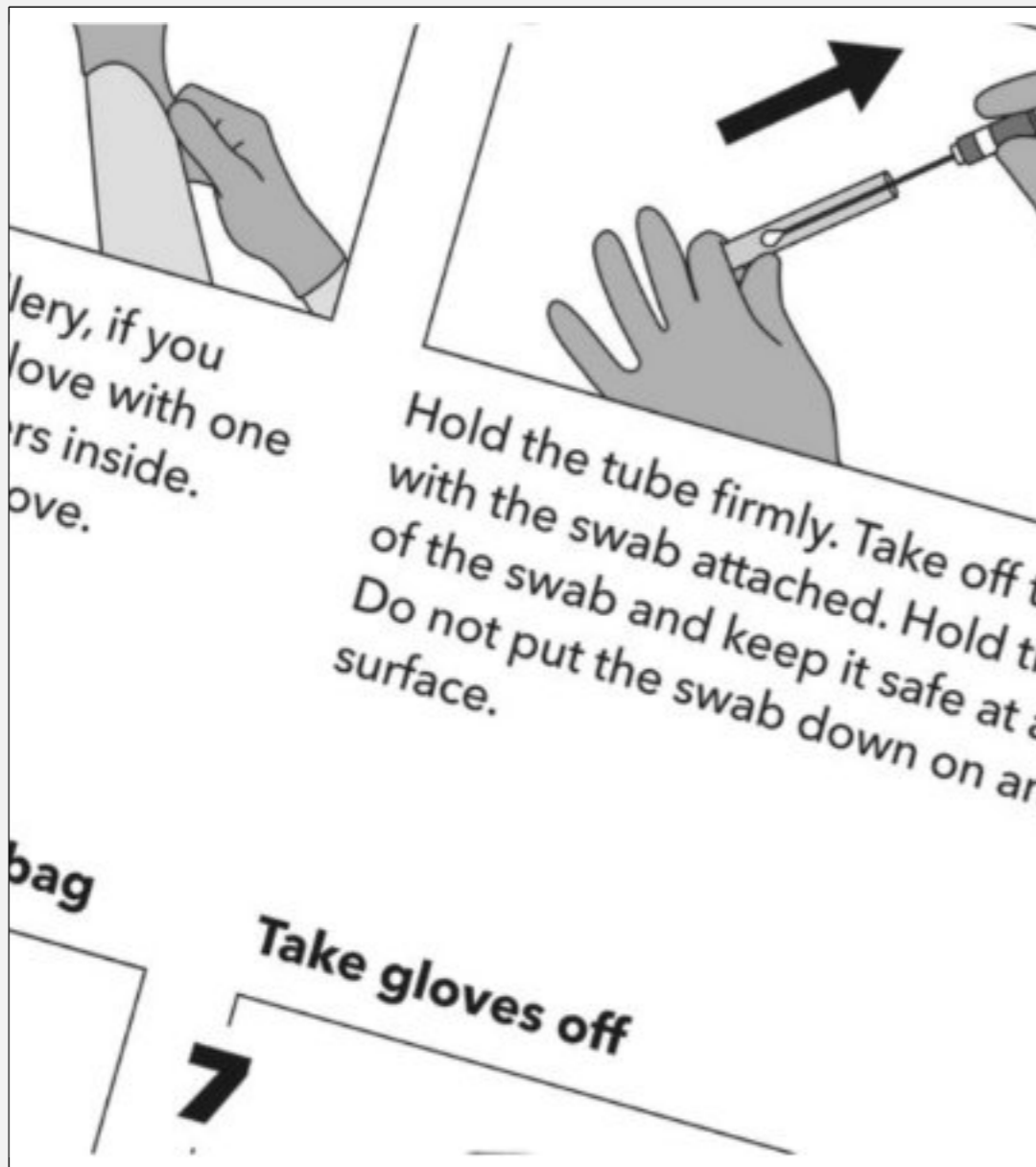
Jonathan West, The Helen Hamlyn Centre for Design, RCA

Pandemic Problems – The RCA's Helen Hamlyn Centre for Design Steps In

As the number of critically ill patients surged, speed was needed to help those most at risk. And, as the new Covid wards started to fill, countless NHS workers were redeployed to begin their work in these unfamiliar environments. Jonathan and his team, including HHCD Research Associates Juliette Poggi and Imran Nazerali, heard from NHS staff about the challenges they were facing, so the team started thinking about how design could help ease these problems.

<https://www.rca.ac.uk/news-and-events/rca-stories/pandemic-problems-rca-helen-hamlyn-centre-design-steps/>

22
May



522 CORONAVIRUS TESTING KIT

CHARTS

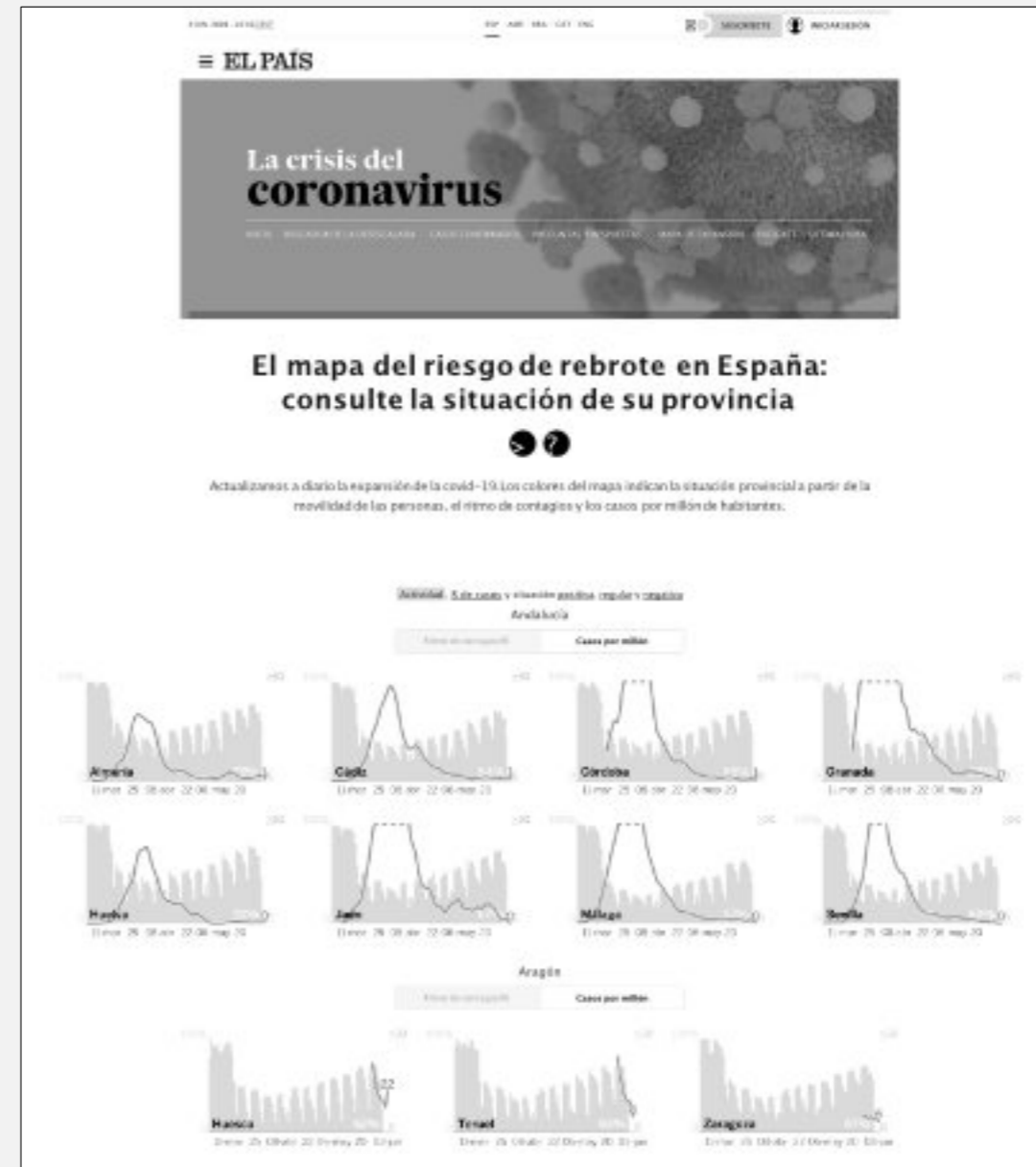
Borja Andrino, Daniele Grasso, Kiko Llaneras, Luis Sevillano

The regrowth risk map in Spain

We update the covid-19 expansion daily. The colors of the map indicate the provincial situation based on the mobility of people, the rate of infections and cases per million inhabitants.

<https://twitter.com/danielegrasso/status/1263749868532744192?s=09>

22
May



NEW OUTBREAKS

523

'Incalculable loss': New York Times covers front page with 1,000 Covid-19 death notices

As the US approaches the grim milestone of 100,000 coronavirus deaths, the New York Times has filled the entire front page of Sunday's paper with the death notices of victims from across the country.

In a decision the paper said was intended to convey the vastness and variety of the tragedy, the front page is a simple list of names and personal details taken from obituaries around the US.

<https://www.theguardian.com/world/2020/may/24/new-york-times-front-page-1000-covid-19-death-notices>

Italian gallery introduces tags to keep visitors 1.5 metres apart by vibrating and lighting up if they get too close

Electronic tags are being issued to visitors at a renowned art gallery in Italy after it reopened its doors to the public this weekend amid the coronavirus pandemic. The Accademia Carrara Museum in Bergamo, which opened its doors on May 22 after more than ten weeks in lockdown, has asked visitors to wear electronic tags to ensure they remain at least 1.5 metres away from others while inside.

<https://www.dailymail.co.uk/news/article-8352063/Italian-galley-introduces-tags-warn-visitors-close-others.html>



INFOGRAPHIC

The Daily Mail

Shoppers face one-way walking system, tills behind screens, changing rooms closed and no seating when stores reopen

This graphic shows some of the changes that may be made to ensure reopening stores can minimise the spread of the virus

<https://www.dailymail.co.uk/news/article-8357009/Coronavirus-UK-Britains-shoppers-face-new-normal-one-way-walking-systems.html>



RETAIL DISTANCING

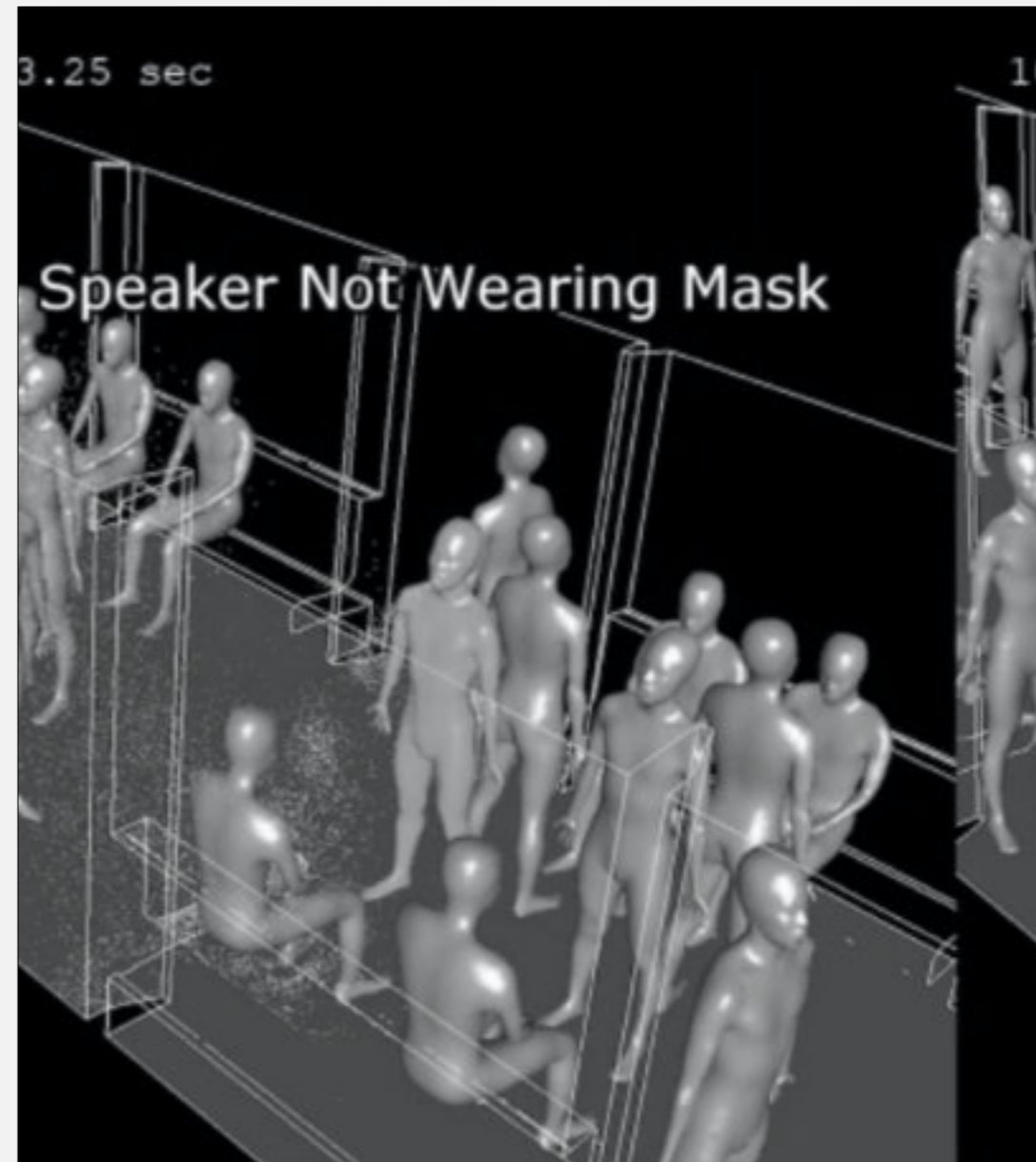
SIMULATION

MSC

Infected Tube passenger showers coronavirus droplets over another person simply by TALKING to them in shocking simulation

In a simulation of Tube travel, produced by software firm MSC, one infected person can be seen literally coating other passengers with COVID-19 - just by talking. Researchers found that someone chatting to a friend on the tube can 'coat others' with the deadly coronavirus - even if they don't sneeze or cough. The new model looking at ways droplets from breath spread in enclosed spaces comes as Britain prepares to return to work, school and a level of normality after lockdown.

<https://www.dailymail.co.uk/sciencetech/article-8357645/Infected-Tube-passenger-showers-coronavirus-droplets-talking.html>



TUBE SPREAD

MECHANISM

ALDI

Aldi will install Traffic Light system on store doors which will keep them closed if there are too many customers inside with marshalls on patrol to maintain social distancing

Customers at Aldi will be told when they can safely enter one of its supermarkets by a new traffic light system installed on the doors.

The German budget retailer said that the system would help to continue social distancing in stores by ensuring too many customers are not jostling for space in the aisles.

<https://www.dailymail.co.uk/news/article-8358005/Aldi-install-TRAFFIC-LIGHT-telling-queuing-customers-safely-enter.html>



TRAFFIC LIGHTS

26
May

528

MECHANISM

Sandeep Hoonjan and Xianzhi Zhang

RCA students design licking phones that turn speech into physical sensations

Royal College of Art students Sandeep Hoonjan and Xianzhi Zhang have designed a pair of devices that allow people to physically experience conversations while apart during the coronavirus lockdown. The project, called Feel the Conversation, comprises two handheld machines that connect to a phone and translate the user's speech into a series of simple haptic patterns based on their intonation and volume. One attachment can reproduce a licking motion against the user's ear.

<https://www.designboom.com/design/engineers-hack-scuba-masks-to-use-as-ventilators-03-26-2020/>



LICKING PHONES

27
May

529

ROBOT

The University of Southern Denmark

Prototype robot that carries out throat swab tests for coronavirus using a disposable 3D-printed arm is developed by Danish researchers

A robot that is able to take throat swabs from coronavirus patients using a 3D printed arm was developed by a team of researchers from Denmark in just four weeks. The University of Southern Denmark says the world's first fully automated throat swab robot will be able to test the first COVID-19 patients by late June. Using disposable 3D printed parts, the robot holds a swab and hits the exact spot in the throat where a sample needs to be collected every time.

<https://www.dailymail.co.uk/sciencetech/article-8365079/COVID-19-throat-swab-test-robot-developed-Danish-researchers.html>



ROBOT SWAB TEST

PARTITIONS

Gatsby & Miller

UK's first Covid-secure hairdresser reveals the 'new normal' when salons finally reopen after lockdown

These fascinating photographs give an insight into hair appointments of the future - featuring gloves and masks for all staff, protective screens at the reception desk and floor markings to ensure social distancing. One of Britain's first hairdressers ready for reopening is the Gatsby & Miller in Amersham, Buckinghamshire - one of the 25,000 UK salon partners of beauty giant L'Oreal which is creating a blueprint for the sector.

<https://www.dailymail.co.uk/news/article-8366187/UKs-Covid-secure-hairdresser-reveals-new-normal.html>



HAIRDRESSER

28
May

28
May

MASK

Adidas*Adidas launches reusable face mask called Face Cover*

Sportswear company Adidas has released Face Cover, a reusable face mask made from a breathable recycled material for people to wear as coronavirus lockdowns ease.

The breathable face masks are designed to be used by people wanting to reduce their risk of getting or spreading coronavirus. In numerous countries wearing a face mask is recommended by governments for people when venturing out in public.

<https://www.dezeen.com/2020/05/25/adidas-launches-reusable-face-mask/>



TEST

Waugh Thistleton Architects*Mobile vaccination centres in shipping containers could immunise 60 million people in four months*

Waugh Thistleton Architects has proposed creating 6,500 mobile vaccination centres in shipping containers that could travel around the UK and immunise the entire population against coronavirus in 16 weeks. The units would allow the UK's stretched National Health Service (NHS) to roll out a mass immunisation programme should a vaccine for Covid-19 be found, the architect believes.

<https://www.dezeen.com/2020/05/26/vaccination-units-waugh-thistleton-shipping-container-coronavirus/>



**A
DESIGN
HISTORY
OF THE
COVID-19
VIRUS**



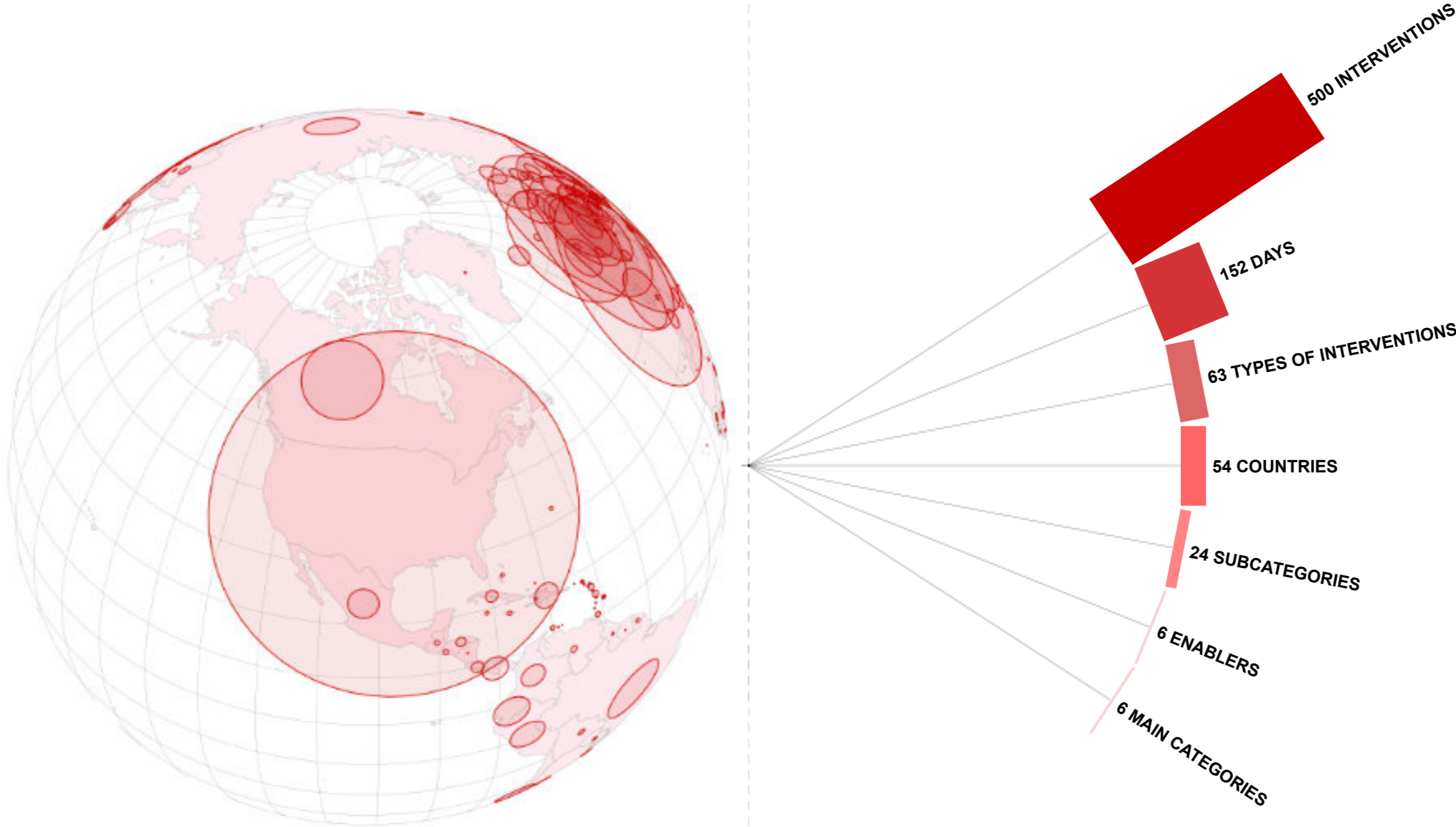
4

DIAGRAMS

RADIAL HIERARCHY

Hierarchical Analysis

General Overview

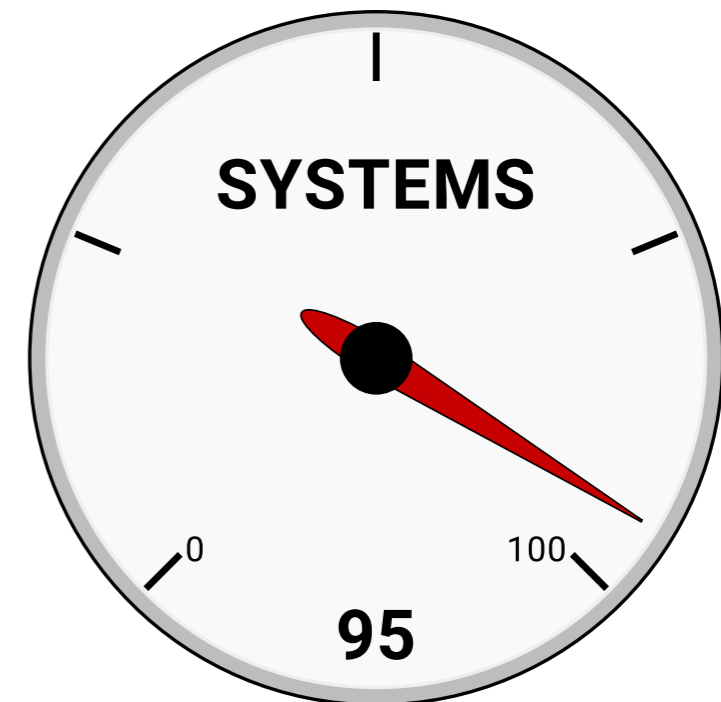
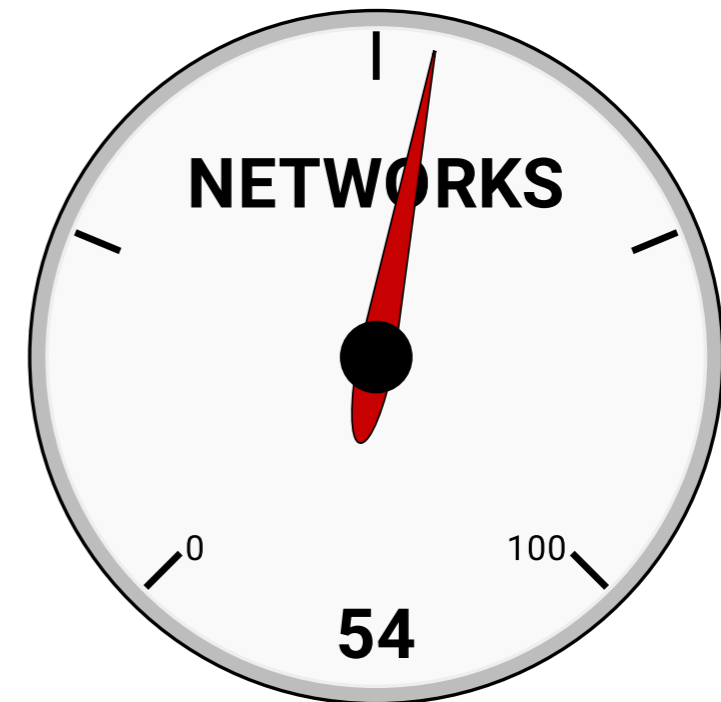
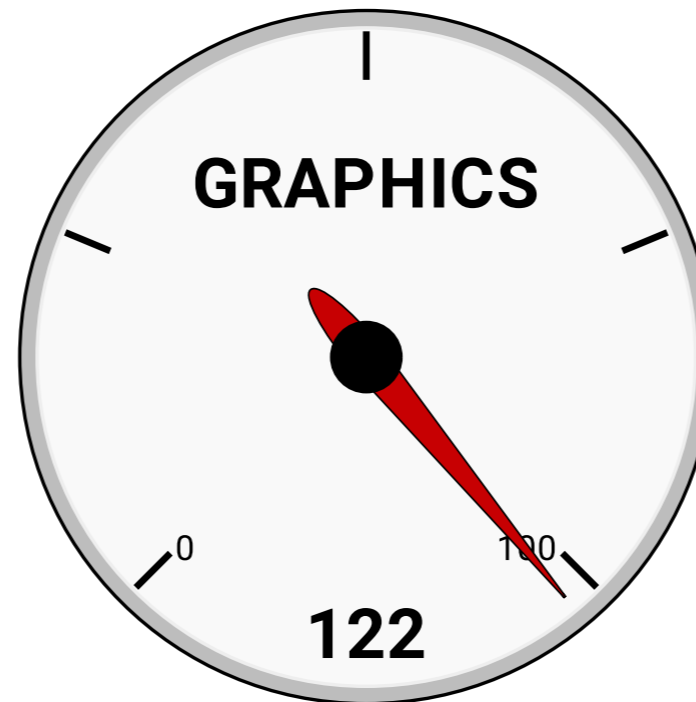


GAUGE CHART

Comparative Analysis

Main categories and number of interventions

539

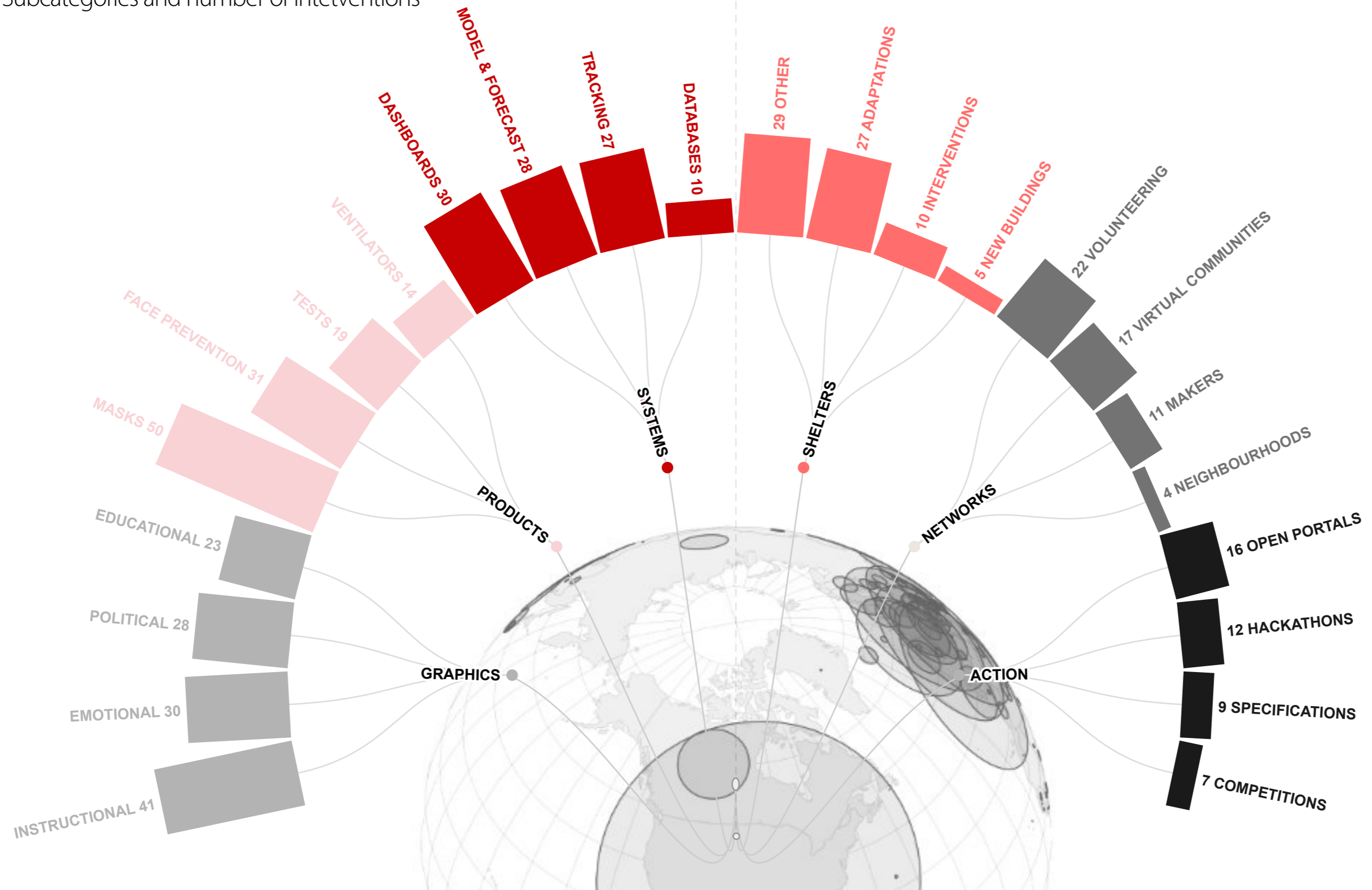


RADIAL CHART

Comparative Analysis

Subcategories and number of interventions

541

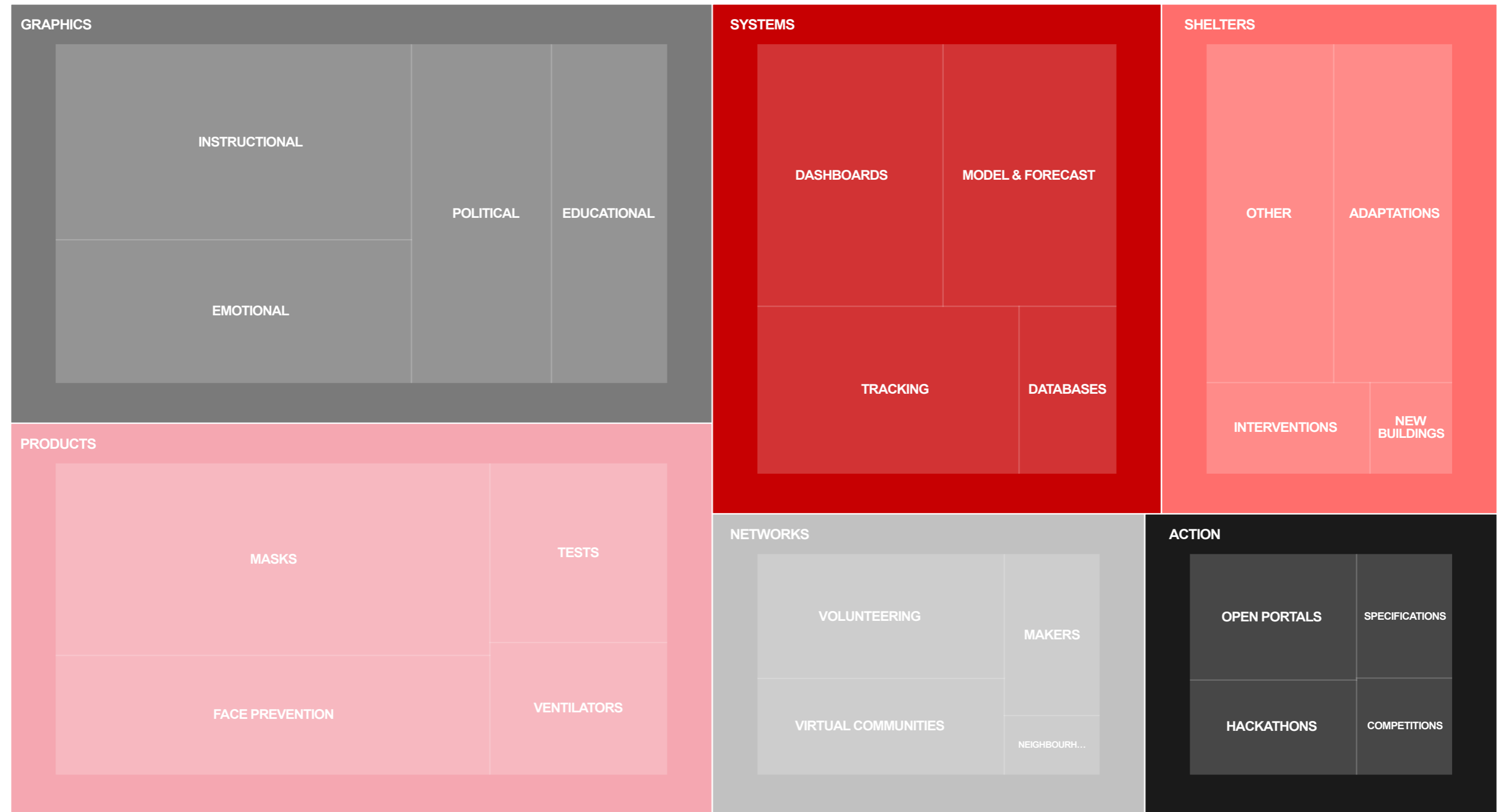


TREEMAP CHART

Comparative Analysis

Categories and Subcategories impact distribution

543

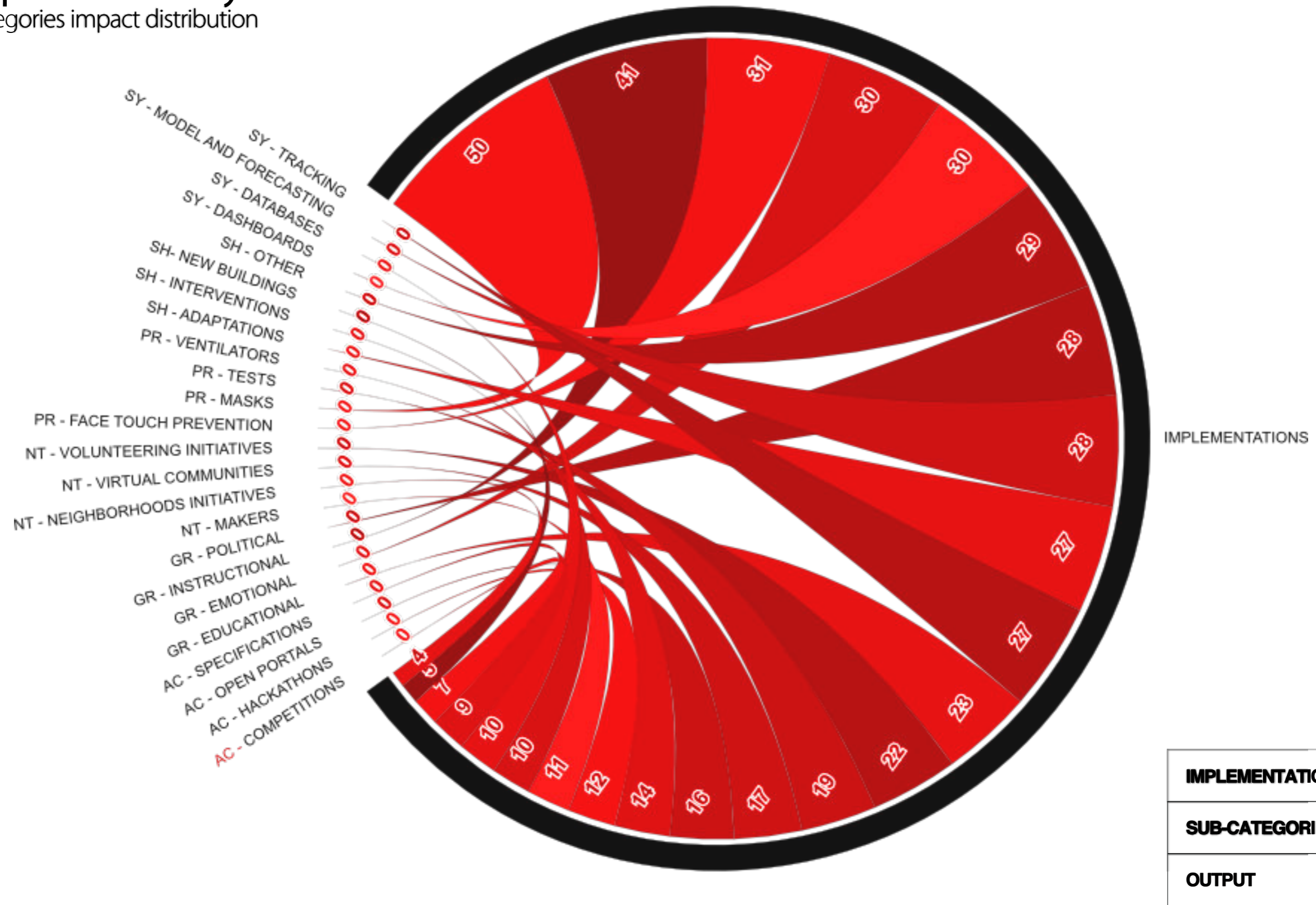


CHORD DIAGRAM

Comparative Analysis

Subcategories impact distribution

545

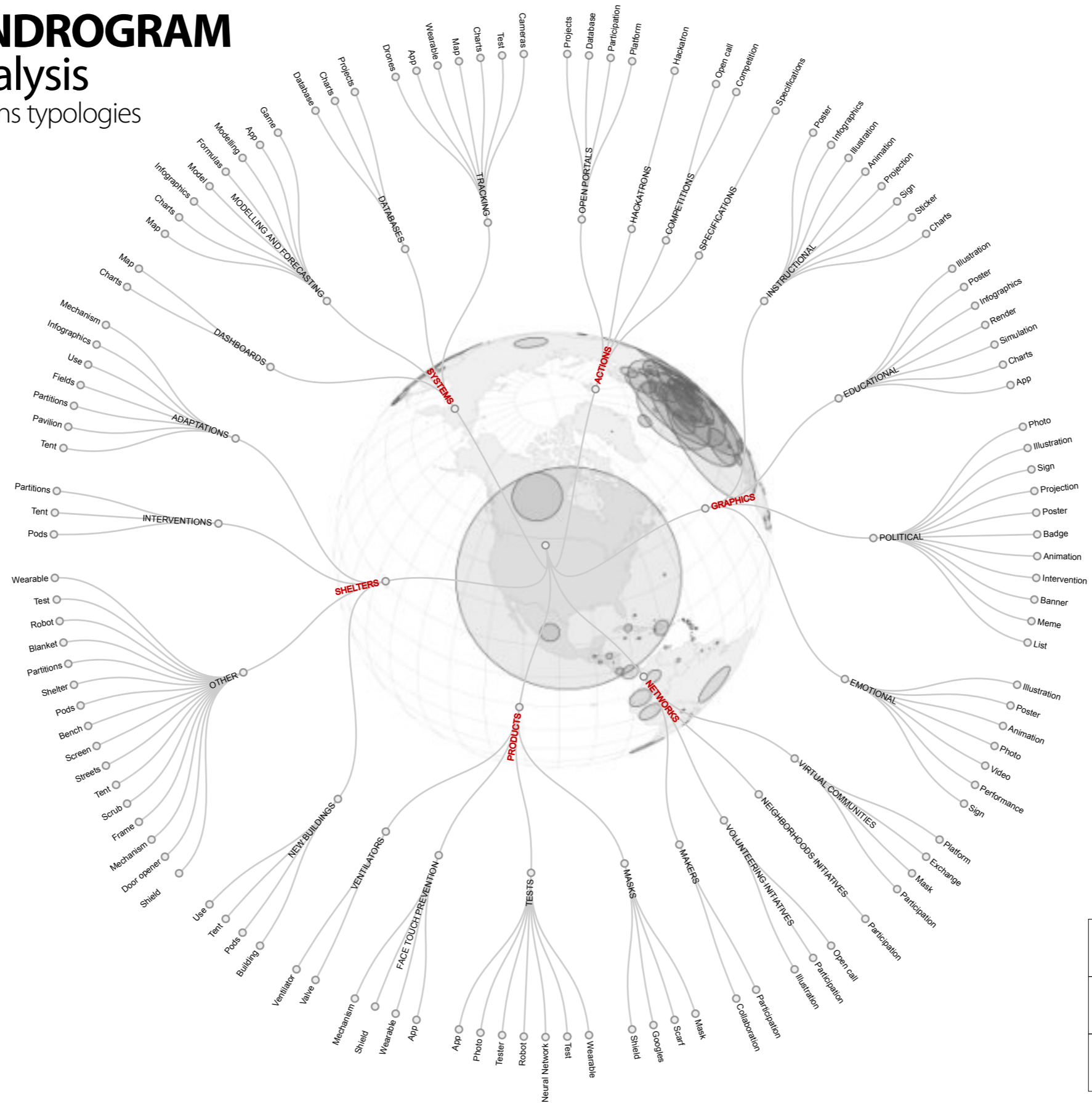


CIRCULAR DENDROGRAM

Hierarchical Analysis

Subcategories interventions typologies

547



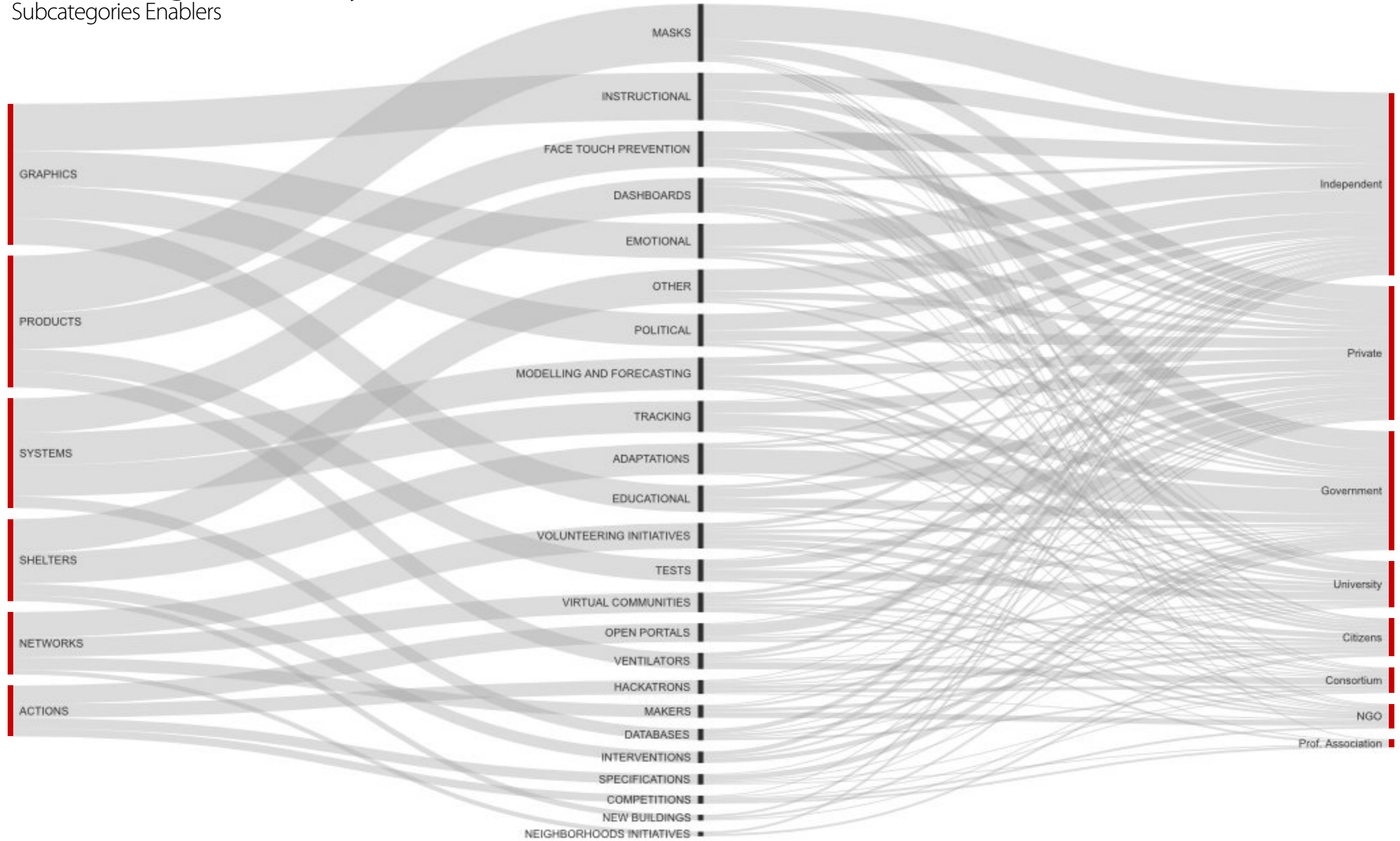
CATEGORIES
SUB-CATEGORIES
TYPOLOGY

ALLUVIAL DIAGRAM

Multi-Categorical Analysis

Subcategories Enablers

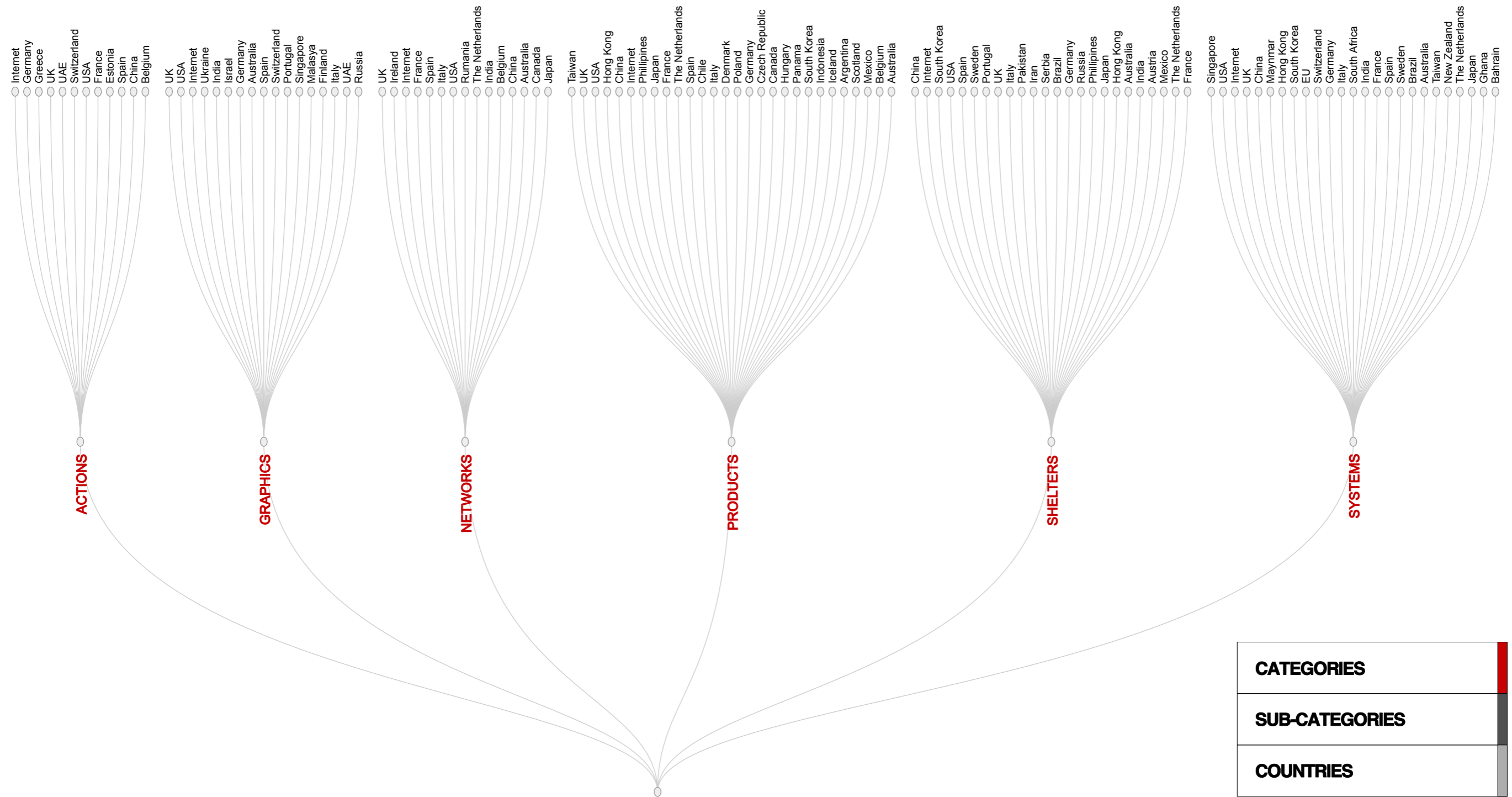
549



CLUSTER DENDROGRAM

Relational Analysis

Interventions by category and country

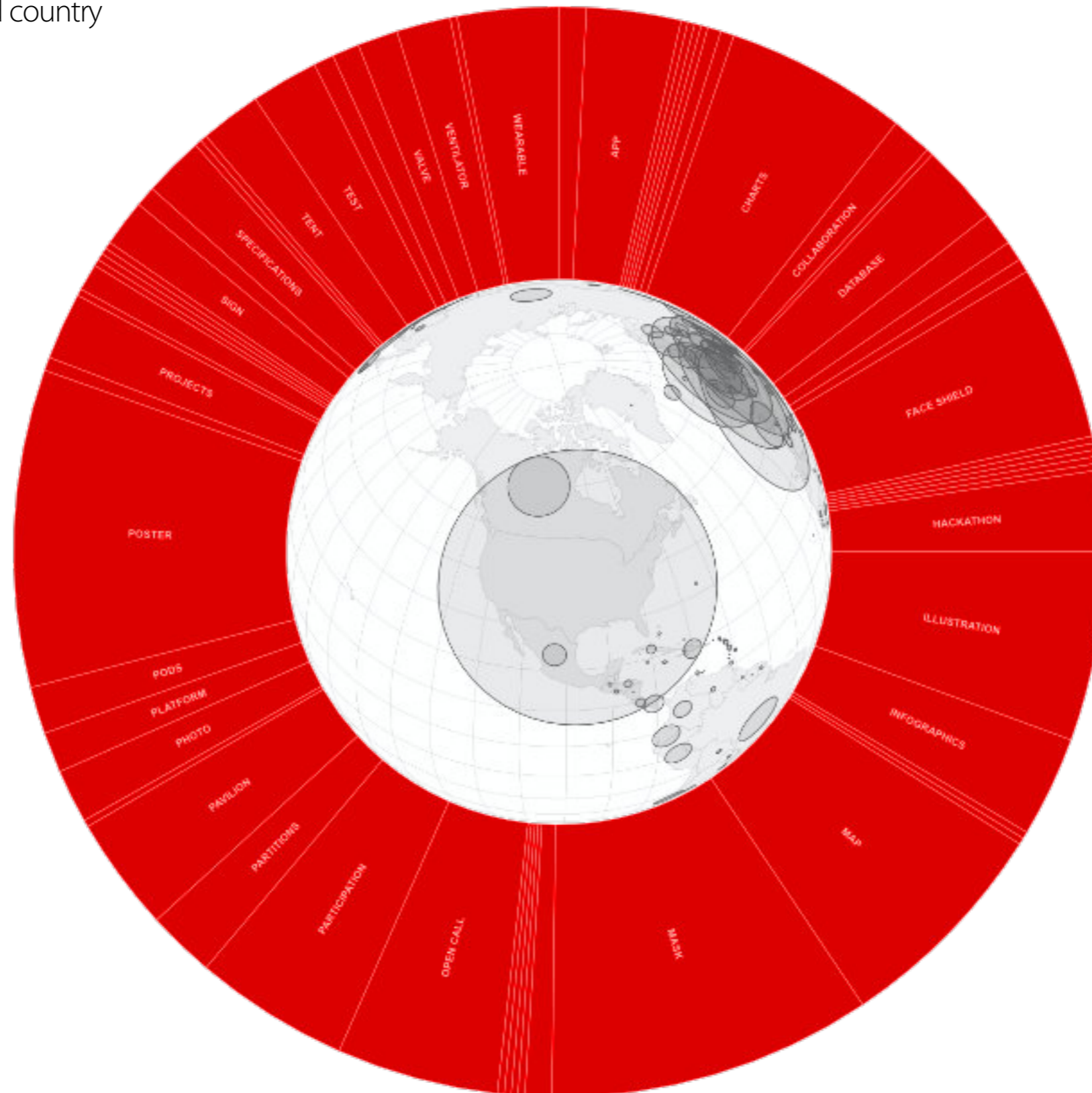


SUNBURST DIAGRAM

Hierarchy (Weighted) analysis

Interventions by category and country

- Neural Network — 1
- Open call — 24
- Participation — 23
- Partitions — 10
- Pavilion — 17
- Performance — 1
- Photo — 8
- Platform — 6
- Pods — 7
- Poster — 47
- Projection — 2
- Project — 10
- Render — 1
- Robot — 4
- Scarf — 1
- Screen — 1
- Scrub — 1
- Shelter — 1
- Sign — 7
- Simulation — 3
- Specifications — 9
- Sticker — 1
- Streets — 1
- Tent — 9
- Test — 10
- Tester — 3
- Use — 4
- Valve — 6
- Ventilator — 8
- Video — 1
- Wearable — 15



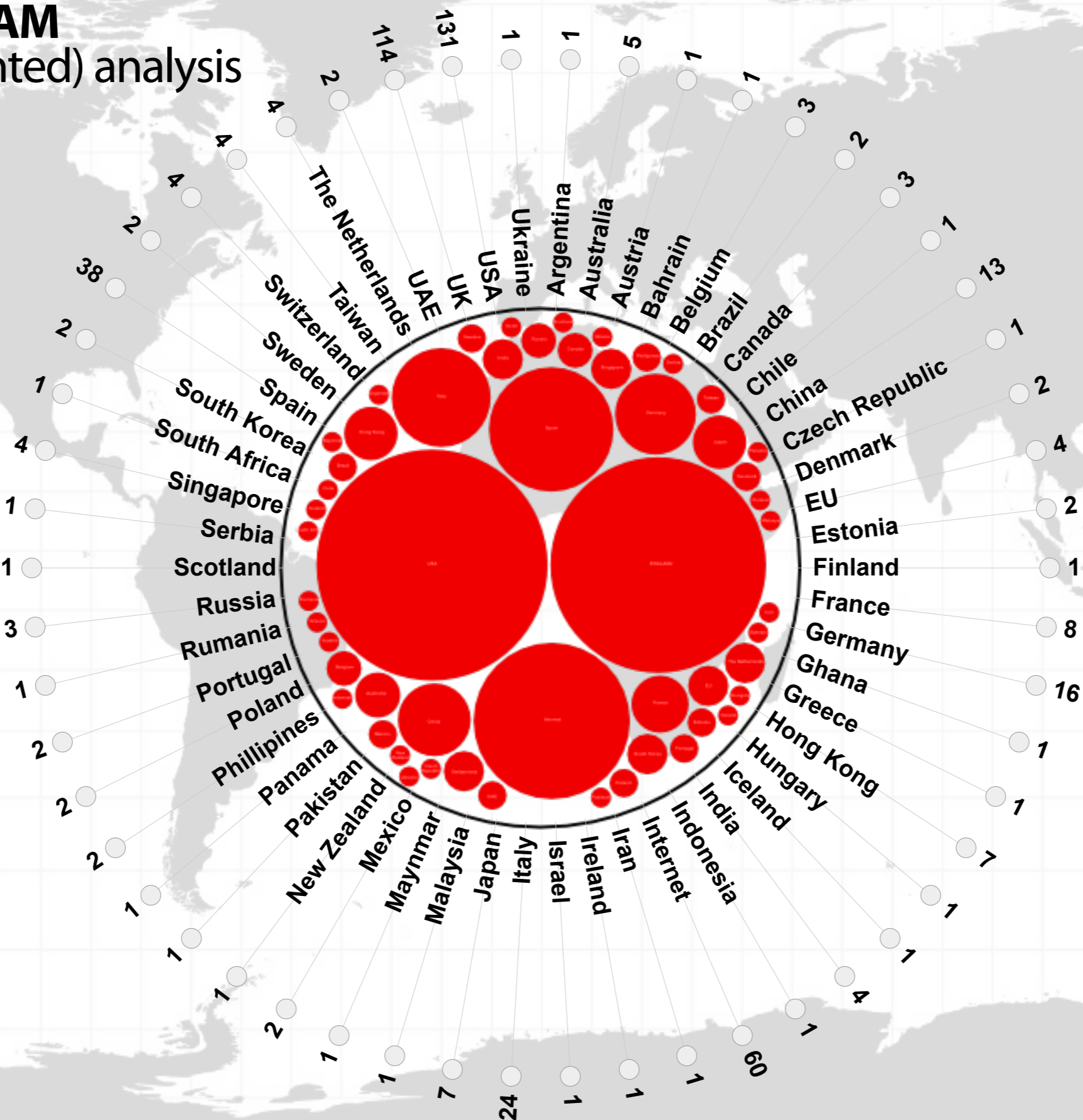
- 4 — Animation
- 14 — App
- 1 — Badge
- 1 — Banner
- 1 — Bench
- 1 — Blanket
- 2 — Building
- 2 — Cameras
- 27 — Charts
- 6 — Collaboration
- 1 — Competition
- 12 — Database
- 5 — Door opener
- 3 — Drones
- 2 — Exchange
- 26 — Shield
- 1 — Fields
- 1 — Formulas
- 1 — Frame
- 1 — Game
- 1 — Googles
- 12 — Hackathon
- 28 — Illustration
- 15 — Infographics
- 1 — Intervention
- 1 — List
- 33 — Map
- 48 — Mask
- 4 — Mechanism
- 1 — Meme
- 2 — Model

NESTED DIAGRAM

Hierarchy (Weighted) analysis

Interventions by country

555

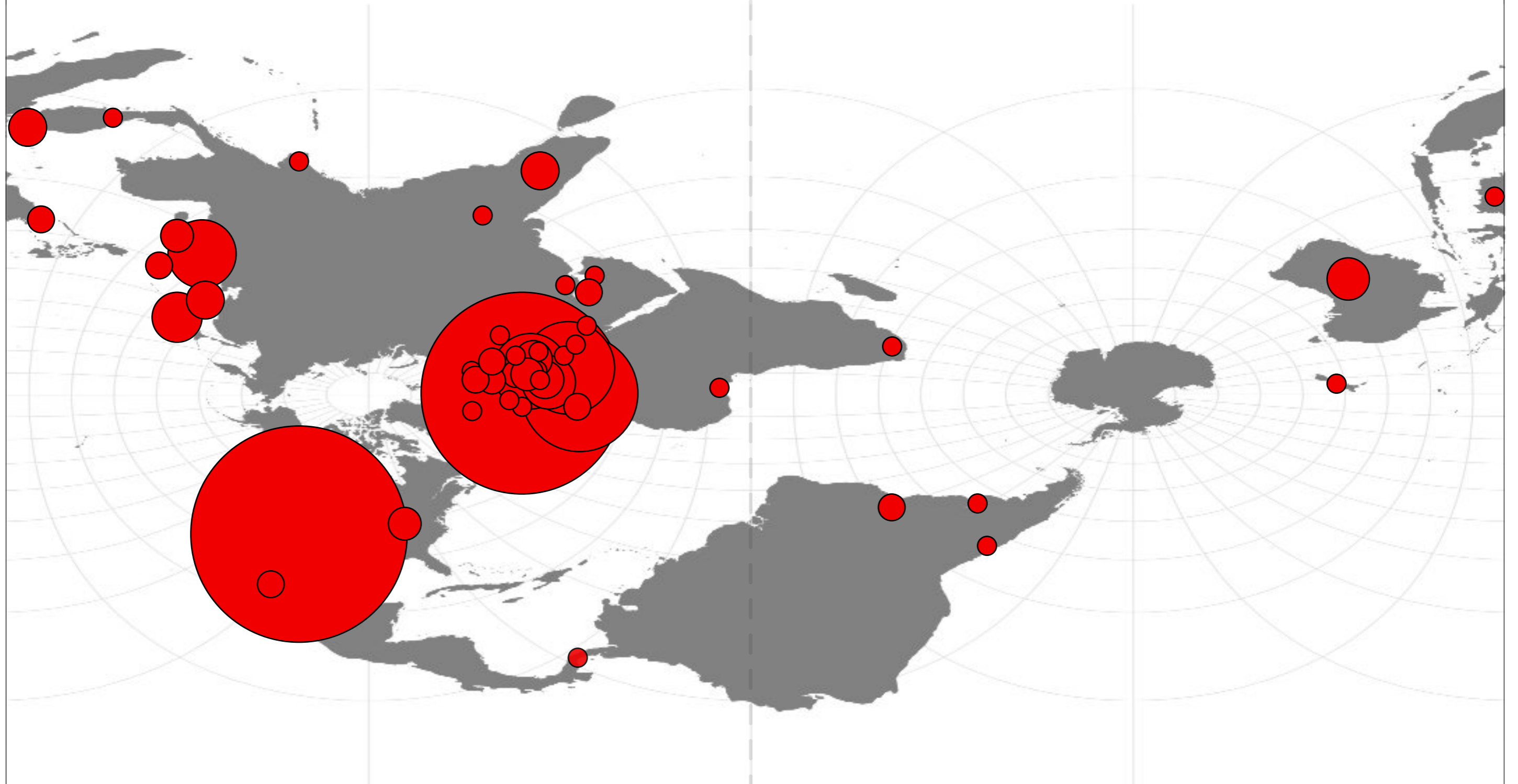


TRANSVERSE MERCATOR MAP

Hierarchy (Weighted) analysis

Interventions by country

557

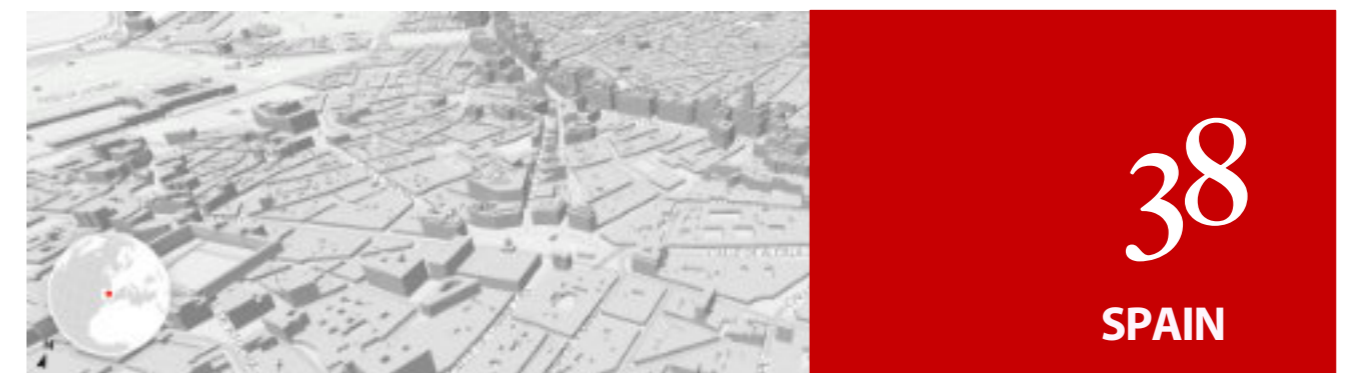


LOCATOR MAPS

Regional Pattern analysis

Top six countries by Interventions

559



**A
DESIGN
HISTORY
OF THE
COVID-19
VIRUS**



TRACES

5

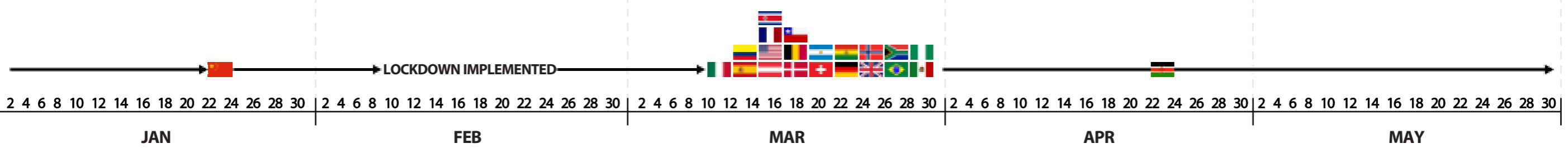
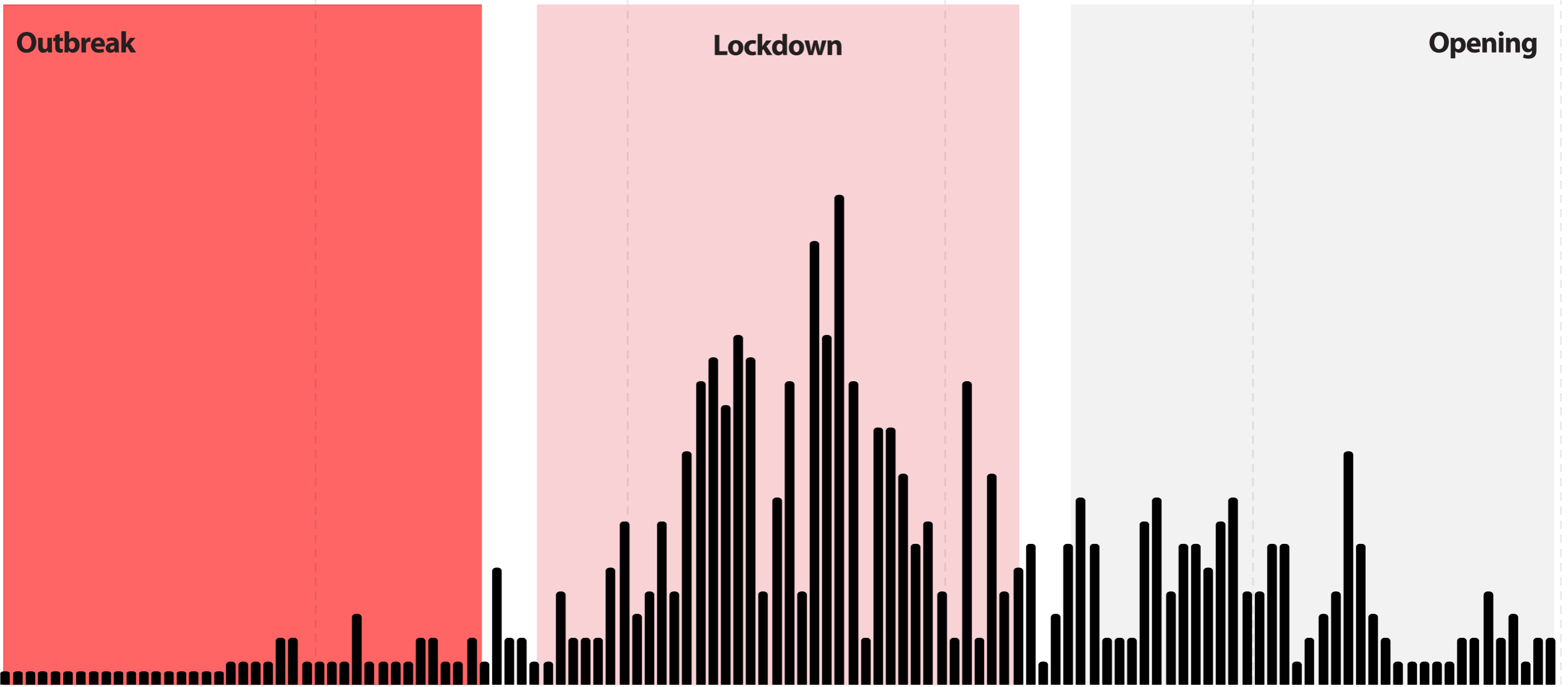
TRACES

TIMELINE

Time-Series Analysis: Development

Frequency of interventions per day and phase

563

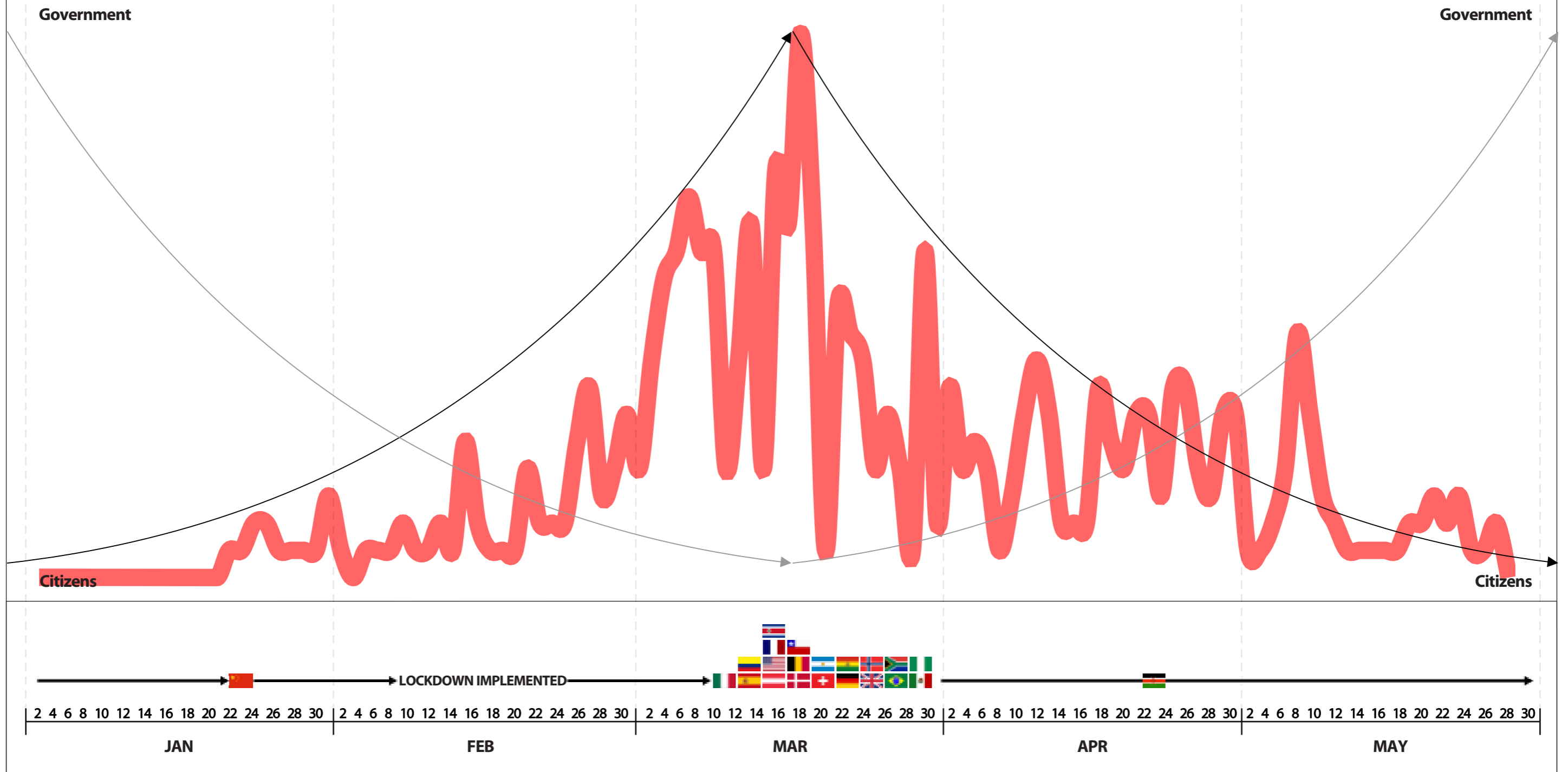


TIMELINE

Time-Series Analysis: Development

Participation: Citizens + Independent practitioners + Private companies

565



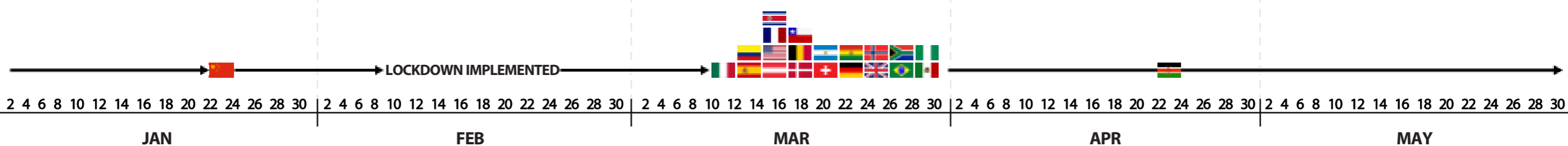
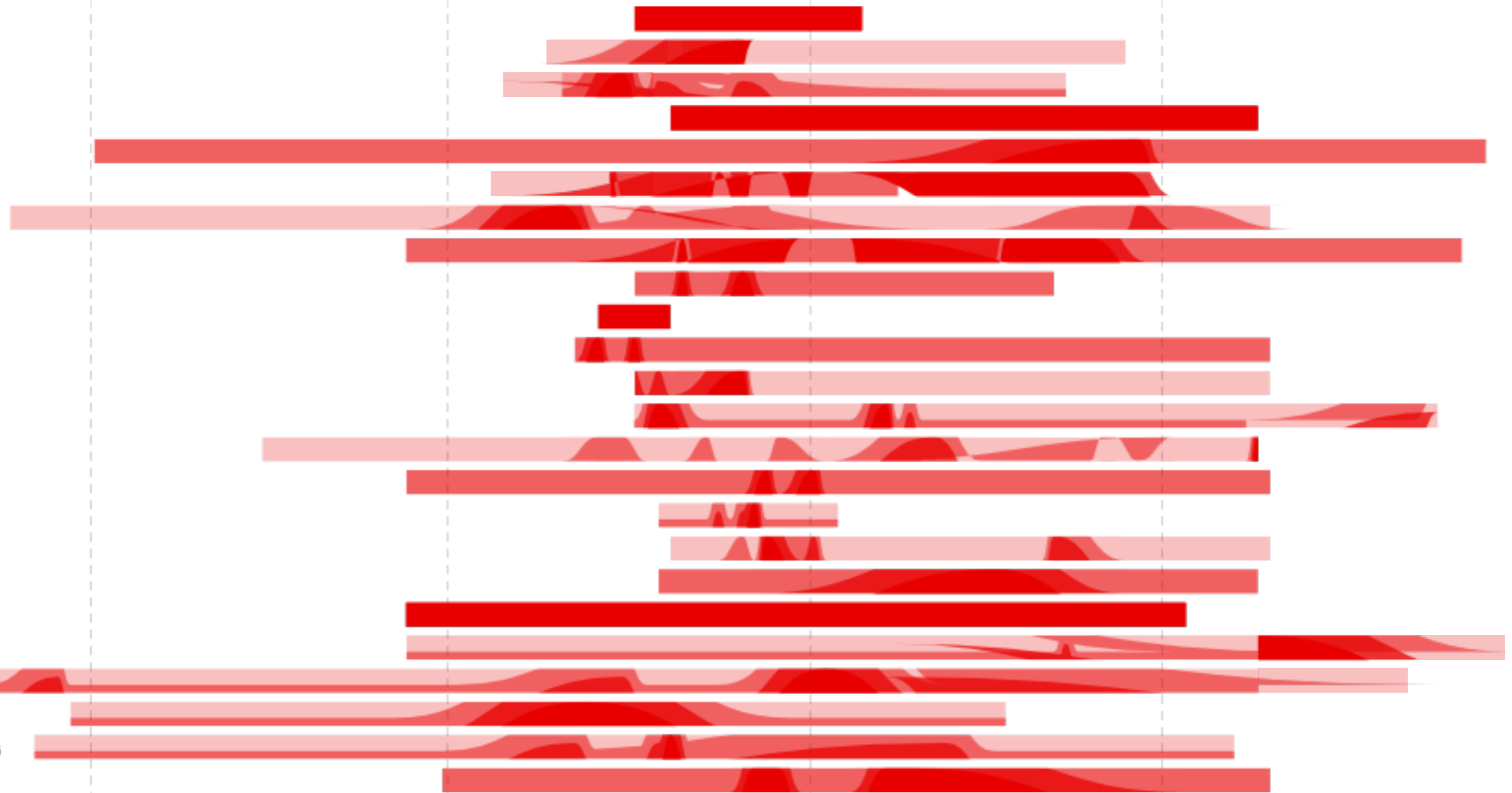
HORIZON GRAPH

Time-Series Analysis: Frequency

Subcategories development in time

567

- COMPETITIONS
- HACKATHONS
- OPEN PORTALS
- SPECIFICATIONS
- EDUCATIONAL
- EMOTIONAL
- INSTRUCTIONAL
- POLITICAL
- MAKERS
- NEIGHBORHOOD INITIATIVES
- VIRTUAL COMMUNITIES
- VOLUNTEERING INITIATIVES
- FACE TOUCH PREVENTION
- MASKS
- TESTS
- VENTILATORS
- ADAPTATIONS
- INTERVENTIONS
- NEW BUILDINGS
- OTHER
- DASHBOARDS
- DATABASES
- MODELLING AND FORECASTING
- TRACKING



STREAMGRAPH

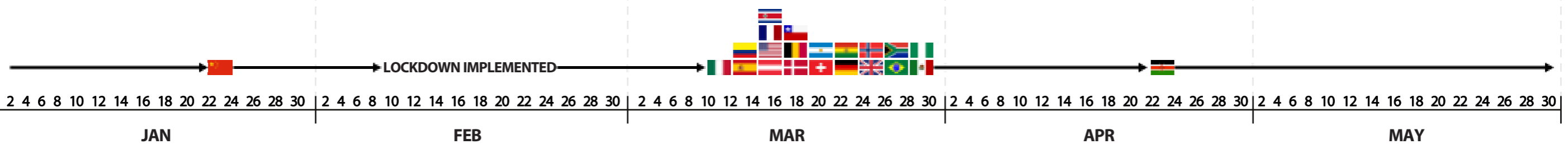
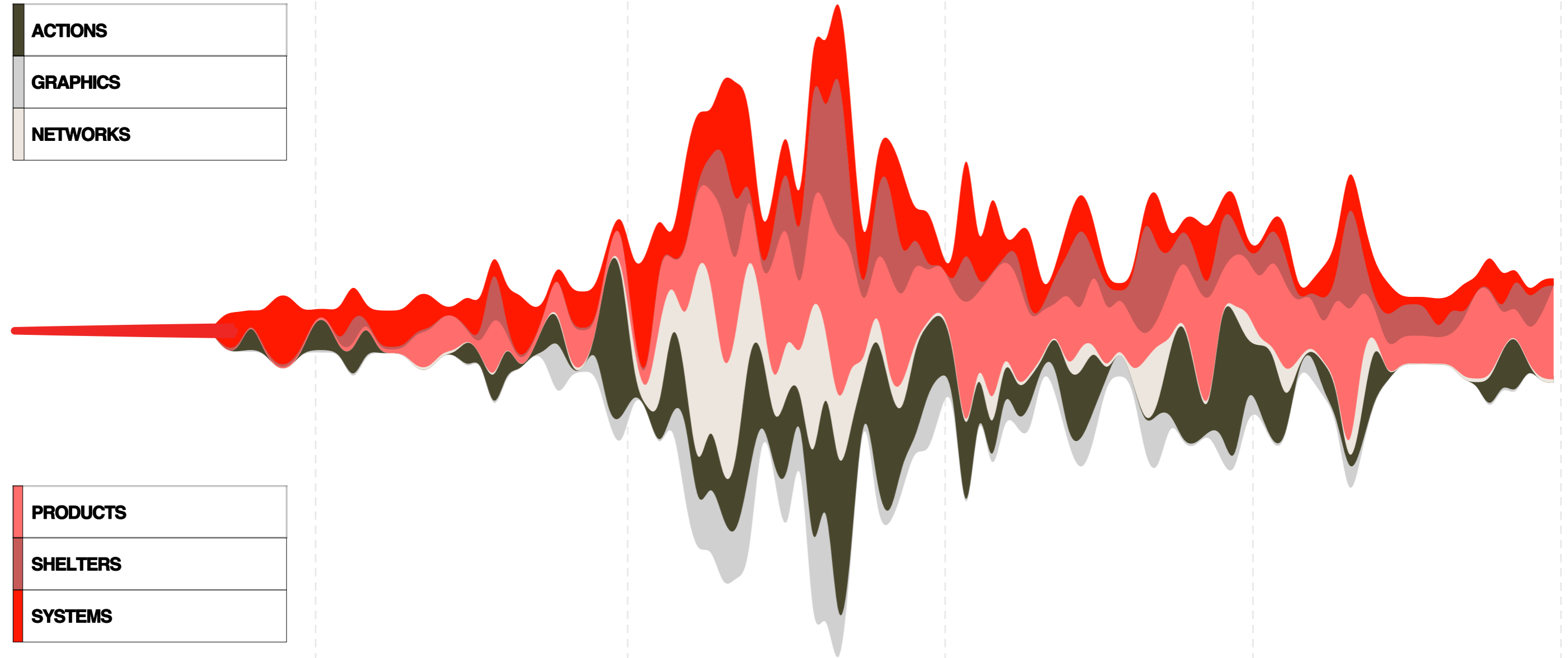
Time-Series Analysis: Frequency

Categories in time

569

ACTIONS
GRAPHICS
NETWORKS

PRODUCTS
SHELTERS
SYSTEMS



TIMELINE

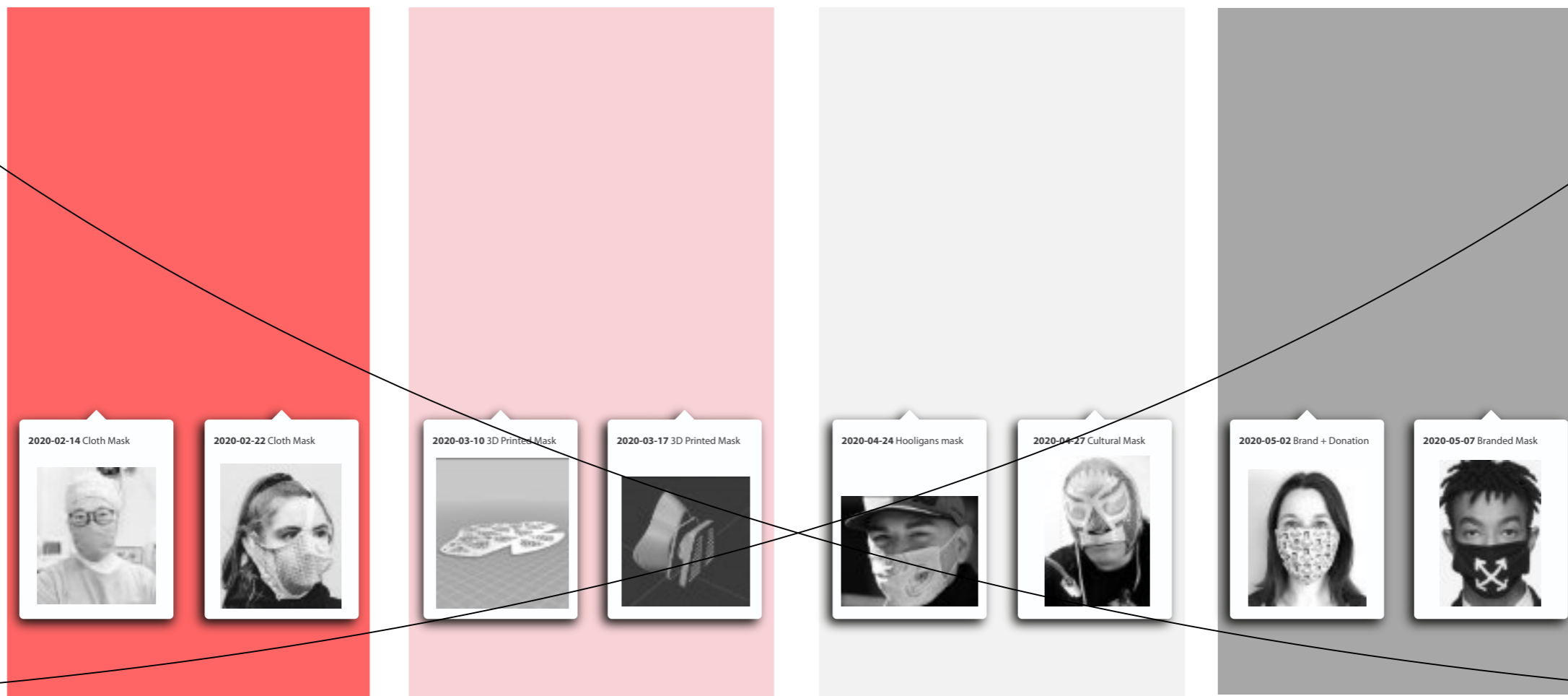
Time-Series Analysis: Development

Masks

571

Citizens

Profit



Manufacturing

Philanthropy

SURVIVAL

AIDED

CULTURAL

COMMERCIAL

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

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TIMELINE

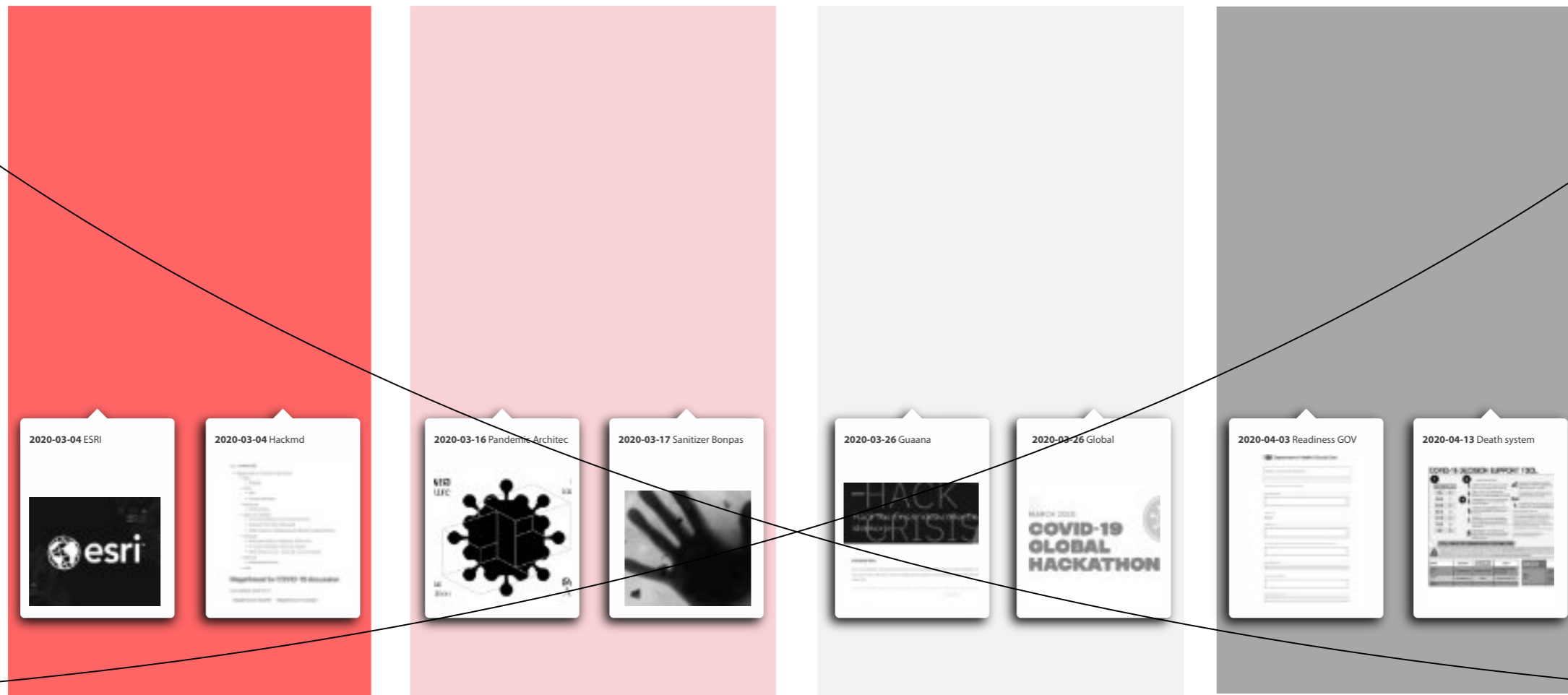
Time-Series Analysis: Development

Actions

573

Private

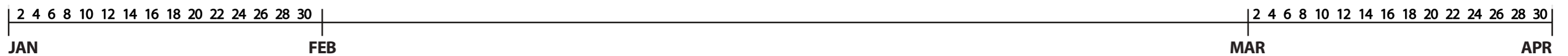
Prescriptive



Government

Constructive

PORTALS **COMPETITIONS** **HACKATHONS** **SPECIFICATIONS**



TIMELINE

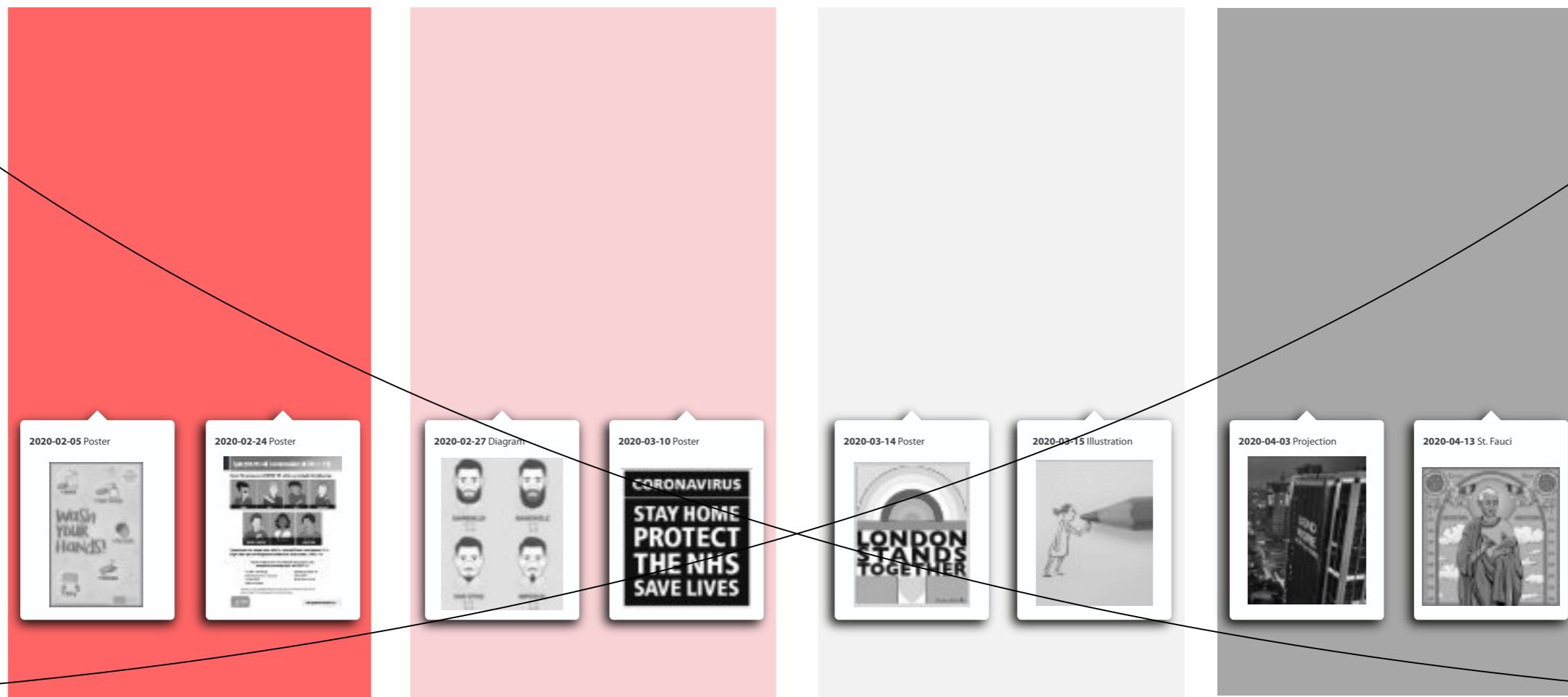
Time-Series Analysis: Development

Graphics

575

Instructions

Protest



Emotion

Obedience

EDUCATIONAL

INSTRUCTIONAL

EMOTIONAL

POLITICAL

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

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TIMELINE

Time-Series Analysis: Development

Adaptations

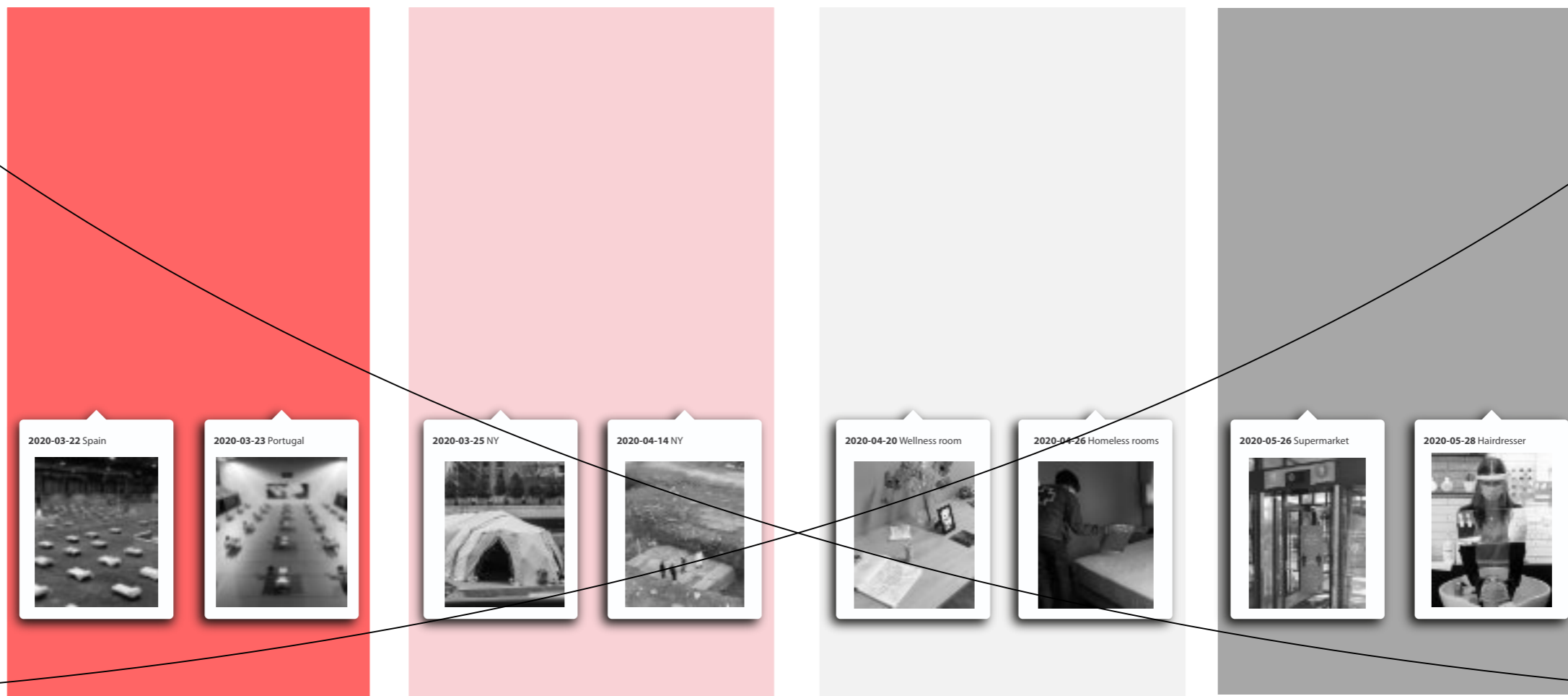
577

Government

Economy

Private

Health



HOSPITALS

MORGUES

ROOMS

WORK

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

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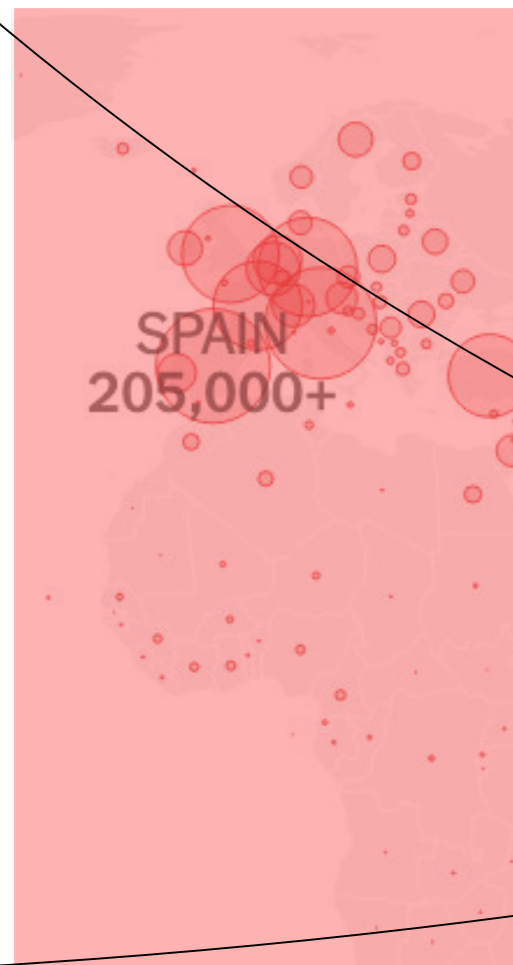
TIMELINE

Time-Series Analysis: Development

Dashboards

579

General



Engagement

Specific

Information

PRIVATE

GOVERNMENT

INDEPENDENT

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

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TIMELINE

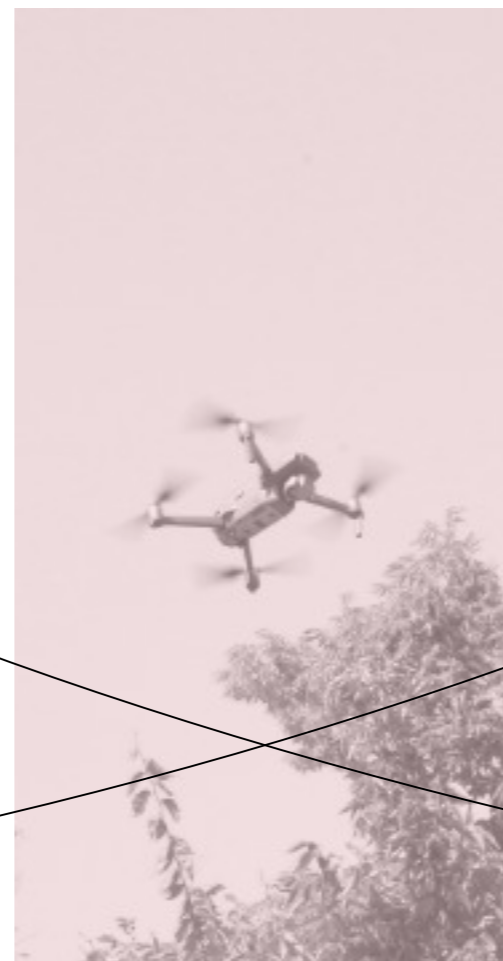
Time-Series Analysis: Development

Tracking

58I

Government

Control



Private

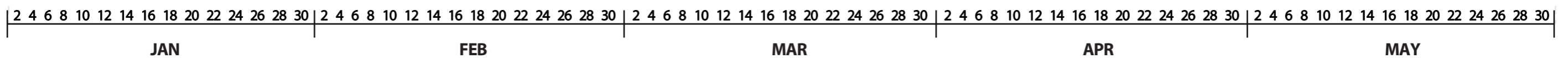
Privacy

APPS

DRONES

WEARABLES

CAMERAS



TIMELINE

Time-Series Analysis: Development

Hospitals

583

Government

Individual



Private

Collective

BUILDINGS

ADAPTATIONS

EXTENSIONS

DISTRIBUTED

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

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APR

MAY

TIMELINE

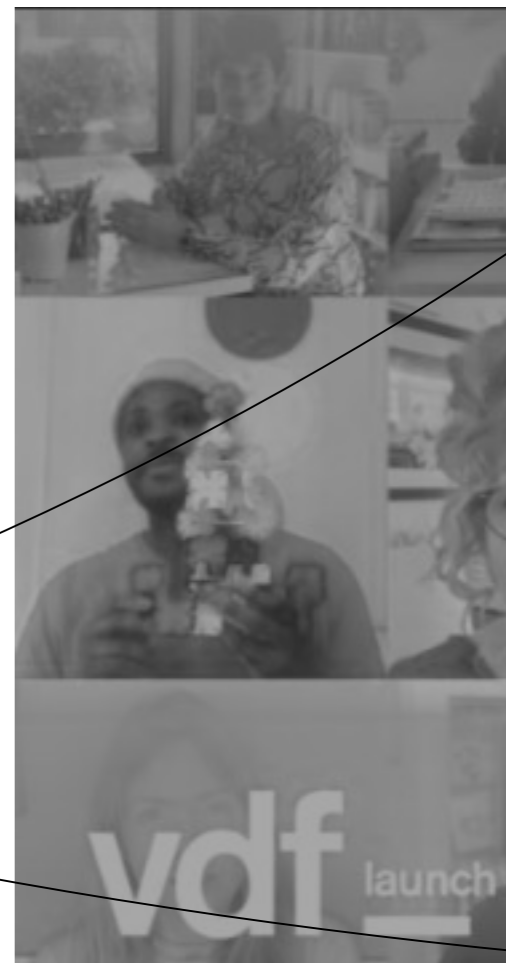
Time-Series Analysis: Development

Networks

585

Local

Virtual



Global

Physical

NEIGHBOURHOODS

MAKERS

VOLUNTEERING

COMMUNITIES

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

JAN

FEB

MAR

APR

MAY

TIMELINE

Time-Series Analysis: Product Development

Face Shields

587



TIMELINE

Time-Series Analysis: Product Development

DIY Masks

589

MATERIAL

SUSTAINABILITY

3D PRINTER

3D PRINTED

3D PRINTED

FOLDED

FOLDED AND FASTED

TWO HOLES



SIMPLICITY

COST

FEB

14

MAR

15

MAR

15

APR

09

APR

14

APR

16

**A
DESIGN
HISTORY
OF THE
COVID-19
VIRUS**



FRAMEWORK

ENDPIECE

In response to the Covid-19 Virus the problems that design faced were highly complex, interdependent, and could not be addressed by conventional means, structures and research. As such the response illustrates comprehensively that when pressed we can find new ways of designing. What we witness in this book is what we might think of as a new model for designing. This new model does not describe a new condition to come after what we currently call design (who knows what that might be...). Unlike the structure of this book a new model for design is not a chronological idea. What we witness here is the revival of the practice of design – from handmaiden of Capital to Care – which is expressed in a new critical attitude for looking at the design world, probing its practice, its theoretical position and its product. At this stage looking at designing with care through the lens of critical theory we can only draw temporary conclusions. Time will continuously revise this history. But from what we have seen we can also foresee some critical issues that will need careful thinking, which we summarise below.

Designing with care concerns not only how we care for the world outside, but also how we care for ourselves or, rather, how we react to the way in which the world appears to care for us.

Designing with care is a new gesture for design. It might not be immediately clear to the designer what care actually is, and how the gesture is supposed to be performed. In order to start designing with care, we need a theory that explains what designing with care is. Such a theory could give us the possibility to universalise both design and care.

Designing with care, while we live in these strange and transitional times, is not necessarily transformational. Whereas transformation implies dramatic change, transition suggests a defined future state arrived at through some form of managed change. Whether change can be managed or not it will help if we define the future state rather than leave it to Capital or politics. In that sense a central promise of care is the possibility for transition to a better future. In transition to this possible future it must be asked whether we can continue to design with care and if so, what will we design?

ENDPIECE

Designing with care in the service enterprises economy is regulated to guarantee the delivery of care is consistent and viable. But care is like conversation theory, which maintains that conversation is constituted by the listener not the speaker. In the case of care – care is determined by the receiver not the provider. In this scenario, we must transition design from engagement to trust. The idea that trust is earned or built is a marketing project. Here we must shift orthodoxies of trust and reposition the relational gesture of care as granted by the receiver.

As this book makes very clear, designing with care turns out to be extremely useful, which could lead us to think the more care we use the better things will get. But care has become an element for both profit and pleasure and how we care for the world is constantly being conditioned in the same way marketing has conditioned consumers to consume. Clearly, designing with care will call for vigilance.

Not only will designing with care call for vigilance, it will also have to take good care of itself. Despite all the energy and effort thrown at sustaining life on the one planet we share, now all we can do is constantly recalibrate downward earth's carrying capacity. Care needs to be taken with the calibrations and the calibrations tell us how much more care we need to take.

Even with the massive and compelling design response to the Covid-19 crisis caring for design is not very visible. By caring for design is the responsible job of stewardship and only with care is the design for the future possible...after which, we will have to steward design to take care of it.

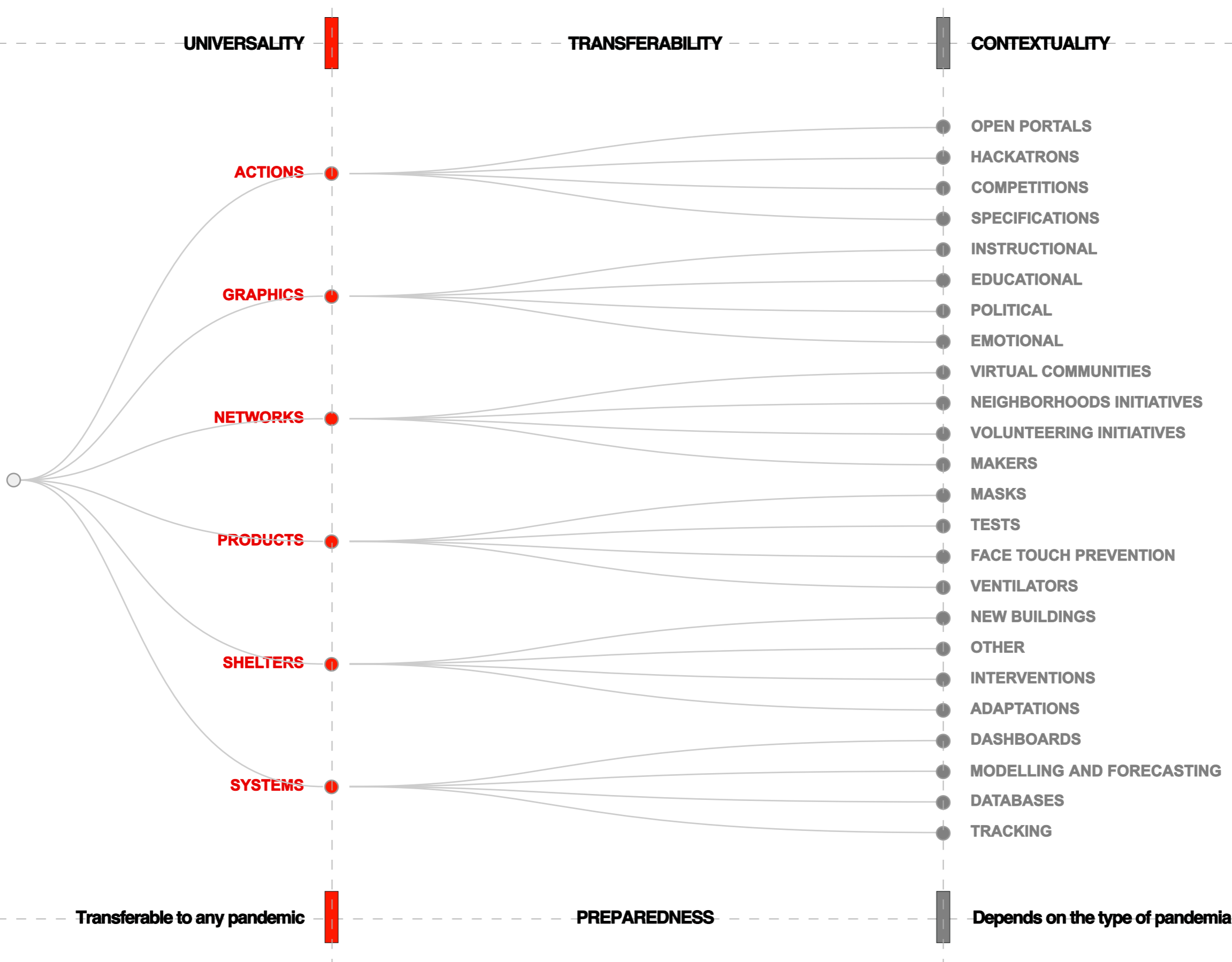
Designing with care has pitfalls. We are inevitably careless and we need to be careful about our carelessness. No matter how careful we might be, all design thought and action has consequences which raises a number of dilemmas and paradoxes that underpin the positionality of what-might-not-become.

Paul A. Rodgers, Craig Bremner, and Fernando Galdon

UNIVERSALITY

TRANSFERABILITY

CONTEXTUALITY



Transferable to any pandemic

PREPAREDNESS

Depends on the type of pandemic

ISSUES

DILEMMAS

ISSUES

PRIVACY	●	●	TRACKING
MENTAL HEALTH	●	●	ISOLATION
PREPAREDNESS	●	●	EMERGENCE
PROSPECTIVE	●	●	REACTIVE
QUALITY CONTROL	●	●	HOME MANUFACTURING
SINGLE DATA SOURCE	●	●	MULTIPLICITY
PROTOCOLS	●	●	INTERVENTIONS
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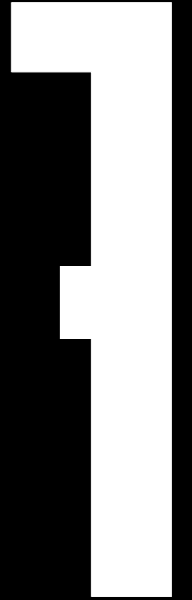
FLUID PRACTISE	●	●	DISCIPLINED PRACTISE
SENSIBILITY	●	●	MAKE-ABILITY
EXPECTATION	●	●	INNOVATION
ORIGINALITY	●	●	DERIVATIVE DESIGN
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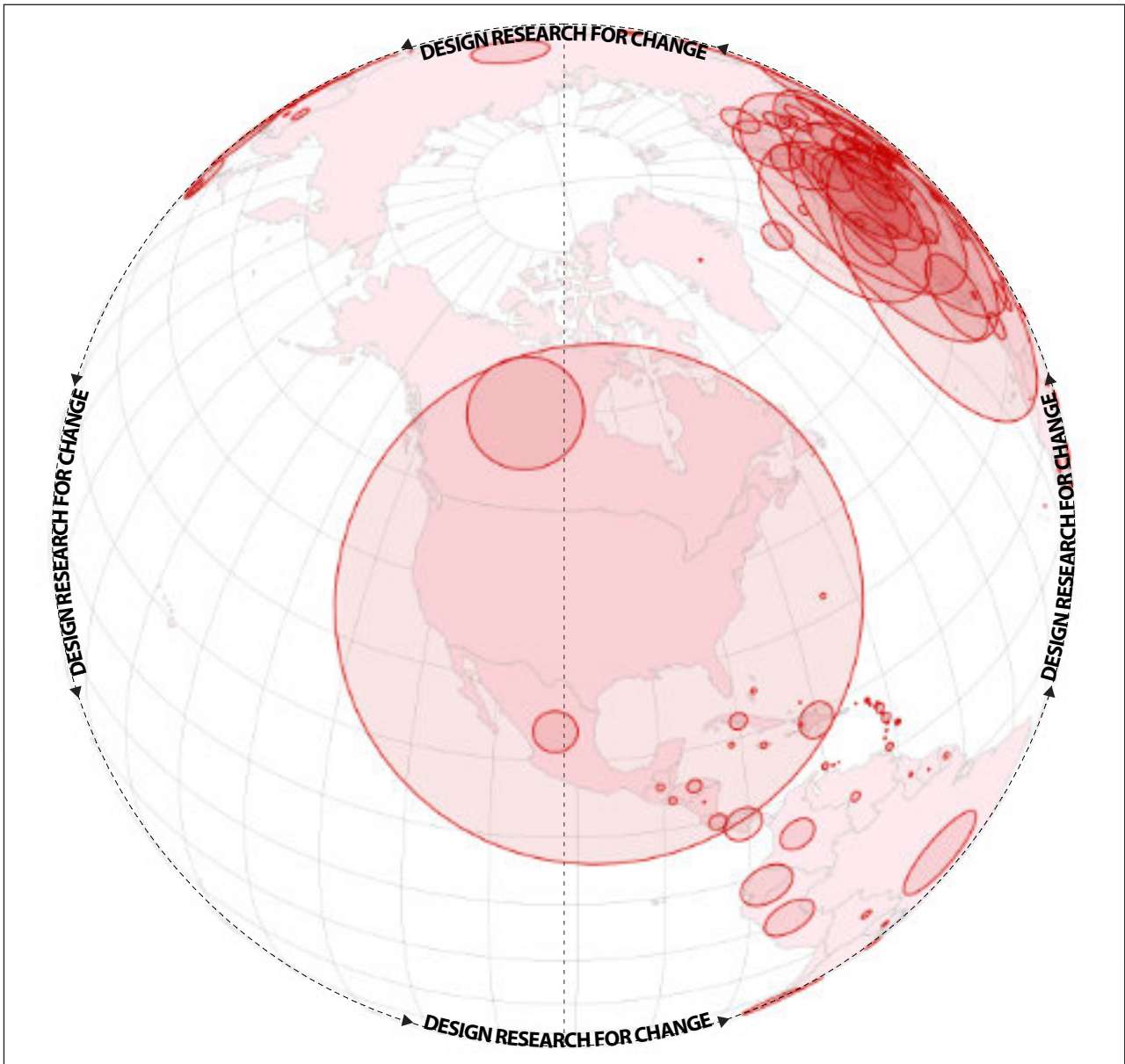
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FERNANDO GALDON

CRAIG BREMNER

A DESIGN HISTORY OF THE COVID-19 VIRUS



31/MAY/2020

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DAY

6.2M

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373K

DEATHS