

[The New Status Game for Companies: Fewer Employees](#) by Auren Hoffman

There is a new status game brewing between companies concerning who has the FEWEST number of employees.

[The Nuclear Family Was a Mistake](#) by David Brooks

Community is increasingly becoming a smaller and smaller part of our lives (well documented in 2000 in "Bowling Alone" by Robert Putnam). Brooks' culprit is the focus on the nuclear family and the decline in the number of people per household.

Bonus Listen: [EconTalk podcast: Keith Smith on Free Market Health Care](#)

Great overview of health care in these very important times.

books:

[Path of Least Resistance](#) by Robert Fritz (5/5)

HT Patrick O'Shaughnessy

This is a must-read book that I have already gifted a dozen times.

[LifeSpan: Why We Age—and Why We Don't Have To](#) by David Sinclair (4/5)

HT Lauren Spiegel, Peter Attia

[The Decadent Society](#) by Ross Douthat (4/5)

HT Peter Thiel

[Alchemy](#) by Rory Sutherland (4/5)

HT Ben Springwater

[On Grand Strategy](#) by John Lewis Gaddis (4/5)

HT Shervin Pishevar

[Seeing Like a State](#) by James C. Scott (4/5)

HT Erik Torenberg, Clare Lockhart, and Joseph Philleo

[The 22 Immutable Laws of Marketing](#) by Al Ries and Jack Trout (2/5)

[Peak](#) by Chip Conley (2/5)

HT Osman Khan

**Got forwarded this from a friend (or enemy)?**

[Join the 66700+ subscribers to Five Links](#)

*Michael- I try to send these out about 10 times a year. Please forward to friends (or unsubscribe if you hate this). And please send me your best things to read. - Auren*

*Auren Hoffman is CEO of SafeGraph and former CEO of LiveRamp.*

SafeGraph (the company where I work) is hiring.

[We'd love your referrals to great people.](#)

We are a distributed team and looking for people anywhere in North America.

**Some of the roles we are looking for are:**

- + Machine Learning engineers
- + super software engineers (who want to work with lots of data)
- + Account Executive (sales)
- + Business Development Rep (BDR)
- + BD star

Quick update from last month:

- You can see all the articles I read and like on [Pocket](#) (I now have over 270k followers)
- [SafeGraph is hiring](#) (Machine Learning Engineer, back-end software engineers, Enterprise Account Executive, BDR, BD star, & more!) -- **can be based anywhere in North America.**
- check out [my answers on Quora](#) (and follow me if you like them)
- You are 91.3% encouraged to [join my 52,500 followers on Twitter](#)
- and please spend time on my blog: [Summation](#) -- would love your feedback

 Forward



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## RE: [EXTERNAL] White House issues 'call to action' for tech industry to crunch coronavirus data

---

**From :** "Kjelland, Christin C. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6), DL OSTP Tech (b)(6) >  
**Cc:** DL OSTP COMMS (b)(6)  
**Date:** Mon, 16 Mar 2020 16:42:15 -0400

Whoot!!!

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Monday, March 16, 2020 4:34 PM  
**To:** DL OSTP Tech (b) (6)  
**Cc:** DL OSTP COMMS (b) (6)  
**Subject:** FW: [EXTERNAL] White House issues 'call to action' for tech industry to crunch coronavirus data

Great job lynne!

---

**From:** POLITICO Pro <politicoemail@politicopro.com>  
**Sent:** Monday, March 16, 2020 4:33 PM  
**To:** Kratsios, Michael J. EOP/OSTP <(b)(6)>  
**Subject:** [EXTERNAL] White House issues 'call to action' for tech industry to crunch coronavirus data

### White House issues 'call to action' for tech industry to crunch coronavirus data

By Steven Overly

03/16/2020 04:30 PM EDT

The White House is urging the tech industry to analyze a trove of data on Covid-19 and related viruses using artificial intelligence, in hopes that public health officials can more quickly glean insights to combat the coronavirus pandemic.

The Trump administration has worked with industry and nonprofit organizations over the last week to assemble about 29,000 scholarly articles related to the coronavirus, and make them available to researchers in one place and in a format that can be fed into AI algorithms.

"The medical community has been struggling to keep pace with the sheer amount of content," U.S. Chief Technology Officer Michael Kratsios told reporters Monday. "Artificial intelligence can be incredibly powerful in helping scientists summarize and analyze the information."

Meanwhile, the World Health Organization and the National Academies of Sciences, Engineering and Medicine have identified dozens of questions they hope the data can help them

to answer about the genetics and incubation period of the coronavirus, as well as the symptoms, prevention and treatment of the illness.

The [articles and data will now be available through the Allen Institute for AI](#), created by the late Microsoft co-founder Paul Allen, as well as Kaggle, a Google-owned platform for data scientists. The administration is encouraging researchers to [create and submit new AI tools through Kaggle](#) that can be used to identify helpful information more rapidly than humans parsing through the same mountain of articles.

"We expect this to have a catalytic effect in enhancing the efficiency with which research is done across AI, data science, but also biomedicine, epidemiology and public health," said Eric Horvitz, the chief scientific officer at Microsoft, which helped corral the articles.

Kaggle CEO Anthony Goldbloom said the site counts 4.3 million members, including employees from firms like IBM, Amazon, Microsoft and Google, as well as independent researchers. Those researchers whose tools most meet the needs of medical researchers are eligible for a \$1,000 prize.

"It's often very hard to know where the great ideas are going to come from, but by launching so broadly we leave open the opportunity for advancements to come from both expected corners but also unexpected corners" of the AI research community, Goldbloom told reporters Monday.

U.S. Deputy Chief Technology Officer Lynne Parker said the initiative came together over the past week. The Georgetown University's Center for Security and Emerging Technology was tapped to spearhead the effort, which also included input from the Chan Zuckerberg Initiative, a philanthropy created by Facebook CEO Mark Zuckerberg and his wife Priscilla Chan, and the National Library of Medicine at the National Institutes of Health.

*To view online:*

<https://subscriber.politicopro.com/ehealth/article/2020/03/white-house-issues-call-to-action-for-tech-industry-to-crunch-coronavirus-data-1895644>

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This email was sent to (b)(6) by:  
POLITICO, LLC  
1000 Wilson Blvd.  
Arlington, VA 22209  
USA

# Re: [EXTERNAL] Re: COVID-19 Open Research Dataset Press Call

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**From:** Devvret Rishi (b)(6) >  
**To:** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**Cc:** Pete Voss (b)(6), Anthony Goldbloom (b)(6), Pablo Chavez (b)(6), "Kratsios, Michael J. EOP/OSTP" (b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Date:** Mon, 16 Mar 2020 12:34:35 -0400

Thank you Elena. I wanted to check-in if that dial-in is intended only for the speakers from each organization, or if it's fine to have a few of the team members also present.

Best,  
Dev

On Sun, Mar 15, 2020 at 6:42 PM Hernandez, Elena R. EOP/OSTP (b)(6) > wrote:

Good evening,

Tomorrow's call is now changed to **2:30PM EST** with a pre-call happening at 2:15pm. Apologies for any inconvenience.

I will send new dial-ins in the morning. Thank you

---

**From:** Hernandez, Elena R. EOP/OSTP  
**Sent:** Sunday, March 15, 2020 7:50 PM  
**To:** 'Pete Voss' (b)(6)  
**Cc:** Anthony Goldbloom (b)(6); Pablo Chavez (b)(6) >; Devvret Rishi (b)(6); Kratsios, Michael J. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** RE: [EXTERNAL] Re: COVID-19 Open Research Dataset Press Call

Hi all, just flagging for you the dial-in information for tomorrow. Thanks!

**1:45pm EST – Pre-Call with Michael Kratsios and fellow speakers**

Participant Dial-In: (b)(6)

Participant Code: (b)(6)

2:00pm EST – Briefing with Media

Participant Dial-In: (b)(6)

Participant Code: (b)(6)

**From:** Pete Voss (b)(6) >  
**Sent:** Sunday, March 15, 2020 12:09 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Cc:** Anthony Goldbloom <(b)(6)> Pablo Chavez (b)(6)  
Devvret Rishi (b)(6) >; Kratsios, Michael J. EOP/OSTP  
(b)(6) Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** Re: [EXTERNAL] Re: COVID-19 Open Research Dataset Press Call

Thank you, Elena. I'm adding [+Pablo Chavez](#) from our Google Cloud policy team for visibility.

We would like to include the fact that Kaggle is owned by Google Cloud. Can we make the below edit to the Kaggle mention in the press release?

*"Through Kaggle, a machine learning and data science community owned by Google Cloud, these tools will be openly available for all researchers, including the medical research community."*

On Sun, Mar 15, 2020 at 8:25 AM Hernandez, Elena R. EOP/OSTP (b)(6) wrote:

Good morning Kaggle team – here's the latest version of the press release tomorrow. We are only waiting on a quote from Georgetown. Will be sure to let you know once we finalize. Thanks!

**From:** Anthony Goldbloom (b)(6) >  
**Sent:** Saturday, March 14, 2020 11:39 PM  
**To:** Devvret Rishi <(b)(6)>  
**Cc:** Hernandez, Elena R. EOP/OSTP (b)(6) Kratsios, Michael J.  
EOP/OSTP <(b)(6)> Parker, Lynne E. EOP/OSTP

(b)(6); Pete Voss (b)(6)  
**Subject:** Re: [EXTERNAL] Re: COVID-19 Open Research Dataset Press Call

Elena, some small changes to my quote.

"It's difficult for people to manually go through more than 20,000 articles and synthesize their findings. Recent advances in technology can be helpful here. We're putting machine readable versions of these articles in front of our community of more than 4 million data scientists. Our hope is that AI can be used to help find answers to a key set of questions about COVID-19."

Also adding Pete from Google's comms team.

Anthony

On Sat, Mar 14, 2020 at 3:50 PM Devvret Rishi (b)(6) wrote:

Thank you Elena, Michael, and Lynne – really looking forward to this launch.

The URL for the dataset and challenges which will be made public on Monday at 2pm EST is: >><https://www.kaggle.com/allen-institute-for-ai/CORD-19-research-challenge><<<. We may make a short URL version of this before launch on Monday, in which case I will also circulate that with you asap.

In case you're interested, you can view a staging (not for public release) version of the dataset here and the list of the tasks here. We're reviewing these iteratively with Lynne.

Best,

Dev

On Sat, Mar 14, 2020 at 3:38 PM Anthony Goldbloom <(b)(6)> wrote:

Elena, adding dev from our team. He can share the URLs with you (to replace the placeholders in the current press release).

On Sat, Mar 14, 2020, 11:04 AM Hernandez, Elena R. EOP/OSTP <(b)(6)> wrote:

That's perfect, thanks Anthony for the quick turnaround! We are planning for 2pm on Monday for the call.

Will be back in touch soon with more details on the call and the latest version of the press release for your awareness, but let us know if you have any questions in the meantime. I can also be reached at (b)(6)

Elena

Elena Hernandez

Press Secretary

Office of Science and Technology Policy

The White House

Desk: (b)(6) | Mobile: (b)(6)

(b)(6)

**From:** Anthony Goldbloom (b)(6)  
**Sent:** Saturday, March 14, 2020 1:56 PM  
**To:** Kratsios, Michael J. EOP/OSTP <(b)(6)>  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6) Hernandez, Elena R. EOP/OSTP <(b)(6)>  
**Subject:** [EXTERNAL] Re: COVID-19 Open Research Dataset Press Call

Michael for sure.

Lynne and Elena, as far as quotes are concerned, does this work? I'd plan to say something similar on the teleconference.

"It's difficult for humans to manually go through 24K+ articles and synthesize their findings. Recent advances in the ability of machines to process natural language mean that AI might be helpful here. We're putting this dataset up in front of our community of 4.3MM data scientists in the hope that the world's AI community can help find answers to a key set of questions about COVID-19."

Anthony

On Sat, Mar 14, 2020 at 8:36 AM Kratsios, Michael J. EOP/OSTP

<(b)(6)> wrote:

Hi Anthony,

We are so grateful for the work by your team to prepare the dataset and tasks for Monday. Having it up on your platform will make a really big difference.

To issue our call to action and raise awareness across both the public and the scientific community, the we are hosting a media briefing call on Monday and putting out a press release. I plan to give brief remarks and would love to have you dial-in and speak for a minute or two as well on kaggle's roll in this effort. Please let us know if you can join.

Attached is a the draft press release and the comms plan. If you'd like to include a quote, feel free to send it to Lynne and Elena (cced) who are running point on the Monday roll-out.

Thanks again for all your help!

Best,

Michael

Michael Kratsios  
Deputy Assistant to the President  
Chief Technology Officer of the United States  
The White House  
o: (b)(6)

--

**Pete Voss**

(b)(6)  
Communications Lead, AI/ML  
P (b)(6)

## [EXTERNAL] Re: COVID-19 Tech Response | Call tomorrow?

**From:** Payton Iheme (b)(6)

**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6) >, "Parker, Lynne E. EOP/OSTP" <(b)(6)>

**Cc:** "Fred Humphries (CELA)" (b)(6) Portia Wu (b)(6), Johanna Shelton (b)(6) >, (b)(6) Monika Bickert (b)(6), (b)(6) Lee Carosi Dunn <(b)(6)>, Lauren Culbertson (b)(6)

**Date:** Mon, 16 Mar 2020 19:04:55 -0400

**Attachment s:** V2-10[4].png (175.95 kB)

Good evening Michael,

Thank you for the call today.

We appreciate the clarity you provided for priority health messages. We will take that guidance and work within our individual companies on next steps.

We also wanted to share our statement focused on our efforts to support the COVID-19 response. We plan to release our joint statement this evening.

*"We are working closely together on COVID-19 response efforts. We're helping millions of people stay connected while also jointly combating fraud and misinformation about the virus, elevating authoritative content on our platforms, and sharing critical updates in coordination with government healthcare agencies around the world. We invite other companies to join us as we work to keep our communities healthy and safe." -Attribution to: Joint Industry Statement from Facebook, Google, LinkedIn, Microsoft, Reddit, Twitter and YouTube."*

Lastly, we send our thanks to you and your team for the focus on this difficult issue.

Best,

Payton

**FACEBOOK**

Payton Iheme  
U.S. Public Policy  
[Facebook](#)

---

**From:** "Kratsios, Michael J. EOP/OSTP" <(b)(6)>  
**Date:** Sunday, March 15, 2020 at 9:35 PM  
**To:** (b)(6) Monika Bickert  
(b)(6)  
(b)(6)  
**Cc:** "Fred Humphries (CELA)" (b)(6), Portia Wu  
<(b)(6)>, Payton IHEME (b)(6) Johanna Shelton  
(b)(6) Lee Carosi Dunn (b)(6)>, Lauren Culbertson  
(b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6) >  
**Subject:** RE: COVID-19 Tech Response | Call tomorrow?

Hi All – no one knows better than the tech community how fluid these time can be! I want to reset the agenda for tomorrow and focus the call on actions platforms are taking to pro-actively push the most accurate information from CDC and WHO. Additionally, as the Vice President announced this afternoon, nationwide test will be rolling out in the coming week. Platforms will be critical for getting the word out and helping send folks to the right places. We can also discuss any ideas you may have on directing people to the official channels.

Sincerest thanks!  
Michael

---

**From:** Kratsios, Michael J. EOP/OSTP  
**Sent:** Saturday, March 14, 2020 6:03 PM  
**To:** (b)(6)  
(b)(6)  
**Cc:** Fred Humphries (CELA) (b)(6) Portia Wu (b)(6) Payton  
IHEME (b)(6) Johanna Shelton (b)(6); Lee Carosi Dunn  
(b)(6); Lauren Culbertson (b)(6); Parker, Lynne E. EOP/OSTP  
(b)(6)  
**Subject:** RE: COVID-19 Tech Response | Call tomorrow?

Hi All – wanted to follow-up on our call. Can we set up a time for Monday to reconvene and get an update on your current thinking?

Say, 4pm?

Thanks,  
Michael

---

**From:** Kratsios, Michael J. EOP/OSTP  
**Sent:** Wednesday, March 11, 2020 6:16 PM  
(b)(6)  
(b)(6)  
**Cc:** 'Fred Humphries (CELA)' (b)(6); Portia Wu (b)(6)

Payton Itheme (b)(6); 'Johanna Shelton' (b)(6) Lee Carosi Dunn  
(b)(6) 'Lauren Culbertson' (b)(6) Parker, Lynne E. EOP/OSTP  
(b)(6)

**Subject:** COVID-19 Tech Response | Call tomorrow?

Hi Courtney, Monika, Nick, Leslie, and Tyler,

At today's White House COVID-19 Tech Meeting (see attached for the readout), one of the important work streams we identified is for better coordination to address COVID-19 misinformation on online platforms.

One industry collaboration model that might be useful is GIFCT, which you are all familiar with. I think you all could provide great insight into workable cross-industry mechanisms to facilitate information sharing, and to help us set up something similar for COVID-19. And do so very quickly.

**Are you available for a short call tomorrow, say noon eastern?** We'd greatly appreciate leveraging your expertise on this challenge.

Many thanks,  
Michael

Michael Kratsios  
Deputy Assistant to the President  
Chief Technology Officer of the United States  
The White House  
o: (b)(6)

We are working closely together on COVID-19 response efforts. We're helping millions of people stay connected while also jointly combating fraud and misinformation about the virus, elevating authoritative content on our platforms, and sharing critical updates in coordination with government healthcare agencies around the world. We invite other companies to join us as we work to keep our communities healthy and safe.

FACEBOOK      

Joint Industry Statement from Facebook, Google, LinkedIn, Microsoft, Reddit, Twitter and YouTube

## RE: [EXTERNAL] Re: Thank You for Attending White House COVID-19 Tech Meeting

---

**From :** "Kratsios, Michael J. EOP/OSTP" (b)(6)  
**To:** Christopher Padilla (b)(6) "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Cc:** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**Date:** Mon, 16 Mar 2020 09:24:53 -0400

Hi Chris – thanks for reaching out. Yesterday's call was misreported – it was not a WH led meeting. We phoned in to a call that had been set up organically by some private sector folks. Lynne can connect you with the group who are self-organizing some COVID tech efforts.

Thanks again for all your help!  
Michael

**From:** Christopher Padilla (b)(6)  
**Sent:** Monday, March 16, 2020 9:09 AM  
**To:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Cc:** Hernandez, Elena R. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6); Kratsios, Michael J. EOP/OSTP (b)(6)  
**Subject:** [EXTERNAL] Re: Thank You for Attending White House COVID-19 Tech Meeting

Last Wednesday there was talk of another call on Monday, but I saw in WSJ there may have been one yesterday. Is there any update?

Thanks,  
Chris

Christopher Padilla  
Vice President, Government & Regulatory Affairs  
IBM Corporation

----- Original message -----

**From:** "Parker, Lynne E. EOP/OSTP" (b)(6)  
**To:** "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Cc:** "Kratsios, Michael J. EOP/OSTP" (b)(6), Elena R. EOP/OSTP (b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Subject:** [EXTERNAL] Thank You for Attending White House COVID-19 Tech Meeting  
**Date:** Wed, Mar 11, 2020 16:59

Good Afternoon,

Thank you very much for being a part of today's COVID-19 Tech Meeting with The White House. We are appreciative for your expertise and collaboration. We are reaching out separately to entities who will be leading some of the next steps based on today's discussion. We will be connecting with you for continued engagement on these topics very soon. Please see the attached White House press release summarizing what was accomplished today and what is yet to come.

We are grateful for your assistance in our nation's response to COVID-19.

Lynne

Lynne E. Parker, Ph.D.  
Deputy Chief Technology Officer of the United States  
The White House

(b)(6)

----- Message from "Hernandez, Elena R. EOP/OSTP" <(b)(6)> on Wed, 11 Mar 2020 16:21:15 +0000 -----

**To:** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**cc:** "Baum, Kristina R. EOP/OSTP" (b)(6) >  
**Subject** READOUT: White House Convenes Meeting with Tech Industry on COVID-19 : Response

THE WHITE HOUSE  
Office of Science and Technology Policy

FOR IMMEDIATE RELEASE

March 11, 2020

**READOUT: WHITE HOUSE CONVENES MEETING WITH TECH INDUSTRY ON COVID-19 RESPONSE**

Today, The White House Office of Science and Technology Policy convened a meeting with representatives from technology companies and Federal agencies to discuss tech-related COVID-19 response efforts and opportunities for collaboration.

During the meeting, U.S. Chief Technology Officer Michael Kratsios previewed a new database of full-text Coronavirus-related scholarly literature to be released in the coming days and challenged the tech community to leverage technology tools, such as artificial intelligence, to help medical researchers glean scientific insights from this collection of articles.

"The White House's top priority is ensuring the safety and health of the American people amid the COVID-19 outbreak. Cutting edge technology companies and major online platforms will play a critical role in this all-hands-on-deck effort. Today's meeting outlined an initial path forward and we intend to continue this important conversation," **said Michael Kratsios, Chief Technology Officer of the United States, The White House.**

Representatives from the following technology companies and associations participated remotely via teleconference:

- Amazon
- Apple
- Cisco
- Consumer Technology Association
- Facebook

- Google
- IBM
- Information Technology Industry Council
- Microsoft
- Software & Information Industry Association
- TechNet
- Twitter

Representatives from the following Federal agencies participated in-person or remotely via teleconference:

- Department of Health and Human Services
- Centers for Medicare and Medicaid Services
- Office of the Surgeon General
- National Institutes of Health
- Department of Labor
- Department of State
- Department of Veterans Affairs
- Department of Education

Topics discussed at the meeting include:

- Increased coordination between Federal agencies and technology companies to improve official information sharing.
- Increased coordination among online platforms to identify best practices to root out COVID-19 misinformation.
- Creation of new technology tools, such as artificial intelligence, to make it easier for medical researchers to review Coronavirus-related research publications for scientific insights.
- Increased coordination among tech community efforts related to remote work, online education tools, and telehealth.

For more information about the Coronavirus, please visit: <https://www.cdc.gov/coronavirus>

###

## RE: [EXTERNAL] Follow up

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**From:** "Wilson, Matt B. EOP/OSTP" (b)(6)  
**To:** "Hernandez, Elena R. EOP/OSTP" (b)(6), "Baum, Kristina R. EOP/OSTP" (b)(6)  
**Cc:** "Kratsios, Michael J. EOP/OSTP" (b)(6) >, "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Date:** Tue, 17 Mar 2020 08:01:12 -0400  
**Attachments:** Tech Task Force 15Mar20 - Raw Notesv2.docx (27.78 kB)

Elena and Kristina,

If you'd like to get a better handle on this for your own background, read the two highlighted sections in the attached notes. In them, folks from the CDC and a Harvard epidemiologist explain how data can be used. It gets a bit in the weeds, but you may find it useful.

Matt

---

**From:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Sent:** Tuesday, March 17, 2020 7:56 AM  
**To:** Hernandez, Elena R. EOP/OSTP <(b)(6)> Kratsios, Michael J. EOP/OSTP (b)(6); Baum, Kristina R. EOP/OSTP (b)(6)  
Wilson, Matt B. EOP/OSTP (b)(6) >  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** RE: [EXTERNAL] Follow up

Your suggested sentence is good. If we want more specifics, we can include ideas like understanding and modeling for:

- the impact of mitigation/intervention actions (such as social distancing, telework policies, school closures) on the spread of COVID-19
- supply chain issues at a local/regional level (such as availability of masks and protective gear)
- local/regional travel patterns for better prediction of spread and transmission

---

**From:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Sent:** Tuesday, March 17, 2020 7:45 AM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6)  
Baum, Kristina R. EOP/OSTP (b)(6)  
Matt B. EOP/OSTP <(b)(6)>  
**Subject:** RE: [EXTERNAL] Follow up

Following up on my note and highlighted question below from last night! Can we say something on background like...

Insights from data can help public health officials, researchers, and scientists improve their understanding of the spread of COVID19 and transmission of the disease.

---

**From:** Hernandez, Elena R. EOP/OSTP  
**Sent:** Monday, March 16, 2020 9:59 PM  
**To:** Michael J. EOP/OSTP Kratsios (b)(6); Parker, Lynne E. EOP/OSTP (b)(6); Kristina R. EOP/OSTP Baum (b)(6); Wilson, Matt B. EOP/OSTP (b)(6)  
**Subject:** FW: [EXTERNAL] Follow up

Update for everyone, WaPo is holding off on running anything tonight and he's going to circle back with me in the morning. I told him off record that the ideas discussed in the meeting regarding the use of geolocation were certainly interesting and we're glad to see companies engaging like this but the proposals were in no way final form. The companies themselves voiced concerns on their end about privacy and violating platform terms.

He walked back several things and so now basically the headline is: The White House is talking with tech companies about ways to utilize aggregate personal data in COVID9 efforts.

I'm totally fine with this.

The only other question he had for me was what are some aspirational uses of data that would be useful in response efforts – **Matt/Lynne can you send me a couple of good ones before 10am tomorrow?**

Thank you all!

---

**From:** Romm, Tony (b)(6)  
**Sent:** Monday, March 16, 2020 9:35 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Cc:** Baum, Kristina R. EOP/OSTP (b)(6)  
**Subject:** Re: [EXTERNAL] Follow up

Thanks. Can you hop on the phone one last time because I do want to make sure I'm describing things accurately. (This makes it seem like the government isn't planning to use the data, which I think is the whole point -- to help you guys.) Thanks again

Tony Romm  
Tech policy reporter  
The Washington Post

(b)(6)

(b)(6)

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**From:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Sent:** Monday, March 16, 2020 9:33 PM  
**To:** Romm, Tony (b)(6) >  
**Cc:** Baum, Kristina R. EOP/OSTP (b)(6)  
**Subject:** RE: [EXTERNAL] Follow up

Sorry for the delay – here you go:

Attributable to an OSTP official: We're encouraged by American technology companies looking to leverage aggregate, anonymized data to glean key insights for COVID-19 modeling efforts. We are continuing to engage with a wide variety of companies and industry associations as part of our whole-of-America response.

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**From:** Romm, Tony (b)(6)  
**Sent:** Monday, March 16, 2020 9:04 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** Re: [EXTERNAL] Follow up

Hola, checking back in, thanks a ton

Tony Romm  
Tech policy reporter  
The Washington Post  
tony.romm@washpost.com  
(b)(6)

---

**From:** Romm, Tony (b)(6) >  
**Sent:** Monday, March 16, 2020 7:57 PM  
**To:** Hernandez, Elena R. EOP/OSTP <(b)(6)>  
**Subject:** Re: [EXTERNAL] Follow up

Just in advance, how would we attribute this? SAO? Something else? Thanks much.

Tony Romm  
Tech policy reporter  
The Washington Post  
tony.romm@washpost.com  
(b)(6)

---

**From:** Hernandez, Elena R. EOP/OSTP (b)(6) >  
**Sent:** Monday, March 16, 2020 7:56 PM  
**To:** Romm, Tony <(b)(6)>  
**Subject:** Re: [EXTERNAL] Follow up

**CAUTION: EXTERNAL SENDER**

I'll be able to send you some written comment on background in next hour

On Mar 16, 2020, at 7:45 PM, Romm, Tony <(b)(6)> wrote:

Hey -- this is coming together quickly. Reaching back out as promised. Any chance we can connect? Thanks.

Tony Romm  
Tech policy reporter  
The Washington Post  
tony.romm@washpost.com  
(b)(6)

## RE: Deets on this taskforce

---

**From :** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**To:** "Torres, Alec C. EOP/OSTP" (b)(6) "Kratsios, Michael J. EOP/OSTP" (b)(6)  
**Date:** Wed, 18 Mar 2020 13:01:44 -0400

Alec, can the three of us jump on the phone once the press conference wraps up?

Here's something for you to react to (pulled from the online ed press release)

Last week, as part the White House Office of Science and Technology Policy's **COVID-19 technology initiative**, American technology companies were called on to make online learning resources more accessible for teachers, parents, and students as more Americans are encouraged to stay home amid the COVID-19 outbreak.

Today, the technology industry rose to the occasion with the launch of **TechforLearners.org**, a new resource for educators, administrators, and public officials who are turning to online learning as coronavirus response disrupts the school year.

---

**From:** Torres, Alec C. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 11:37 AM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6) >  
**Cc:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** Re: Deets on this taskforce

I'll be watching the press conference when that starts but happy to talk after that.

Also, whatever branding is chosen, maybe push that out when the next story breaks on online education and we can use it in our docs to establish it. Then it will be more likely to be reinforced by POTUS not as a task force if he ends up mentioning it

Sent from my iPhone

On Mar 18, 2020, at 11:33, Kratsios, Michael J. EOP/OSTP <(b)(6)> wrote:

Good point. Elena, thoughts here? I can give you a ring right after my call.

---

**From:** Torres, Alec C. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 11:32 AM

**To:** Kratsios, Michael J. EOP/OSTP <(b)(6)>; Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** RE: Deets on this taskforce

I don't want to freelance here—what do we want to name our efforts? Right now it's in our master doc using the news reports terminology. Let me know what you want it to say as at some point this may stop being used for internal use and be circulated. Also, let me know if you have a more specific start date for this. Here's our current text:

- In March, White House OSTP joined with Facebook, Google, Microsoft, Amazon and others to create a Technology & Research Task Force to combat the virus and help develop new services including telehealth, online education, and remote working.

*-This email is a deliberative email-*

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**From:** Kratsios, Michael J. EOP/OSTP (b)(6) >  
**Sent:** Wednesday, March 18, 2020 11:25 AM  
**To:** Torres, Alec C. EOP/OSTP (b)(6); Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** RE: Deets on this taskforce

A group of tech companies have self organized and call themselves the "Corona Tech Task Force". We don't want to be officially endorsing their efforts. Prefer not to use that name...

---

**From:** Torres, Alec C. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 11:22 AM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** RE: Deets on this taskforce

Thanks! Please keep me updated on major developments in case I miss things. We're tracking a lot right now, so like drinking from a firehose.

Also, how badly do you not want to call this tech group a "Task Force"? I don't think it's bad to have a name and it's better to have something explicit to refer to.

*-This email is a deliberative email-*

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 11:20 AM  
**To:** Hernandez, Elena R. EOP/OSTP <(b)(6)> Torres, Alec C. EOP/OSTP (b)(6)  
**Subject:** RE: Deets on this taskforce

This is great for now. More to come!

---

**From:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 11:19 AM  
**To:** Torres, Alec C. EOP/OSTP (b)(6); Kratsios, Michael J. EOP/OSTP (b)(6)  
**Subject:** RE: Deets on this taskforce

Hi all, per my conversation with Alec yesterday, here are bullet points summing up our tech/COVID-19 efforts that Michael is leading. MK, thoughts?

- As part of the whole-of-America response to COVID-19, the White House is engaging with American technology companies to better coordinate CDC information-sharing across platforms, make accessible online education and telehealth resources, and leverage technology tools to assist in overall national response efforts.
- The White House worked with tech industry leaders to release the most extensive machine readable collection to date of 29,000 coronavirus-related research articles and called on the tech community to develop AI technologies that help scientists summarize and analyze the articles.

---

**From:** Torres, Alec C. EOP/OSTP (b)(6)  
**Sent:** Tuesday, March 17, 2020 4:42 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** Deets on this taskforce

Hey team, can you give me some info on this task force? In writing or on phone works for me. Vince asked about it in particular

<https://www.wsj.com/articles/silicon-valley-ramps-up-efforts-to-tackle-virus-11584313224>

*-This email is a deliberative email-*

## RE: EU COVID-19 data modeling

---

**From :** "Taylor, Jake M. EOP/OSTP" (b)(6)  
"Kratsios, Michael J. EOP/OSTP" (b)(6) "Kjelland, Christin C. EOP/OSTP" (b)(6) "Droegemeier, Kelvin K. EOP/OSTP" (b)(6), "Watson, Ian D. EOP/OSTP" (b)(6), "Waterman, Paige E. EOP/OSTP" (b)(6), "Bonyun, Sean C. EOP/OSTP" (b)(6), "Casey, Winter EOP/OSTP" (b)(6), "Wilson, Matt B. EOP/OSTP" (b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6), "Nichols, Lisa M. EOP/OSTP" (b)(6)  
**To:**  
**Date:** Wed, 18 Mar 2020 12:56:46 -0400

Thank you for the heads up. State also got in touch directly, and I'll be working with Christin to help identify POCs on the modelling side.

Best,  
Jake

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**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 11:42 AM  
**To:** Kjelland, Christin C. EOP/OSTP (b)(6); Droegemeier, Kelvin K. EOP/OSTP (b)(6); Watson, Ian D. EOP/OSTP (b)(6); Waterman, Paige E. EOP/OSTP (b)(6); Bonyun, Sean C. EOP/OSTP (b)(6); Casey, Winter EOP/OSTP (b)(6); Wilson, Matt B. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6); Nichols, Lisa M. EOP/OSTP (b)(6); Taylor, Jake M. EOP/OSTP (b)(6) >  
**Subject:** RE: EU COVID-19 data modeling

Thanks

FYSA, Jake see below.

As mentioned on our 6pm last night, Jake is leading an effort for the tech team on building a web site to match supercomputing capacity nationwide (private sector and fed capacity) with priority projects, which is related, but different than the below. (No necessarily modeling related.)

---

**From:** Kjelland, Christin C. EOP/OSTP <(b)(6)>  
**Sent:** Wednesday, March 18, 2020 11:35 AM  
**To:** Droegemeier, Kelvin K. EOP/OSTP (b)(6); Watson, Ian D. EOP/OSTP (b)(6); Waterman, Paige E. EOP/OSTP (b)(6); Bonyun, Sean C. EOP/OSTP <(b)(6)>; Casey, Winter EOP/OSTP (b)(6); Wilson, Matt B. EOP/OSTP (b)(6)

Kratsios, Michael J. EOP/OSTP <(b)(6)>; Parker, Lynne E. EOP/OSTP  
(b)(6); Nichols, Lisa M. EOP/OSTP (b)(6) >  
**Subject:** EU COVID-19 data modeling

Hi Kelvin, All,

A note below that State DAS Strayer had a call with EU DG Connect, where **modeling coordination for COVID-19** came up. EU is working with Google and others to form a “coalition of the willing” of super computing power to build a model of disease spread and hospital capacity. Wanted to flag this for you given our discussions with the Science Advisors. Given what I know about EU laws re: data privacy, I’d think this might be a challenge for the – but it looks like they are working on ways to access the data.

Best,  
Christin

**(SBU) COVID-19:** DG Connect has taken a leading role in modeling the spread of COVID-19 in the European Union. They are building a "coalition of the willing" of super computing power to build a model of disease spread, as well as hospital capacity. DG Viola said that Google has already signed on to help, and he expects IBM to sign on soon as well. He asked for a contact inside the USG to coordinate on building out their model. He also noted that DG Connect is working on finding legal ways to gather necessary data, like the locations of people, without violating privacy rules. As this model produces insights, they will be expanding this coalition of the willing to include biologists. State is identifying contacts at CDC and the Department of Energy to follow up on this request.

## RE: WSJ

---

**From:** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6), "Parker, Lynne E. EOP/OSTP" <(b)(6)> "Taylor, Jake M. EOP/OSTP" (b)(6)  
**Cc:** "Baum, Kristina R. EOP/OSTP" (b)(6)  
**Date:** Thu, 19 Mar 2020 14:30:52 -0400

I think we will not be able to confirm the other tech companies until tomorrow. Also I think we should give IBM and DOE the shoutout for being founding partners and everybody else joined.

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 2:29 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6); Taylor, Jake M. EOP/OSTP (b)(6)  
**Cc:** Baum, Kristina R. EOP/OSTP (b)(6)  
**Subject:** RE: WSJ

Id add the other folks....jake, thoughts?

The White House Office of Science and Technology Policy will be announcing the launch of the COVID-19 High Performance Computing Consortium to provide COVID-19 researchers worldwide with access to high performance computing resources that can significantly advance the pace of scientific discovery in the fight to stop the virus. Founding Partners include the U.S. Department of Energy National Labs, NASA, the National Science Foundation, IBM, Google, Amazon, Microsoft, and MIT. Researchers will be able to submit COVID-19 related research projects and proposals to the consortium to be quickly matched with HPC computing resources.

---

**From:** Hernandez, Elena R. EOP/OSTP <(b)(6)>  
**Sent:** Thursday, March 19, 2020 2:22 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6); Taylor, Jake M. EOP/OSTP (b)(6)  
**Cc:** Baum, Kristina R. EOP/OSTP (b)(6)  
**Subject:** WSJ

Had a good call with WSJ and Sara is interested in writing. She needs a short blurb to share with her editors for the go-ahead – thoughts on this?

The White House Office of Science and Technology Policy will be announcing the launch of the COVID-19 High Performance Computing Consortium, convened in partnership with IBM and U.S. Department of Energy National Labs, to provide COVID-19 researchers worldwide with access to high performance computing resources that can significantly advance the pace of scientific

discovery in the fight to stop the virus. Researchers will be able to submit COVID-19 related research projects and proposals to the consortium to be quickly matched with HPC computing resources.

Elena Hernandez  
Press Secretary  
Office of Science and Technology Policy  
The White House  
Desk: (b)(6) | Mobile: (b)(6)  
(b)(6)

# RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

---

**From:** "Calcagno, Drew A. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6) "Klein, Ethan A. EOP/OSTP" (b)(6)  
**Cc:** "Parker, Lynne E. EOP/OSTP" (b)(6) "Hernandez, Elena R. EOP/OSTP" (b)(6), "Watson, Greg A. EOP/OSTP" (b)(6)  
**Date:** Thu, 19 Mar 2020 13:21:43 -0400  
**Attachments:** Online Information for COVID-19 (Ethan Doc).docx (15.01 kB)  
+ attachment

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**From:** Calcagno, Drew A. EOP/OSTP  
**Sent:** Thursday, March 19, 2020 1:21 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6) Klein, Ethan A. EOP/OSTP (b)(6)  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6) Hernandez, Elena R. EOP/OSTP <(b)(6)>; Watson, Greg A. EOP/OSTP <(b)(6)>  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Michael,

Here's the document.

Drew

---

Drew Xander Calcagno  
Policy Advisor, Artificial Intelligence  
Office of Science and Technology Policy  
The White House

(b)(6)

(O)(b)(6)

(M)(b)(6)

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 1:01 PM  
**To:** Calcagno, Drew A. EOP/OSTP (b)(6) Klein, Ethan A. EOP/OSTP (b)(6) >  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6); Hernandez, Elena R. EOP/OSTP

(b)(6) Watson, Greg A. EOP/OSTP (b)(6)  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Thank you!

---

**From:** Calcagno, Drew A. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 1:01 PM  
**To:** Kratsios, Michael J. EOP/OSTP <(b)(6)> Klein, Ethan A. EOP/OSTP <(b)(6)>  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6) Hernandez, Elena R. EOP/OSTP (b)(6); Watson, Greg A. EOP/OSTP (b)(6) >  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Michael,

I'll have this written and back to you momentarily.

Drew

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 12:59 PM  
**To:** Klein, Ethan A. EOP/OSTP (b)(6)  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6) Hernandez, Elena R. EOP/OSTP (b)(6); Calcagno, Drew A. EOP/OSTP (b)(6)  
Watson, Greg A. EOP/OSTP (b)(6)  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Thank you Ethan!

Drew or Greg can one of you guys type up the attached memo and letter. Ethan is having connectivity issues and cant email from him laptop.

Lynne/elena/ethan we can discuss how best to proceed. Tomorrow may be a stretch. We can think this through for a Monday announcement assuming the jared site is up and running?

---

**From:** Klein, Ethan A. EOP/OSTP <(b)(6)>  
**Sent:** Thursday, March 19, 2020 12:47 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Subject:** Re: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Good afternoon, Michael -

Please see below for a draft/deliberative version of a blog post and community letter regarding the new schema.org COVID-19 vocabulary. I believe several actions should be taken on this topic:

1. Issue guidance to all executive departments/agencies to appropriately mark up COVID-19 related websites with the new schema.org standard. (USCTO/OFCIO)

2. Issue letter(s?) to private sector (e.g. CVS, Walgreens, Walmart, etc.) CIOs and public (i.e. State/local) governments to incorporate the new schema.org standard in web notices regarding COVID-19 testing facility locations and public COVID-19 notices. (USCTO/OFCIO)

3. Task the CDC with maintaining a list of verified testing locations and possibly USDS with creating an ArcGIS like tool to visualize their locations. (CDC/USDS)

4. Task NITRD to develop instructions (with examples) in coordination with schema.org to demonstrate how to incorporate the schema into websites - two versions, one for websites already including schema information, and one version for first-timers. (NITRD)

Happy to discuss by phone or email today.

Very Respectfully,  
Ethan

Sent from my iPhone

On Mar 18, 2020, at 18:42, Kratsios, Michael J. EOP/OSTP  
(b)(6) > wrote:

<http://blog.schema.org/2020/03/schema-for-coronavirus-special.html>

Michael Kratsios  
The White House  
m:(b)(6)

Begin forwarded message:

**From:** "Kratsios, Michael J. EOP/OSTP" (b)(6)  
**Date:** March 18, 2020 at 9:06:00 AM EDT  
**To:** "Parker, Lynne E. EOP/OSTP" (b)(6) "Wilson, Matt B. EOP/OSTP" (b)(6)  
**Cc:** "Hernandez, Elena R. EOP/OSTP" (b)(6) >  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

It was more about a back door way of creating a data base of testing sites.

Idea:

We make clear to all providers of testing what tags to place in the html of their sites so that their information can be rapidly discoverable without necessarily building a central database.

- 1) Encourage all organizations maintaining websites to markup COVID-related information per the specifications of the schema.
- 2) Designate someone coordinating the response (CDC, CMS?) to maintain a "white list" of URLs that have been marked up.
- 3) Enable API-access to marked up pages that have been white listed, perhaps by zip code or some other filter, to surface available testing options (drive thru, provider office, etc.).

---

**From:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 9:02 AM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Wilson, Matt B. EOP/OSTP (b)(6) >  
**Cc:** Hernandez, Elena R. EOP/OSTP <(b)(6)>; Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

I was thinking that an issue he (or someone) had raised is that the USG resources (such as on CDC.gov) are not popping up in standard web searches. So, he was hoping that we (USG) would do a better job tagging our websites.

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 8:59 AM  
**To:** Parker, Lynne E. EOP/OSTP (b)(6); Wilson, Matt B. EOP/OSTP (b)(6) >  
**Cc:** Hernandez, Elena R. EOP/OSTP (b)(6) >  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Hmm...maybe we could post it on the CIO.gov website and then point all folks to that.

Goal in theory is to get everyone outside of gov who is positing info on testing sites to see it and tag it right. We can keep thinking.

---

**From:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 8:47 AM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Wilson, Matt B. EOP/OSTP (b)(6)  
**Cc:** Hernandez, Elena R. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** RE: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

NITRD could do that, but I doubt the right folks would see it. I think it needs to go to the IT folks at the agencies. Maybe have Suzette distribute it to the agency CIOs?

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 18, 2020 8:41 AM  
**To:** Parker, Lynne E. EOP/OSTP (b)(6); Wilson, Matt B. EOP/OSTP (b)(6)  
**Cc:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** FW: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Thoughts on asking NITRD to put up the instructions?

**From:** Aneesh Chopra (b)(6)  
**Sent:** Tuesday, March 17, 2020 11:30 AM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Cc:** Sartin, Shannon (CMS/OA) (b)(6); Robison, Nicholas A. EOP/OMB (b)(6); Braun, Paula A. (CDC/OPHSS/OD) (b)(6)  
**Subject:** Re: [External email] RE: [EXTERNAL] Re: Schema.org COVID Updates

Michael,

Congratulations on the Kaggle challenge! Amidst all of the work you are doing, I wonder if either you might wish to post instructions on how to tag websites with the open [schema.org](https://schema.org) markup, or work with either Google/Bing on taking in the data feed as you look to curate trusted information on [coronavirus.gov](https://coronavirus.gov)?

A quick reminder - here is the instructions pages we created on the veterans job bank:

>[https://web.archive.org/web/20120928074555/https://www.nrd.gov/home/instructions\\_for\\_employer\\_participation/instructions\\_for\\_tagging\\_your\\_jobs](https://web.archive.org/web/20120928074555/https://www.nrd.gov/home/instructions_for_employer_participation/instructions_for_tagging_your_jobs)<

>[https://web.archive.org/web/20120928003221/https://nrd.gov/home/instructions\\_for\\_employer\\_participation](https://web.archive.org/web/20120928003221/https://nrd.gov/home/instructions_for_employer_participation)<

I'm trying to get the private sector to work on a shared set of instructions but, of course, nothing beats a "source of truth" driving these sorts of actions :).

Regards,  
**Aneesh Chopra**  
President  
(b)(6) [CareJourney.com](https://www.CareJourney.com)

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On Tue, Mar 17, 2020 at 8:17 AM Kratsios, Michael J. EOP/OSTP

(b)(6) > wrote:

Great work guys!

**From:** Guha (b)(6)

**Sent:** Monday, March 16, 2020 11:50 PM

**To:** Aneesh Chopra (b)(6)

**Cc:** Kratsios, Michael J. EOP/OSTP (b)(6) David Feinberg

(b)(6) Karen DeSalvo (b)(6)

**Subject:** [EXTERNAL] Re: Schema.org COVID Updates

>><http://blog.schema.org/2020/03/schema-for-coronavirus-special.html><<;

Thank you Aneesh for pushing us to do this fast and right!

guha

On Sat, Mar 14, 2020 at 11:00 AM Aneesh Chopra (b)(6)

wrote:

Michael,

Per our chat, I'm writing to connect you with Guha @ Google (+David/Karen) on the status of the schema.org standard for marking up web pages with up to date COVID information.

Attached is the DRAFT update that might be ready as early as Monday. In my ideal world, we do the following:

- 1) encourage all organizations maintaining websites to markup COVID-related information per the specifications.
- 2) designate (CMS? CDC?) someone coordinating the response to maintain a "white list" of URLs that have been marked up.
- 3) enable API-access to marked up pages, perhaps by zip code or some other filter, to surface available testing options (drive thru, provider office, etc.).

Guha, please connect with Michael and his CTO Team at his convenience.

Regards,

**Aneesh Chopra**

President

(b)(6) | CareJourney.com

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## **Attachment A: Blog Post / Communications Announcement**

### *Increasing Visibility of Online Information Related to COVID-19*

On Monday, March 16, Schema.org released a new standard for marking up webpages with up-to-date COVID-19 information. Today, in an effort to enhance the visibility of online data about COVID-19 for public benefit, The White House Office of Science and Technology Policy is communicating guidance to Federal CIOs to incorporate this standard into all federally maintained webpages containing information related to COVID-19 and calls on private companies to do the same. The updated schema will allow webmasters to designate webpages that provide information about prevention measures, disease spread statistics, quarantine rules and travel bans, as well as information about getting tested. By adhering to this standard, webmasters can ensure that their information is found by search engines to better aggregate trustworthy data from around the web and response to public questions about the virus.

In order to increase adoption of this new standard, the Networking and Information Technology Research and Development (NITRD) program will work with schema.org to issue instructions for webmasters to use in marking up websites. This will include information for those sites that already use schema vocabulary and for those that will be incorporating it into their webpages for the first time. The introduction of a new COVID-19 Testing Facility type to the schema vocabulary will enable existing pharmacies and other businesses that will host testing facilities to easily add that designation. In addition, The White House will work with the Centers for Disease Control and Prevention (CDC) to maintain a listing of verified COVID-19 testing facilities identified through the schema, including up-to-date information on facility locations and hours. As this is a new update to the schema vocabulary, suggestions for improvement and feedback can be submitted at <https://github.com/schemaorg/issues/2490>.

## **Attachment B: Letter to Private Sector CIOs and State/Local Public Health Departments**

Dear Colleague,

In response to the COVID-19 outbreak, a tremendous amount of relevant information for the public benefit has been posted online. This includes best practices for disease prevention, statistical information about the disease spread, and notifications about the government response, such as quarantine rules and location data for testing facilities. In order to ensure that this information is being effectively communicated to the American public, we are asking for your help.

This week, schema.org released a new standard for marking up webpages with up-to-date COVID-19 information. This includes a new Special Announcement type which can be used to designate COVID-19 information related to the following categories.

- Disease Prevention Information
- Disease Spread Statistics
- Disease Testing Information
- News Updates and Guidelines
- Public Transport Closures Information
- Quarantine Guidelines
- School Closures Information
- Travel Bans

In addition, a new CovidTestingFacility type has been added which can be used to designate locations that will provide COVID-19 testing to the public. This type can be easily added to existing pharmacies and medical clinics listed using the previous schema.org standards. You can read more about the new schema.org vocabulary at [www.blog.schema.org/2020/03/schema-for-coronavirus-special.html](http://www.blog.schema.org/2020/03/schema-for-coronavirus-special.html).

On behalf of the Federal Government, I ask that you incorporate this new schema vocabulary into your webpages to increase site visibility and data accessibility for the American people. Earlier today, I issued guidance to all Federal Departments and Agencies providing information related to the COVID-19 outbreak to take the same action. A concerted effort across the public and private sector will help ensure that all of our citizens can find answers to their questions during a time of uncertainty.

In order to assist you, schema.org in coordination with the Networking and Information Technology Research and Development (NITRD) program will shortly be issuing instructions, with examples, to incorporate this information into your websites. As this is a new update to the schema vocabulary, suggestions for improvement and feedback can be submitted at <https://github.com/schemaorg/issues/2490>.

Respectfully,

Michael J. Kratsios

Chief Technology Officer of the United States

## HPC consortia for COVID Research

---

**From** "Kratsios, Michael J. EOP/OSTP" (b)(6)

:

**To:** Karan Bhatia (b)(6)

**Cc:** "Taylor, Jake M. EOP/OSTP" (b)(6)

**Date:** Thu, 19 Mar 2020 10:05:46 -0400

---

Hi Karan – I think you have a call with Jake from my team later this morning. We are working a new project with a pretty quick turnaround. We are trying to assemble a consortia of HPC capacity in the private sector and the national labs and create an organized mechanism to match that capacity with the most important research questions from the community. We have a few of the big tech folks participating and would love to have google cloud as well.

Many thanks for all your support.

Michael Kratsios  
Deputy Assistant to the President  
Chief Technology Officer of the United States  
The White House

o: (b)(6)

m: (b)(6)

## quick call

---

To: Eric Horvitz (b)(6)

Cc: (b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6)  
"Taylor, Jake M. EOP/OSTP" (b)(6) >

Date : Thu, 19 Mar 2020 09:43:29 -0400

---

Hi guys – do you have time for a quick call. We are working a new project with a pretty quick turnaround.

Many thanks for all your support.

Michael Kratsios  
Deputy Assistant to the President  
Chief Technology Officer of the United States  
The White House

o: (b)(6)

## Email to WH comms

---

**From :** "Hernandez, Elena R. EOP/OSTP" <(b)(6)>  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6), "Baum, Kristina R. EOP/OSTP" (b)(6)  
**Date:** Thu, 19 Mar 2020 22:24:07 -0400

---

Draft email to: Ninio, Kelly, Judd, Jess, Austin, Julia

Hi guys, I wanted to flag a couple of announcements coming down the pipeline for OSTP.

First, on Monday we will be announcing the COVID-19 High Performance Computing Consortium, a new private-public partnership with the Department of Energy, universities, and tech companies like IBM, Google, and Amazon that will give COVID-19 researchers worldwide access to high performance computing resources that can significantly advance the pace of scientific discovery in the fight to stop the virus.

We're working on a joint press release and with the WSJ on an exclusive story that is set to run Sunday night with announcement to follow Monday morning.

Second, we've been working with the Consumer Technology Association on a new one-stop-shop online database of free telehealth tools and products. FYSA we've been coordinating with HHS on this as well so they are looped in. This announcement will likely come early next week as a joint press release.

Let us know any questions!

## RE: HPC

---

**From:** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6), "Taylor, Jake M. EOP/OSTP" (b)(6)  
**Cc:** "Parker, Lynne E. EOP/OSTP" (b)(6) >  
**Date:** Thu, 19 Mar 2020 22:01:09 -0400  
**Attachments:** HPC COVID19 Consortium - OSTP (002)\_MK\_EH.docx (23.02 kB)

Updated press release attached for your review

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 8:45 PM  
**To:** Taylor, Jake M. EOP/OSTP (b)(6); Hernandez, Elena R. EOP/OSTP (b)(6)  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** RE: HPC

Works for me. Have 1030 call with Dario. Elena, lets see if paul is free them .

---

**From:** Taylor, Jake M. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 8:21 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Cc:** Kratsios, Michael J. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** Re: HPC

Works for me.

Sent from my iPhone

On Mar 19, 2020, at 8:20 PM, Hernandez, Elena R. EOP/OSTP (b)(6) > wrote:

WSJ still wants to do the interview tomorrow afternoon but will hold the embargo to Sunday night.

I'm thinking if we did it post-3pm that gives a little more time to organize our plans/messaging in the morning?

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Thursday, March 19, 2020 7:27 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6); Parker, Lynne E. EOP/OSTP

(b)(6); Taylor, Jake M. EOP/OSTP (b)(6)

**Subject:** RE: HPC

(b) (5)

---

**From:** Hernandez, Elena R. EOP/OSTP <(b)(6)>

**Sent:** Thursday, March 19, 2020 7:25 PM

**To:** Kratsios, Michael J. EOP/OSTP <(b)(6)> Parker, Lynne E. EOP/OSTP

(b)(6) Taylor, Jake M. EOP/OSTP (b)(6)

**Subject:** HPC

I reached out to the Journal and let the comms teams at IBM and DOE know the new plan. Jake do you want me to email Google, Amazon, and Microsoft? I think I'm on all those chains

- Tomorrow –
  - Review website and make sure all entities approve language.
  - Finalize press release and coordinate quotes.
  - Sync principals on messaging.
- Tomorrow or Weekend TBD – Embargoed interview with WSJ.
- Sunday 6pm – Embargo lifts, WSJ story runs. OSTP/DOE/IBM and partners amplify via social media.
- Monday AM – Website goes live, OSTP sends joint press release.

## FW: [EXTERNAL] Update on Kaggle COVID-19 AI Challenge

**From:** "Hernandez, Elena R. EOP/OSTP" (b)(6)

**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6)

**Date:** Fri, 20 Mar 2020 18:58:01 -0400

---

hes good with the tweet!

**From:** Devvret Rishi <(b)(6)>

**Sent:** Friday, March 20, 2020 6:17 PM

**To:** Hernandez, Elena R. EOP/OSTP (b)(6)

**Subject:** Re: [EXTERNAL] Update on Kaggle COVID-19 AI Challenge

Hi Elena,

Happy for you to share these numbers, thank you! If you have room, may make sense to also include a pointer to the challenge here also: <https://www.kaggle.com/allen-institute-for-ai/CORD-19-research-challenge>.

Dev

On Fri, Mar 20, 2020 at 2:52 PM Hernandez, Elena R. EOP/OSTP

(b)(6) wrote:

---

Hi Dev, any issue with Michael tweeting these numbers? It would look something like this:

Since the @WhiteHouse call to action on Monday, the world's AI community has stepped up BIG.

In just four days, the COVID-19 dataset on @kaggle has received:

--594,000 views

--18,400 downloads

--183 public notebooks showcasing analysis

We are all in this together!

**From:** Devvret Rishi (b)(6)

**Sent:** Friday, March 20, 2020 4:07 PM

**To:** Parker, Lynne E. EOP/OSTP (b)(6); Kratsios, Michael J. EOP/OSTP

(b)(6); Alex Wade (b)(6); Sebastian Kohlmeier

(b)(6); Adriana Dunn (b)(6); Kuansan Wang

(b)(6); Sheehan, Jerry (NIH/NLM) [E] (b)(6);

Dewey Murdick (b)(6); Eric Horvitz (b)(6); Oren

Etzioni (b)(6); Carissa Schoenick (b)(6); Hernandez, Elena R.

EOP/OSTP (b)(6)

Cc: cloudai-leadership (b)(6); Anthony Goldbloom  
(b)(6) Ben Hamner (b)(6); Julia Elliott  
(b)(6) Paul Mooney (b)(6)  
**Subject:** [EXTERNAL] Update on Kaggle COVID-19 AI Challenge

Hi all,

We wanted to end the week with an update on the COVID-19 challenge.

Since Monday's launch, the dataset has received 594,000 views, 18,400 downloads, and 183 public notebooks showcasing analysis. Each of the ten tasks has now received multiple submissions and the dataset itself is one of the most popular of all time on the platform, despite being just a few days old.

There's an early contribution that looks like it may be valuable and merits a closer look:

One user has built a text mining system that tries to answer every question. In many cases, the answers are off-base. But in others, it looks like it's surfacing useful answers (some examples pasted below):

There's currently an epidemiologist active in the Kaggle forums who is giving him feedback. Question to Michael, Lynne and others: **is it worth sharing this system to a wider audience?**

A few other notable projects and observations from COVID-19:

- 
- A user who built a search engine over the corpus of research articles
  - A user who used topic modeling to map articles to tasks

- 
- A healthy spirit of collaboration has emerged, with people forming teams across different backgrounds.
- 

Two days ago, we also launched a companion forecasting competition, where users are analyzing factors that impact transmission. 87 teams have submitted so far. The most valuable artifact today is a thread where users are sharing public data useful to understand COVID-19 (ranging across school closures, Opentable dining data and chronic disease risk factors by city).

We're excited about the progress so far, and we'll plan to continue to share updates as we see meaningful contributions. Thank you all for the work on this.

Regards,  
Dev, on behalf of Kaggle

# Re: COVID Task Force (AI / open data / compute - software companies)

---

**From:** "Parker, Lynne E. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6)  
**Cc:** "Casey, Winter EOP/OSTP" (b)(6) >, "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**Date:** Fri, 20 Mar 2020 12:33:04 -0400  
**Attachments:** image002.jpg (1.1 kB); image003.jpg (8.92 kB); image004.jpg (9.5 kB); image005.jpg (9.05 kB)

---

Yes, I'm connecting with them. Do you want to join a call, or wait until I see what they have in mind?

On Mar 20, 2020, at 12:24 PM, Kratsios, Michael J. EOP/OSTP (b)(6) wrote:

Lynne – any interest in connecting here to listen?

Elena – fyi, industry association interest in a call.

---

**From:** Victoria Espinel (b)(6)  
**Sent:** Friday, March 20, 2020 12:17 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Casey, Winter EOP/OSTP (b)(6); Casey, Winter EOP/OSTP (b)(6)  
**Subject:** [EXTERNAL] COVID Task Force (AI / open data / compute - software companies)

Hi Michael, Winter – I hope you are as well as possible under the circumstances. As you know we have a number of companies that are working on innovative solutions to help address different aspects of COVID-19, relating to AI / open data and access to computing resources. We want to make sure you are aware of what they are working on and have the ability to draw on their expertise and work.

Can we get you connected with them or be a liaison point for information to you? Is there a task force set of meetings/calls that we or they can be looped into?

Thanks  
Victoria



Victoria Espinel  
President & CEO  
BSA | The Software Alliance  
P (b)(6)  
W [bsa.org](http://bsa.org)



[<image002.jpg>](#) [<image003.jpg>](#) [<image004.jpg>](#) [<image005.jpg>](#)

**From:** "Casey, Winter EOP/OSTP" (b)(6)

**Date:** March 16, 2020 at 3:28:42 PM EDT

**To:** Undisclosed recipients;

**Subject:** FW: NEWS: Call to Action to the Tech Community on New Machine Readable COVID-19 Dataset

fyi

THE WHITE HOUSE  
Office of Science and Technology Policy

FOR IMMEDIATE RELEASE  
March 16, 2020

## **NEWS: Call to Action to the Tech Community on New Machine Readable COVID-19 Dataset**

Today, researchers and leaders from the Allen Institute for AI, Chan Zuckerberg Initiative (CZI), Georgetown University's Center for Security and Emerging Technology (CSET), Microsoft, and the National Library of Medicine (NLM) at the National Institutes of Health released the *COVID-19 Open Research Dataset (CORD-19)* of scholarly literature about COVID-19, SARS-CoV-2, and the coronavirus group.

Requested by The White House Office of Science and Technology Policy, the dataset represents the most extensive machine-readable coronavirus literature collection available for data and text mining to date, with over 29,000 articles, more than 13,000 of which have full text.

Now, The White House joins these institutions in issuing a call to action to the Nation's artificial intelligence experts to develop new text and data mining techniques that can help the science community answer high-priority scientific questions related to COVID-19.

The collection was constructed via a unique collaboration between Microsoft, NLM, CZI, and the Allen Institute for AI, coordinated by Georgetown University. Microsoft's web-scale literature curation tools were used to identify and bring together worldwide scientific efforts and results, CZI provided access to pre-publication content, NLM provided access to literature content, and the Allen AI team transformed the content into machine-readable form, making the corpus ready for analysis and study.

The *CORD-19* resource is available on the Allen Institute's [SemanticScholar.org website](#) and will continue to be updated as new research is published in archival services and peer-reviewed publications. Researchers should submit the text and data mining tools and insights they develop in response to this call to action via the [Kaggle platform](#). Through Kaggle, a machine learning and data

science community owned by Google Cloud, these tools will be openly available for researchers around the world.

To inform the call to action, key scientific questions related to COVID-19 were developed in coordination with the National Academies of Sciences, Engineering, and Medicine's Standing Committee on Emerging Infectious Diseases and 21<sup>st</sup> Century Health Threats and the World Health Organization. The call to action and key questions are both available on Kaggle.

"Decisive action from America's science and technology enterprise is critical to prevent, detect, treat, and develop solutions to COVID-19. The White House will continue to be a strong partner in this all hands-on-deck approach. We thank each institution for voluntarily lending its expertise and innovation to this collaborative effort, and call on the United States research community to put artificial intelligence technologies to work in answering key scientific questions about the novel coronavirus," **said Michael Kratsios, U.S. Chief Technology Officer, The White House.**

"This valuable new resource is the fruit of unselfish collaboration and now offers the opportunity to find answers to important questions about COVID-19," **said Dr. Dewey Murdick, Director of Data Science at Georgetown University's Center for Security and Emerging Technology (CSET),** who coordinated the cross-team effort. "Once the crisis has passed, we hope this project will inspire new ways to use machine learning to advance scientific research."

"It's all-hands on deck as we face the COVID-19 pandemic," **said Dr. Eric Horvitz, Chief Scientific Officer at Microsoft.** "We need to come together as companies, governments, and scientists and work to bring our best technologies to bear across biomedicine, epidemiology, AI, and other sciences. The COVID-19 literature resource and challenge will stimulate efforts that can accelerate the path to solutions on COVID-19."

"Sharing vital information across scientific and medical communities is key to accelerating our ability to respond to the coronavirus pandemic," **said Dr. Cori Bargmann, Head of Science at the Chan Zuckerberg Initiative.** "The new COVID-19 Open Research Dataset will help researchers worldwide to access important information faster."

"We are excited to be part of this collaboration to aid in the COVID-19 response and that the group is making use of our open access subset on coronavirus literature," **said Dr. Patricia Flatley Brennan, Director of the National Library of Medicine at the National Institutes of Health.** "Our current collection of more than 10,000 full-text scholarly articles related to coronavirus provides a critical resource for text mining efforts like this one."

"One of the most immediate and impactful applications of AI is in the ability to help scientists, academics, and technologists find the right information in a sea of scientific papers to move research faster. We applaud the OSTP, WHO, NIH and all organizations that are taking a proactive approach to use the most advanced technology in the fight against COVID-19," **said Dr. Oren Etzioni, Chief Executive Officer of the Allen Institute for AI.** "The Allen Institute for AI, and particularly the Semantic Scholar team, is committed to updating and improving this important resource and the associated AI methods the community will be using to tackle this crucial problem."

"It's difficult for people to manually go through more than 20,000 articles and synthesize their findings. Recent advances in technology can be helpful here. We're putting machine readable versions of these articles in front of our community of more than 4 million data scientists. Our hope is that AI can be

used to help find answers to a key set of questions about COVID-19,” said **Anthony Goldbloom, Co-Founder and Chief Executive Officer at Kaggle.**

*For more information about the novel coronavirus and COVID-19, please visit:*

*><https://www.cdc.gov/coronavirus><*

[LINK](#)

## Website copy

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**From:** "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6) "Parker, Lynne E. EOP/OSTP" (b)(6), "Taylor, Jake M. EOP/OSTP" (b)(6)  
**Date:** Fri, 20 Mar 2020 11:59:28 -0400  
**Attachments:** website copy.docx (15.07 kB)

---

All – see the attached copy for the IBM website. It basically mirrors the press release. Let me know if you're good with sharing this with IBM to push an update through ASAP that we can share with all the other partners.

Elena Hernandez  
Press Secretary  
Office of Science and Technology Policy  
The White House  
Desk: (b)(6) | Mobile: (b)(6)  
(b)(6)

## FYI: High Performance Computing Consortium

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**From:** "Hernandez, Elena R. EOP/OSTP" (b)(6)

**To:** "Baum, Kristina R. EOP/OSTP" (b)(6) >, "Hunter, Jordan C. EOP/OSTP" (b)(6) >, "Bonyun, Sean C. EOP/OSTP" (b)(6) >, "Wallace, Rachel A. EOP/OSTP" (b)(6) >, "Watson, Ian D. EOP/OSTP" (b)(6) >, "Waterman, Paige E. EOP/OSTP" <(b)(6)>

**Cc:** "Kratsios, Michael J. EOP/OSTP" (b)(6) >, "Parker, Lynne E. EOP/OSTP" (b)(6) >, "Taylor, Jake M. EOP/OSTP" (b)(6)

**Date:** Fri, 20 Mar 2020 10:24:29 -0400

**Attachments:** HPC COVID19 Consortium - OSTP.docx (21.62 kB)

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Hi team, please see the attached draft press release for the HPC COVID-19 Consortium. Let me know any edits or concerns. will be sharing this with the partner organizations today.

Thanks!

Elena Hernandez  
Press Secretary  
Office of Science and Technology Policy  
The White House  
Desk: (b)(6) | Mobile: (b)(6)  
(b)(6)

# RE: Including Hewlett Packard Enterprise in TODAY's Cloud + Super Computing companies supporting the Administration on COVID-19

---

**From :** "Hernandez, Elena R. EOP/OSTP" <(b)(6)>  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6), "Taylor, Jake M. EOP/OSTP" (b)(6)  
**Date:** Sun, 22 Mar 2020 16:05:36 -0400

## *Industry*

- IBM
- Amazon Web Services
- Google Cloud
- Microsoft
- Hewlett Packard Enterprise

## *Academia*

- Massachusetts Institute of Technology
- Rensselaer Polytechnic Institute

## *U.S. Department of Energy National Laboratories*

- Argonne National Laboratory
- Lawrence Livermore National Laboratory
- Los Alamos National Laboratory
- Oak Ridge National Laboratory
- Sandia National Laboratories

## *Federal Agencies*

- National Science Foundation
- NASA

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Sent:** Sunday, March 22, 2020 3:51 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6); Taylor, Jake M. EOP/OSTP (b)(6) >  
**Subject:** FW: Including Hewlett Packard Enterprise in TODAY's Cloud + Super Computing companies supporting the Administration on COVID-19

---

**From:** Bruce Mehlman (b)(6)  
**Sent:** Sunday, March 22, 2020 3:48 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Cc:** Casey, Winter EOP/OSTP (b)(6); Hunter, Jordan C. EOP/OSTP (b)(6)

**Subject:** [EXTERNAL] Including Hewlett Packard Enterprise in TODAY's Cloud + Super Computing companies supporting the Administration on COVID-19

Michael... great news...

Hewlett Packard Enterprise, the world's #1 maker of super computers (they bought Cray, recall), is committing to devote additional resources to help with COVID-19 efforts.

As you may know, their machines power all of the Cloud providers with whom you are about to announce collaboration today.

#1, it'd mean a GREAT DEAL to them **if OSTP could include Hewlett Packard Enterprise in TODAY's announcement and tomorrow's press release** on the same.

They're in 100% & eager to support you.

#2, their CEO would welcome a chance to chat with you by phone over the next day or three? Antonio Neri is brilliant and commands a lot of resources likely helpful to OSTP's work at this time... best accomplished by connecting you two ASAP.

Thanks for all you are doing and for anything you can do to include them in today and tomorrow's announcements.

Bruce

Here is the HPE statement that will issue:

As the leading supercomputing company in the world and a strategic partner of many of our leading national laboratories and research universities, we are proud that many of our US-made systems are being used for critical research to help solve the COVID-19 pandemic. As part of this new effort, Hewlett Packard Enterprise is committing to provide our supercomputing software and applications expertise to help researchers port, run and optimize these critical applications in this time of need.

**Bruce Mehlman**

Mehlman Castagnetti Rosen & Thomas  
Cell: (b)(6)

## FW: White House POC

---

**From:** "Kratsios, Michael J. EOP/OSTP" (b)(6)  
:  
**To:** "Hernandez, Elena R. EOP/OSTP" (b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Date:** Tue, 17 Mar 2020 22:07:49 -0400

Lets talk tomorrow before responding.

---

**From:** Baron, Joshua (b)(6) >  
**Sent:** Tuesday, March 17, 2020 10:05 PM  
**To:** Kratsios, Michael J. EOP/OSTP (b)(6)  
**Cc:** Steinman, Joshua M. EOP/NSC (b)(6); Ferro, Phil J. EOP/NSC (b)(6); Patel, Tejas (b)(6); Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** Re: White House POC

Hello all,

I'll let Tejas introduce himself (he's got some really great, relevant to tech), but I run DARPA programs in cryptography, privacy and anonymity. The program most relevant here is the Brandeis privacy program, which is just wrapping up after 4.5 years. We have developed a suite of technologies related to computing on encrypted data (homomorphic encryption, secure multiparty computation) as well as differential privacy (adding statistical noise to data to maintain aggregate statistics while provably obscuring individual data points). This could have potential applications for preserving individual privacy while running coronavirus-related queries such as contact tracing. I'd be happy to (eg) put together a roundtable of our technologists to talk with interested parties on your end about what's in the realm of feasibility (and develop some code if desired). Bottom line is I want to be of any help I can.

All the best,  
Josh

Sent from my mobile device, apologies for brevity/typos

---

Joshua Baron, PhD  
Program Manager  
DARPA/I2O

Desk: (b)(6)

Cell: (b)(6)

On Mar 17, 2020, at 9:45 PM, Kratsios, Michael J. EOP/OSTP

<(b)(6)> wrote:

Thanks. +Lynne who would be the best person to connect with.

On Mar 17, 2020, at 9:41 PM, Steinman, Joshua M. EOP/NSC

(b)(6) wrote:

Ian to BCC

Adding Kratsios and Phil - two DARPA guys looking for the wuhFlu data POC, per WaPo article way below.

Sent from my iPhone

On Mar 17, 2020, at 5:37 PM, Crone, Ian (b)(6) wrote:

Tejas meet Josh, Josh remeet Josh, Josh can you help these guys track down the right person?

Ian Crone

PM, I2O

(b)(6) (desk)

(b)(6) (cell)

On Mar 17, 2020, at 8:50 PM, Patel, Tejas (b)(6) > wrote:

Ian:

Any chance you could ask Josh S. if he knows who Josh B. and I can talk to about the task force in this article?

<https://www.washingtonpost.com/technology/2020/03/17/white-house-location-data-coronavirus/>

Regards,

Tejas Patel

Program Manager

Defense Advanced Research Projects Agency

Information Innovation Office

email: (b)(6)

work: (b)(6)

mobile: (b)(6)

fax: +1 (703) 248-8040

## FW: [EXTERNAL] - RE: HPC COVID-19 Consortium Announcement

---

**From:** "Hernandez, Elena R. EOP/OSTP" (b)(6)

**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6)

**Cc:** "Taylor, Jake M. EOP/OSTP" (b)(6)

**Date:** Sun, 22 Mar 2020 16:52:13 -0400

Thoughts on how to handle? I don't know Erwin

---

**From:** Gianchandani, Erwin (b)(6)

**Sent:** Sunday, March 22, 2020 4:49 PM

**To:** Hernandez, Elena R. EOP/OSTP (b)(6) >

**Cc:** Parashar, Manish <(b)(6)>; Taylor, Jake M. EOP/OSTP (b)(6) >

**Subject:** Re: [EXTERNAL] - RE: HPC COVID-19 Consortium Announcement

Hi Elena,

I'm sorry to be difficult, but can I push on this a bit?

The NSF team has worked very hard over the last few days to facilitate the inclusion of a number of NSF-funded HPC resources, with CPU and GPU core/node-hours that are very significant in the grand scheme of things. We view NSF's leadership and engagement here on equal footing with OSTP, DOE, and IBM — and our Office of the Director feels very strongly about noting this; I'll note that this edit was included in what we sent back to you by noon today.

So, I'd like to understand the challenge with including NSF in the preamble along the lines Manish requested below.

Thanks in advance.

Erwin

On Mar 22, 2020, at 4:41 PM, Hernandez, Elena R. EOP/OSTP (b)(6) wrote:

Thank you very much for raising this. Unfortunately we aren't able to make any more edits at this point. I'm sorry about that

---

**From:** Parashar, Manish (b)(6)

**Sent:** Sunday, March 22, 2020 4:31 PM

**To:** Hernandez, Elena R. EOP/OSTP (b)(6) Gianchandani, Erwin (b)(6)  
**Cc:** Taylor, Jake M. EOP/OSTP (b)(6)  
**Subject:** Re: HPC COVID-19 Consortium Announcement

Thank you Elena. I understand. Can we please include NSF in the paragraph below. NSF leaderships felt very strongly about this:

This unique public-private consortium, spearheaded by The White House, the U.S. Department of Energy, the National Science Foundation, and IBM, includes the following government, industry, and academic leaders who have volunteered free compute time and resources on their machines:

Thank you.

Regards

*Manish Parashar*  
*Director, Office of Advanced Cyberinfrastructure (OAC)*  
*National Science Foundation*

---

**From:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Sent:** Sunday, March 22, 2020 4:19 PM  
**To:** Parashar, Manish (b)(6) >  
**Cc:** Taylor, Jake M. EOP/OSTP (b)(6) >  
**Subject:** [EXTERNAL] - RE: HPC COVID-19 Consortium Announcement

Hi Manish, although those universities are part of NSF's efforts, we are not able to list them out without getting permission with from each school individually. There was no time to do this. Sorry about that.

---

**From:** Parashar, Manish (b)(6)  
**Sent:** Sunday, March 22, 2020 4:18 PM  
**To:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Subject:** Re: HPC COVID-19 Consortium Announcement

Hi Elena

I noticed that this did not include the edits from NSF. Just checking. Thank you.

Regards

Manish Parashar  
Director, Office of Advanced Cyberinfrastructure (OAC)  
National Science Foundation

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**From:** Hernandez, Elena R. EOP/OSTP (b)(6)  
**Sent:** Sunday, March 22, 2020 4:10 PM  
**To:** Scheller (PR), Brandon (b)(6); Lane, Jarrett (b)(6) Daniel Gabis (b)(6); Hoang, Thud (b)(6) Wolf, Gregory A (b)(6); Lee Carosi Dunn (b)(6); Chris Hill <(b)(6)>; Julie de Widt- Bakker (CELA) (b)(6); John Kahan (b)(6) Eric Horvitz (b)(6); Parashar, Manish (b)(6) Cole, Stephen E (HQ-NA001) (b)(6); 'Lee, Tsengdar J. (HQ-DK000)' (b)(6) Kolb, John (b)(6); Greenwell, Amanda H (b)(6); Helland, Barbara (b)(6); Hunter, Richie Collins (b)(6) David Goldston (b)(6)  
**Cc:** Michael Rosenfield (b)(6) Taylor, Jake M. EOP/OSTP (b)(6) Parker, Lynne E. EOP/OSTP (b)(6); Adam R Pratt (b)(6); Baum, Kristina R. EOP/OSTP (b)(6)  
**Subject:** [EXTERNAL] - RE: HPC COVID-19 Consortium Announcement

This email originated from outside of the National Science Foundation. Do not click links or open attachments unless you recognize the sender and know the content is safe.

All – as I hope you can appreciate, things are moving very quickly around here, especially amidst the ongoing crisis.

For your awareness, there is a large possibly this announcement will be moved to **tonight** in the next 1-2 hours.

I am including here the final version of the press release. We are not able to accept any additional edits at this point.

Both of the following links will be live soon:

>>><http://www.covid-19-hpc-consortium.org/><<<;;

>>><https://www.xsede.org/covid19-hpc-consortium><<<;;

THANK YOU!

Elena Hernandez  
Press Secretary  
Office of Science and Technology Policy

The White House

Desk: (b)(6) Mobile: (b)(6)

(b)(6)

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**From:** Hernandez, Elena R. EOP/OSTP

**Sent:** Saturday, March 21, 2020 6:26 PM

**To:** Scheller (PR), Brandon (b)(6); Lane, Jarrett (b)(6) 'Daniel Gabis' (b)(6) 'Hoang, Thuc' (b)(6); Wolf, Gregory A (b)(6); Lee Carosi Dunn (b)(6) 'Chris Hill' (b)(6) Julie de Widt- Bakker (CELA) (b)(6); John Kahan (b)(6); 'Eric Horvitz' (b)(6); 'Parashar, Manish' (b)(6) 'Cole, Stephen E (HQ-NA001)' (b)(6); 'Lee, Tsengdar J. (HQ-DK000)' (b)(6) (b)(6) Kolb, John (b)(6) 'Greenwell, Amanda H' <(b)(6) Helland, Barbara (b)(6); Hunter, Richie Collins (b)(6) >  
**Cc:** 'Michael Rosenfield' (b)(6) Taylor, Jake M. EOP/OSTP <(b)(6); Parker, Lynne E. EOP/OSTP (b)(6) 'Adam R Pratt' (b)(6); Kristina R. EOP/OSTP Baum (b)(6) <(b)(6)

**Subject:** HPC COVID-19 Consortium Announcement

Good evening, we are thrilled for the launch of the High Performance Computing COVID-19 Consortium on Monday! Thank you all for your support and efforts these past couple of days. Amidst the current crisis, we are grateful for the quick turnaround on all sides.

Here is the current roll out plan:

- Sunday 6pm ET - Preview story runs in the Wall Street Journal
- Monday 8am ET – COVID-19-HPC-Consortium.org goes live
- Monday 8:15am ET – OSTP sends press release

Attached are a few materials for circulation and awareness: the current draft press release, a screenshot of the COVID-19-HPC-Consortium.org home page, and a word doc of the website copy.

A few asks for the group:

- **Deadline 12pm EST Tomorrow:** Critical edits only to the attached material.
- **Deadline 12pm EST Tomorrow:** Basic compute specifications that you would like listed for your organization on the website (see section in the screenshot 'About the Consortium'). Some organizations are already listed.
- **Deadline 3pm EST Tomorrow:** Quotes from your organization for the press release. At this point I'm only missing a couple!

To reduce email traffic for everybody, please send edits to me only and I will coordinate sending updated versions to the rest of the group. I can be reached at any point at 202-881-8231.

Thank you again!

Elena

Elena Hernandez  
Press Secretary  
Office of Science and Technology Policy  
The White House

Desk: (b)(6) | Mobile: (b)(6)  
(b)(6)

## FW: for media event today

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**From :** "Parker, Lynne E. EOP/OSTP" (b)(6)  
**To:** "Kratsios, Michael J. EOP/OSTP" (b)(6); "Hernandez, Elena R. EOP/OSTP" (b)(6)  
**Cc:** "Parker, Lynne E. EOP/OSTP" (b)(6)  
**Date:** Mon, 16 Mar 2020 10:42:41 -0400

FYI, see below. Most people probably won't notice that the lineup is all male. But if this is something you think we should address, I could talk for 1-2 minutes on where the questions came from, perhaps just before Kaggle. Either way is OK with me.

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**From:** Sheehan, Jerry (NIH/NLM) [E] (b)(6)  
**Sent:** Monday, March 16, 2020 10:39 AM  
**To:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Subject:** for media event today

Lynne,  
Keener eyes than mine noticed that this afternoon's panel is all male. I offered Patti to take my slot but she'd still prefer that I do it. Will you have a chance to make remarks? This is a topic of great consideration here at NIH so I wanted to point it out to you, recognizing that there may be little that can be done about it at this late date.

Thanks  
Jerry

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**From:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Sent:** Sunday, March 15, 2020 7:35 PM  
**To:** 'Devvret Rishi' (b)(6); Sheehan, Jerry (NIH/NLM) [E] (b)(6)  
**Cc:** (b)(6); Sebastian Kohlmeier (b)(6); Ben Hamner (b)(6); Julia Elliott (b)(6); Anthony Goldbloom (b)(6); Alex Wade (b)(6); Kuansan Wang <(b)(6)>; Dewey Murdick (b)(6); Parker, Lynne E. EOP/OSTP (b)(6) >  
**Subject:** RE: [EXTERNAL] Re: Logos on sites

+ Kate (Microsoft) – see Dev's request below for logo.

**From:** Devvret Rishi (b)(6) >  
**Sent:** Sunday, March 15, 2020 4:18 PM

**To:** Sheehan, Jerry (NIH/NLM) [E] (b)(6)  
**Cc:** Parker, Lynne E. EOP/OSTP (b)(6); Sebastian Kohlmeier (b)(6); Ben Hamner <(b)(6)>; Julia Elliott (b)(6); Anthony Goldbloom (b)(6); Alex Wade (b)(6); Kuansan Wang (b)(6); Dewey Murdick (b)(6)  
**Subject:** [EXTERNAL] Re: Logos on sites

Thanks Lynne, happy to make the change.

If **Microsoft Research**, **Chan Zuckerberg** and **Georgetown University** would like to have their logos included, could you please send those to me by end of day? I have the provided logos from the Allen Institute and Kaggle already

If we have at least 3 logos to show, then think it makes sense to include them. As a heads up I may have to resize the logos to fit, hope folks understand.

Dev

On Sun, Mar 15, 2020 at 1:14 PM Sheehan, Jerry (NIH/NLM) [E] (b)(6) wrote:

Lynne,  
I am in agreement. NIH logo can't be used, but great for others to be recognized.  
Jerry

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**From:** Parker, Lynne E. EOP/OSTP (b)(6)  
**Sent:** Sunday, March 15, 2020 2:43 PM  
**To:** Devret Rishi (b)(6)  
**Cc:** Sebastian Kohlmeier (b)(6); Ben Hamner (b)(6); Julia Elliott (b)(6); 'Anthony Goldbloom' (b)(6); Alex Wade (b)(6); Kuansan Wang (b)(6); Sheehan, Jerry (NIH/NLM) [E] (b)(6); Dewey Murdick (b)(6); Parker, Lynne E. EOP/OSTP <(b)(6)>  
**Subject:** Logos on sites

All,

We have received a request to include logos of the participating institutions on the project sites. We are fine with that, except the USG logos can't be included.

If Kaggle, Microsoft, AI2, CZI, and Georgetown are OK with that, then we are, too.

Dev, could you please make that change on the Kaggle site, presuming the team agrees?

Lynne

## FW: [Non-DoD Source] Virus contact tracing

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**From:** "Watson, Ian D. EOP/OSTP" (b)(6)  
**To:** "Bonyun, Sean C. EOP/OSTP" (b)(6) >  
**Cc:** "Taylor, Jake M. EOP/OSTP" (b)(6)  
**Date:** Thu, 26 Mar 2020 09:44:03 -0400  
**Attachments:** Craxel - Building a National Contact Tracing System.pdf (267.35 kB)

Another cell phone tracking proposal. Got it. Jake is trying to establish a portal/clearinghouse for capabilities such as this, so I am copying him as well.

Ian D. Watson  
Assistant Director for Biotechnology & Biosecurity  
Office of Science & Technology Policy  
Office: EEOB (b)(6)  
Unclass: (b)(6)  
SIPR: (b)(6)  
JWICS: (b)(6)  
Desk: (b)(6)  
Cell: (b)(6)

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**From:** Bonyun, Sean C. EOP/OSTP (b)(6)  
**Sent:** Wednesday, March 25, 2020 7:29 PM  
**To:** Watson, Ian D. EOP/OSTP (b)(6)  
**Subject:** Fwd: [Non-DoD Source] Virus contact tracing

Good evening Ian - no need to respond tonight. Jack is a former colleague who was Aaron's predecessor. Would appreciate any guidance. Hope you and your family are all doing great.

Best,  
Sean

Begin forwarded message:

**From:** "Wilmer, John W (Jack) SES OSD DOD CIO (USA)" (b)(6) >  
**Date:** March 24, 2020 at 6:29:18 PM EDT  
**To:** "Bonyun, Sean C. EOP/OSTP" <(b)(6)>  
**Subject:** FW: [Non-DoD Source] Virus contact tracing

Sean,

Not sure if you all are looking at technologies which might be able to help manage the pandemic, but I thought I would pass this along. If interested, please let me know & I'll be happy to do a warm intro to whomever you recommend and Dave.

Thanks,  
jack

**From:** David Enga (b)(6) >  
**Sent:** Tuesday, March 24, 2020 1:59 PM  
**To:** Wilmer, John W (Jack) SES OSD DOD CIO (USA) (b)(6)  
**Subject:** [Non-DoD Source] Virus contact tracing

All active links contained in this email were disabled. Please verify the identity of the sender, and confirm the authenticity of all links contained within the message prior to copying and pasting the address to a Web browser.

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Jack,

Understand this isn't in your purview and you are likely swamped. However, our technology could be used for a really secure, virus contact tracing system using location data. I'm socializing it with a few smart people I know to get some feedback before we start really pushing it. If you have any thoughts, we'd appreciate it. If not, no worries. Hope you and your family are staying safe. Thanks! -Dave

--

David Enga  
Craxel, Inc.

(b) (6) cell)

(b) (6)

Caution-><http://www.craxel.com>< < Caution-<http://www.craxel.com> >

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><http://www.craxel.com>< < Caution-<http://www.craxel.com> >

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# BUILDING A NATIONAL VIRUS CONTACT TRACING SYSTEM

CRAXEL

Document Date: March 2020

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**Email:** (b) (6) | **Web:** <https://craxel.com>

## ABSTRACT

Imagine the impact on the current crisis if you could answer the following question for 230 million people – “In the last 10 days, have I been within 100 yards of an individual with a positive COVID-19 test?” The ability to answer this question could allow millions of people to go back to work.



## INTRODUCTION

This paper describes a technical approach to quickly implement a nationwide emergency virus contact tracing system in order to suppress the spread of COVID-19 while enabling a return to high levels of economic activity. Craxel’s technical breakthroughs enable the rapid deployment of this system with security and safeguards against misuse based on strong encryption, state of the art searchable encryption, and split encryption keys for multi-signature digital authorization/access control. It is our hope that this paper will provide the detailed information necessary to make informed decisions about creating and deploying such a system. It also identifies several key questions that must be addressed to determine if such a system will be effective.

- The COVID-19 pandemic is stark proof of our nation’s vulnerability to global pandemics and germ warfare. The countries of the world have a choice in how to combat these pandemics. They can do nothing and potentially allow their health care systems to be overrun and millions to die. They can try to slow infection rates through social distancing, so that health care infrastructure can function until a vaccine is ready. Unfortunately, this requires shutting down large portions of economic activity for months at a time. After the first week of an initial 15-day period of widespread social distancing, the US population already appears to be losing patience with this approach as large numbers of people lose their jobs. A better option that would allow the economy to largely function could be **targeted virus suppression**, with the objective of reducing the spread of the virus ( $R_0 < 1$ ) until the epidemic grinds to a halt.

Effective testing is an essential component of any suppression strategy. You can suppress a virus in the United States without shutting down large segments of the economy if you test hundreds of millions of people repeatedly and strictly quarantine those with positive results. Repeated testing is essential because of asymptomatic community spread. With the current spread of the COVID-19 virus, widespread testing and quarantine is likely the most effective way to suppress the outbreak. The problem is that executing this repeated testing on a nationwide scale is extraordinarily difficult and the materials for billions of tests may



not even be available. Technology offers an opportunity to reduce the amount of testing through targeted, aggressive contact tracing.

Cell phones have become ubiquitous in the United States. It is entirely feasible for location data to be collected from wireless network providers in order to maintain several weeks of location history for ~230 million Americans. It is also entirely feasible to combine this location history of individuals with the location history of subjects with positive test results to identify individuals that should be tested and isolated. Possibly more importantly, you can identify those that are very unlikely to have been exposed. This would allow most of society to continue while small subsets are shut down and isolated. This is a powerful idea that makes suppression a feasible strategy for dealing with an epidemic while minimizing the economic impact. Because of asymptomatic transmission, it is impossible to guarantee that someone has not been exposed simply because they've not been collocated with an individual that has tested positive. There would inevitably be "leakage". This leakage is why rapid testing is so important, to minimize the amount of transmission and drive  $R_0$  to less than 1. The purpose of a nationwide emergency virus contact tracing systems would be targeted testing of asymptomatic individuals. While everyone that has any symptoms should be tested as soon as possible, asymptomatic individuals that have been collocated with individuals with positive tests can also be identified and tested. If this approach works, large portions of the country could function as we effectively suppress an outbreak.

However, there are many important questions to be considered as a naïve implementation of such a system could do more harm than good. Can testing be rapidly performed at the scale required? Placing cell phone location data in the hands of government threatens the privacy of every citizen. Location history is incredibly sensitive and even data for a small time period can be revealing for a long period of time. Throughout the history of our country, millions of Americans have given their lives for freedom, essentially choosing freedom over life. Allowing the government to maintain a history of the location of every American with a phone is a significant threat to that freedom.

Craxel's recent breakthroughs make it possible to rapidly implement an emergency virus contact tracing system with extraordinary security and safeguards against misuse. Craxel has developed several revolutionary technologies that we believe uniquely solve these key challenges at the required scale and with unprecedented security and privacy. These breakthroughs include:

- Spatial/temporal indexing at massive scale for rapid risk scoring
- Searchable encryption for organizing the data with unprecedented security
- Compartmentalization using strong encryption and many encryption keys to safeguard the data
- Multi-signature access control using secret sharing to protect against abuse

It is technically possible to implement a nationwide virus contact tracing system with unprecedented security and privacy protections. It is an open issue exactly how effective aggressive contact tracing like this would be in reducing the amount of testing required for suppression. However, given the economic chaos caused by the COVID-19 pandemic, developing and testing this system should begin as soon as possible. This paper describes the challenges, solutions, and technical implementation details for developing such a system. Please contact David Enga at (b) (6) if you have interest in discussing this implementation or reviewing the rest of this paper.



## [EXTERNAL] Re: Connecting Rolf / Derek (COVID-19)

---

**From:** Kyla Lehner (b)(6)

**To:** "Doster, Kim M. EOP/OSTP" (b)(6), Aleah Dawson (b)(6)

"Lira, Mathew L. EOP/WHO" (b)(6), "Calcagno, Drew A. EOP/OSTP" (b)(6), "Parker, Lynne E. EOP/OSTP" (b)(6)

**Cc:** (b)(6) "Droegemeier, Kelvin K. EOP/OSTP" (b)(6), "Wilson, Matt B. EOP/OSTP" (b)(6), David Morrell (b)(6) >, "Kratsios, Michael J. EOP/OSTP" (b)(6)

**Date:** Wed, 18 Mar 2020 16:04:21 -0400

Rolf and Nat to Bcc, +Aleah for Nat's calendar

Hello Kim,

Please let me know Kelvin's availability. I will make sure to prioritize this for Rolf.

Thank you!

Kyla Lehner

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)

**Sent:** Wednesday, March 18, 2020 12:42 PM

**To:** Rolf Harms; David Morrell; Kyla Lehner; Nat Friedman

**Cc:** Lira, Mathew L. EOP/WHO; Calcagno, Drew A. EOP/OSTP; Parker, Lynne E. EOP/OSTP; Droegemeier, Kelvin K. EOP/OSTP; Wilson, Matt B. EOP/OSTP; Doster, Kim M. EOP/OSTP

**Subject:** [EXTERNAL] RE: Connecting Rolf / Derek (COVID-19)

Derek to bcc.

Thanks guys. Looping in Kelvin on my team who is helping drive a lot of the modeling/data work. He is best positioned to take lead on the call.

Kim can help schedule on his end.

---

**From:** Rolf Harms (b)(6)

**Sent:** Wednesday, March 18, 2020 3:39 PM

**To:** Kratsios, Michael J. EOP/OSTP (b)(6); Kan, Derek T. EOP/OMB

(b)(6); David Morrell (b)(6); Kyla Lehner

(b)(6) Nat Friedman (b)(6) >

**Cc:** Lira, Mathew L. EOP/WHO (b)(6) Calcagno, Drew A. EOP/OSTP

(b)(6); Parker, Lynne E. EOP/OSTP (b)(6)

**Subject:** [EXTERNAL] RE: Connecting Rolf / Derek (COVID-19)

Thanks Derek and David. Good to meet you all as well. Also adding the CEO of Github [@Nat Friedman](#)

I know there are many initiatives ongoing but at Microsoft and Github we are ready and willing to help in any way we can

We are currently working on a couple of things with a number of teams that may be of interest and can discuss more on the call:

1. Getting real time ICU utilization data – we have a team that is working with local hospitals in Seattle on a very simple mobile app to collect ICU and other data. It has been tested with 50 nurses and is being rolled out across a number of hospitals tomorrow. We are putting together a proposal to implement this at a national level in a very rapid fashion
2. This approach could perhaps also be applied to get better visibility into testing data, particularly as testing expands across the private sector
3. To improve global collaboration on pandemic modelling, we are thinking through how Github could be a central repository for folks to collaborate on and refine models

We would love to understand the areas that are of greatest need & urgency and we can work on marshaling Microsoft's resources to address them

[@Kyla Lehner](#) for scheduling on my end but will prioritize this

Rolf

---

**From:** Kratsios, Michael J. EOP/OSTP (b)(6)

**Sent:** Wednesday, March 18, 2020 12:26 PM

**To:** Kan, Derek T. EOP/OMB (b)(6); David Morrell (b)(6)

Rolf Harms (b)(6)

**Cc:** Lira, Mathew L. EOP/WHO (b)(6); Calcagno, Drew A. EOP/OSTP

(b)(6); Parker, Lynne E. EOP/OSTP (b)(6)

**Subject:** [EXTERNAL] RE: Connecting Rolf / Derek (COVID-19)

Thanks Derek! Great to meet you guys. Would be happy to schedule a quick call.

+ Drew who can help us find a time.

---

**From:** Kan, Derek T. EOP/OMB (b)(6)

**Sent:** Wednesday, March 18, 2020 3:11 PM

**To:** David Morrell (b)(6); Rolf Harms (b)(6)

**Cc:** Kratsios, Michael J. EOP/OSTP (b)(6); Lira, Mathew L. EOP/WHO

(b)(6)

**Subject:** RE: Connecting Rolf / Derek (COVID-19)

D-Mo,

Great to hear from you. I'm adding Michael Kratsios, the US Government's CTO, and Matt Lira. Thanks.

Derek

---

**From:** David Morrell (b)(6)

**Sent:** Wednesday, March 18, 2020 3:07 PM

**To:** Rolf Harms (b)(6); Kan, Derek T. EOP/OMB (b)(6)

**Subject:** [EXTERNAL] Connecting Rolf / Derek (COVID-19)

Hey Derek,

I'd like to connect you with Rolf Harms who runs the corporate strategy group for Microsoft's Cloud + AI business. He's been coordinating with Brad Smith (President / chief legal officer) and Nat Friedman (CEO GitHub) on some ways that Microsoft can assist in the governments efforts to prevent the spread and mitigate the effects of COVID-19.

I mentioned to Rolf that you'd like to get him in contact with your CTO and that a brief summary of some potential areas of assistance might be helpful. I'll let him weigh in with more detail there.

Give me a ring if you need anything else.

David