Session X: Session Title

GEO Health Community Response to the COVID-19 Pandemic

June 7, 2020

#EO4Impact





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Este Geraghty, MD, MS, MPH, CPH, GISP

Este is the Chief Medical Officer at Esri, developer of the world's most powerful mapping and analytics platform. She heads Esri's worldwide health and human services practice and is passionate about transforming health organizations through a geographic approach. Previously, she was the deputy director of the Center for Health Statistics and Informatics at the California Department of Public Health. There she engaged in statewide initiatives in meaningful use, health information exchange, open data and interoperability.

While serving as an associate professor of clinical internal medicine at the University of California (UC), Davis she conducted research on geographic approaches to influencing health policy and advancing community development programs.

Geraghty is a widely published author and has lectured extensively around the world on a broad range of topics that include social determinants of health, open data, climate change, homelessness, access to care, opioid addiction, privacy issues and public health preparedness. She received her medical degree, master's degree in health informatics, and master's degree in public health from UC Davis. She is board certified in public health (CPH) and is also a geographic information system professional (GISP)



Dr. Este Geraghty Chief Medical Officer Esri

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Resources

New Article: Five Spatial Approaches to Safely Reopen

COVID-19 GIS Hub

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

Check back often-these resources will be updated with new information as it becomes available.

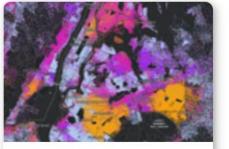
Request GIS assistance

https://coronavirus-resources.esri.com



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Understand, prepare for, and respond to COVID-19 in your community or organization.



Health, Racial & Economic Equity Data Group

A collection of Esri maps, data, and tools that can help guide decisions around health, racial, and econo...

Explore



Coronavirus COVID-19 (2019-nCoV)

This ArcGIS Dashboard created by the CSSE Team at Johns Hopkins contains the most up-to-date...

Explore



Index of Global Applications related to... Index of apps related to COVID-19 created by GIS users across the world and curated by Esri Disast...

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Index of USA Applications related to COVID-19

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Files

Notebooks

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	COVID-19 Health, Racial & Eco	/iewer Overview	Content	Members		
133 datasets Free and geo-enabled	Q Search group content	≣ List च Title † Filter				
	Filters	1 - 20 of 133				
	 Group Categories Uncategorized Health Risk Variables (34) Racial and Ethnic Risk Variables (25) Socioeconomic Risk Variables (38) Occupational Risk Variables (23) Housing Risk Variables (22) Transportation Access (6) Internet Access (11) 	AMERICAN COMMUNITY USC CENSUS BUREAU	 ACS Children in Immigrant Families Variables - Boundaries Feature Layer by esri_demographics This layer contains the most current release of data from the American Community Survey (ACS) about children by nativity of parents by age group. These are 5-year estimates shown by tract, county, and state boundaries. Created: Nov 26, 2018 Updated: Jan 30, 2020 View Count: 9,800 			
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	 Item Type Maps Layers Scenes Apps Tools 		ACS Context for Child Well-Being - Boundaries Feature Layer by esri_demographics This layer contains the most current release of data from the Ame about demographic context for child well-being work. These are county, and state boundaries. Created: Mar 10, 2020 Updated: Mar 13, 2020 View Count: 1,70	erican Community S 5-year estimates sh		

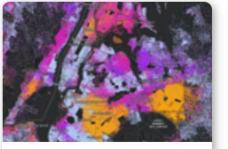
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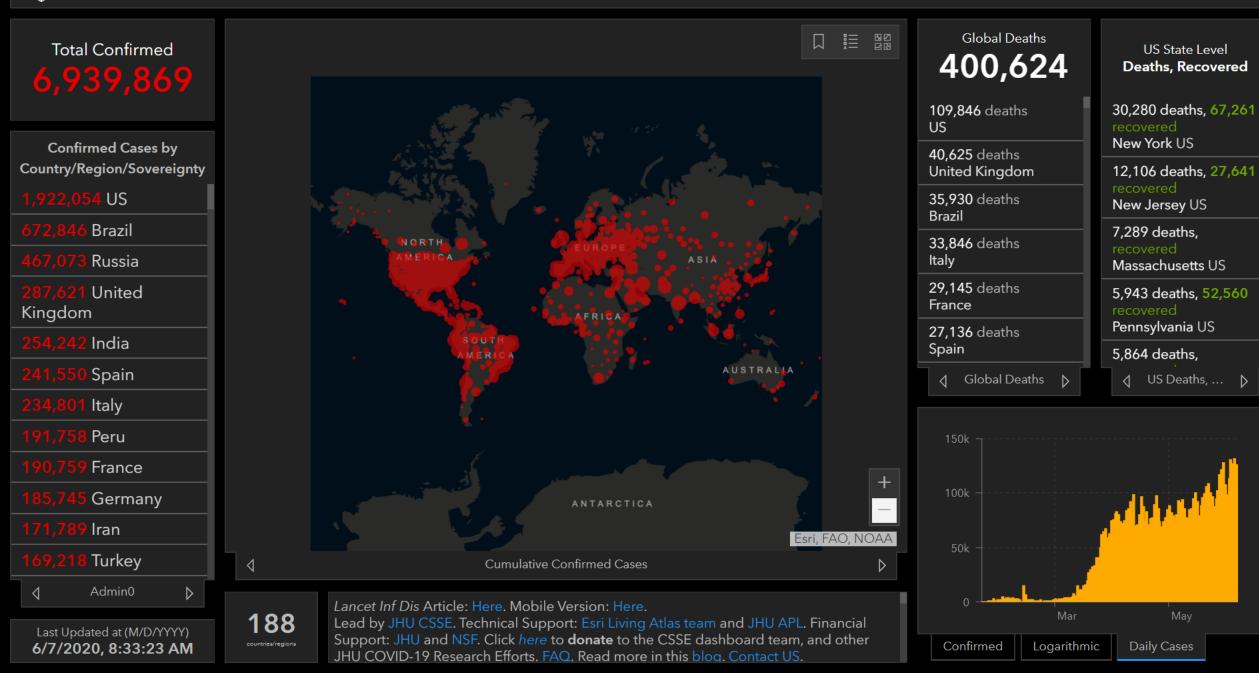


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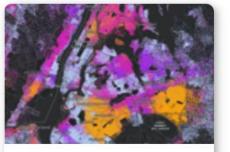
COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins Un...





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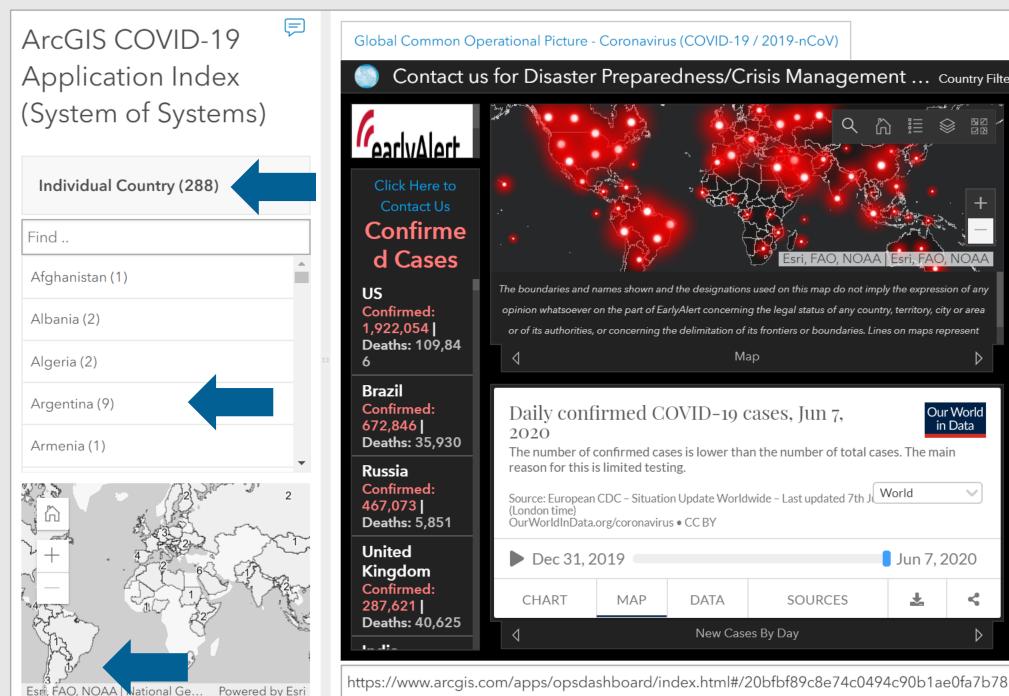
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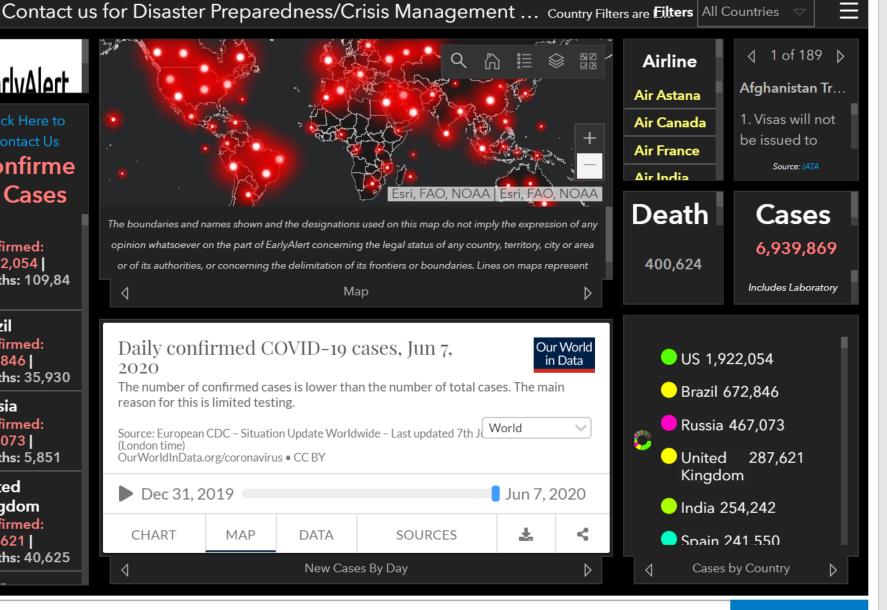


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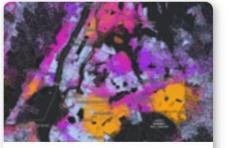
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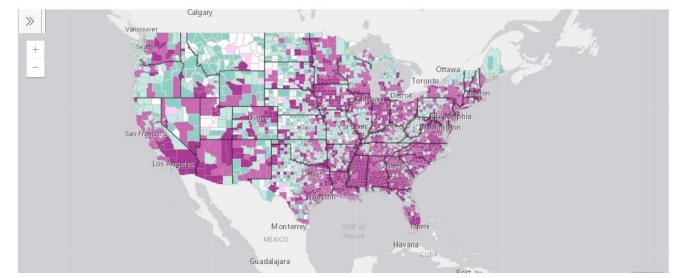
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For Global Trends – see the blog (which links to the global trends map, updated daily (with methodology explained)

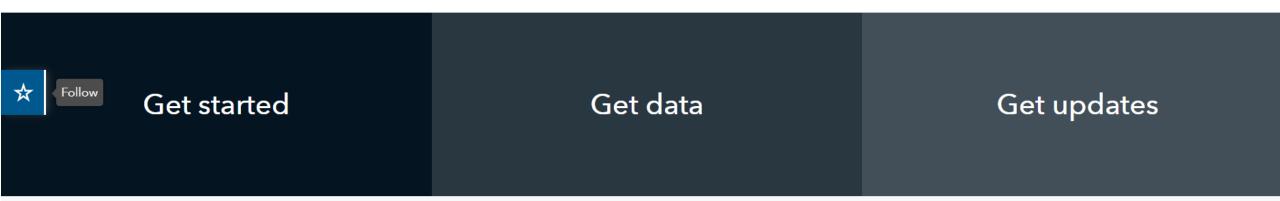
https://www.esri.com/arcgisblog/products/arcgis-livingatlas/announcements/covid-19-trends/

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COVID-19 Trends for U.S. Counties







Five steps to understand the potential impact COVID-19 can have on your organization and community

As global communities and businesses seek to respond to the COVID-19 pandemic, you can take these five proactive steps to create an instant picture of your organization's risk areas and response capacity. #EO4Impact

NEW: Coronavirus Response Solution Released

As global communities and businesses seek to respond to the COVID-19 pandemic, you can take these five proactive steps to create an instant picture of your organization's risk areas and response capacity.

Step 1

Map the cases

Map confirmed and active cases, fatalities, and recoveries cases to identify where COVID-19 infections exist and have occurred.

Step 2

Map the spread

Time-enabled maps can reveal how infections spread over time and where you may want to target interventions.

Step 3

Map vulnerable populations

COVID-19 disproportionally impacts certain demographics such as the elderly and those with underlying health conditions. Mapping social vulnerability, age, and other factors helps you monitor the most at-risk groups and regions.

Step 4

Map your capacity

Map facilities, employees or citizens, medical resources, equipment, goods, and services to understand and respond to current and potential impacts of COVID-19.

5 Steps to Respond

https://statescoop.com/5-ways-maps-canhelp-communities-respond-to-covid-19/

5 Approaches to Safely Reopen https://www.esri.com/about/newsroom/blog/ covid-19-five-spatial-approaches-to-safelyreopen/

Step 5

Communicate with maps

Use interactive web maps, dashboard apps, and story maps to help rapidly communicate your situation.



COVID-19 Overview

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Resources

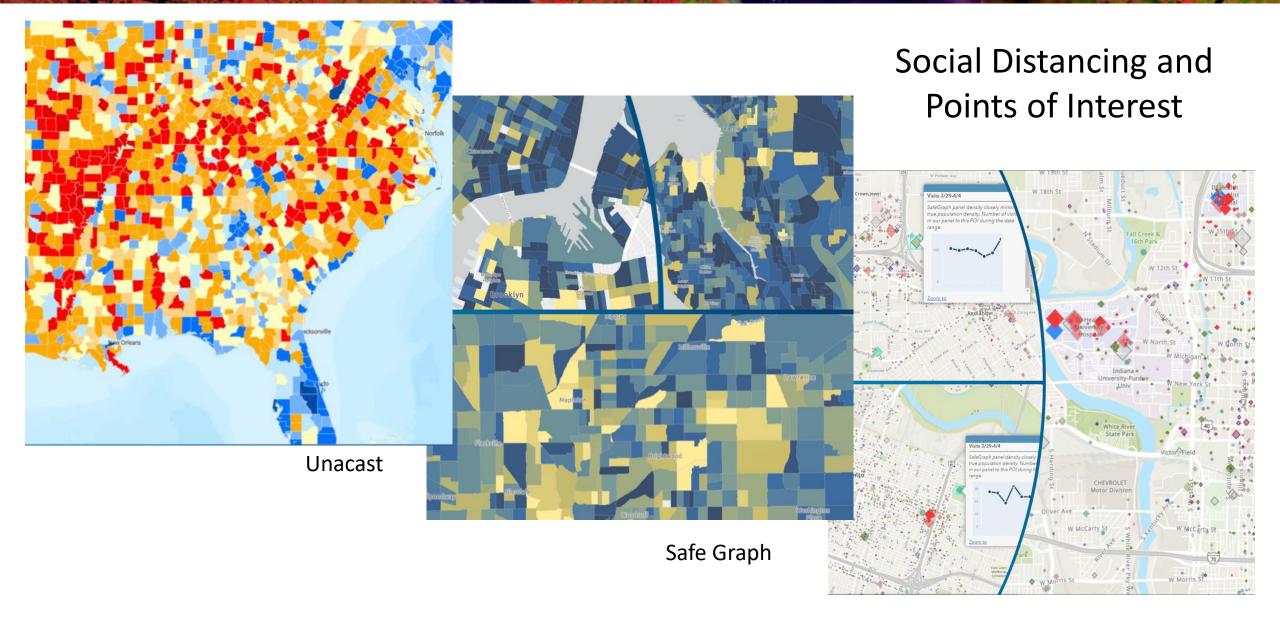
255 datasets available including:

- Johns Hopkins data
- Sentiments
- Social distancing
- Policies
- Demographics
- Weather
- And more...

New Article: Five Spatial Approaches to Safely Reopen #COVID19 0-0-0-0-00-0 DATLAL Datastory COVID-19 Social Media Health, Racial & Economic Active Hurricanes, Cyclones SafeGraph Weekly Patterns Counts & Sentiment Equity Data Group and Typhoons Data A collection of Esri maps, data, and This layer describes the observed County-level statistics of social High accuracy points-of-interest tools that can help guide decisions path, forecast track, and intensity of media mentions of COVID-19 (POI) business listing data for all around health, racial, and econo... tropical cyclone activity (hurrican... related topics over time, includin.. places in the USA with visitor cou.. View data View data View data View data NGA JHU Centers for Civic **BlueDot County Social** COVID19 State and COVIDcast All Counties All Impact Covid-19 Count... **Distancing Metrics** Territory Actions Download Weeks of Collection The current situation for the BlueDot (Toronto, Canada) analyzes COVID-19 State and Territory Carnegie Mellon University Delphi coronavirus COVID-19 in the US per anonymized, near-real-time, mobile Research Group analyzes real-time response feature layer. device-location data (from Verase... data collected a variety of... county. View data View data View data View data



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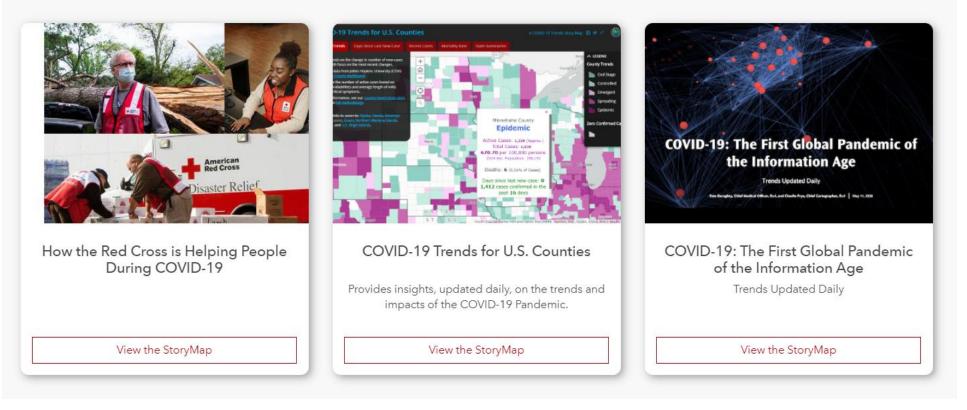




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Featured StoryMaps

ArcGIS StoryMaps is a story authoring web-based application on the ArcGIS platform that enables you to share your maps in the context of narrative text and other multimedia content.



Sometimes we need more than data and apps, we need a narrative to put things into perspective

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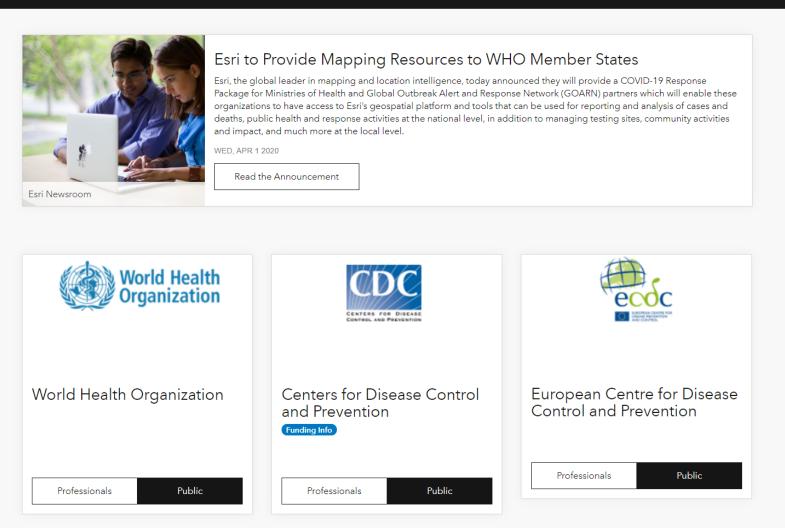
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Resources

New Article: Five Spatial Approaches to Safely Reopen

Additional Resources

Want to see more content?



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Watch the Video

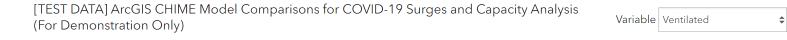
ArcGIS Pro COVID-19 Modeling Toolbox Version 5

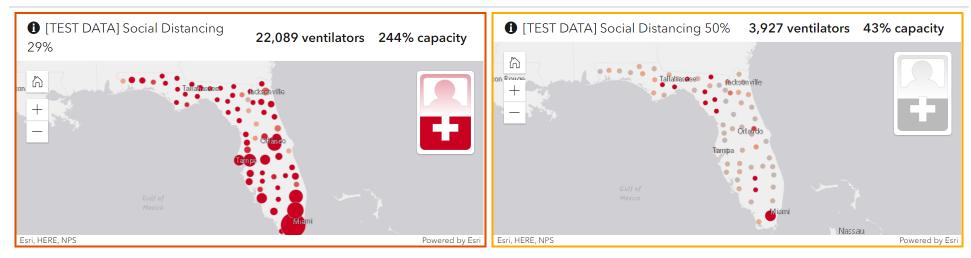
The COVID-19 Modeling toolbox provides CHIME Model v1.1.5 and COVID-19Surge (CDC) tools for ArcGIS Pro 2.3 and later to assist hospitals, cities and regions with intervention and resource planning during the COVID-19 pandemic. Version 5 of the toolbox **updates the CHIME Model v1.1.5 tool**. The COVID-19Surge (CDC) model is unchanged in this version.



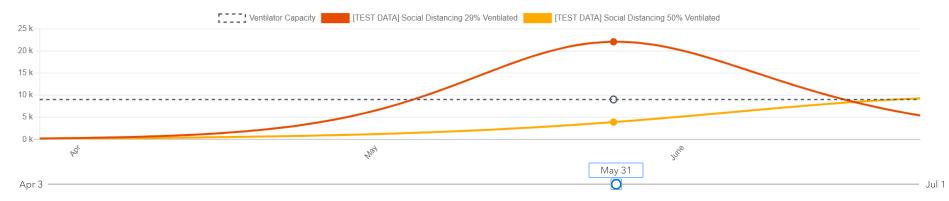


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Number of Ventilated Patients



CHIME Model

Map Legend 🗸

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Compare multiple models!





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Deploy COVID-19 ArcGIS Solutions

ArcGIS Solutions are free and supported configurations provided by Esri for defense, utilities, state government, local government, and other industries that enable typical workflows in specific industries, deliver innovation, and incorporate best practices that improve your organization's workflows.





This solution can be used by businesses during the coronavirus (COVID-19) pandemic to guide the reopening of locations that are in multiple jurisdictions.

Launch The Solution Read More



Coronavirus Wellness Checks

Engage community volunteers; register homebound individuals; conduct regular wellness checks; and monitor the wellness of vulnerable individuals.

Launch The Solution



Small Business Recovery Solution

Engage local business owners; measure impact of pandemic on small business; manage health order violations; and promote small business



ArcGIS Solutions

Coronavirus Testing Sites Solution

Maps and apps used to identify at-risk populations; locate optimal testing sites; manage testing site status; and share testing site information with the public.

Launch The Solution Read More



Business Continuity Solution

Understand the operational capacity of your workforce; monitor the status of your facilities; and communicate disruptions to customers and stakeholders during the COVID-19 Crisis.

Launch The Solution Read More



Coronavirus Recovery Dashboard

Tabulate symptoms, cases, and hospital capacity metrics; monitor key recovery trends and performance targets; and communicate progress made to interested stakeholders.

Launch The Solution

Read More

View More COVID-19 Solutions



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Follow Best Practices

The ArcGIS Community has created a vast amount of information related to COVID-19, including workflows for common tasks.



should consider when posting COVID-19 geospatial resources on the web.

Read the White Paper



ArcGIS Blogs

COVID-19: Balancing Response and Recovery

During extraordinary times, public health takes top priority. But easing economic suffering is important too, location can help.

Read the Blog



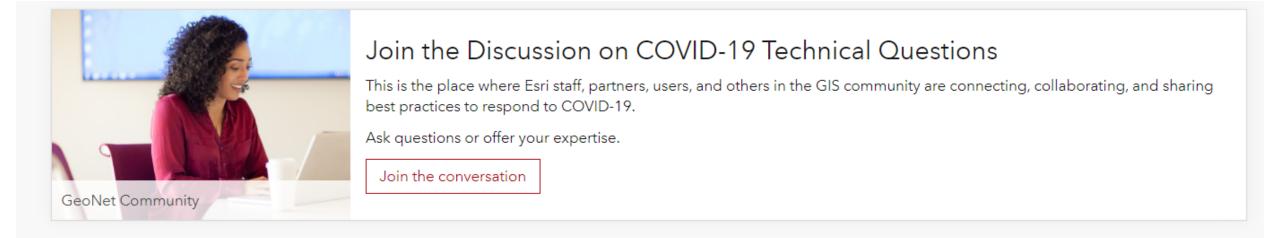
Live OpenStreetMap data in ArcGIS

This year, Esri is introducing a new set of feature layers that provide access to OSM data. These feature layers will be hosted in ArcGIS Online.

Read the Blog



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GeoNet - where the Esri Community—customers, partners, Esri staff, and others in the GIS and geospatial professional community—connect, collaborate and share experiences.



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Learn Relevant Skills

From guided lessons to blogs written by GIS experts, you have plenty of resources at your fingertips to be successful with ArcGIS.



View Resource



Webinar Series

Business Continuity & Recovery During COVID-19

Join us for this five-part webinar series to learn how businesses are overcoming unprecedented challenges during COVID-19.

Register for the Series



Over 100 lessons on building dashboards, showing trends, location-allocation models and more. Series of 5 business continuity webinars, and information on proximity tracing.

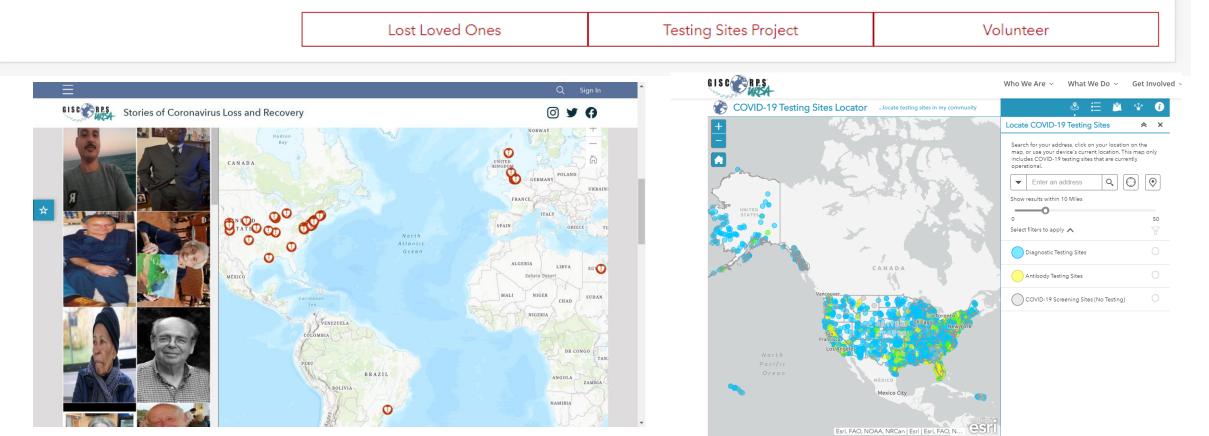


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GISCorps Projects and Volunteer Opportunities

GISCorps provides volunteer GIS professionals to public entities, nonprofit organizations, non-governmental organizations, and professional associations. If you would like to submit a memorial story or share your story of recovery, please visit the Lost Loved Ones Project. To view the nation's most complete map of COVID-19 testing sites, view the project below. You can also register as a volunteer for future projects.





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Health GIS Resources to Get Started

ArcGIS was designed to be used by anyone, and we've made accessing the tools even easier.



AN ESRI. WHITE PAPER AND STREET

Geographic. Information Systems for Coronavirus Planning and

Esri Whitepapersponse

COVID-19 Planning and Response

Location information is critical to decision-making associated with large outbreaks.

Read the paper



Funding Assistance

Health and Human Services Grants

Esri grants provide GIS tools and training for low- and middleincome countries.

See if you're eligible



Public Health Preparedness: A

Public Health Preparedness

Public health staff use GIS toolsets to visualize all types of data and information.

Read the Paper



Six Domains of Preparedness

Apply GIS to the Six Domains of Preparedness, outlined by CDC in this StoryMap.

Read the guidance

- About Esri
- What is ArcGIS Online?
- Architecting the ArcGIS Platform: Best Practices

- Free Access to GIS Training for Furloughed Professionals
- Esri's Disaster Response Program
- Enable mobile data collection

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Thank You!

Este Geraghty / June 7, 2020 @EsteGeraghty / egeraghty@esri.com

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Collaborate and communicate with GEO:

