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Coproducido con la Sociedad Química de México



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Co-produced with the ACS Senior Chemists Committee and ACS Office of Philanthropy



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Please do not hesitate to reach out to the Office of DEIR at diversity@acs.org

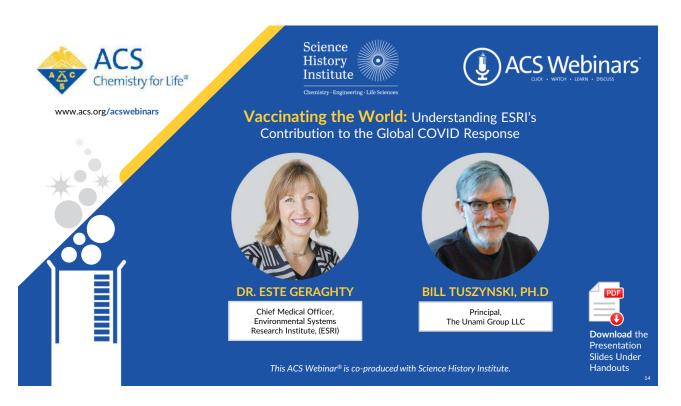
https://fs7.formsite.com/acsdiversity/ACSMemberFeedback/index.html

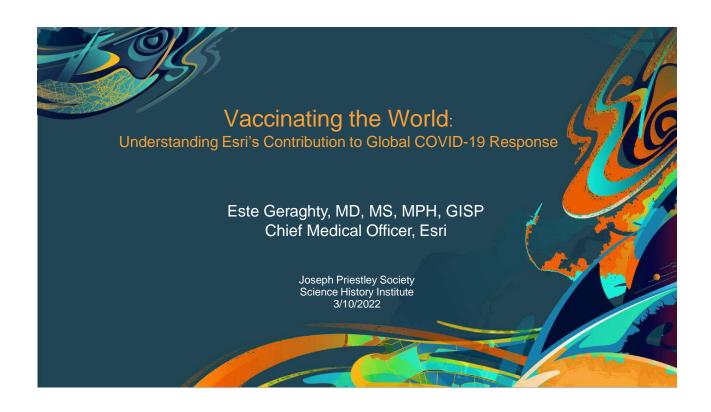




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Overview

- · Who is Esri?
- What is GIS and how is it used in health?
- The GIS and COVID-19 response story



"Esri is the rare business that has survived at least five tectonic shifts in technology...and remains at the top of its game."

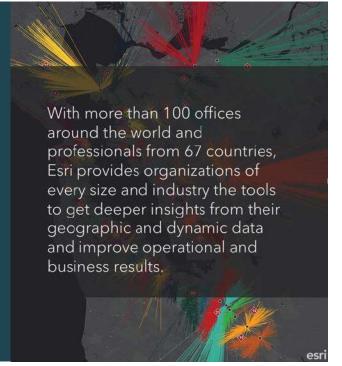
-Miguel Helft, Forbes



WHO WE ARE

Esri builds the most powerful mapping and spatial analytics products in the world.

"Esri's data-rich maps are the secret weapon behind many of today's most successful brands." -Fast Company



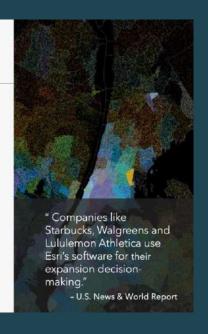
BY THE NUMBERS

Every Year:

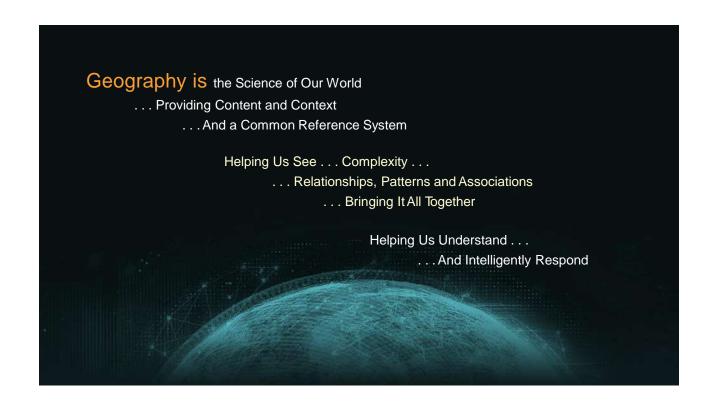
- Esri software is used by 90 of the Fortune 100 companies and half of the Fortune 500 companies
- All 50 US state governments, all the most populous cities in the US, all 15 executive departments and dozens of independent US agencies
- 87 of the Forbes Top 100 colleges in the US serving over 250,000 students in higher education
- We spend 30% of our revenue on R&D

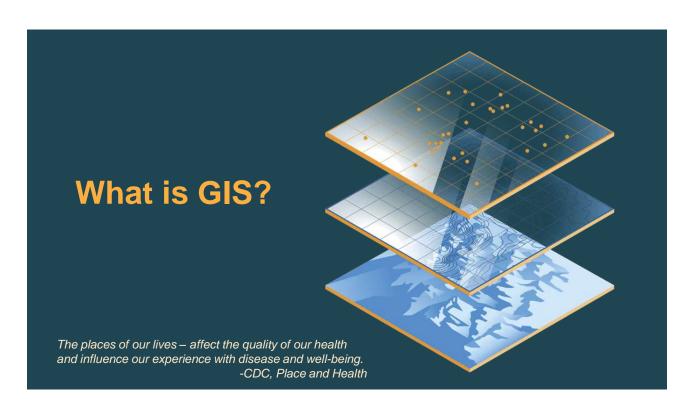
Every Day:

- The Living Atlas of the World, the largest collection of global geographic information gets more than 1 billion views of maps and datasets
- More than 142,000 people interact with Story Maps, an app that integrates maps and stories to reveal meaning and context from complex data
- Our business, government, and NGO customers create more than 15,000 ArcGIS Online maps, layers, and apps



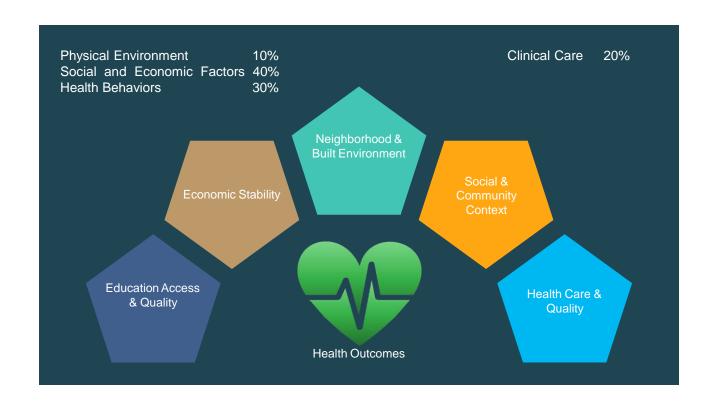










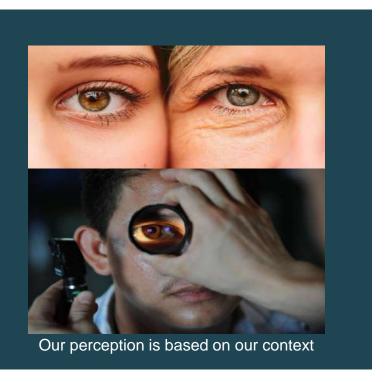


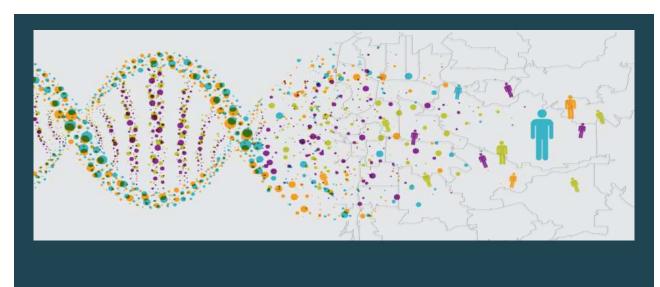


Our
environments
influence
our personal
behaviors



Our
environments
shape how we
see our world

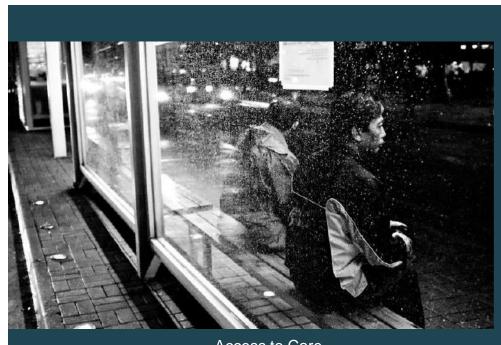




YOUR ZIP CODE > GENETIC CODE

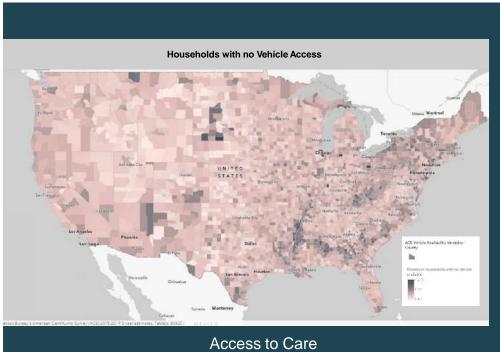


The first step for a diabetic patient to be able to take their medications...



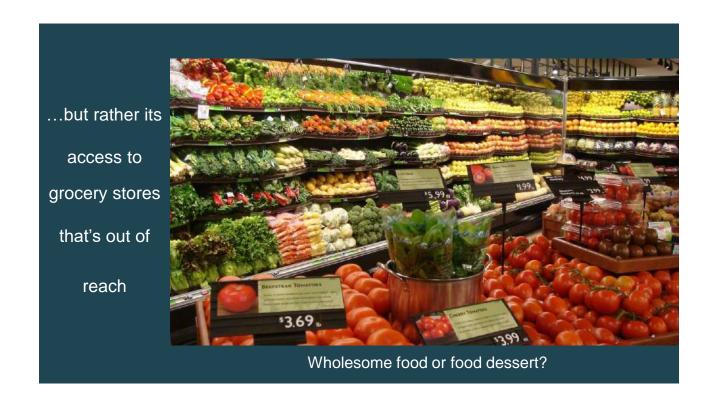
...is having the transportation to go and get them

Access to Care

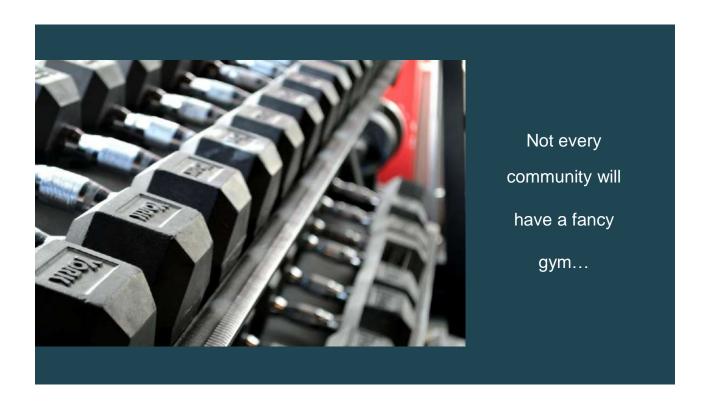


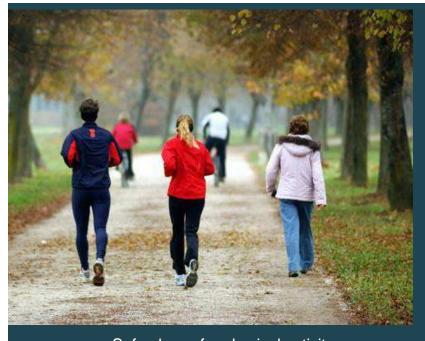
...is having the transportation to go and get them





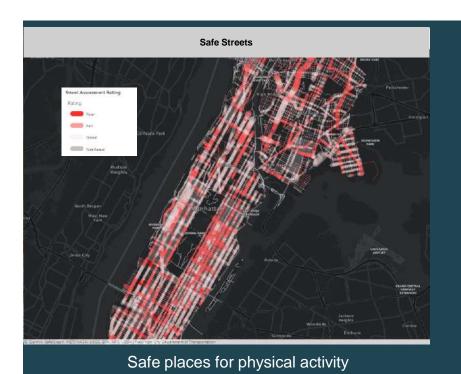






...but we know that
the population can
flourish when simple
sidewalks are
available.

Safe places for physical activity



...but we know that
the population can
flourish when simple
sidewalks are
available.



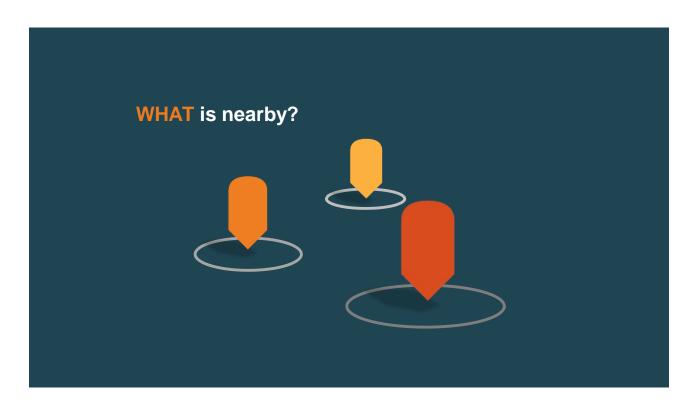
Place Matters for Health!

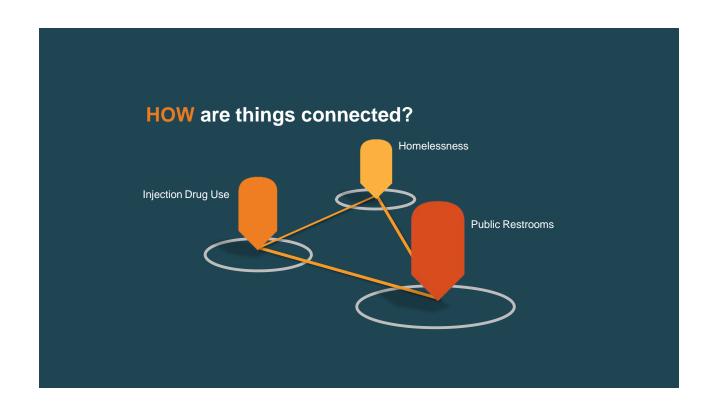
Place Matters in Health

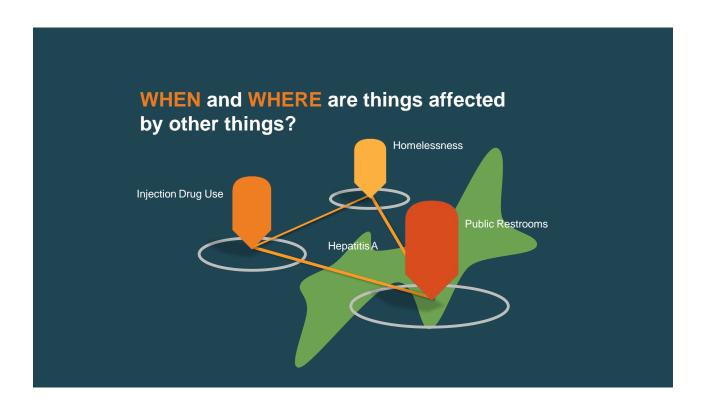
WHERE people live and the environments around them, has a significant impact on their personal health and outcomes

Hippocrates, 460 BC

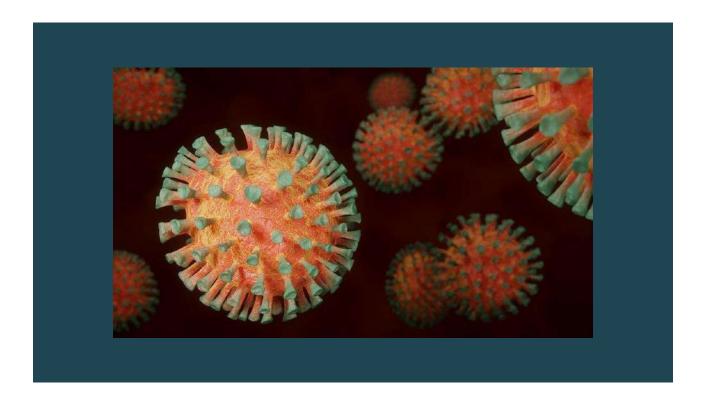










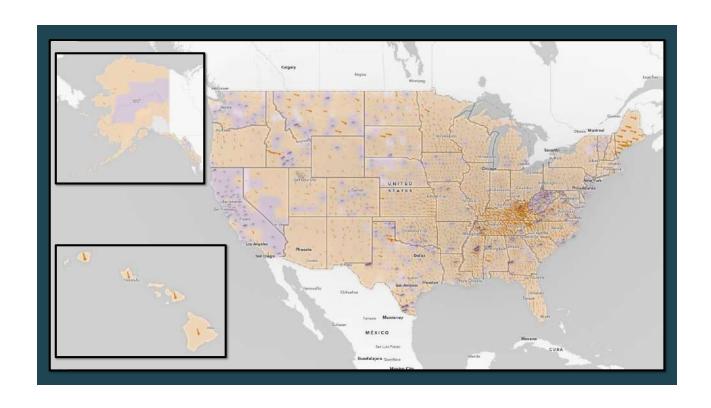


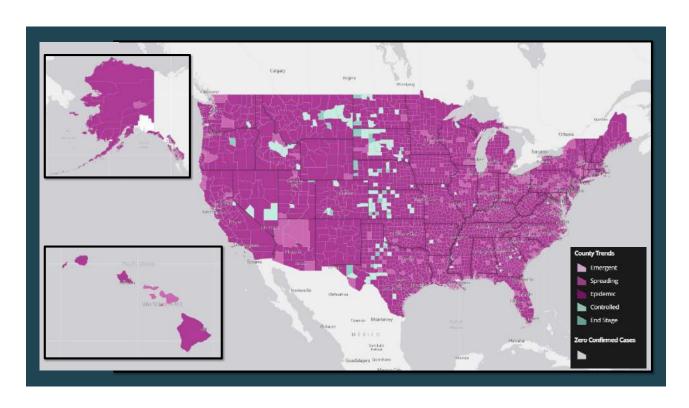
How GIS supports pandemic response: Situational Awareness Spatial Analysis & Equity Engagement

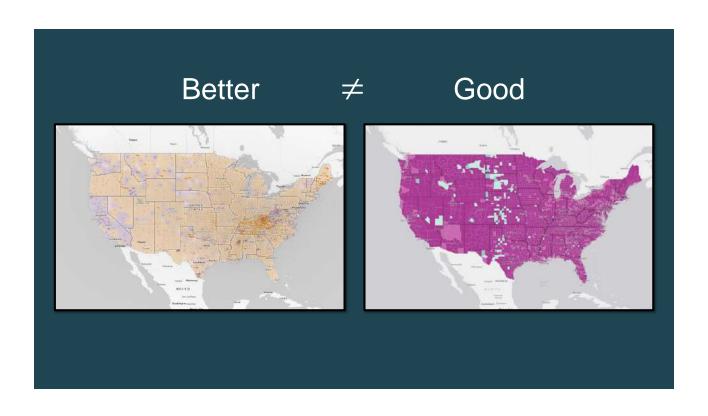


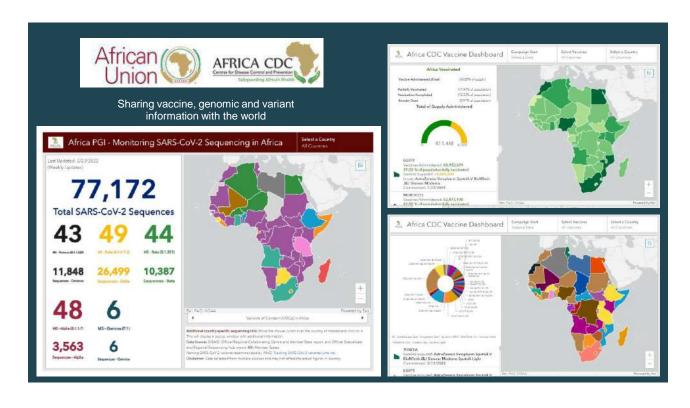


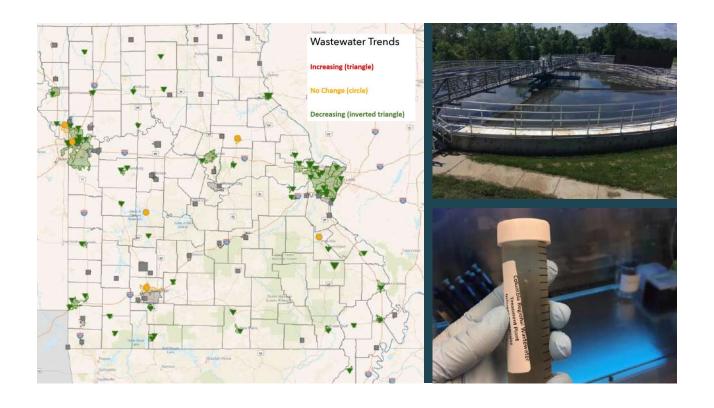






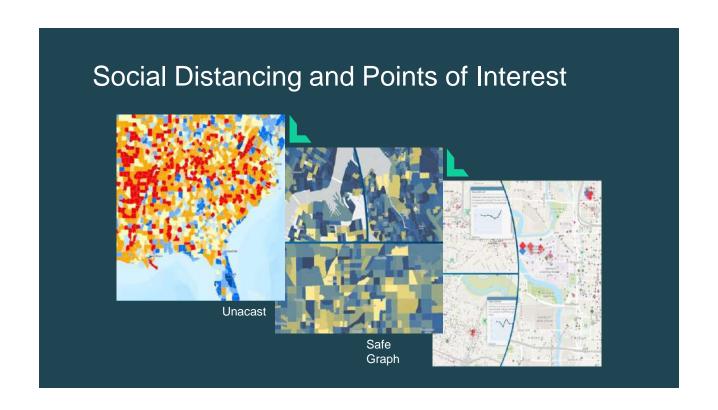


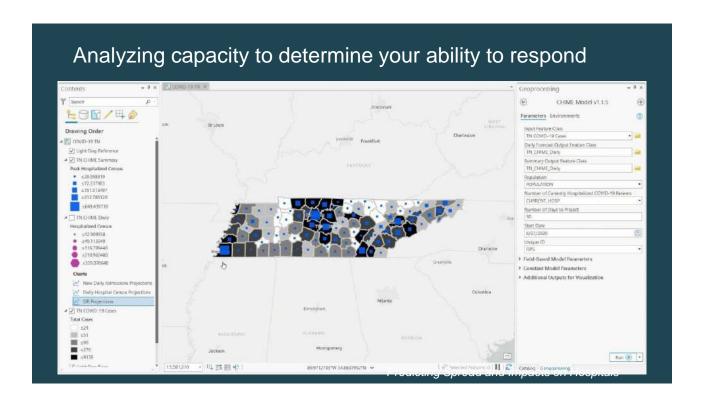




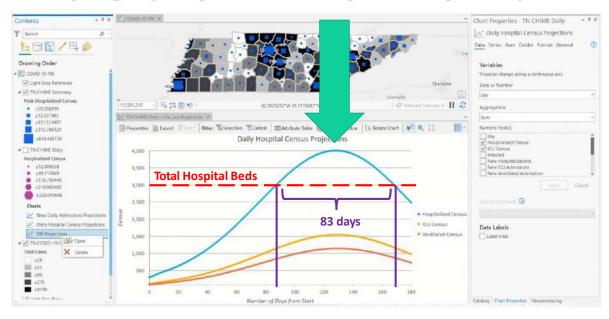
How GIS supports pandemic response:

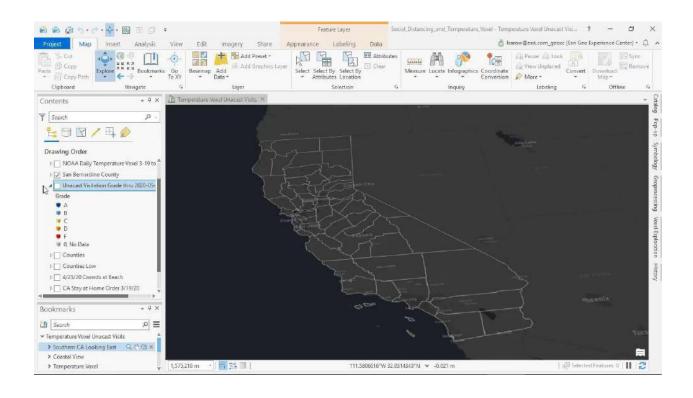
Spatial Analysis & Equity

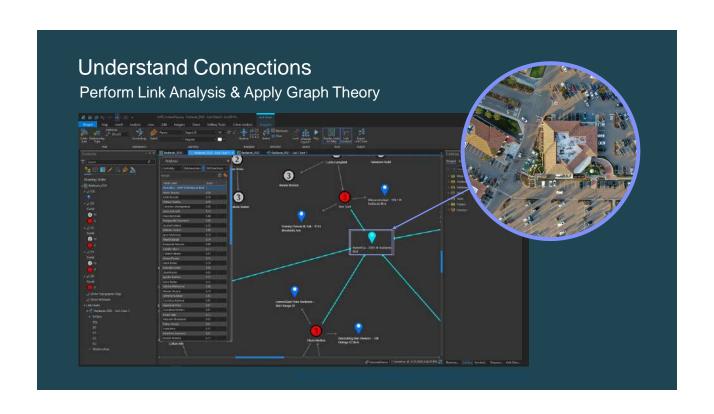




Analyzing capacity to determine your ability to respond

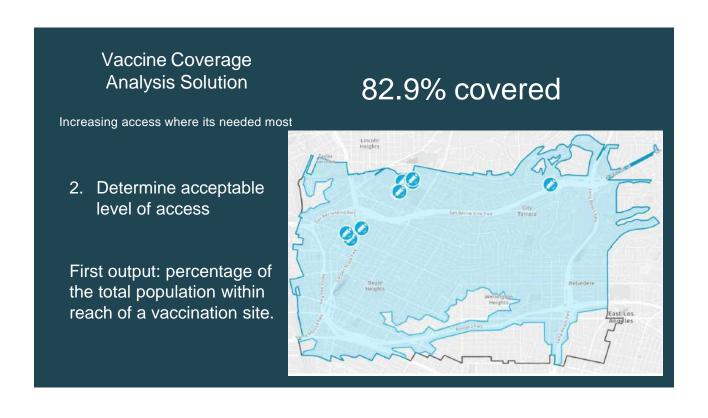








Vaccine Coverage Analysis Solution Increasing access where its needed most 1. Start with existing vaccination locations Increasing access where its needed most Williams Torrest Medication Service Servic



Vaccine Coverage Analysis Solution

Increasing access where its needed most

3. Collect and map candidate vaccination sites to fill gaps



Vaccine Coverage Analysis Solution

Increasing access where its needed most

4. Add factors to weight results toward greater equity



Vaccine Coverage Analysis Solution

Increasing access where its needed most

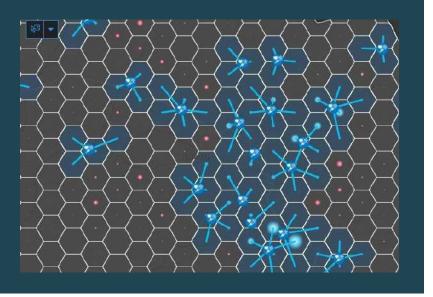
Final output: a selection of the fewest number of new vaccination sites that close geographic gaps while favoring the most vulnerable areas



Determine Gaps in Access | Formulate Alternative Distribution Options

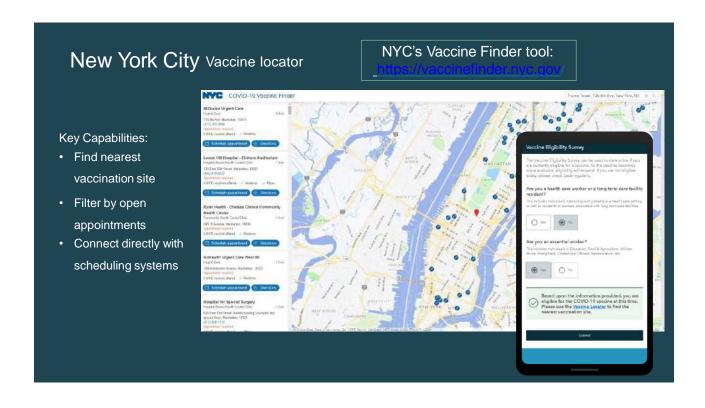
Steps

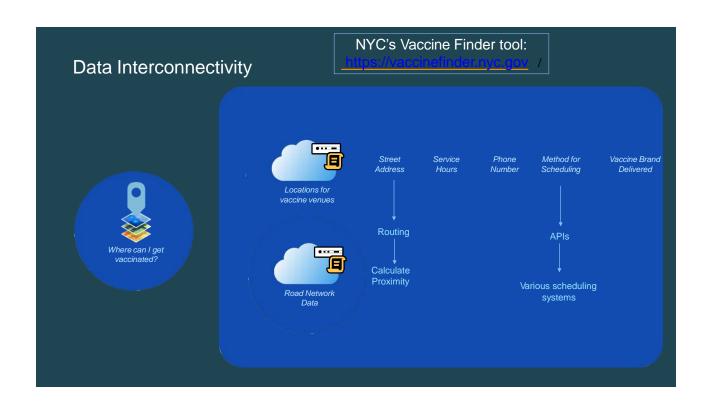
- Calculate accessibility by using slope, landcover and elevation across small hex bins.
- Each hex bin has a level of difficulty to traverse.
- Each level of difficulty is associated with a travel time.

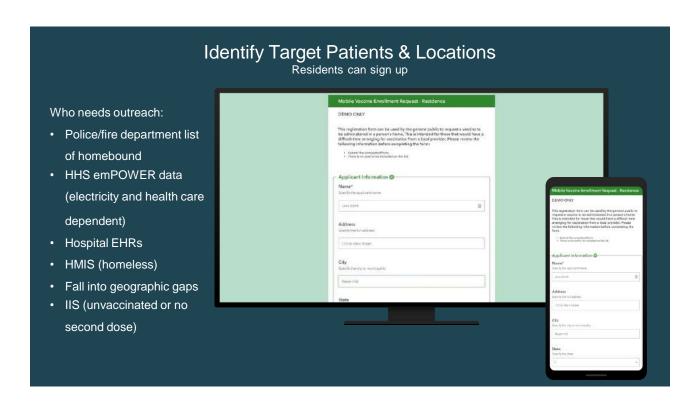


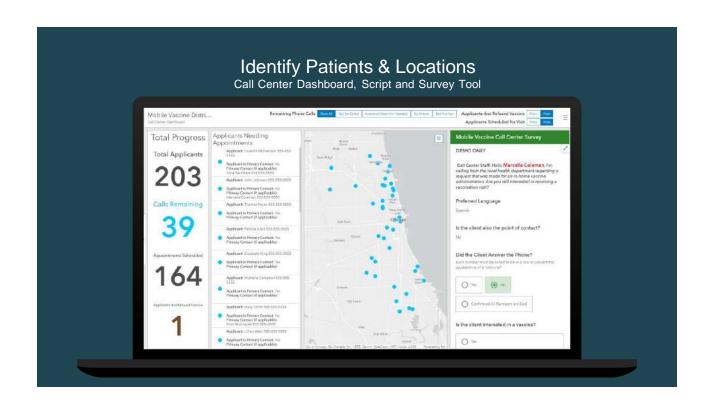
How GIS supports pandemic response:

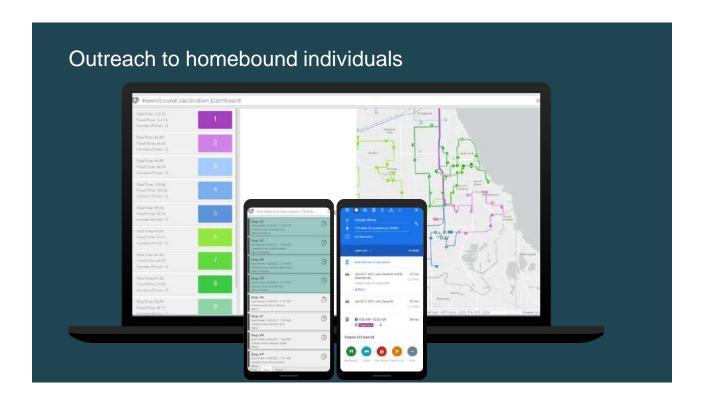
Engagement







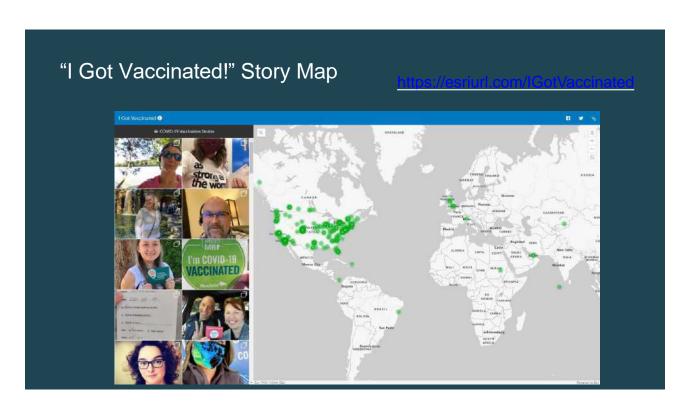


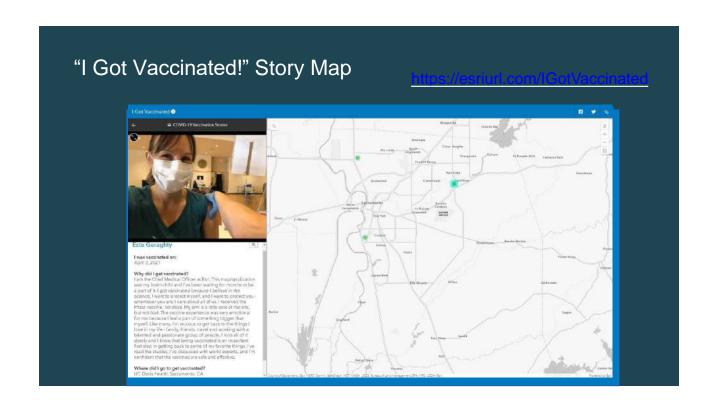


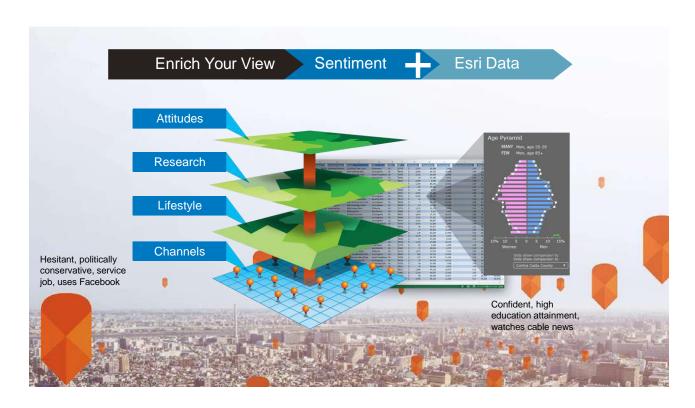


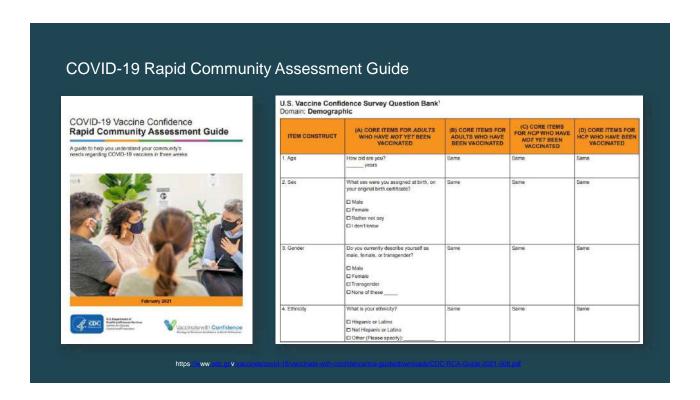


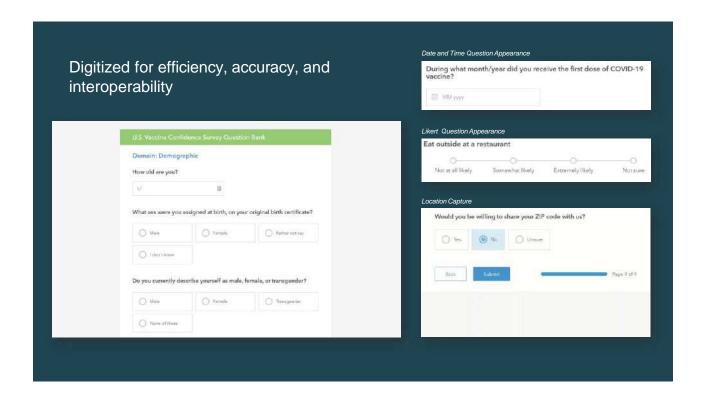


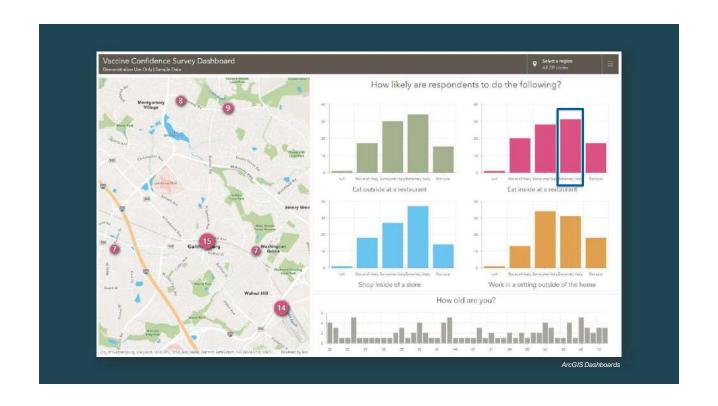


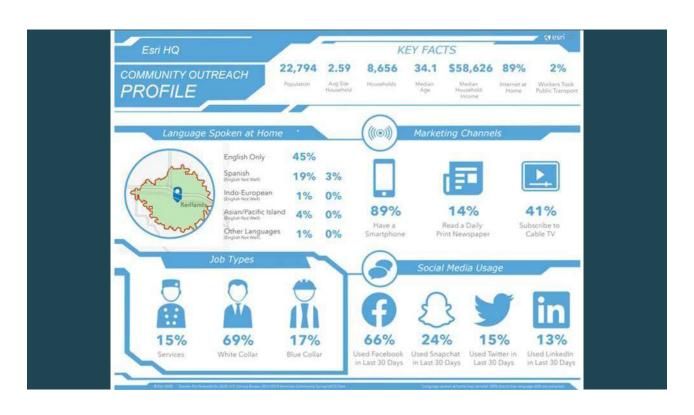


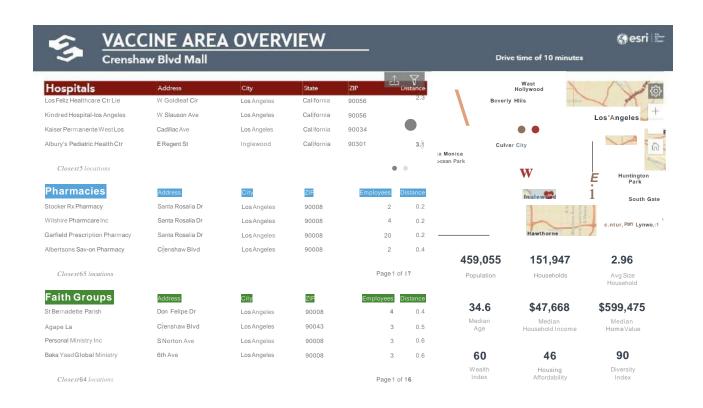






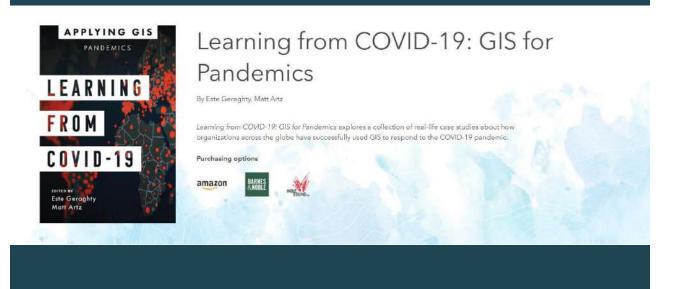








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