Moving from Response to Recovery with GIS



Get Answers: Questions will be answered at the end.

You can submit them at anytime through the Q&A module.



On-Demand: The recording will be posted shortly after the webinar.



Start time: The webinar will start at 7:00 am PDT



Contact us: For anything else, please email us:

Ipeters@esri.com





6/5/2020, 8:33:18 AM

Today's Presenters



Linda Peters
Global Manager
Official Statistics



Katherine Smyth
Solution Engineer
National Government



Brent Jones
Global Manager
Land Records and
Cadastre



Calvin Kwon
Solution Engineer
National Government

Objective:

To demonstrate the value of GIS as we move to re-open with a focus on the application of spatial data for decision making.

Moving from Response to Recovery with GIS

Agenda

- Disaster Response and GIS
- Business Continuity Recovery and Re-Opening
- Demonstrations
- COVID-19 Support and Solutions
- Open Q/A



Geospatial has a key role to play in Corona Virus response and recovery









Health, Demographics and Statistics

Aid in understanding and response



Analytics



West Africa

Liberia

Ebola Response



Access to Care

PAHO

SEDAC-CIESEN

Use ArcGIS Insights for

to COVID-19

Understanding and Responding





Chile

COVID-19 na Perspectiva Geográfica e Estatística

Brazil

Unemployment



in Time Count w3,787



Haiti UNICEF

Homeless Point

San Bernardino County

ArcGIS Insights for

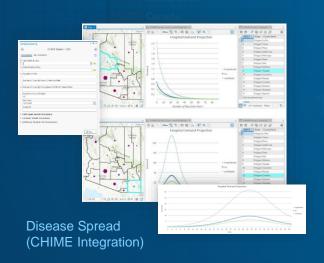


Contact Tracing

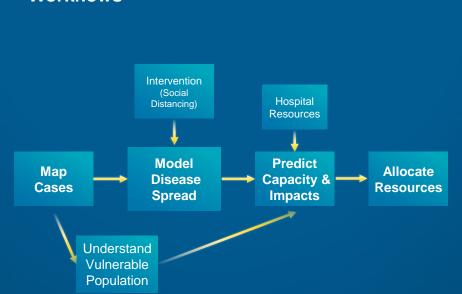
Understanding the Impacts of COVID-19: Five Steps

Step 1	Step 2	Step 3	Step 4	Step 5
				Iran 11,053 recovered
Map the Cases	Map the Spread	Map Vulnerable	Map Your Capacity	Communicate with
		Populations		Maps

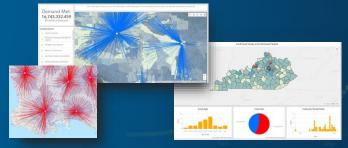
Modeling & Analysis



Workflows



GIS Apps





Modeling & Spatial Analysis

Pattern Detection



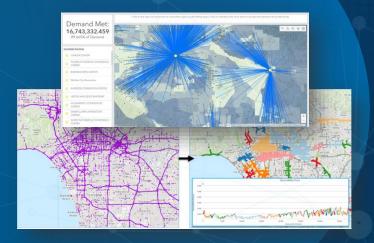
Finding Statistically Significant Clusters & Patterns

Modeling Prediction



Predicting Geospatial Events/Phenomena

Site Selection and Resource Allocation



Location/Allocation

Coronavirus Business Continuity Solution

Helping Organizations During a Crisis

Report and Monitor

Status of Your Facilities

Capacity of Your Workforce

Health of Your Employees

Understand and Act

Current Status of Your Workforce and Facilities

Shifting Customer Demand

Policy Restrictions

Communicate

Current Operations and/or Disruptions to Customers and Stakeholders



Facility Status





Market Stability

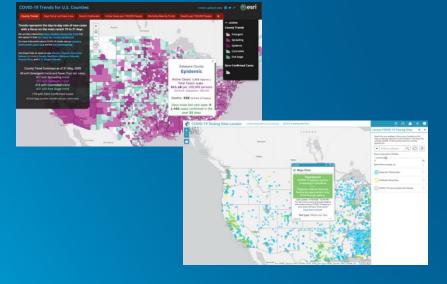


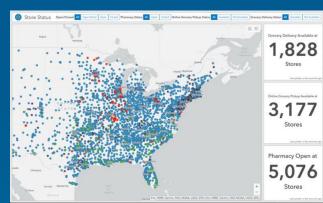
Supply Network Resilience

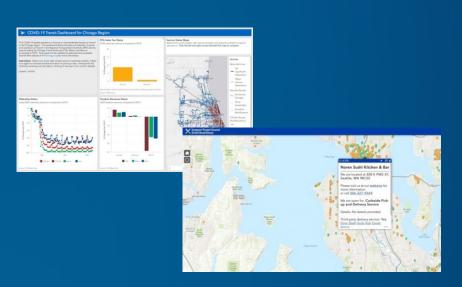
Understanding the Impacts of COVID-19 for Re-Opening:

A location-based approach to monitoring reopening and economic indicators

Step 1	Step 2	Step 3	Step 4	Step 5
Map the Trends	Map Community Resilience	Map Organizational Resilience	Map the Impacts	Communicate with Maps







Field Operations | Location Enabling All Aspects of Field Work

Capabilities

- Tracking Online
- Offline Workflows
- Preplanned Routes



Planning and Management





Navigation



Navigator



Maps & Mark Up



Organizations are Now Shifting From COVID-19 Response to Recovery and Reopening

Brent Jones

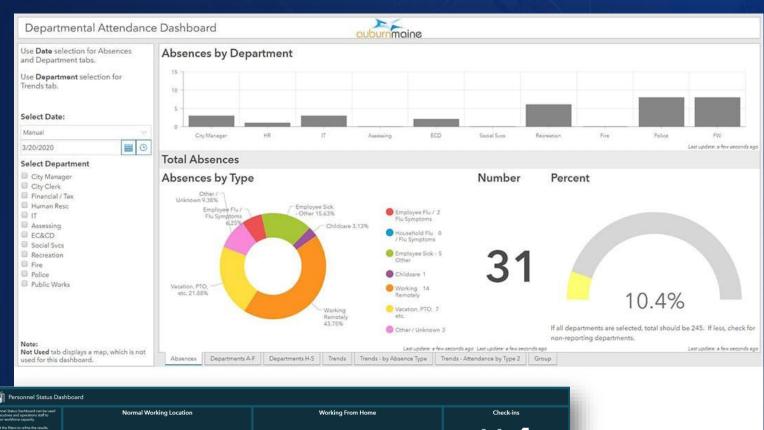
Business continuity is an organization's ability to maintain essential functions during and after an interruption, such as a hurricane, earthquake or global pandemic. It's the ability to serve the public, execute mandates, and keep our staff safe.

GIS can help.



Do you know **where** your employees are working and if they are safe?

Do you know which employees are in the office, working from home or in the field?





Are you able to communicate the status of employees and facilities with Human Resources and senior leadership?

Are you able to share the status of employees and facilities with other internal decision-makers?

Does the public know which of your offices or stores are still open, and which are impacted or closed?



Lack of continuity planning can result in a cascade of failures as employers attempt to address challenges of COVID-19 with insufficient resources.

OSHA Guidance on Preparing Workplaces for COVID-19

Common Technical Challenges

Fast to deploy, web-based cloud solution

Challenges

IT Infrastructure

Lack of Resources

Data Accuracy

Timeliness

Development Time

Custom Development

Cost

Solution

Cloud-based SaaS

Template-based

Single Data Platform

Real-time Web Services-based

COTS – Off-the-shelf

No Software Development

Very Low Cost

Coronavirus Business Continuity Solution

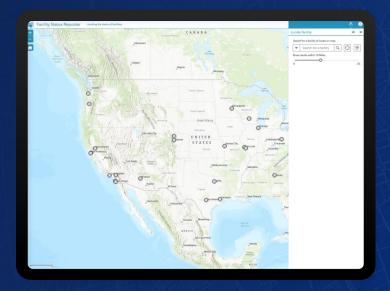
Report and Monitor

- Status of Your Facilities
- Capacity of Your Workforce
- Health of Your Employees (Optional)



Understand and Act

Current Status of Your
 Workforce and Facilities



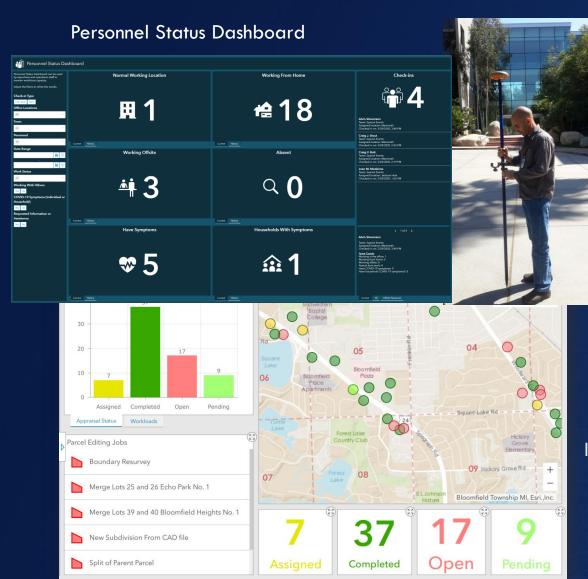
Communicate

 Current Operations and/or Disruptions to Customers and Stakeholders

Name of Facility Est Devices		
Status*		
O Open	Closed	O injusted
Staffing ©		
Number of staff wor	king in the office"	
Ą		
Number of staff wor	king remotely*	
ú		
Number of staff abso	ent*	
پ		
Operating with esse	and a state or to the	
O va.		
U m	0	

...Supporting commercial organizations, utilities and government agencies

Apps for Workforce Capacity



	Status 💁
re y	ou working today?*
0	Yes
0	No
/her	e are you working?*
0	Normal work location (Campus / Building)
0	Temporarily working from home
0	Offsite / Other
	reds University, Dr. (2) Retilizato, County of Revealth, San Bernardho Cilony, B. Roward Sy. E. Lett. 34.05622 Lon. 117.19533
	ou working with anyone today? expecting to be in close contact with any individuals)?
	Yes
0	
0	No

Individual Check-in Survey

Please provide	the number of team members who are:
Working from t	their normal location (Campus / Building)?*
123	0
Temporarily wo	orking from home?*
123	
Working offsite	e or another location?*
123	s or another location?"
Experiencing a	any COVID-19 symptoms?*
Fever, cough, or diff	ficulty breathing.
In the same hor symptoms?* Fever, cough, or diff	usehold with someone experiencing any COVID-19 Really breathing.
Can our organia	ization provide any additional information or assistan

Team Check-in Survey

← Health Status (Optional) 🗨	
Our goal is to provide a safe workplace for to slow the spread of COVID-19. The health optional. If you choose to share any sympto your household, are experiencing, this may among stiff, maintain a healthy business op additional assistance you may need or requ	status questions are ms you, and members of help us reduce transmission peration, and provide
Are you currently experiencing any COVID- Select all that apply.	19 symptoms?
Fever	
Cough	
Difficulty Breathing	
Are any members of your household experi symptoms?	encing any COVID-19
O Yes	
O No	
Additional Information	
Can our organization provide any additiona	l information or assistance?
	2000 /
Submit	

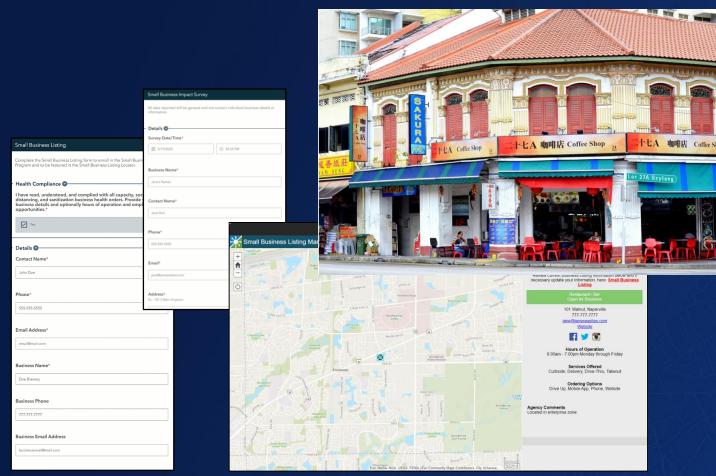
Health Status Check-in (optional)

Apps for Facility Status Facilities Status Dashboard **Facility Reports ≝** 0 **7 # 1** Щ48 №216 915 Facilities Status Dashboard O No O No Facilities Status Dashboard O No

Facility Status Report

Facility Status Reporter

Apps for Economic Development and Businesses



Small Business Listing

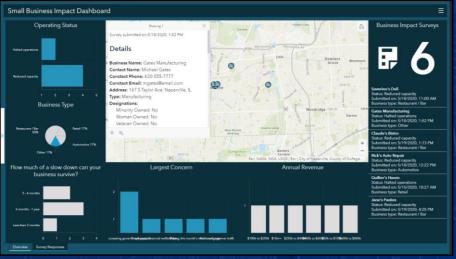
Small Business Listing Manager

Visit to Public V \$ Basiness Name V \$ Basiness Type V \$ Business Type Other V \$ Status V \$ Comploys Company of the Visit Status Company of the Visit

Small Businesser

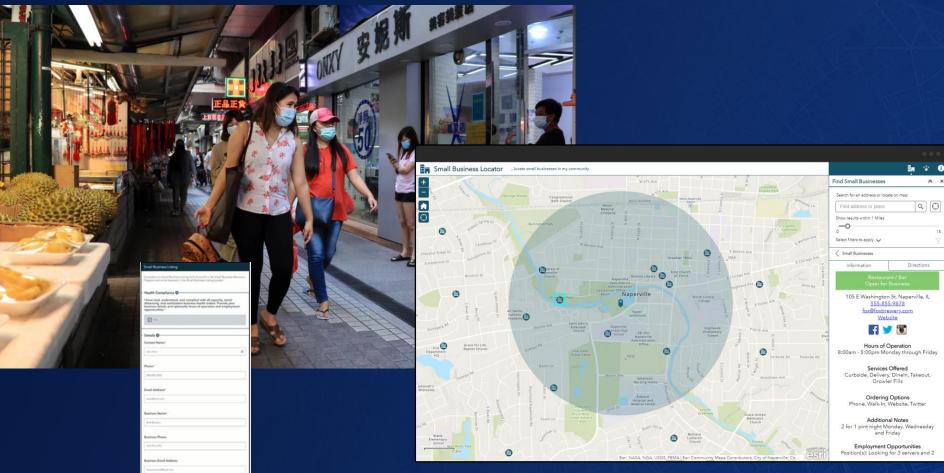
Small Business Program Manager

Small Business Program Manager



Small Business Impact Dashboard

Apps for Residents



John Doe	
Phone*	
555-555-5555	
Email*	
johndoe@email.com	
Occurred On*	
	0 04:43 PM
) 04:43 PM
) 04:43 PM
5/19/2020) 04-43 PM
5/19/2020) 04:43 PM
Occurred On* 5/19/2020 Business Name* Jane's Pasties)04:43 PM
© 5/19/2020 Business Name*)04.43 PM
Business Name* Jane's Pasties) 04:43 PM
© 5/19/2020 Business Name*) 04:43 PM
Business Name* Jane's Pasties Location*	
Business Name* Jane's Pasties Location*	TOTAL
Business Name* Jane's Pasties Location* 101 S Washington Naper X Q Peaking Peaking	ren. f.h.
Business Name* Jane's Pasties Location*	TOTAL

Health Violation Reporter

Small Business Locator

From Response to Recovery and Re-Opening

Response



Recovery



Business Continuity

Understand the operational capacity of your workforce; monitor the status of your facilities; and communicate disruptions to customers and stakeholders. Re-Opening



Small Business Recovery

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

SLOW ECONOMIC GROWTH

UNEMPLOYMENT

EXTERNAL DEBT

WATER OVER-CONSUMPTION



SOCIAL CONFLICTS

CRIME GROWTH

DEMOGRAPHIC SHIFTS

UNPLANNED URBAN GROWTH



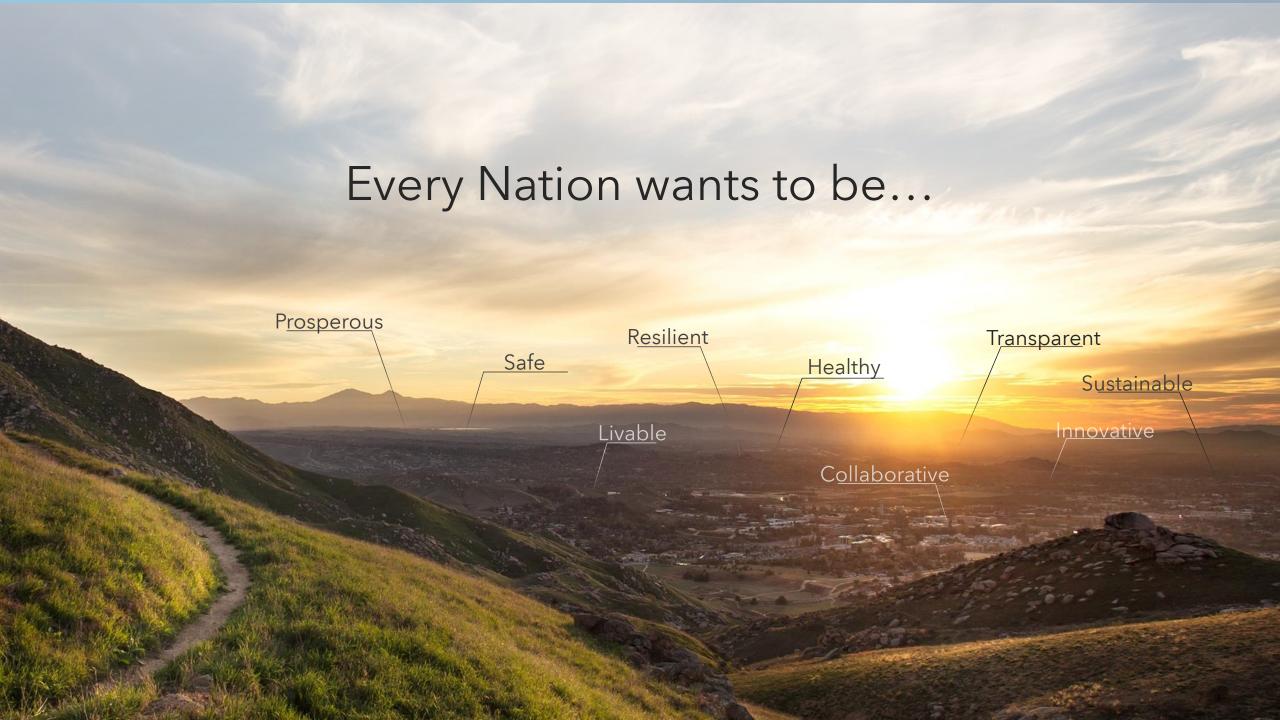
DISASTERS

CLIMATE CHANGE

FLOODING

FOOD SCARCITY





COVID-19 Support

Request Assistance and Explore Resources:

www.esri.com/disaster

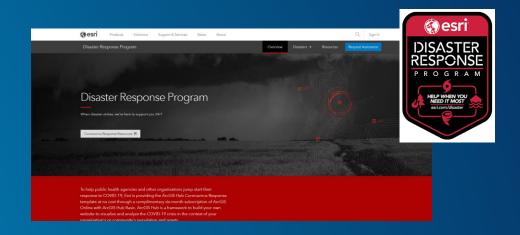
Request Assistance via Email:

disaster_help@esri.com

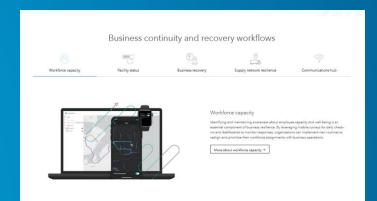
Solutions to help you re-open

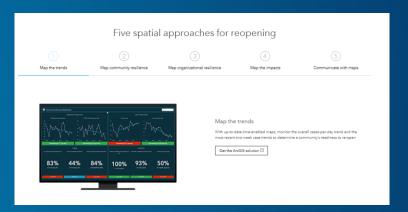
https://solutions.arcgis.com/











Questions?



Contact us: For more information, please email us:

Ipeters@esri.com