Combating the Opioid Epidemic and Reducing Homelessness Using ArcGIS

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Introduction to Local Government Solutions Program

Solutions to Reduce Homelessness

Questions about Homelessness solutions

Solutions to Tackle the Opioid Epidemic

Questions about Homelessness solutions

Getting Started, Resources
Opioid Epidemic

Two big problems in our society

Homelessness

...how can GIS help?
GIS Has Evolved

Your GIS is an Interconnected Platform

Bringing Together Data, Technology, and People . . .

. . . Creating a Framework for Solving Complex Problems
Turning Point

ArcGIS Online

Mapping Without Limits
ArcGIS Online is a Complete, Cloud-Based Mapping Platform

ArcGIS Online mapping tools are powerful yet simple to use so everyone in your organization can make and share beautiful maps.

ArcGIS Industry Specific Maps and Apps
ArcGIS Solutions deliver Ready-to-Use Maps and Apps to jumpstart your work.

Leverage hundreds of ready-to-use maps, apps, and platform configurations to meet your needs, delivering innovation and best practices for your organization.

ArcGIS Solutions
ArcGIS Solutions for Local Government

Improving local government operations and enhancing services provided to the public

- Collection of useful maps and apps
  - Configurable and extensible
  - Freely available and fully supported

- Community of users (2000+ Meetup members)
  - Best Practices / Implementation Support

- Network of Esri Services and Partner offerings
  - Help users implement, sustain and enhance

…..Available on-premise or in the cloud
Mission

• Deliver maps and applications quickly throughout their organization
  • Roadmap for standard capabilities, improve service delivery, expand reach, innovation....

• Stay current with future releases / avoid legacy technology
  • Save time and money, leverage new ArcGIS offerings, focus on complex or unique problems....

• Unlock geospatial platform so it can be leveraged by many
  • Mitigate many organizational challenges, maximize technical expertise....

• Leverage the collective knowledge of the entire community
  • Best practices, industry tradecraft....
Homelessness Solutions
Denver’s homeless problem taking toll on businesses

Is Austin in a housing crisis? Affordability concerns continue to grow

The high cost of homelessness touches all of us

Homelessness keeps rising in Seattle and King County
Reduce Homelessness Solution

• A series of maps and apps that support health and human service agencies working to reduce homelessness
  - Conduct Point-in-Time Counts
  - Report Homeless Activity
  - Find Homeless Services
Overview of Solutions

Health and Human Services

Reduce Homelessness
A collection of maps and apps used by health and human services agencies to count the homeless population, inventory homeless resources, and increase awareness of homeless services.

Conduct Point-in-Time Counts
Homeless Point-in-Time Counts can be used by health and human services agencies and their network of volunteers to conduct sheltered and unsheltered homeless surveys.

Inventory Health Resources
Health Resource Inventory can be used by health and human services agencies to inventory homeless drug treatment, and other service providers in a community.

Get Started
Learn how to leverage your geographic information and the ArcGIS Platform to improve government activities and enhance services delivered to the general public.

Online Mapping Platform
Our ArcGIS Online model implementation will help you organize your geographic information and promote collaboration in your organization.

Discussions on GeoNet
trying to find coincident boundary...
Questions?
Opioid Solutions
Effective Execution of Comprehensive Opioid Strategies

- **Communication and Collaboration Are Critical**
  - Citizens, At-Risk Populations
  - Providers
  - Policy-Makers and Funders
  - Coordinating Internal Resources and Across Departments

- **Supporting Data-Driven Decision-Making**
  - Leveraging data you already have
  - Key datasets not timely or high quality
  - The right analytical tools for the right user
  - Information Products for Decision-Making
  - Data Security

...Questions of “Where” cut across every aspect of an opioid strategy...
ArcGIS for the Opioid Epidemic Solution
Leverages and integrates authoritative datasets on the problem and the response

ArcGIS for the Opioid Epidemic
A Location Strategy

Improving Education
- Educate the Community about the problem with interactive Story Maps

Accessible Treatment
- Web mapping apps for promoting treatment Options

Successful Prevention
- Apps to collect and measure Drug Drop-Box activity
- Apps to Monitor and Coordinate the Strategy

Effective Response
- Monitor Opioid Response
- Track Naloxone Deployments
- Citizen Reporting of Drug Tips

...to deliver a collection of focused maps and apps to tackle the opioid epidemic
By configuring and leveraging the ArcGIS Platform the Tri-County Health Department was able to quickly communicate the extent of the problem in their community, share data and application, establish partnerships and provide practical ways for community members to become part of the solution. (ArcGIS Open Data Site, Drop Box Locator)
Oakland County, Michigan
In 2015, Northern Kentucky lost an average of one person to drug overdose every 40 hours. To increase awareness of the epidemic, and relate the complexity of its causes, the Northern Kentucky Health Department published drug-related incident data across the eight counties of the Northern Kentucky Area Development District in a dynamic online portal. Along with geo-enabled data on morbidity, opioid prescriptions and current response efforts, the Northern Kentucky Health Department provides narrative text to explain the insights revealed with GIS.

Based on findings from their data, Northern Kentucky has developed a six-pillar heroin impact response plan that includes prevention, harm reduction, treatment, recovery, supply reduction and advocacy. As community partners work to update the plan, the GIS data, published on a public ArcGIS platform, will be a key resource. It can also provide information for individual citizens to support government efforts against the drug epidemic. As response efforts change conditions, the maps and associated reports are updated every six to 12 months.

“Most people didn’t know where to find in the area. Actually showing people what treatment is available and connecting them with that treatment is a huge step in the right direction.”

Debbie Young,
Public Health Informatic Manager
Opioid Epidemic Solution

- A series of maps and apps that support health and human service, law enforcement and communities working to tackle the opioid epidemic
  - Naloxone Deployment Reporter
  - Drug Activity Reporter
  - Measure Drop Off Effectiveness
  - Treatment Options
  - Opioid Awareness Maps
Overview of Solutions

Tackle Opioid Epidemic
A collection of maps and apps used by public health and safety agencies to communicate the severity of the opioid epidemic, promote treatment alternatives, and understand the effectiveness of response activities.

Educate the Community
Opioid Awareness Maps can be used by public health and safety staff to produce overdose and death maps that communicate the severity of the opioid epidemic.

Track Naloxone Deployments
Naloxone Deployment Report is used by public safety staff to inventory where naloxone was used to treat an opioid overdose during an emergency incident.

Online Mapping Platform
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Discussions on GeoNet
"One or more layers failed to draw" - ...
April 17, 2018
I am attempting to create a grid system in order to...
Questions?
How do I get started?

Leverage solution offerings to maximize technical expertise and minimize deployment time

• Deploy quick wins
  • Configure your mapping platform
  • Align with strategic business needs
  • Implement one or more focused maps and apps
• Organize your data
• Iterate.....
The Community

It's not just about the technology
Thank you

Be innovative, aware, and know you are not alone

http://solutions.arcgis.com/#Local-Government
http://meetup.com/ArcGIS-for-Local-Government/
@ArcGISLocalGov
http://esri.github.com
Please Take Our Survey on the App

Download the Esri Events app and find your event

Select the session you attended

Select the Feedback tab

Complete answers and select “Submit”