Overview:
ArcGIS for the Opioid Epidemic
Maps and Apps to help your community fight back

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ArcGIS | A Complete GIS Platform

A System for Managing and Applying Geographic Information

Deployable On-Premises and in the Cloud

Available as SaaS

Supporting Individuals, Teams, and Organizations
The Problem: 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

• **Costs are Rising**
  - Demonstrating ROI is a growing problem

…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

Monitor Opioid Response
- Opioid Awareness Maps Project for ArcGIS Pro
- Opioid Awareness Story Map

Monitor Opioid Response
- Opioid Response Dashboard
- Opioid Death Reporter
- Opioid Overdose Reporter

Promote Treatment Options
- Locate Treatment Providers
- Find Pain Management Options
- Inventory Health Resources

Measure Drop-Off Effectiveness
- Find Drop-off Locations
- Track Drop-off Collections
- Inventory Health Resources

Track Naloxone Deployments
- Naloxone Deployment Reporter

Report Drug Activity
- Drug Activity Reporter
- Drug Activity Manager
- Drug Activity Dashboard

...to deliver a collection of focused maps and apps to tackle the opioid epidemic
Apps Enabling Community Education
ArcGIS for the Opioid Epidemic

Organize and share death and overdose data

Share your community’s story:
Apps to Promote Treatment and Pain Management Options
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Catalog resources in your community...

...and help citizens find them
Apps to Measure Drug Drop-Box Effectiveness

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Help Citizens locate nearby drug drop-off boxes

Help officials tabulate and report collection weights
Apps to Track Naloxone Deployments
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Understand where naloxone gets deployed in real-time
Calculate save rates
Identify Spatial Patterns to Optimize Availability
Apps Enable Citizen Reporting of Drug Tips
ArcGIS for the Opioid Epidemic

Enable Drug Tip Reporting for Citizens

Assign and Manage Officer Follow-Up Activities
Apps to Manage Your Strategy and Communicate to Stakeholders

ArcGIS for the Opioid Epidemic

Capture and build authoritative datasets on opioid deaths and overdoses in your community.

Enable Executive Oversight into current trends and the progress of your strategy.

Enable open data pages to facilitate transparency and data sharing with public stakeholders.
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)
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
Getting Started
ArcGIS for the Opioid Epidemic
Why Esri?
ArcGIS for the Opioid Epidemic Offering

**Location Platform Technology**
- Leverages data you already have and makes it accessible across organization
- Enables quality, real-time data collection, visualization, and analysis
- Analytical tools for all skill levels
- Configure apps to deliver actionable intelligence for decision-making
- Supports data security needs with multiple deployment patterns

**Configurable Apps**
- Deliver geographic content in the form appropriate for each type of constituent- tell your most effective story with maps
- As strategy evolves, technology goes with you:
  - Re-configure your apps as needs evolve
  - Configure new apps as new projects emerge
  - No need to go back out to RFP to build another data silo

**Demonstrate Success of Strategy**
- Real-Time access to mission critical KPIs
  - Are outcome measures decreasing (overdoses, deaths)
  - Are outputs successful (naloxone deployments resulting in saves?)
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