How Do You Solve a Problem?

Using Web GIS to address the Opioid Epidemic
HHS announces over $70 million in grants to address the opioid crisis

Health and Human Services Secretary Tom Price, M.D., today announced the availability of over $70 million over multiple years to help communities and healthcare providers prevent opioid overdose deaths and provide treatment for opioid use disorder, of which $28 million will be dedicated for medication-assisted treatment (MAT).

National City-County Task Force on the Opioid Epidemic

The National League of Cities (NLC) and the National Association of Counties (NACo) have launched a joint task force to address our nation’s opioid and heroin abuse crisis. The National City-County Task Force on the Opioid Epidemic is comprised of city and county leaders from across the country and will convene twice to discuss the role of cities and counties in addressing the current crisis, beginning with a meeting in Washington, D.C. in April. Following these convenings, the Task Force will publish a report featuring policy recommendations and best practices.

Task Force Objectives

The Task Force will explore how cities and counties collaborate to address the opioid epidemic and how local leaders can help to build upon these collaborations and scale them nationally, in order to improve outcomes in local communities across America that have been impacted by the epidemic. The Task Force will aim to increase awareness of the opioid epidemic, elevate proven solutions, provide policy recommendations to local, state and federal governments, and disseminate guidance and solutions to city and county officials.
PUBLIC HEALTH

From Alaska To Florida, States Respond To Opioid Crisis With Emergency Declarations

August 11, 2017 - 4:43 PM ET
Heard on All Things Considered

Ohio Councilman proposes “Three Strikes, You’re Out” policy for heroin overdoses

June 27, 2017 07:07 AM

Overdoses from heroin and other opioids have led six states to declare public health emergencies.

(Marlene Williams/Getty Images)
Using Web GIS to Coordinate Mitigation of Opioid Epidemic

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  Industry Patterns Health Specialist
ArcGIS for the Opioid Epidemic Solution
Leverages and integrates authoritative datasets on the problem and the response

- **Educate the Community**
  - Opioid Awareness Maps Project for ArcGIS Pro
  - Opioid Awareness Story Map

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

- **Track Naloxone Deployments**
  - Naloxone Deployment Reporter

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

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

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

...to deliver a collection of focused maps and apps to tackle the opioid epidemic
ArcGIS is an Agile Configurable Platform

Addressing one of today’s BIG PROBLEMS: The Opioid Epidemic

Education  Treatment  Prevention  Response
Collect
Understand
Act
Collect
Understand
Live Demonstration
Act
Opioid Awareness

The opioid epidemic is impacting communities across America. Understanding the severity of the epidemic in our community and communicating treatment alternatives is an essential aspect of our response.

This story map includes a series of maps and apps that help:

1. Educate the community
2. Communicate response activities
3. Promote treatment alternatives
4. Reduce prescription drug use

Note: This story map is an example that can be used by public health and safety agencies to communicate the severity of the opioid addiction in communities.

Promoting Pain Management Alternatives

Opioids are the only option for patients who are suffering from acute or chronic pain. There are many alternatives to opioids that can manage pain effectively. When an alternative to opioids for pain could be preventable, particularly for teens or young children who are at a higher risk.

Disposal of Unused Prescription Drugs

Our community is committed to reducing the availability of unused prescription drugs. To dispose of unused and expired prescription drugs, take them to one of the drop-off locations listed below and hand them over to the students.

Live Demonstration

Rising Opioid Deaths and Overdoses

Opioid Mortality

Opioid mortality has grown across the entire nation and impacted communities. It is important to understand the impact of opioid mortality in our community and how we can respond.

The maps on the right highlight opioid deaths by age group in 2017. There was a significant increase in opioid deaths of specific age groups as they work under the age of 25 in our community and how they are linked to the evidence.

Note: These maps contain sensitive data that has been created to maintain privacy.

Opioid Overdoses

Opioid overdose cases are more frequent than one would think. The statistic surrounding opioid overdoses are alarming as we can ensure that responders are not able to assess the severity of overdoses as well help in removing available treatment facilities and facilities that can provide immediate help.

The maps on the right highlight opioid overdoses in 2017. They are used to understand how concentrations of age groups and gender are impacted in our community and how they are being impacted by the epidemic.

Impacting Our Community

This epidemic knows no natural, political, or social boundaries and affects nearly every community. Often times, society may have misconceptions of those impacted. Everyday members of our community have lost loved ones to opioid abuse and want to celebrate their life.

If you have lost a loved one, share their story and help our community break many of the stigmas associated with opioid abuse.

Follow the Celebrating Lost Loved Ones to the Opioid Epidemic app author (rheesrobartmsq on Twitter and opioidsdemolishmaps on Facebook).

Opioid Mortality

Opioid mortality has grown across the entire nation and impacted our community. It is important for us to understand the impact of opioid mortality so we can devise effective prevention and response activities.

The maps on the right highlight opioid deaths by age group in 2017. They are used to understand where concentrations of specific age groups (e.g. over and under the age of 25) in our community are being impacted by the epidemic.

Note: These maps contain sensitive data that has been created to maintain privacy.
Live Demonstration
Crime Analyst/Admin Staff
- Analyzes Overdoses, Naloxone Admins, Drug Activity
- Understands Trends, assigns Patrol and Investigative Resources

Police Mgmt
- Understands Trends, assigns Patrol and Investigative Resources

Task Force
- Interprets recent KPI's
- Informs Elected Officials and Stakeholders of mitigation strategies
- Advocates Grants and Resourcing

Crime Analyst/Admin Staff
- Analyzes Overdoses, Naloxone Admins, Drug Activity

Health Official
- Analyze and Mitigate Risk
- Promote Treatment and Drop-off

Public Stakeholders
- Advocates Treatment based on Local Understanding
- Partners with Public Safety to report Drug Activity
- Open data reports to State

First Responders and Support Staff
- Enters Naloxone Administrations, Overdoses

Drug Drop-off Staff
- Records and disposes

Public H&HS Staff
- Shares Treatment Options

Medical Examiner/Coroner
- Enters Toxicology & Deaths
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.
Addressing the Next BIG PROBLEM

Extensibility

- Opioid Addiction
  - Office of National Drug Control Policy
- Disaster Preparedness
  - Japan
    - Kajima Corporation
- Hurricane Modeling
  - Georgia
    - Glynn County GIS
- Homeless Count
  - Anchorage
  - OECD
- Population Change
  - Korea
    - Incheon Metropolitan City
- Change in Poverty
  - US Census Bureau
- Access to Health Facilities
  - Haiti
    - UNICEF
- Access to Care
  - New York
    - MobiGIS
- Poverty and Schools
  - Columbus
    - NCES
- Healthy Food Access
  - Maryland
    - Johns Hopkins University
- Access to Care
  - Finland
    - Pori
- Change in Poverty
  - Korea
  - Incheon Metropolitan City
- Health and Social Services Centers
  - Korea
    - Incheon Metropolitan City
- Office of National Drug Control Policy