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 $25 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.
From Alaska To Florida, States Respond To Opioid Crisis With Emergency Declarations

August 11, 2017 - 4:45 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
Using Web GIS to Address the Opioid Epidemic

Matthew Deal
- Esri
  State Account Manager
WebGIS for the Opioid Epidemic Solution
Leverages and integrates authoritative datasets on the problem and the response

Educate the Community
- Opioid Awareness Maps
- 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

WebGIS

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

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

Education | Treatment | Prevention | Response
Collect
Understand
Act
Collect
Opioid Overdose Reporter

Full Address
123 W Main St

Municipality
Springville

Incident Number
1234567890

Call Date
6/4/17

Age
27

Gender

Comments
citizen overdose on heroin

Location
40.1011°N 75.3637°W

Survey 123 Connect for ArcGIS

Title
Opioid Overdose Reporter

Form Design

Full Address

Municipality

Incident Number

Call Date

Age

Gender

Race

American Indian or Alaska Native

Survey 123 Connect Version

Portal for ArcGIS

Table name will be Form_2

Select an initial XLSForm design

Create Survey

Cancel

New Survey

Table name will be Form_2

Select an initial XLSForm design

Owner: LocalGovDeployment

Modified: Friday, June 30, 2017 7:08:59 PM

Type: XLSForm

Owner: LocalGovDeployment
Understand
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.

Rising Opioid Deaths and Overdoses

Opioid Mortality

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

The maps on the right highlight opioid deaths by age group in 2017. They have used a methodology where concentrations of specific age groups in a county and under the age of 25 in our community are being impacted by the epidemic.

Note: These maps contain sample data that has been created to render.

Opioid Overdoses

Opioid overdose deaths are more frequently reported in newer years. In our county, we are seeing more than 50% of our overdose deaths occur in the age group 25-50.

The map on the right highlights opioid overdose deaths by gender in 2017. They are used to understand where interventions are needed within our community and how our community can be impacted.

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. Everybody 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 (hsheirstamps on twitter and hsheirstamps on Facebook).

Opioid Mortality

Opioid mortality has grown across the entire nation and impacted our community directly. It is important for us to understand the impact of opioid mortality so we can devise appropriate 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 sample data that has been created to render.

Opioid Awareness

Promoting Pain Management Alternatives

Opioids are one of the only pain relievers for people who are suffering from acute or chronic pain. There are many alternatives to opioids that can be prescribed by your doctor. Choosing an alternative to opioids for pain could be preventable, particularly for teens or young children who are at higher risk.

Use the P4 Pain Management Locator to find alternative pain management. Each facility has a community. Enter an address to see the list of or drop a point on the map to find a facility near you.

Dispose of Unused Prescription Drugs

Our community is committed to reducing the availability of unused or unused prescription drugs in the home and throughout the community. In many cases, these unused medications are used by drug users and also by young children.

The our Drug Drop-off Locator to find locations where unused prescription drugs can be safely disposed. Enter an address to see the search box or drop a point on the map to find a drug drop-off facility near you.

Data for the U.S. Drug Enforcement Administration (DEA) and the West Virginia Overdose Hotline (April 2018), more than 4500 doses were collected. Our community contributed nearly 173
Crime Analyst/Admin Staff
- Analyzes Overdoses, Naloxone Admins, Drug Activity
- Understands Trends, assigns Patrol and Investigative Resources

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

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

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

Elected Officials & Stakeholders
Collect → Understand → Act

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

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

Act
- Interprets recent KPI's
- Informs Elected Officials and Stakeholders of mitigation strategies
- Advocates Grants and Resourcing
Overdoses kept taking toll on Maine in first half of 2018, claiming almost 1 life a day

In the first six months of 2018, 180 people in Maine died of drug overdoses – down from the 185 for the same period in 2017 – with most killed by the synthetic opioid fentanyl.

By KEVIN MILLER STAFF WRITER

Drug overdoses continued to claim nearly one life per day in Maine during the first six months of 2018 despite intensive efforts – from the State House to sober houses – to slow the opioid crisis.

There were 180 overdose deaths in Maine through June 30, down just slightly from the 185 drug-related deaths reported for the same period last year, according to figures released Friday by the Maine Attorney General’s Office.

Letter to the editor: We all can play a part in the opioid overdose solution in Maine

Attend Friday’s vigil to bear witness to the drug’s impact on family and friends, and learn how you can carry a medication that could save a substance abuser’s life.

Maine Voices: State leaders lauded for bipartisan step toward treating opioid abuse

But the ongoing stigma associated with addiction threatens to limit the progress we can make.

Maine Voices: Prosecution must remain weapon in the war against opioid trafficking

We have never prosecuted mere users and will not be doing so under a new federal initiative.

Our View: Never a reason to give up HOPE in addiction fight

Police departments’ successful efforts show that helping people overcome drugs is no lost cause.

The following articles and data are intended to give the reader a sense of the scale of the opioid epidemic in Maine which has grown dramatically in the last few years.

Fueled by opioid crisis, drug overdose deaths on record pace in Maine

Portland Press Herald
August 23, 2016 by Joe Lawlor, staff writer

In the first six months of this year, there were 189 drug overdose deaths in the state, a 30 percent increase over the same period last year. Fueled by the opioid crisis, drug overdose deaths continue to skyrocket in Maine, with the state on pace this year to exceed last year’s record by almost 40 percent.

Addiction to opioids – including heroin, fentanyl and prescription painkillers – is causing most of the deaths.
Task Force to Address the Opioid Crisis in the State

Task Force Meeting Dates

The Task Force has completed its meetings and has issued its report.

- Final Report of the Task Force to Address the Opioid Crisis in the State
- Task Force to Address the Opioid Crisis in the State: Interim Report, April 2017

To subscribe/unsubscribe to the interested parties list for this study:

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Awareness, Cobb County

Cobb County: Opioid Awareness

Visualize & Communicate the effectiveness of opioid prevention and response activities in Cobb.

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.

Data & Community Resources

Understanding how the opioid epidemic is impacting our community

Drug Drop-off Locator
Opioid Treatment Locator
Medication Drop Off Locations
Treatment Center Locations
Cobb Opioid Deaths
Cobb County Med Examiner Data.

ARCO: Recovery Community Organizations - Click Here
SAMHSA: Substance Abuse and Mental Health - Click Here
Celebrating Lost Loved Ones to the Opioid Epidemic - Click Here

Unlock the Data
Click Here to Explore and Download Cobb GIS Datasets to build your own apps & maps

EVENTS & LEGISLATION
- State of Maryland Law for Opioid Reporting
- Georgia Prescription Drug Monitoring

ADDITIONAL RESOURCES
- Georgia Prescription Drug Monitoring
- Opioid Foundation
Real stories of life in recovery

The stigma around having a substance use disorder keeps people from seeking the help they need. 25 million Americans are in recovery, and the more their stories are heard the more we smash the stigma. Add your story today!

See real stories
In eastern Maryland, Anne Arundel County’s fire departments and police stations will become 24/7 “safe stations,” where addicts can seek guidance and, more importantly, immediate treatment. Heavy traffic, and at all hours, meant responders were struggling to find available beds at treatment centers.
“Right now, I can take a look—because first responders responding to an overdose scene are instantaneously putting data into the system,” Jeff Beeson said. “Takes them two seconds to log into the app, and it uploads immediately.”

Heroin is coming to Maine from Mexico’s poppy fields, where it is produced. Dealers are finding a market in New England. What can be sold for $5 in New York City can go for $40 in Maine, said Roy McKinney, the director of Maine’s Drug Enforcement Agency.
Dashboard, Baltimore/Washington HIDTA

**Total Suspected Overdoses**
2,237 ODs

Counts only valid for 24 hours when no filters are set

**Fatal Count**
- Fatal: 401
- Naloxone Administrations: 1,716
Severity

1. Opioid Overdoses in past 30 Days
2. Opioid Overdoses in past 90 Days
3. Opioid Overdoses in past year
4. Opioid Overdoses Since January 1st, 2017

Overdoses reported since January 1st, 2017
Tracking / Predicting where and who and when
Community

Celebrating Lost Loved Ones to the Opioid Epidemic - see new link at https://losttoopioids.nsc.org
More information, apps and open data sets

The Opioid Mapping Initiative that includes leading local government agencies, technologists committed to engaging their communities to improve awareness of the opioid epidemic and help public health officials make better decisions with government data.

The purpose of the initiative is to provide free access to cutting-edge technology platforms and open data sets. The initiative aims to provide resources, including: technical practices, success stories; how to implement efforts.

The initiative focuses on the use of applications and open data sets for local, state, and federal law enforcement agencies to help communities. It also provides resources, including: technical practices, success stories; how to implement efforts.

Apps

Applications that showcase how agencies can communicate various topics that local task forces and others can utilize:

- Local government websites that show comprehensive lists of their maps, data and story maps.
- Applications showing Opioid Death Data in local jurisdictions.
- Applications showing where local government first responders and EMS have administered Naloxone.
- Applications for Drop Box Locations, Public Naloxone Access, Treatment Resources.
Opioid Report: June 15, 2017 - present

Number of possible opioid overdoses
15,543

Number of possible opioid deaths
2,408

Which age groups had the highest number of possible opioid overdoses?

Which genders had the highest number of possible opioid overdoses?

What percentage of possible opioid overdoses resulted in death?
Addressing the Next BIG PROBLEM

Extensibility

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

Countries and Organizations:

- Japan: Kajima Corporation
- New York: MobiGIS
- Maryland: Johns Hopkins University
- Finland: Pori
- Korea: Incheon Metropolitan City
- Haiti: UNICEF
- Georgia: Glynn County GIS