DGDC Meeting Minutes
August 10, 2017

Attendance List:

Bruce Allen	DelDOT
Hillary Austin	DSHA
Shane Bailey	New Castle County
Roger Barlow	USGS
Stephanie Belinske	DPH
Troy Berry	31st CST WMD
Mary Ann Burnett	Artesian Water
Terrance Burns	HCA-SHPO
Don Burris	Delasoft
Tommy Burton	Artesian Water
Austin Calamon	Lewes BPW
Evan Caplan	New Castle County
Kim Cloud	DTI
Daniel Cook	DTI
Mike DelTufo	DTI
Josh Gritton	Lewes BPW
Allice Guerrant	DHCA
Jay Hodny	Kent County
Ron Holmes	New Castle County
George Houck	Kent County
Renee Hupp	DEMA
Matt Jones	DNREC WSLS
Michael Krumrine	DNREC
Danielle Lamborn	Kent County
Simon Lowe	DAFB
Thomas Matich	Town of Smyrna
Morgan McGee-Solomon	DNREC SIRS
Nicole Minni	UD IPA WRC
Dorothy Morris	OSPC
Megan Nehrbas	Sussex County
Miriam Pomilio	OSPC
Mollie Raley-Hall	DelDOT
Olena Smith	US
Brad Spittel	KCI
Michael Sutherland	DHCA
Mike Townshend	DTI
Joshua Turner	Tidewater Utilities
Art Walker	USDA NRCS
Michael Ward	Kent County
Greg Williams	DNREC
George Yocher	DPH

Welcome & Introductions

Miriam Pomilio started the meeting at 9:03 am. She welcomed everyone to the meeting and introductions were made.

May 11, 2017 Meeting Minutes

Kim Cloud made a motion to approve the May 11, 2017 Meeting Minutes (PDF). Alice Guerrant seconded the motion and it passed unanimously.

Geospatial Education Committee

Nicole Minni reported there was only one submission from Delaware for the Esri National Story Map Contest for K-12.

The Geospatial Education committee was awarded a $5,000 grant from Esri to host ConnectED workshops for teachers again this summer. A total of 17 teachers attended a 2-day workshop to learn how to use ArcGIS Online in their classrooms. A special thanks this year to JMT and GeoDecisions for sponsoring the lunch at these workshops – the grant wasn't able to be used to support the food and these two companies stepped up at the last minute to assist. Another special thanks to University of Delaware and to Sussex County for providing computer labs free of charge for the workshops as well. More workshops are being planned later in the year for additional teachers since there are funds left at this point.

The Geospatial Education committee is gearing up for their annual GIS Day field trip event being held November 15 at the Dover Air Mobility Command Museum. We are looking for volunteers to help with the event which attracts over 300 students each year.

Delmarva GIS Conference Update

Megan Nehrbas, as chair of the conference committee, provided an update on the 2018 Delmarva GIS Conference – Boldly Go. The conference will be held April 26 and 27, 2018 at the Dover Downs Hotel and Casino. The first day will be a series of half-day workshops with the conference day being the second day. It will have a slightly different format with Lightning Rounds as well as the 20 minute

standard presentations. The Map/App Gallery is replacing the standard Poster session this coming year as well. There will be a prize for Best in Show as voted on by the attendees of the conference. The K-12 contest will also be replaced with a similar Map/App Gallery.

Aerial Imagery Update

Miriam Pomilio reported that a small committee of State and county members are in the process of reviewing the imagery. Once this review is completed, Surdex will make any necessary edits and the imagery will go through final processing. It is anticipated that this imagery will be delivered sometime in September. There were some questions regarding shadows and Surdex is providing several sample areas for evaluation by the smaller committee.

Technical Advisory Committee Update

Mike Townshend indicated the Technical Advisory Committee met last Thursday (August 3). Miriam will be forming a sub-group to work on updating and developing a Long Term strategy for FirstMap. Mike is learning about Vector tiles and thinking of using these as another way to serve base-maps. There is a label rendering bug that is being addressed by Esri. There will be another sub-group to look at consolidation issues and impacts to custom applications. Metadata is needed for municipal data to be input into FirstMap. It was recommended that Miriam work up some guidelines for municipal contractors so the data can be easily imported into FirstMap.

FirstMap Update

Kim indicated DTI is upgrading to 10.5.1 aka FirstMap 2.0. DTI is looking to move to Portal at 10.5.1 and are working on a proof-of-concept to evaluate how it will impact applications. The intent is to run in parallel and clean up services on Public and Private and merge the environments where appropriate. DTI is also looking at Insights as a possibility once 10.5.1 is up and running.

A note for users; Esri and the industry are moving to "secure" services and will require https:// on Story Maps as well as services. These changes will need to be made so that your applications do not break. You can use AGO-Assistant to help with fixing these issues.

DTI may add SQL as a database option and are garnering funding for a GeoEvent pilot using 10.4.1 for the TMC and JSON feeds.

As always if you experience issues, please contact the team at FirstMap@state.de.us.

Presentation – City of Newark – Non-Emergency Traffic Concerns, Police and Public Crowdsourcing reporting

Jay Hodny of the City of Newark presented a new application the City of Newark is launching to gather resident information regarding non-emergency concerns within the town. See the presentation attached.

Presentation – Esri – Solutions to tackle Opioid Abuse

Esri presented information regarding data and Story Maps put together to show and address the Opioid epidemic that is spreading in the US. See attached presentation. This included locations of drug drop off locations, treatment locations along with a reporting app for citizens. Looking also at mapping Narcan sites vs. Narcan deaths. See the attached presentation.

Federal Update

USGS – Roger Barlow reported they are still working with DNREC on the MOU for the National Hydrologic Data for the state. Roger also mentioned an Elevation Data use case workshop coming up in the near future that he would announce when it's set. In addition, there is a webinar in the next few weeks regarding broad agency applications for LiDAR data.

NRCS – Art Walker reported they've released the National GeoPortal for uploading GIS Data and that there is a Conservation Desktop application being launched as well.

Open Comment Period

Debbie Sullivan (DTI) – The next eDUG meeting is set for October 11 and she and Danielle are still looking for more local presentations. It will be held at Kent County from 9 am – noon. Debbie also reported that FirstMap is working with Nicole Minni to develop a training course on how to use FirstMap. This training will be offered through the State Learning Center. More details will follow as the training is developed. Debbie also noted an issue with the use of WaCOM tablets no longer working when you update .NET to 4.7, in case anyone else has a WaCOM tablet.

Kim Cloud (DTI) – DTI is rolling out the License Manager update on August 21 to the state network and requested users disconnect before 5 pm. Kim further reported that the FirstMap website has been updated, thanks to Debbie, Darin and Dan on that update.

Jay Hodny (City of Newark) – Indicated he found an issue using Collector on Windows 10 tablet and the solution was to have all your services on the same server. If services are on multiple servers it appears Windows 10 gets lost using Collector.

Ron Holmes (New Castle County) – Using ArcGIS Pro 2.0 and reestablishing permissions and privileges in that environment. New Castle County is also exploring the use of Survey 123 for a variety of applications.

Olena Smith (UD) – University of Delaware is holding a GIS Day on November 16 and it's open to the public. She is looking for a few more presenters for a series of Lightning talks (7-10 minutes) and posters. Olena also announced she hosts a UD GIS Coffee Hour every other month on the second Tuesday for all users. The next ones are scheduled for October 10 and December 12. They start at 10 am

and are located in Pearson Hall at the Newark Campus. Olena gave an update from the Esri International User Conference in July. Her take-aways from the conference were: WebGIS Portal is here to stay, ArcGIS Pro is like Desktop on steroids and it's here to stay as well. Jack Dangermond made it clear they will continue to support ArcGIS Desktop as long as it's needed. Olena also mentioned that UD is looking to do a few event maps – Commencement and Move-In Day were mentioned.

Mollie Raley-Hall (DelDOT) – reported that the next American Planners Association (APA) conference is in October 2018 at the Rehoboth Sands hotel and we should look to have a GIS Workshop at that conference.

Renee Hupp (DEMA) – DEMA is moving into the GIS world and have a team working with Esri and the FirstMap team to get more involved. Working with connecting FEMA as well as surrounding states on projects. Working with Fire Chiefs and first responders on Collector App for damage assessment.

Mike Townshend (DTI) – Mentioned folks looking for building outlines there are a few sources: some counties have this data and Esri is offering to provide them and we think they are going to be using the data collected through the Chesapeake Bay initiative.

Next Meeting

The next DGDC Quarterly meeting will be Thursday November 9, 2017 at the Kent County Administrative Complex, Room 220 and start at 9:00 am.

Adjournment

Roger Barlow made a motion to adjourn the meeting and it was seconded by George Houck. The meeting was adjourned at 11:39 am.

Police and Public Crowdsource Reporting – A 2017 Esri SAG Award Winner

Jay W. Hodny, Ph.D.

City of Newark, DE

Outline

- Project History
- “Pieces”
- Demonstration
- City Maps Gallery

History

- Idea originated with Newark's IT and the Newark Police Department (NPD)
  - Looking for user-friendly, Web-based citizen reporting tool
  - Report non-emergency traffic concerns easily
  - Pilot study - press release, NPD and City's social media feeds (reached 4,000+ people)
    - 'Technically Delaware' and 'Newark Post' published short online articles in August/September 2016
- Believed to be the first of its kind in the mid-Atlantic region
- Gained Esri's attention
  - Notified of SAG award spring 2017
  - Singled out during SAG award ceremony

Implementation Reasons

- Leverage latest GIS Web technologies to connect with citizens in real time
  - Reach tech-savvy audience
- Augment traditional phone call and mail-in surveys
- Allow anonymous reporting of concerns
- Shift and focus NPD resources in areas needing more enforcement
- Quantify observations for more informed decision-making

Crowdsource Reporter and Manager

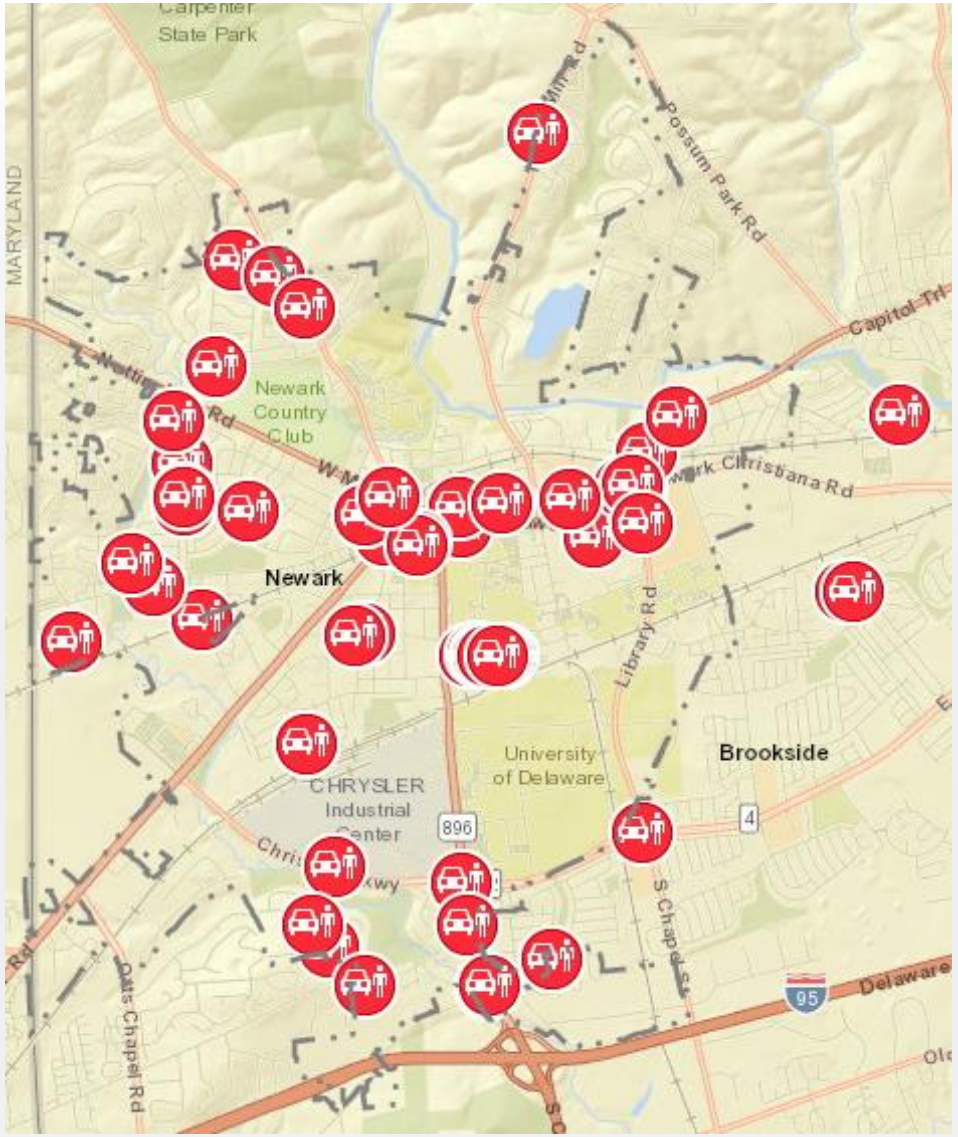
- Employed Esri's Crowdsource Reporter and Manager solutions
- Configured Reporter - a non-emergency concern, when observed, vote on concern
  - Public facing
- Configured Manager – facilitate resourcing to address concerns
  - Internal facing

Fields

- Non-emergency traffic concerns
  - Speeding
  - Traffic sign/light violation (failure to stop)
  - Pedestrians (failure to use cross walk)
- Observed
  - Morning Commute (4am to 9)
  - Morning (9 to noon)
  - Afternoon (noon to 4)
  - Evening (4pm to 7)
  - Night (7 to 4am)
- Comments and Contact
- Attachments (e.g., photo)

Results – Pilot Study

- Three-day pilot study – August 23-25, 2016
- 76 concerns reported, 550 votes on the concerns
- Quantify data
  - Type and # observations, time of day
  - Prioritize projects and resources
    - Increase NPD enforcement in concern areas
    - Lobby for funding, e.g., to improve/add controlled crosswalks



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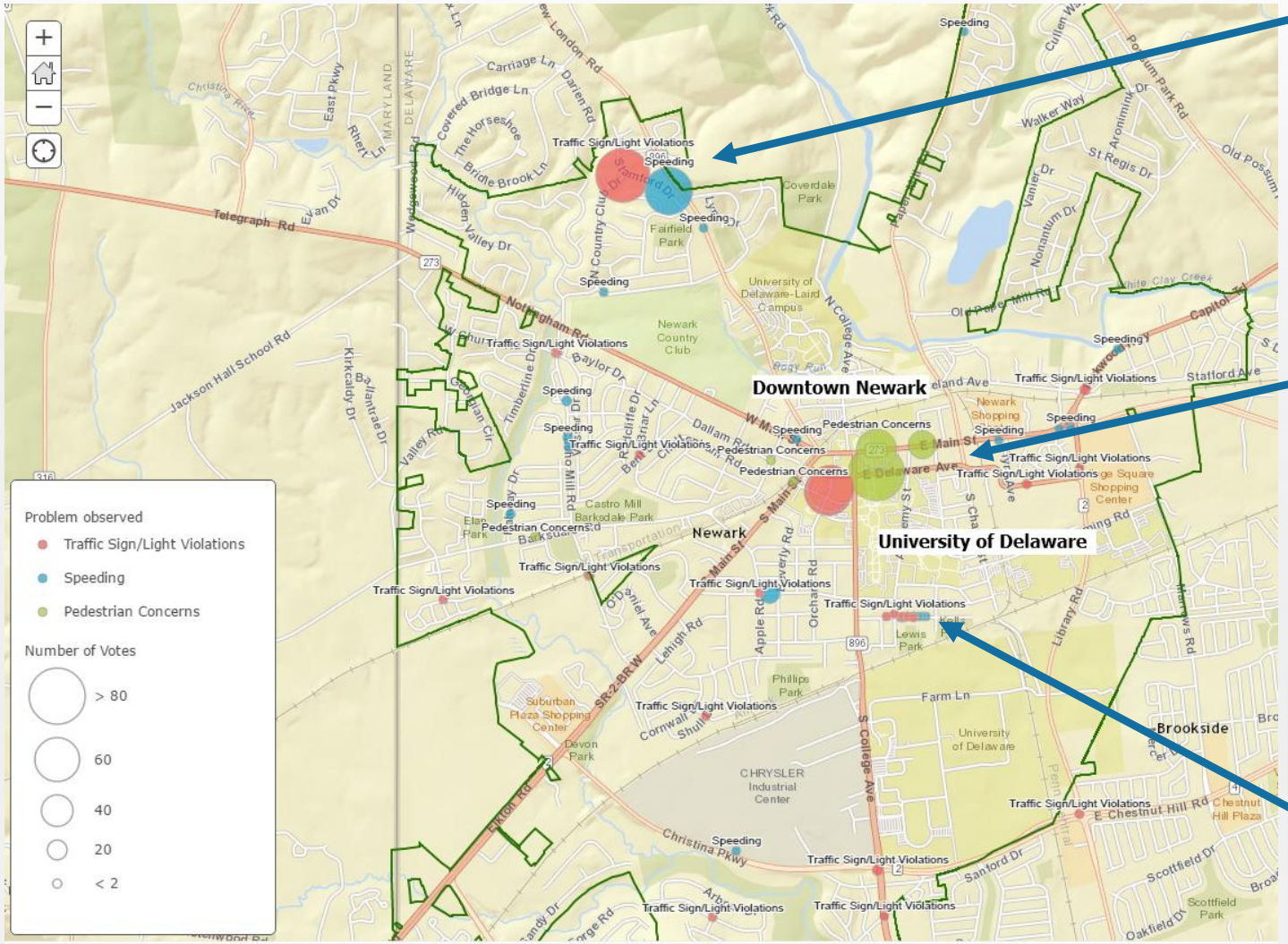
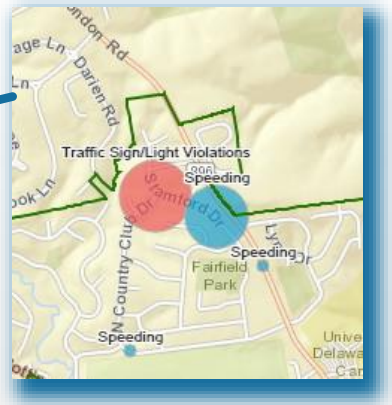
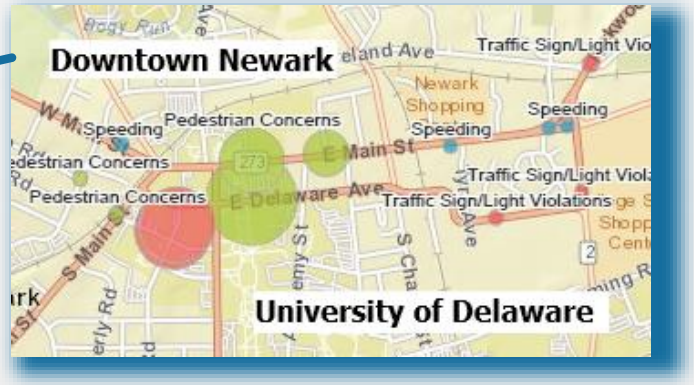
Results – Pilot Study







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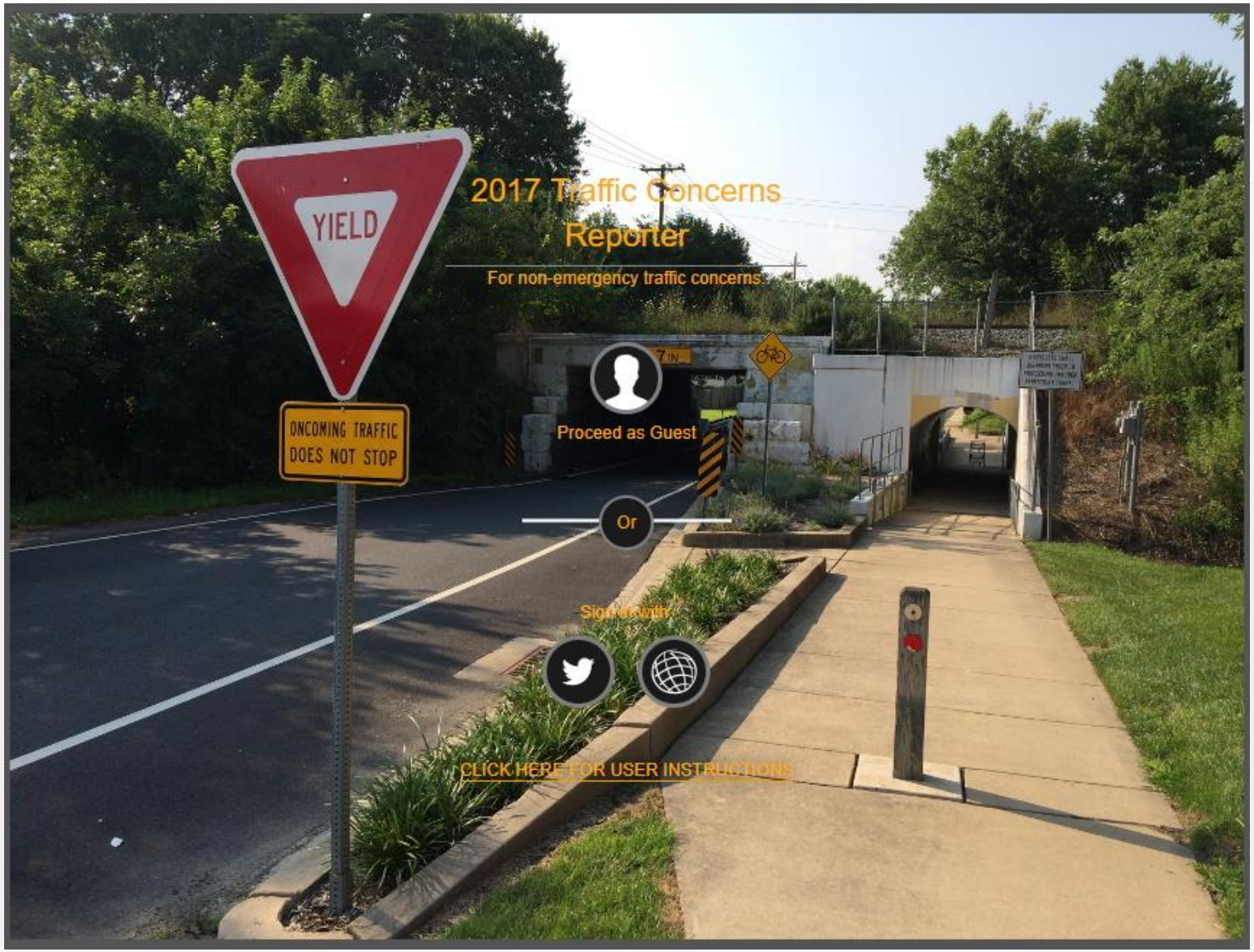
Current Version



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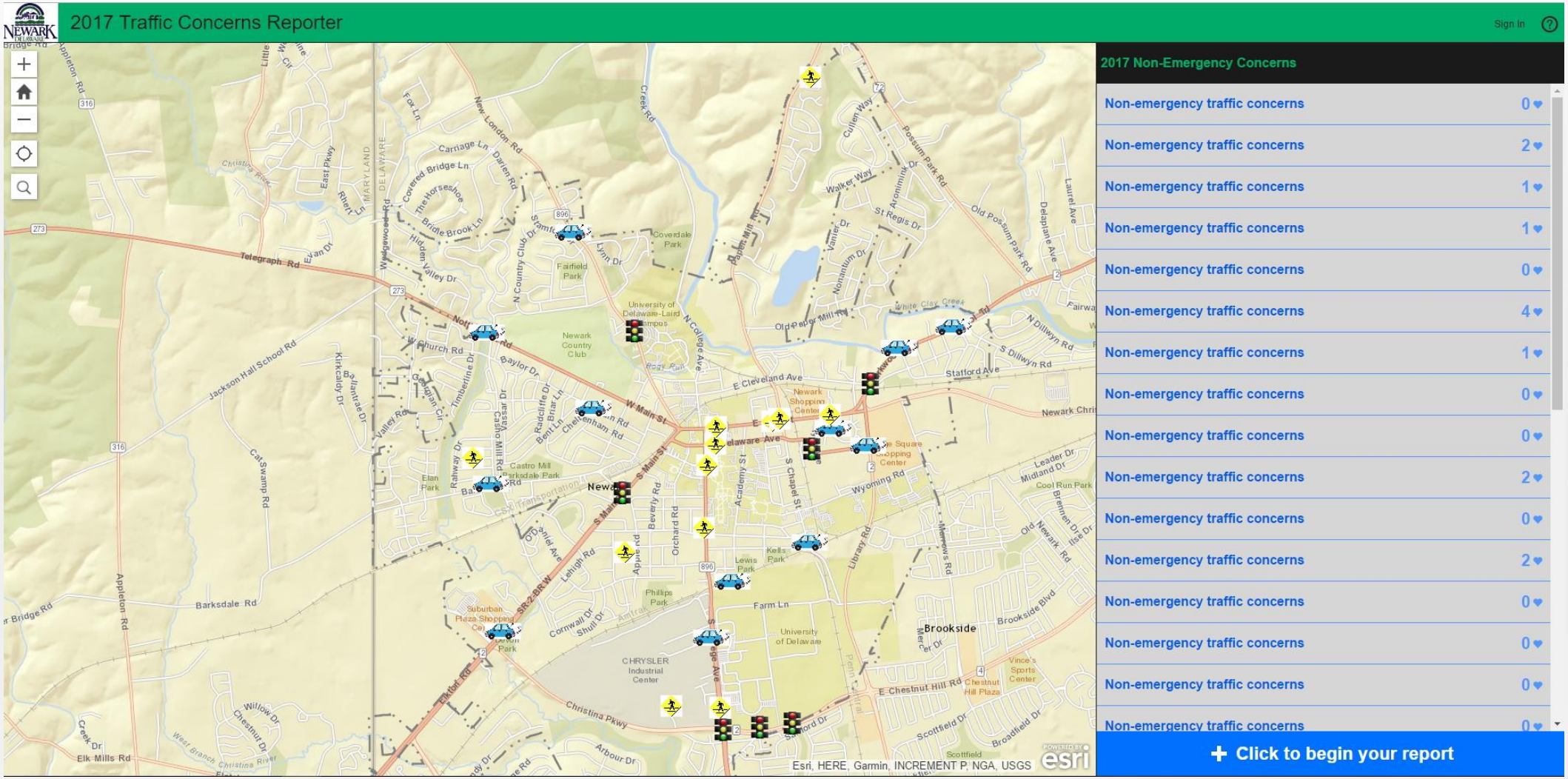
Current Version – Reporter (public facing)



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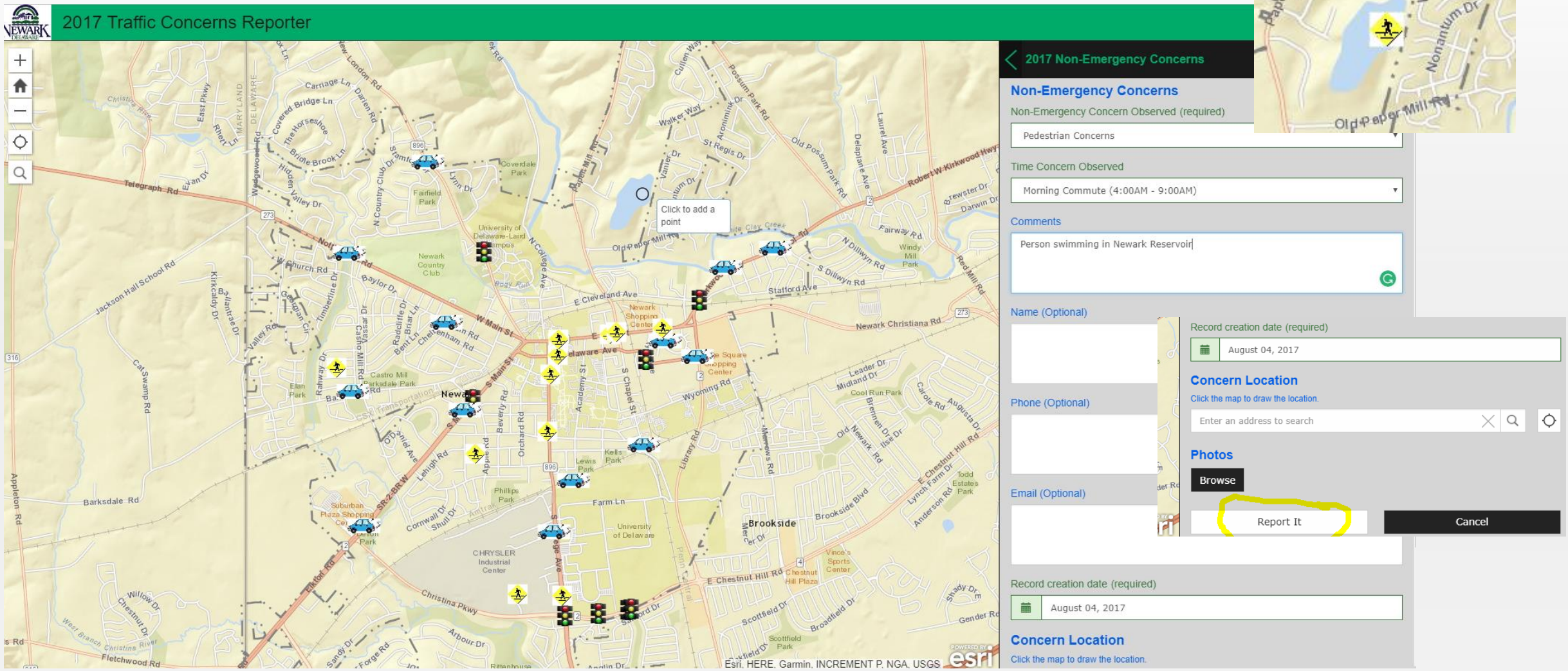

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Crowdsource Manager (internal facing)

2017 Traffic Concerns Manager

Jay Hodny

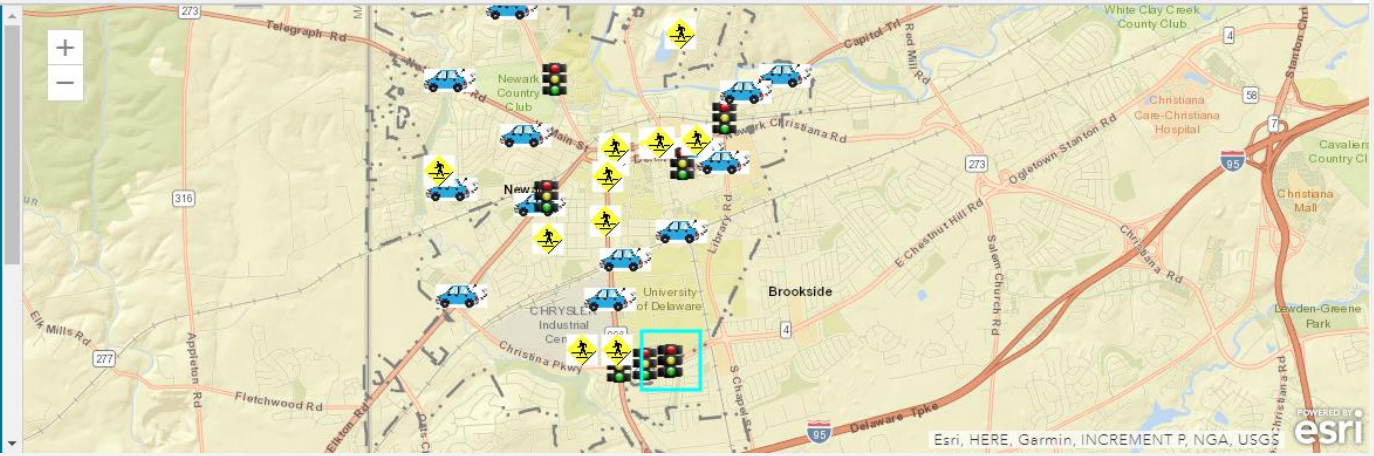
2017 Non-Emergency Concerns

1 selected / 34 records

OBJECTID	Non-Emergency Concern Obser	Time Concern Observed	Location	Number of Votes	Comments	Public View
34	Pedestrian Concerns	Morning Commute (4:00AM - 9:00AM)			Person swimming in Newark Reservoir	
33	Traffic Sign/Light Violation	Morning Commute (4:00AM - 9:00AM)			East bound driver on Route 4 ran the re	
32	Speeding	Morning Commute (4:00AM - 9:00AM)				
31	Pedestrian Concerns	Morning Commute (4:00AM - 9:00AM)				
30	Pedestrian Concerns	Evening (4:00PM - 7:00PM)			A student darted across Main Street fro	
29	Speeding	Morning Commute (4:00AM - 9:00AM)				
28	Pedestrian Concerns	Afternoon (12:00PM - 4:00PM)		1	Student walked across South College A	
27	Speeding	Morning Commute (4:00AM - 9:00AM)			Often cars accelerate along East Delawa	
26	Pedestrian Concerns	Evening (4:00PM - 7:00PM)			A large dog has left a MAJOR pedestria	

Non-emergency traffic concerns

OBJECTID	33
Non-Emergency Concern Observed	Traffic Sign/Light Violation
Time Concern Observed	Morning Commute (4:00AM - 9:00AM)
Location	
Number of Votes	
Comments	East bound driver on Route 4 ran the red light at the entrance to Robscott Manor. Driver did not slow down and was talking on a cell phone.
Public View	
Name	
Phone	



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Crowdsource Manager

2017 Traffic Concerns Manager

Jay Hodny

2017 Non-Emergency Concerns

2 selected / 34 records

OBJECTID	Non-Emergency Concern Obser	Time Concern Observed	Location	Number of Votes	Comments	Public View
34	Pedestrian Concerns	Morning Commute (4:00AM - 9:00AM)			Person swimming in Newark Reservoir	
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Public View

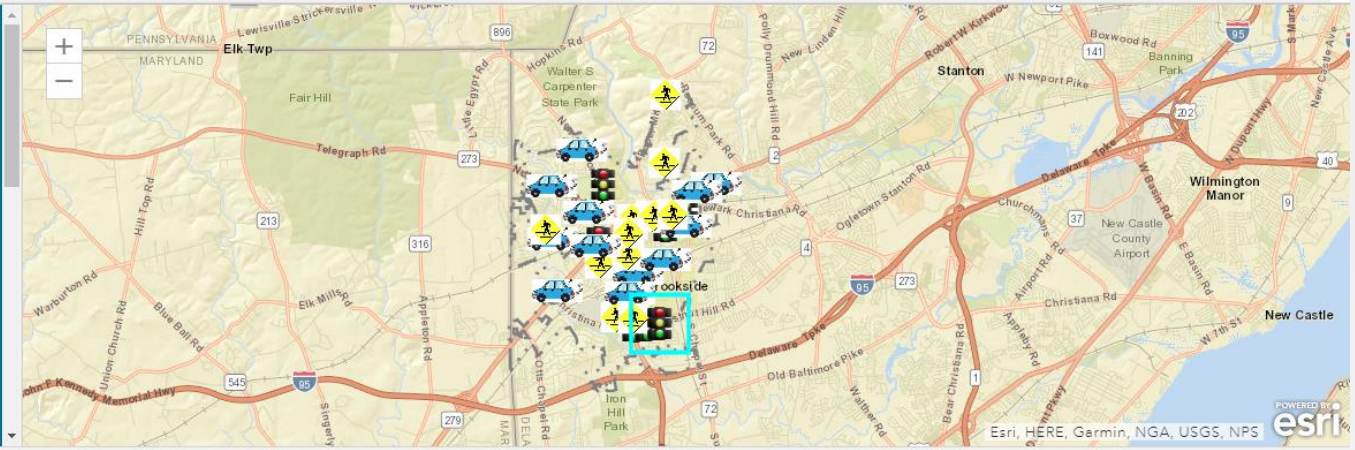
Yes

Status

Opened

Assigned To

Action Taken



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Conclusions

- Pilot study was an overwhelming success
- Deployment of NPD resources in areas of concern caused decline
- Implementing and testing improvements
  - e.g., list spells out the concern
- Improved data visualization
  - e.g., “hot spots” on multiple variables
- Expanding list of concerns
  - e.g., bicycles
- Decision on path forward

Credit given where it is due……

- Roberto DeDeus (City IT)
- James Spadola (NPD)

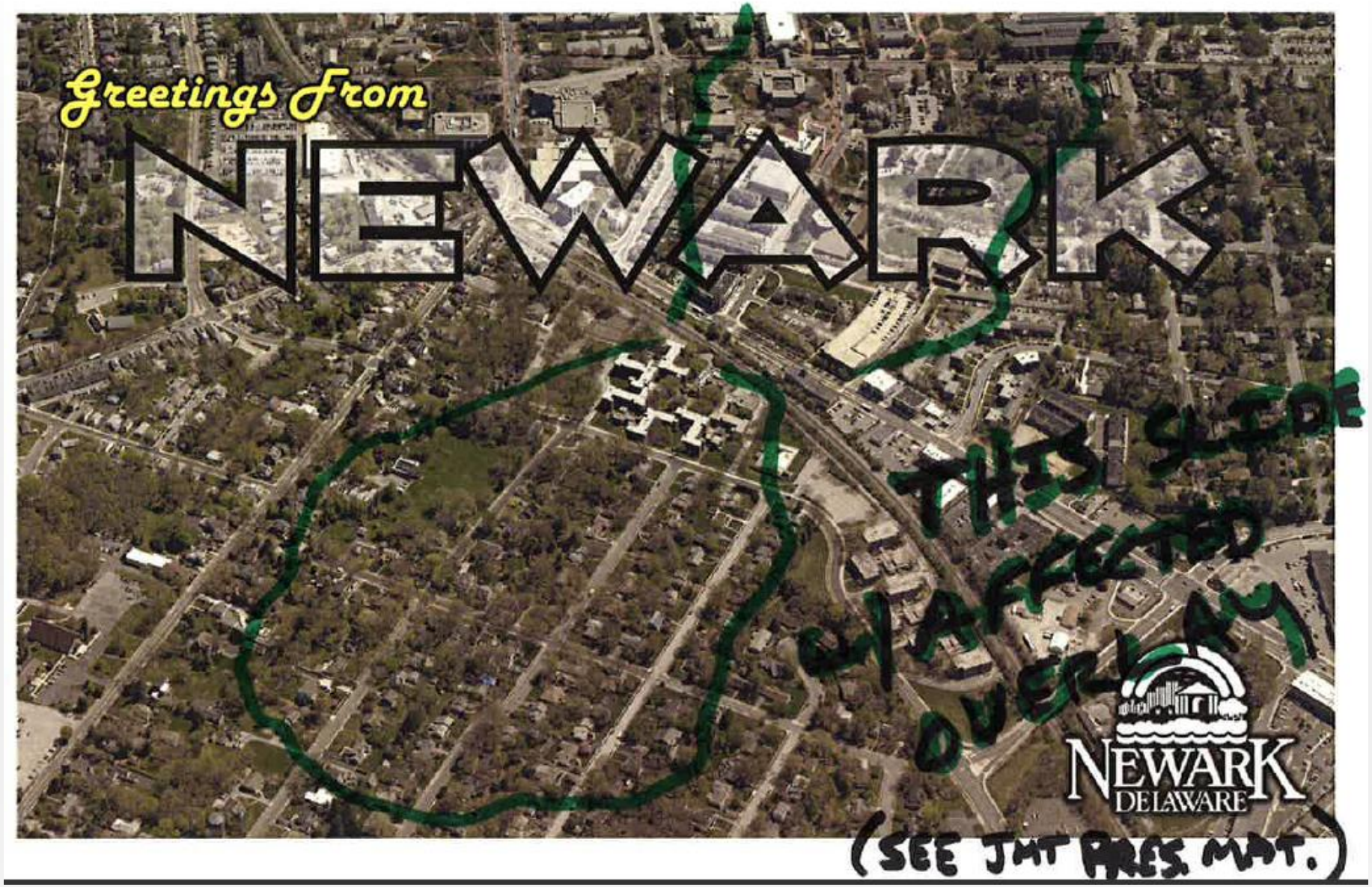
- Reporter Demonstration
- Manager Demonstration

- City Maps
- UD Rodney Dormitory complex

UD - Rodney Dorms

- University of Delaware dormitory complex closed
- Possible stormwater runoff pond and city park
- Using ArcPro 2.0 and Scene to map watershed above and below dorm complex
  - Bing imagery, USGS Water Resources StreamStats website, building footprint (extrude)

- Long-term goal is to build out the City of Newark in 3-D
  - Need lidar help



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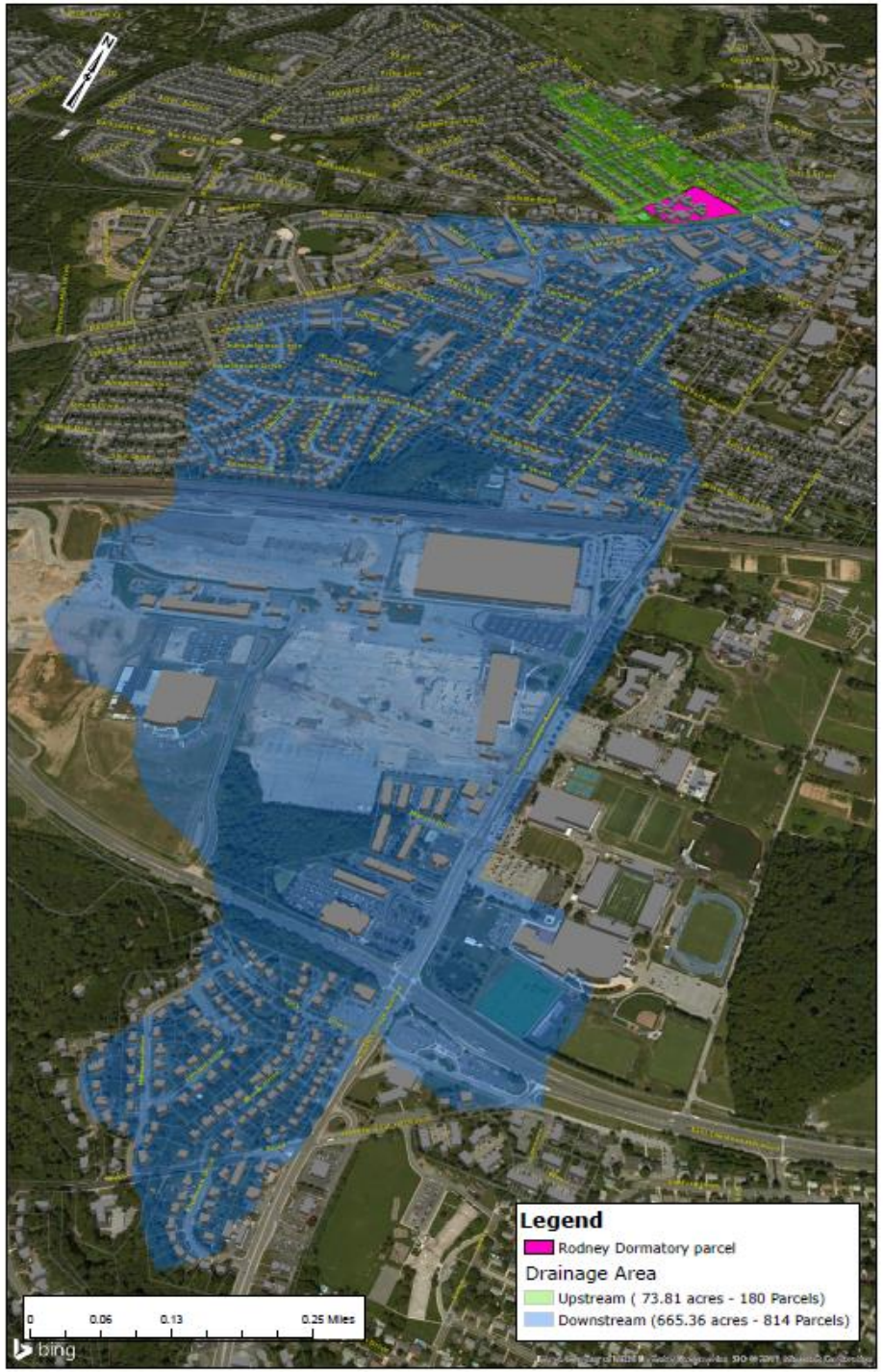

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Thank you!

- **Questions?**

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Overview: ArcGIS for the Opioid Epidemic

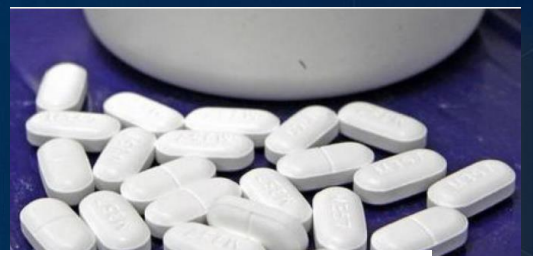
Maps and Apps to help your community fight back

Seth Van Aken

Krithica Kantharaj

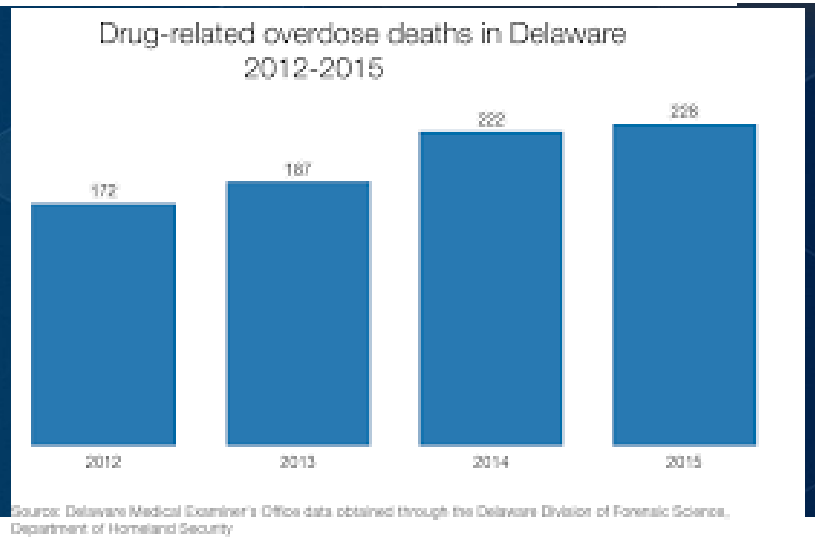
The Challenge: Effective Execution of Comprehensive Strategies

- **Communication Is Increasingly Critical**
  - Citizens, At-Risk Populations
  - Providers
  - Policy-Makers and Funders
  - Coordinating Internal Resources and Across Departments
- **Costs are Rising**
  - Demonstrating ROI is of growing importance
- **Practicing Data-Driven Decision-Making**
  - Key datasets not timely or high quality
  - The right analytical tools for the right user
  - Information Products for Decision-Making
  - Data Security



Six overdose deaths in Delaware during past five days underscore opioid epidemic

Rob Petree / WXDE Published Aug 9, 2017 at 10:43 am | Updated Aug 9, 2017 at 4:59 pm (0)



With drug overdoses soaring, states limit the length of painkiller ...

Washington Post - 2 hours ago

Some, including Arizona, Connecticut, **Delaware**, Massachusetts, ... In Kentucky, a law went into effect last month capping **opioid** ... become **addicted** to heroin have started with a prescription **opiate**," said Kentucky state Rep.

…Questions of "Where" cut across every aspect of an opioid strategy…

ArcGIS for the Opioid Epidemic Solution

A Collection of Maps and Apps to help your community tackle the opioid epidemic

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	• *Track Naloxone Deployments* • *Citizen Reporting of Drug Tips*

Apps For:

First Responders

Public Health Professionals

Executives

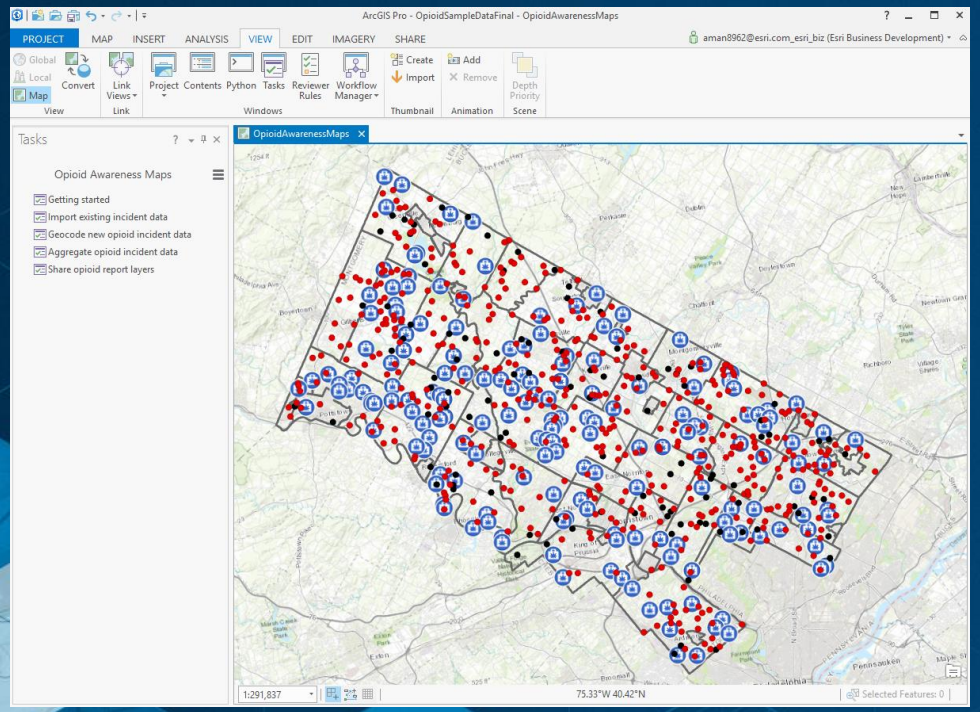
Analysts

Citizens

Apps Enabling Community Education

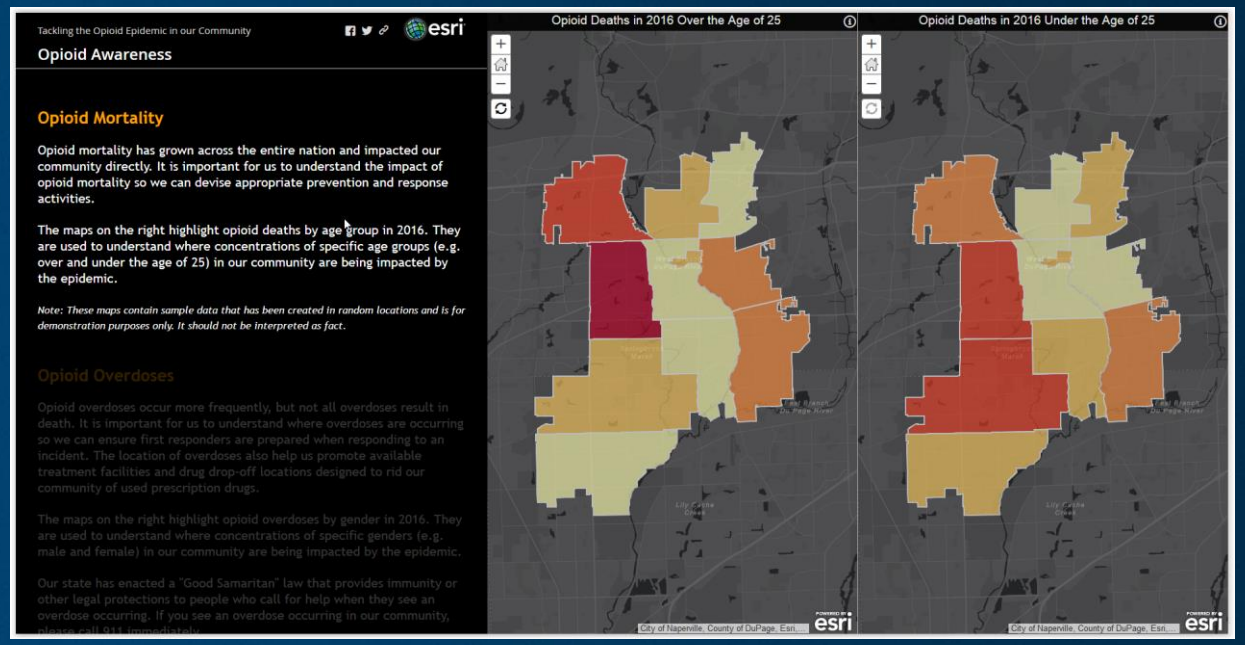
ArcGIS for the Opioid Epidemic

Prepare your data for public sharing



Tell your story:

- Impact of local opioid epidemic
- How your agency is fighting back



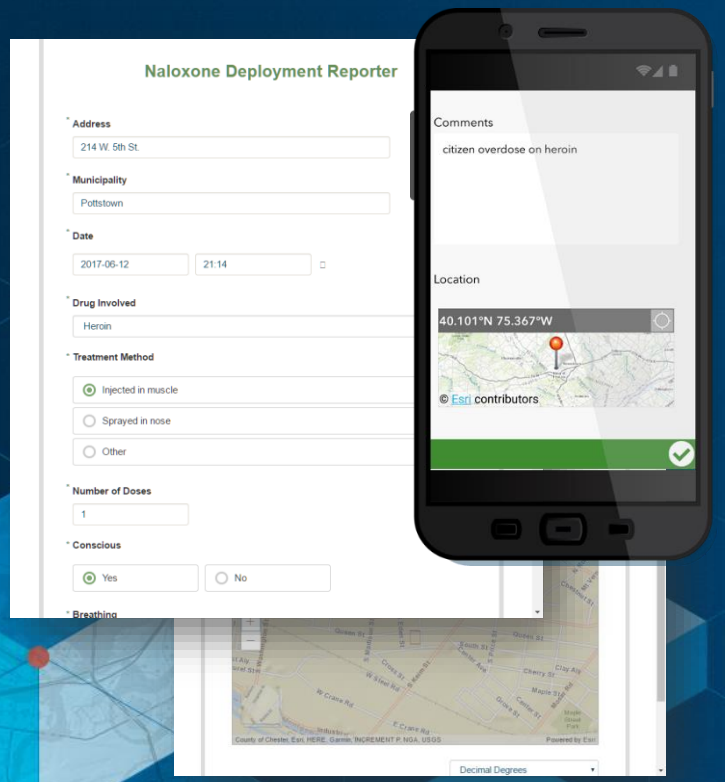
Apps to Track Naloxone Deployments

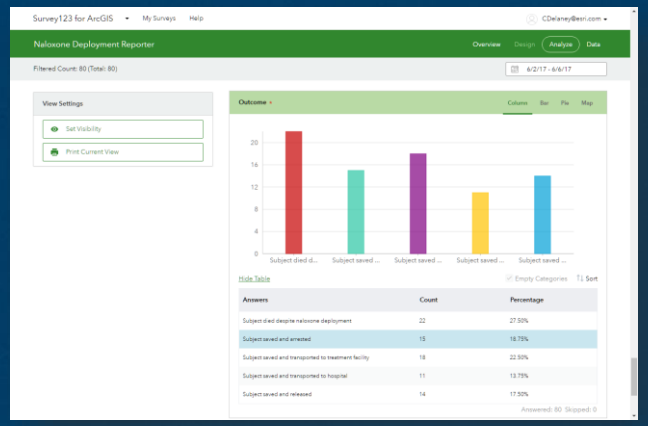
ArcGIS for the Opioid Epidemic

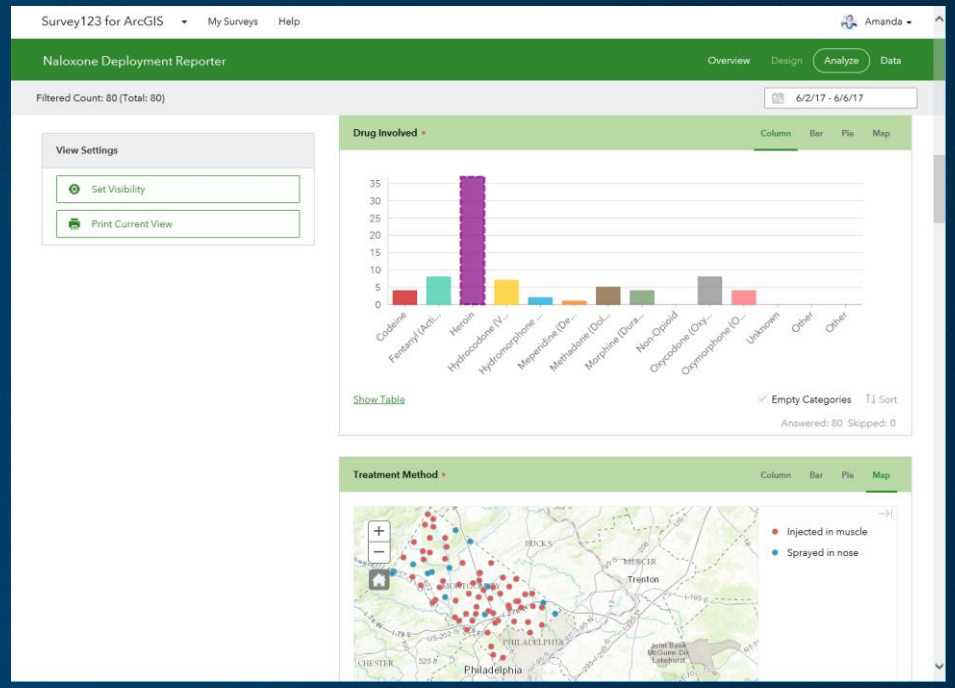
Understand where naloxone gets deployed in real-time

Calculate save rates

Identify Spatial Patterns to Optimize Availability



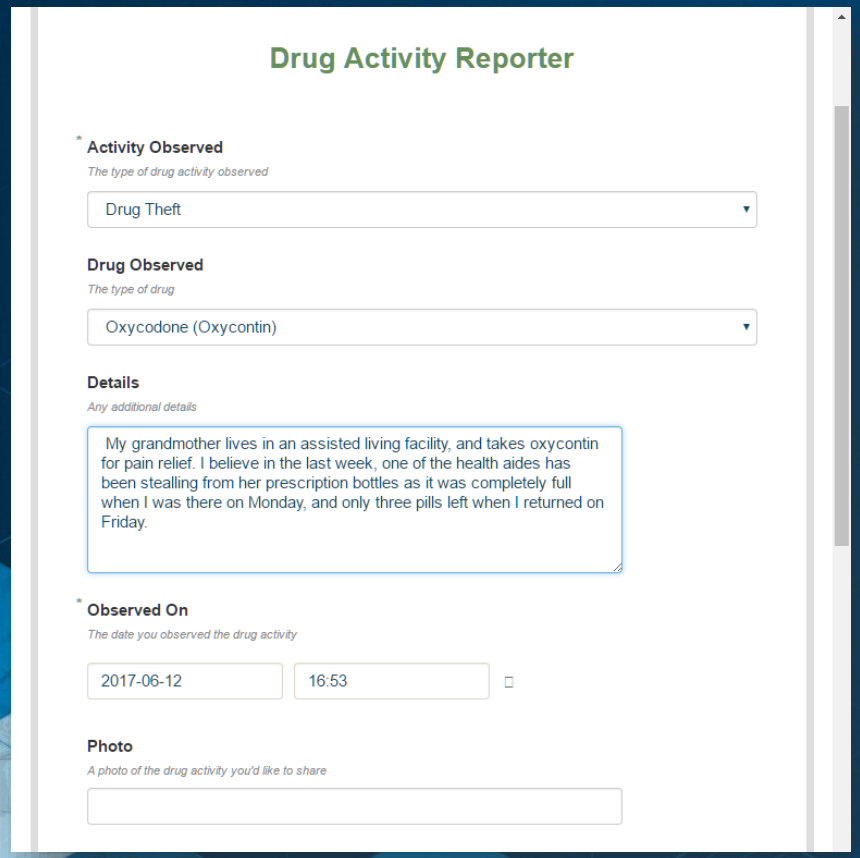




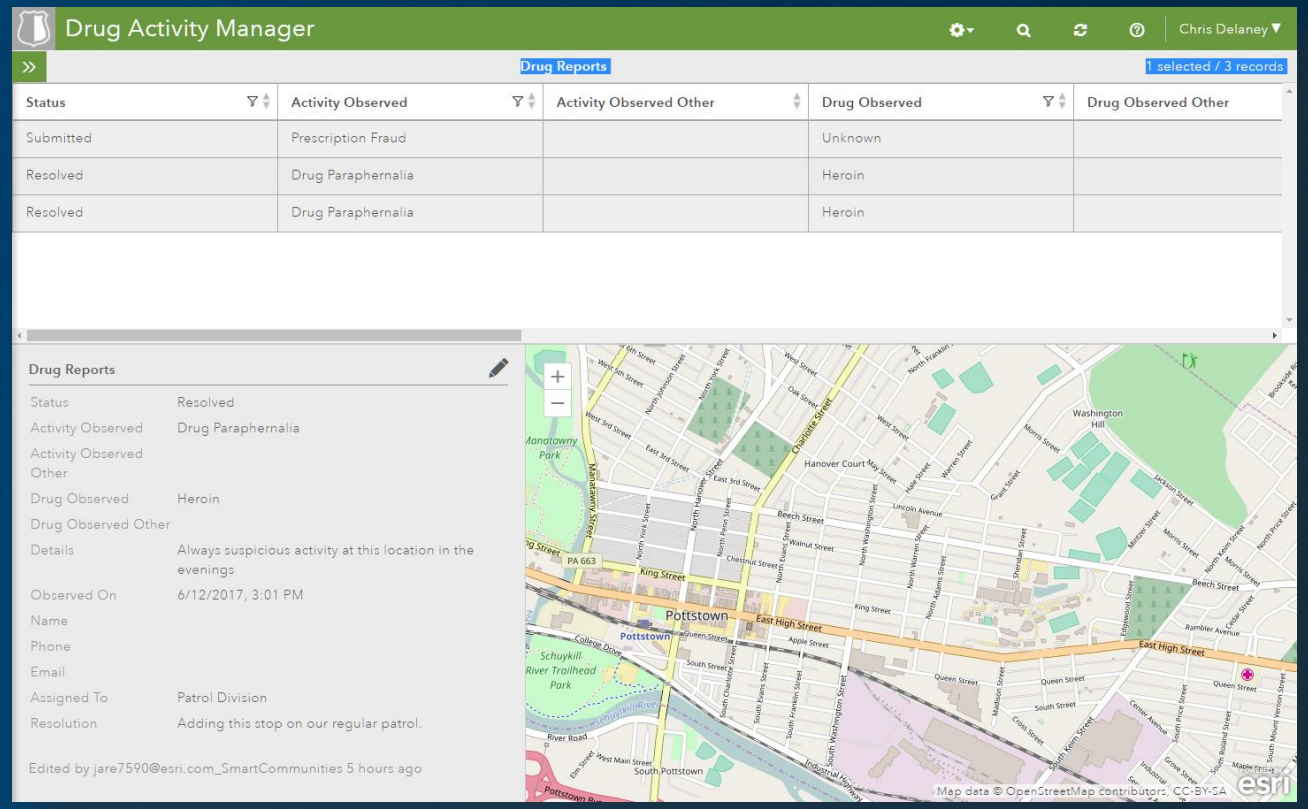
Apps Enable Citizen Reporting of Drug Tips

ArcGIS for the Opioid Epidemic

Enable Drug Tip Reporting for Citizens



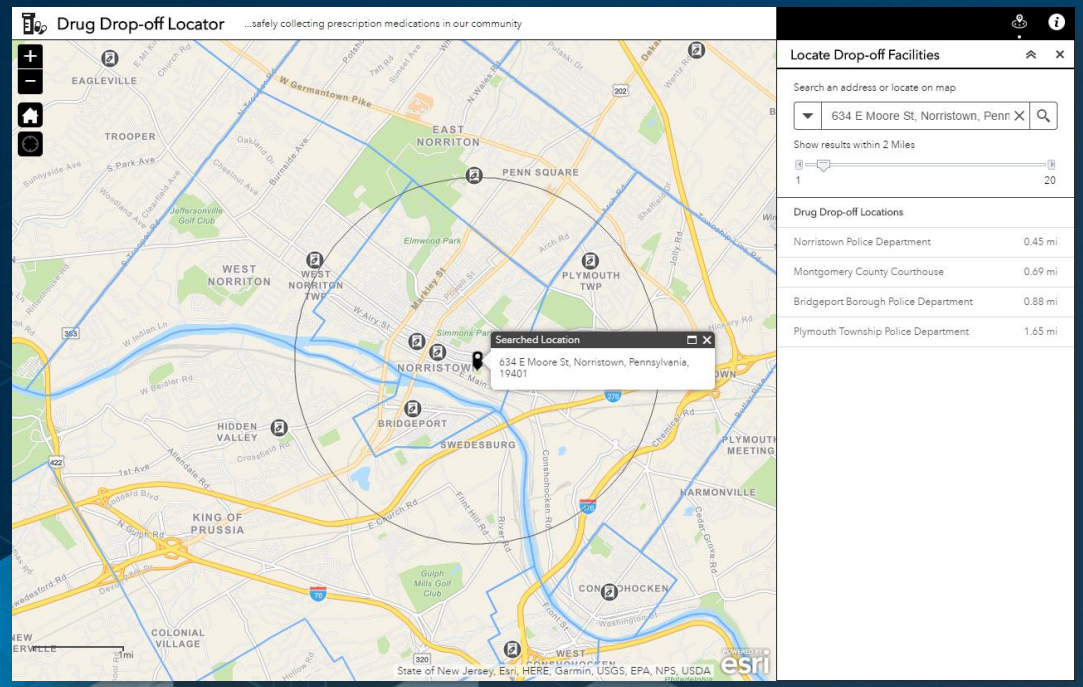
Assign and Manage Officer Follow-Up Activities



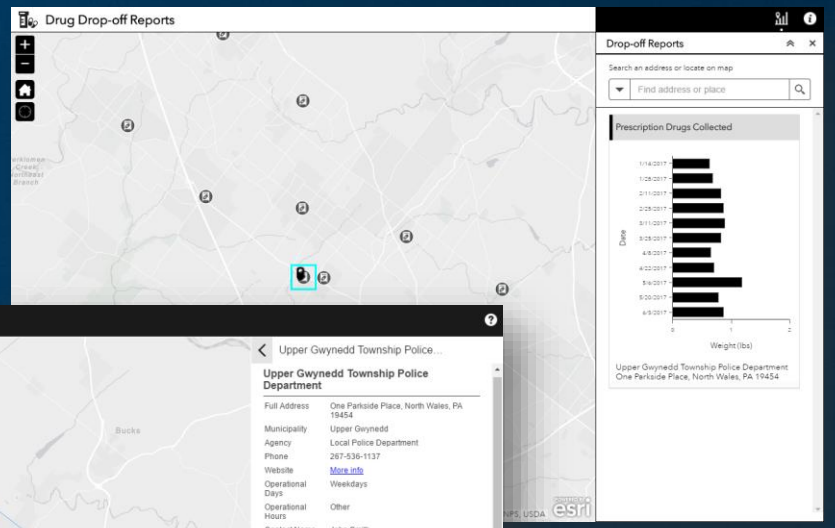
Apps to Measure Drug Drop-Box Effectiveness

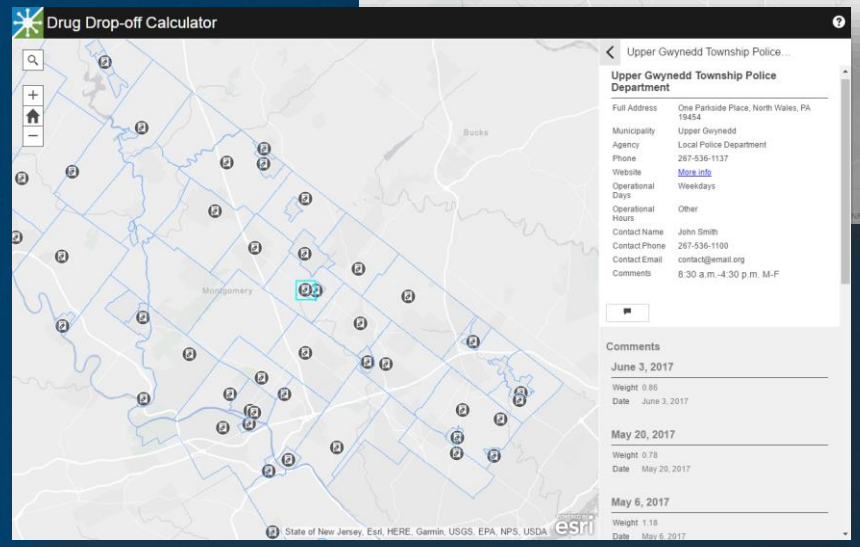
ArcGIS for the Opioid Epidemic

Help Citizens locate nearby drug drop-off boxes



Help officials report and calculate collection weights



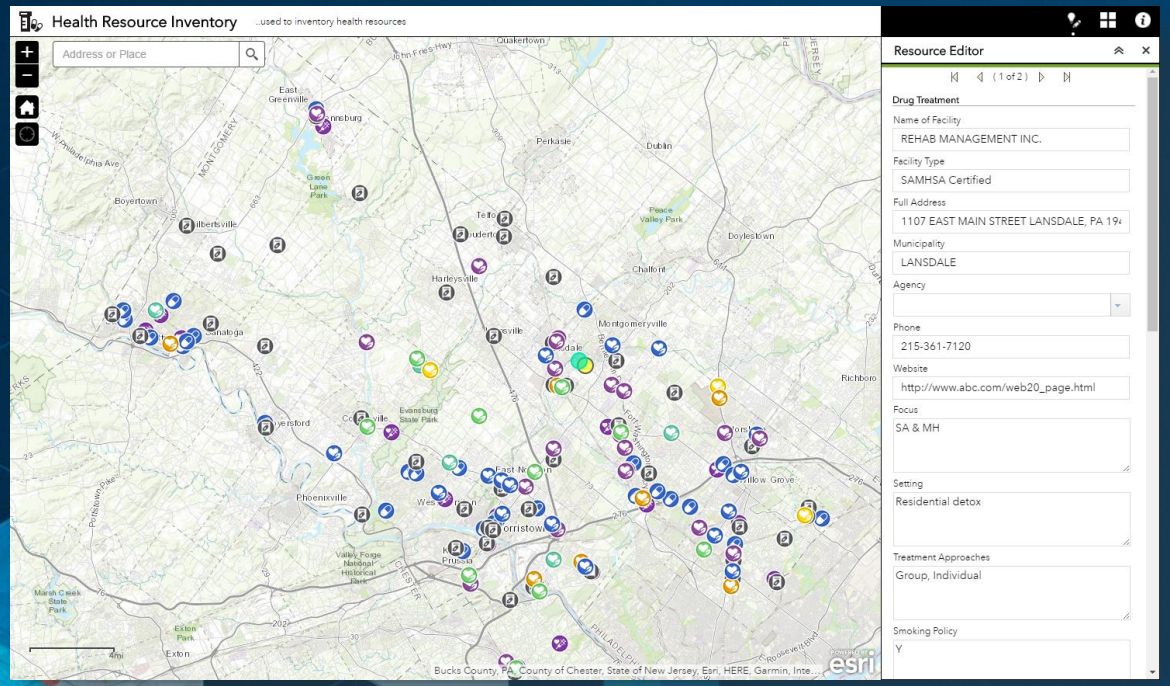


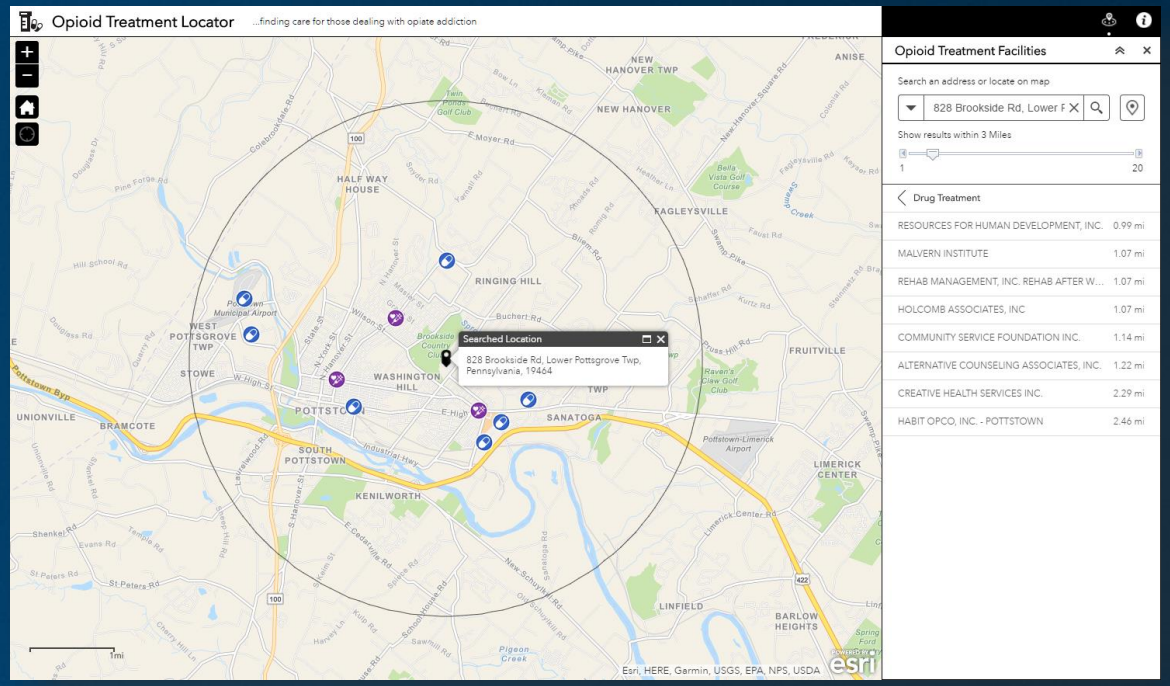
Apps to Promote Treatment Options

ArcGIS for the Opioid Epidemic

Catalog treatment resources in your community…

…and help citizens find them



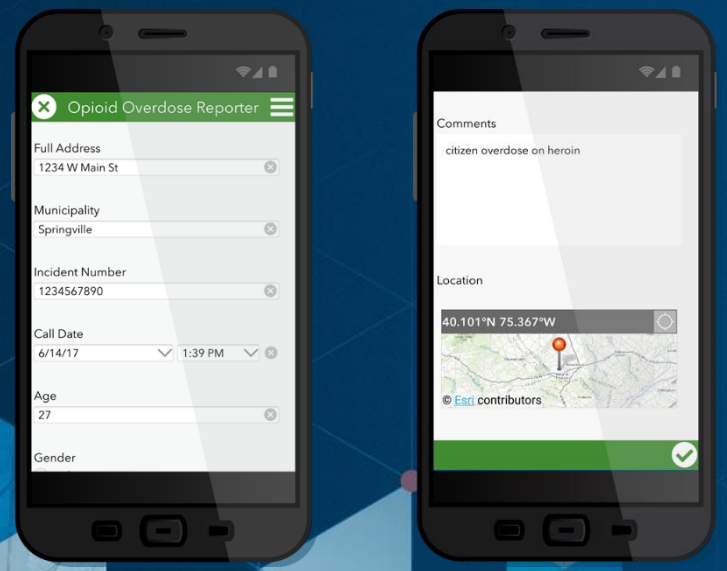


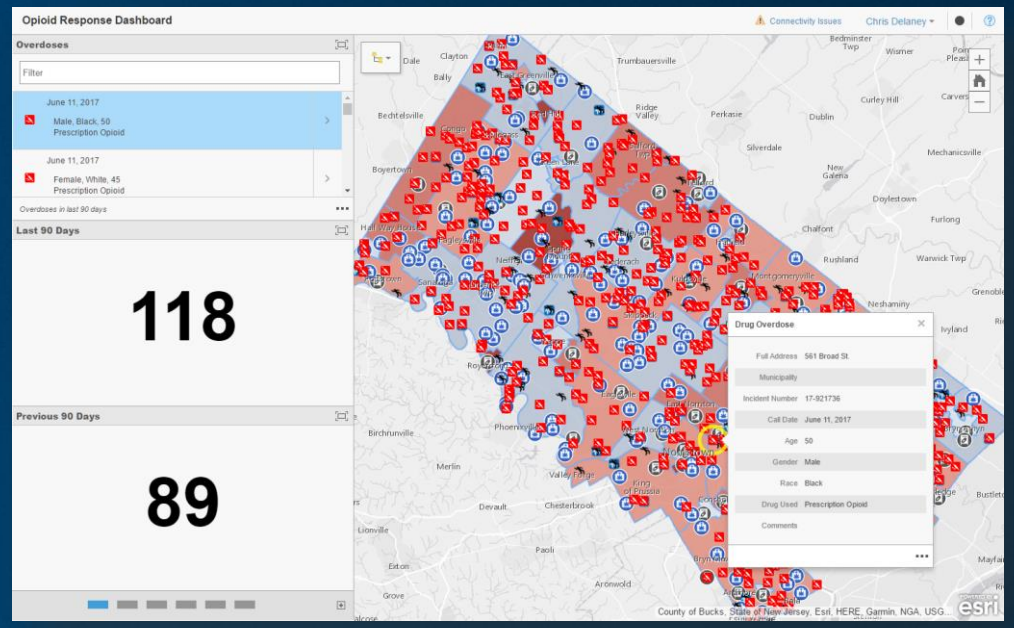
Apps to Manage Your Strategy

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

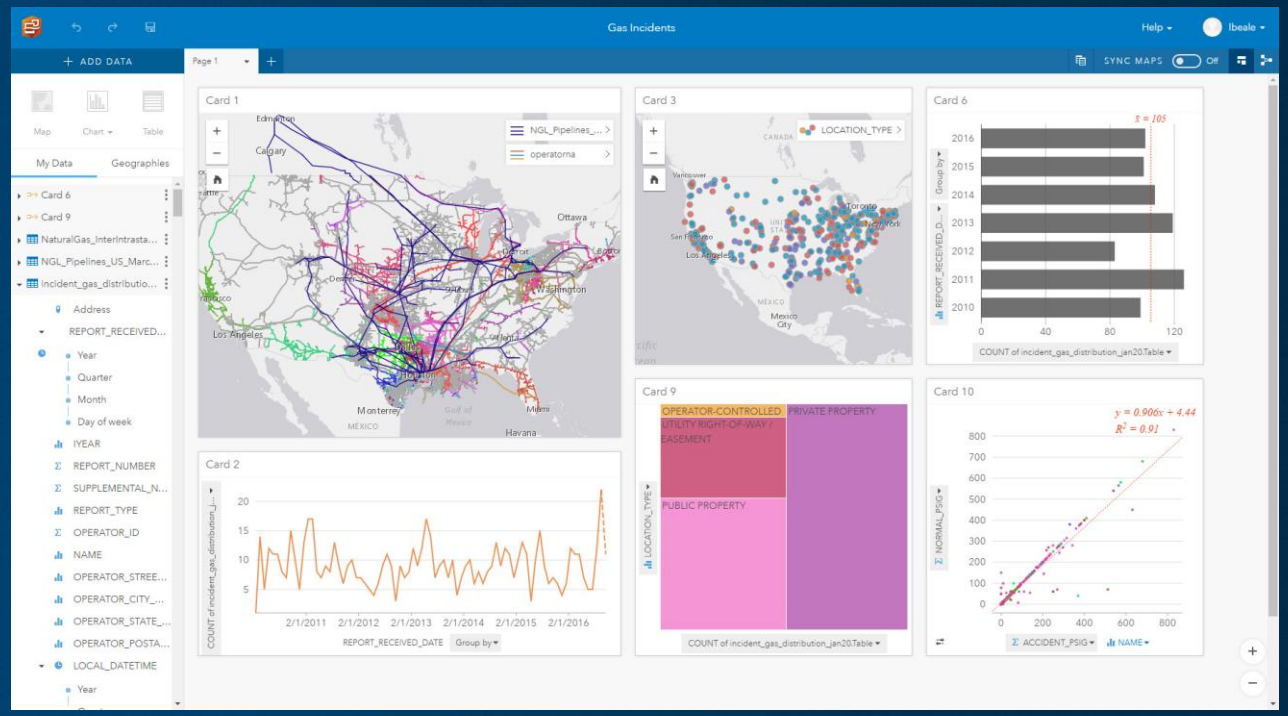




Insights for ArcGIS

Providing Data Driven Decision Making

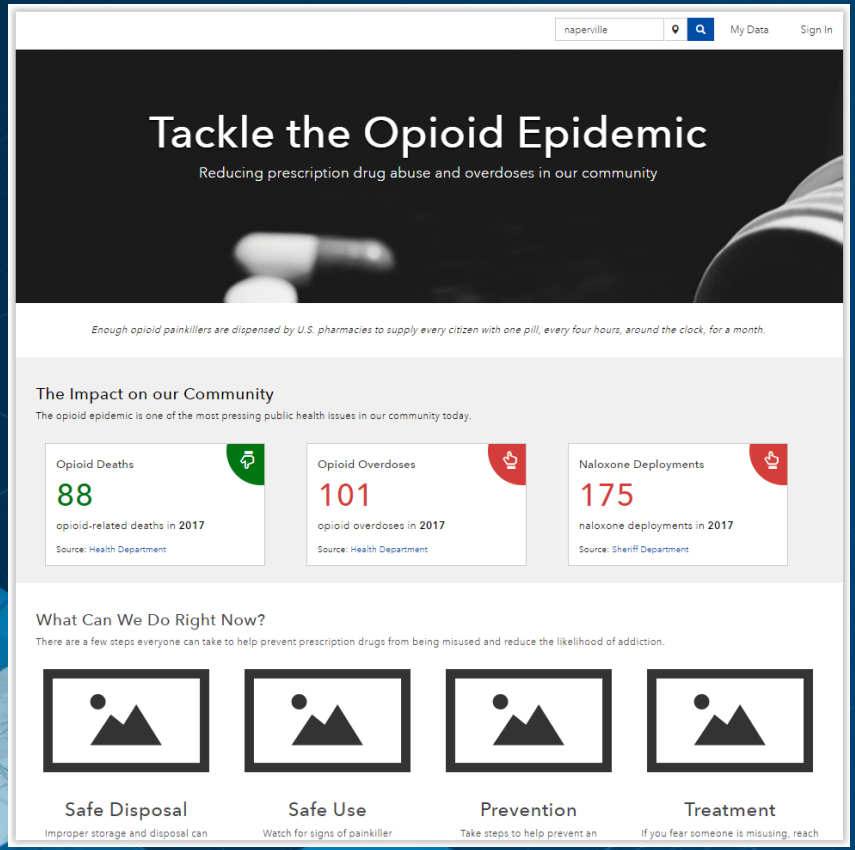
- Explore patterns, gain insight
- Leverage spatial the tabular data together
- Enrich your data thru with Esri Demographics & Infographics
- Understand populations in need
- Design effective marketing campaigns
- Share your analysis as a view, pdf or thru a storymap
- Measure effectives and rerun your analysis



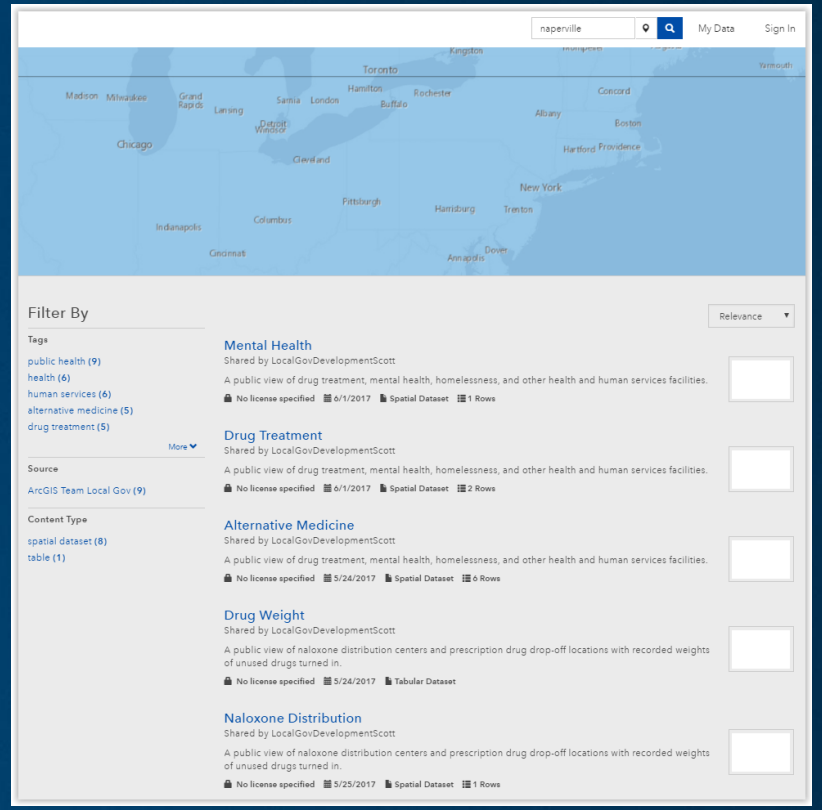
Provide a Destination for Interested Stakeholders

ArcGIS for the Opioid Epidemic

Help your community understand this initiative and how it's changing the problem.



Enable open data pages to facilitate transparency and data sharing with public stakeholders.



Demo

NGA Demonstration using Insights for ArcGIS

Krithica Kantharaj

Elected Officials & Stakeholders

- *Improves Education*
- *Promotes Treatment*
- *Ensures Effective Response*
- *Implements Prevention Strategies*

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

(Data-sharing)

(Data-sharing)

Police Mgmt

Understands Trends, assigns Patrol and Investigative Resources

Crime Analyst/Admin Staff

Analyzes Overdoses, Naloxone Admins, Drug Activity

Health Official

Analyze and Mitigate Risk

Promote Treatment and Drop-off

First Responders and Support Staff

Enters Naloxone Administrations, Overdoses

Drug Drop-off Staff

Records and disposes

Public H&HS Staff

Shares Treatment Options

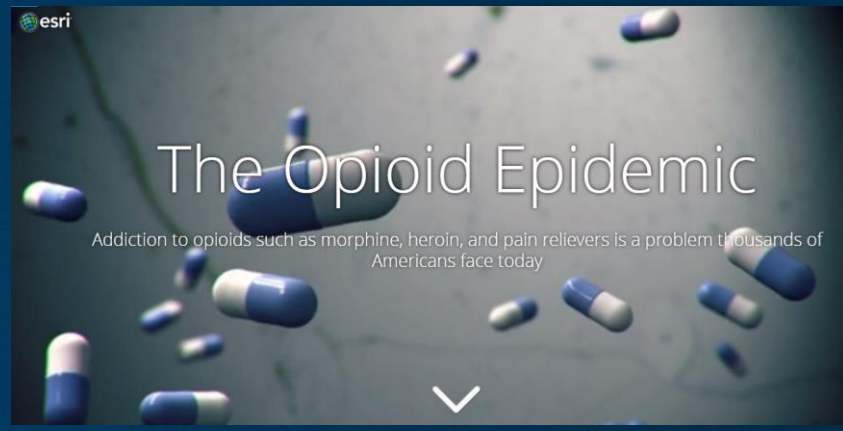
Medical Examiner/Coroner

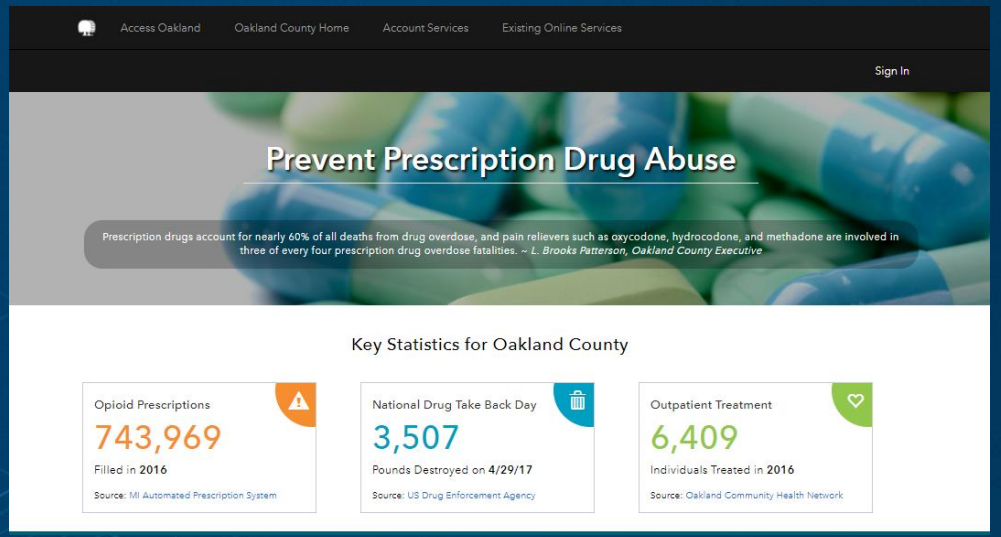
Enters Toxicology & Deaths

Where to Find Solution Templates

ArcGIS for the Opioid Epidemic

- http://solutions.arcgis.com/local-government/health/
- **Opioid Epidemic Storymap - http://arcg.is/jDrTW**
- http://accessoakland.oakgov.com/pages/oakland-county-opioid-initiative





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