Implementing ArcGIS Online in the City of Hartford

ESRI International User Conference - July 2014

City of Hartford - GIS Services
Outline

• Background Information
• Where we started
• ArcGIS Online
• GeoEvent Processor with ArcGIS Online
• Implementing ESRI Maps for Office
• Developing an Office Touch Screen Kiosk
• Imbedding Maps in a Smart Phone App
• Bringing GIS into a School System
• ArcGIS Online and Open Data
Background Information
Background Information  cont....

- 18 Square Miles
- Population 125,000 night time & 450,000 Daytime
- Seventeen Different Neighborhoods
- Currently have 22,600 Parcels & 43,000 Address Pts
- Planimetrics based on 2006 Aerial Flight
- Based on Pictometry Aerial Flights done in the same years
Where we started

• We joined the Community Basemap program in 2011
• We had wanted the rich colorful basemap
• ESRI switched to the light grey colored basemap summer 2012
• Our data was published in the fall of 2012
• We were initially disappointed in the map
• We are now very happy with the basemap we have
Where we started cont....
We use the Flex API for creating web maps.

Use Freance Mobile for creating mobile apps.

We did not think we had a use for ArcGIS Online.

UC 2013 AGS Online for Organizations free with maintenance.
ArcGIS Online cont....
GeoEvent Processor with ArcGIS Online

- Upgraded ArcGIS Server to 10.2 August 2014
- Implemented GeoEvent Processor August 2014
- Tried using FreecanceMobile to View Vehicles
- ArcGIS Online is able to Refresh Vehicles
- Created Group Logins for Vehicle Viewers
GeoEvent Processor with ArcGIS Online cont...
GeoEvent Processor with ArcGIS Online cont...
GeoEvent Processor with ArcGIS Online cont...
Implementing ESRI Maps for Office

• Mayor’s Quarterly STAT Meetings

• NeighborhoodStat, DevStat, SafetyStat, etc...

• Presentations Showed Department Statistics

• CIO wanted meetings to be more Engaging
## LSNI – Activities & Projects Update

**Data as of March 22, 2014**

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<tr>
<th></th>
<th>North</th>
<th>Central</th>
<th>West</th>
<th>South</th>
<th>CITYWIDE</th>
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<tr>
<td>Preliminary ABO Notice Letter</td>
<td>11</td>
<td>37</td>
<td>7</td>
<td>27</td>
<td>5</td>
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<tr>
<td>Notice of Violations of ABO Letter</td>
<td>10</td>
<td>21</td>
<td>16</td>
<td>25</td>
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<td>Response to the Preliminary and/or Notice of Violations Letter</td>
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<td>14</td>
<td>12</td>
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<td>Public Right of Way Cases Completed by Neighborhood Initiative Crew</td>
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<td>38</td>
<td>11</td>
<td>17</td>
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</table>
Implementing ESRI Maps for Office  cont...

LSNI- Properties Received Notice of Violations
Developing an Office Touchscreen Kiosk

• Creating a Kiosk to....

• Manage Meeting Rooms

• Manage Help Desk Requests

• Be able to Find Meeting and Training Rooms
Developing an Office Touchscreen Kiosk  cont...
Developing an Office Touchscreen Kiosk

- Find My Meeting
- Food Vendor
- View the Map
- MHIS Help Desk
Developing an Office Touchscreen Kiosk  cont...
Imbedding Maps in a Smartphone Application

- Creating Mobile App for FD
- Developed by MobilePD
- Ability to Create our own Maps
- Resulting Application
Imbedding Maps in a Smartphone Application  cont...
Imbedding Maps in a Smartphone Application  cont...
Bringing GIS into a School System

- Finding an interested Educator may take time
- Connecticut Geographic Alliance - Mark Twain House
- Being a GeoMentor
- Preparing a Presentation for Geography Week
- Resulting Presentation
What We Are Going to Talk About

- What is GIS?
- What Does Thinking Spatially Mean?
- What Can You Use GIS For?
- How We Use GIS
- Latitude & Longitude
Now it is your turn......

- Go to the following website:
  - http://www.arcgis.com and select map
Bringing GIS into a School System  cont...

ArcGIS Online Five By Five

Five Activities You Can Do In 5 Minutes Each (No login required)
(requires computers with internet speed able to support simultaneous web based mapping by all)

ACTIVITY ONE: See Your World
1. Go to http://www.arcgis.com, and click “Map”
2. Grab, hold, and move the map to pan
3. Test out zooming in and out, using the map’s zoom bar, the mouse’s scroll-wheel, double-click, and “shift+clickdrag”.
4. Zoom all the way out to the world, and all the way in to your home. Notice what happens when you zoom in and out.
5. Use the Search box in the top right to find the address of a friend, a relative, or a place, like your state’s capital city.
6. Click the Basemap button and look at each of the different basemaps, from all the way out to all the way in. Notice what happens in each as you zoom in and out.

ACTIVITY TWO: Measure and Mark Your World
1. Zoom out to the world. Click “Measure” and choose “line”. Measure (click to start, double-click to stop) roughly the distance from western USA to Europe, and western USA to central Asia, and northern Alaska to the southern tip of Africa and then the southern tip of South America. (Extra credit: What’s a “great circle”?)
2. Change the measure tool from the ruler to the location tool (looks like a little globe). Click it, wander the map, then zoom in and find the coordinates for your home, Mt. Everest, and the White House. Close the Measure window.
3. Click the “Add” button, choose “Add Map Notes,” and use the “Map Notes” template by clicking “Create.” Drop a pushpin on Mt. Everest and name it “Mt. Everest.” Zoom back to the White House, drop a pin, and name it. This time, click “Change Symbol,” and stroll thru the symbol choices, in “Rustic” and all the other palettes.

ACTIVITY THREE: Explore Your World
1. At the top of the map, click “New Map”, and choose “Open”. This will give you a new clean map space, with the Topo basemap, and no additional layers.
2. Choose “Add/Search for layers.” In the “Find” window, type “population.” Near the top, you should find “USA Population Density”. Click on the name, see a quick thumbnail, and click on “Add to map.” Then, at the bottom of the left-hand window, click “Done Adding layers.”

http://edcommunity.esri.com
Bringing GIS into a School System cont...

- Short Presentation to 4th, 5th and 6th Graders
- About 45 minutes to each Class
- It was an Interesting and Rewarding Experience
- The Teacher attended T3G in June 2014
- She is now working on a Integrating GIS into Curriculum
(March 27, 2014) In an effort to increase transparency and efficiency, Hartford Mayor Pedro E. Segarra announced today that he has signed an executive order mandating all city departments to publish raw government data on the city’s website. The executive order authorizes collection of the data by the Chief Information Officer who will manage and update the information regularly. To kick off the effort, twenty data sets will be released in the next several months including financial, budget, assessors, tax, grand list, and health and human services information.

“This is about far more than transparency,” said Mayor Segarra. “Opening the door to public information makes our services easier to access, our City departments more efficient, and our collaborations with strategic partners more effective. Sharing data allows residents to understand how government works and gives them a chance to play a more active role in it. It will also allow us to come up with data-driven solutions for many of our most persistent problems.”

Mayor Segarra’s Executive Order No. 2014-1 establishes an Open Data Management Team made up of the Chief Information Officer and appointed representatives from each city department.
ArcGIS Online and Open Data cont...

- Decided to use Socrata Open Data for Raw Data
- ESRI was just Developing their Open Data Platform
- Decided to use ArcGIS Online for Open GIS Data
- Developed website in pre-beta
- Benefits - Unlimited Data Sets, Leverages SDE & ArcGIS Server
ArcGIS Online and Open Data - cont...

There has been a 43% reduction in Vacant Residential Properties in the City in the past year. The two major contributing factors are the Mayor’s Livable Sustainable Neighborhood Initiative and the improving economy.

Hartford Open Books

The detail of financial data within Open Books covers every level of the City’s General Fund expenditures, from total spending by fiscal year to individual vendor payments. Open Books is updated weekly with the most recent invoice numbers. At this time this App

Building & Trade Permits

This dataset will give the user access to Building & Trade permits issued by the Licenses and Inspection Department issued from January 1, 2011 to current. The dataset is updated...
ArcGIS Online and Open Data cont...

The detail of financial data within Open Books covers every level of the City's General Fund expenditures, from total spending by fiscal year to individual vendor payments. Open Books is updated weekly with the most recent closing numbers. At this time, this App will not work on a Smartphone such as iPhone or Android device.

HartfordGIS Data

This website will give the user access to the City's GIS data. You will be able to download data from our Enterprise SDE Geocadatabase from our Open Hartford GIS data portal on ArcGIS.com. This site is currently in Beta so there is a limit to the number of features you can download.

Food Establishment Map

This map will show all of the current Class 1 - Class 4 Food Establishments in the City. As you zoom into the map, individual locations will appear on the map and you can select them to bring up a detail box with the associated information.

Food Establishments

This dataset will give the user access to an export of the Class 1 - Class 4 Food Establishments from the City's Munis database. This dataset is updated nightly.

Grand List 2013

This dataset will give the user access to the City's Grand List as of October 1, 2013 for real property.

Assessor Property Information

This dataset will give the user access to the Assessor Property Information and it is updated on a nightly basis. It can be used to join the information to the GIS parcels using a relate on the field GPSIN.
Welcome to the City of Hartford's GIS Open Data Portal

This website gives access to the City's GIS data. You can download data from our Enterprise SDE Geodatabase.

Sample List of Data

- Property Data
- Tax Data
- Open Data

Socrata

City of Hartford - GIS Services
ArcGIS Online and Open Data cont...
Questions

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