

Welcome everyone!

Inform, Promote, and Assess Public Health Using ArcGIS Online

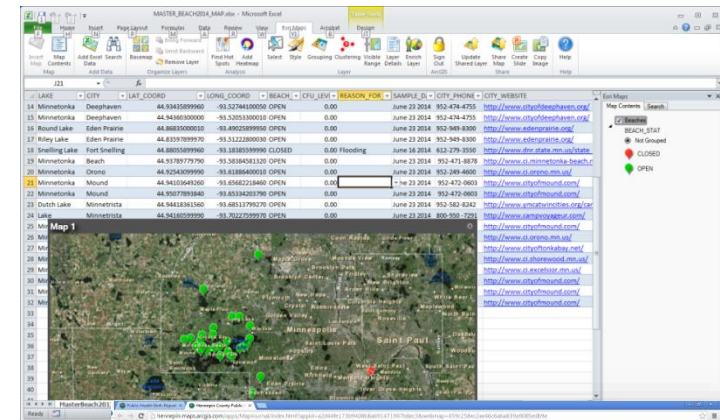
Jay Meehl

HSPHD/Health GIS Coordinator, GIS Office
Hennepin County, Minnesota

What's on the agenda?

Presentation Outline:

1. Purpose Statement
2. ArcGIS Online at Hennepin County
3. ArcGIS Online and Health Related Businesses
4. ArcGIS Online Demonstrations
5. Lessons Learned
6. Questions and Answers (time permitting)



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Purpose Statement:

Provide a high-level overview of what is involved with implementing ArcGIS Online, as well as how it could benefit public health by illustrating efforts and applications at Hennepin County.

Introduction of ArcGIS Online at Hennepin County

- Two large group presentations with demos
- Collected feedback from groups & online survey
- Published recommendations for the GIS Office & report for the GIS Steering Committee

Main Findings:

- Hennepin County should have one ArcGIS Online organization.
- Creation of an administrator's group
 - Representatives from LOB (lines of business) & GIS Office
 - Group oversees ArcGIS Online site, licenses, monitor credit usage, and review applications.

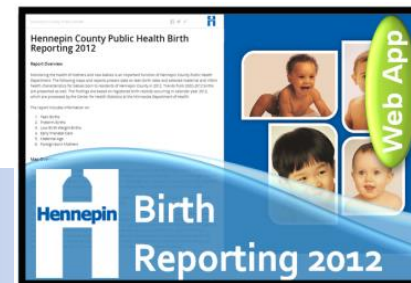
An implementation strategy is important!

Findings, recommendations, and additional research within our report helped:

- Guide **implementation**
- Define an ArcGIS Online **model** for Hennepin County
- Define user roles and **responsibilities**
- Manage and **maintain** our organization
- Identify **data resources**, storage, & metadata
- Document issues and the **review process**
- Promote County **branding** and **web standards**

See handout for some of the specific recommendations...

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ArcGIS Online for Health Related Lines of Business

- Human Services and Public Health Department (10 users)
- Metropolitan Health Plan (0 users)
- NorthPoint Health and Wellness Clinic (1 user)
- Hennepin County Medical Center (1 user)
- Hennepin Health (1 user)
- Hennepin County Medical Examiner's Office (1)

...with hopes to double these numbers in the next few months.

ArcGIS Online draft strategy for Public Health

Draft Strategy: group topics, define focus, identify tools.

Category	Focus	Tools	Example
Decision Making Audience – internal leadership, county staff, community partners, state agencies, & clinic networks	Data intensive, possible analysis, program specific, for planning & project purposes	Story Map Journal, Compare, & Time Aware Templates. Spatial Analysis & Maps for Office	2012 Birth Report Application (Story Map Journal)
Health Support Network Audience – county residents, county support staff, & community partners	Simple, easy to use, grouped health themes, services & resources	Basic Viewer, Classic Viewer, and Story Map Tour Templates	Healthy Eating Farmers' Markets Application (Classic Viewer)
Public Notification Audience – county residents & county support staff	Timely, specific, event focus, assist with client inquiries	Maps for Office, Local Perspective & Public Information Templates	Beach Monitoring Application (Maps for Office)

Some considerations as you move forward.

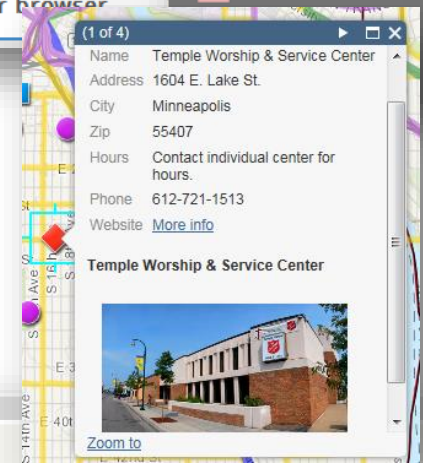
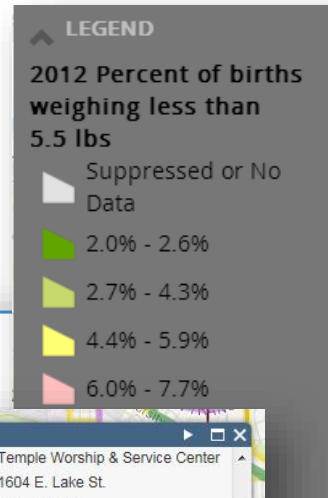
A few considerations for ArcGIS Online...

- User Activity Issues
- Data Communication
- Suppression Rules
- Data Timeliness
- Audience & Promotion
- Permission & Security
- Web Standards & Browsers



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Beach open or closed? Check new Hennepin website

A day at the beach could come with fewer surprises now that Hennepin County has launched a website where users can determine whether more than two dozen public beaches in the county are open or closed.

The website displays a map with colored balloons — green if the beaches are open, red if they're closed. A click on any of the balloons opens a

box listing the name and location of the beach, its status, what lake it's on and links to further information.

When beaches are closed it's usually due to bacteria contamination from human or animal feces, said Duane Hudson, program manager for the county's environmental health department. That can commonly come from swimmers them-

selves, kids in dirty diapers, ducks and geese, storm runoff or boaters who don't properly dispose of waste, Hudson said.

The county tests water quality at 31 beaches weekly, and those results determine when a beach might be closed.

The beaches mapped on the website are operated by a range of pub-

lic agencies. Minneapolis and Three Rivers Park District beaches are not included, but Hudson said he hopes to add them.

Hudson believes the maps will be useful when a beach is known by its location but by several different names. The website is at <http://tinyurl.com/qdm84y8>.

BILL McAUUFFE

436.84
Analytics - Usage



- GeoEnrichment (21.61 credits)
- Simple Routes (1.4 credits)
- Spatial Analysis (14.39 credits)
- Closest Facility Routes (1 credits)
- Geocodes (256.44 credits)
- Service Areas (142 credits)

Tap chart slice or legend text for additional credit and usage details.

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Modifying your data and workflow...

To fully utilize ArcGIS Online web applications...

1. **Implement a data stewardship strategy**

- Work with LOBs to schedule data updates, check hyperlinks, change contact info or seasonal hours

2. **Expand feature attribute information**

- Include homepage & graphics URLs, contact info and multi-year data within feature attribute tables

3. **Improve spatially accuracy**

- To accommodate image basemaps & location services

4. **Create workflow processes**

- Excel data update and push processes, for peer review and browser tests, and internal web standards review

Public Health applications...

Our ArcGIS Online applications include:

- [Cool Options](#)
- [Healthy Eating](#)
- Food Shelves - internal
- Senior Living – internal

Plus these discussed today...

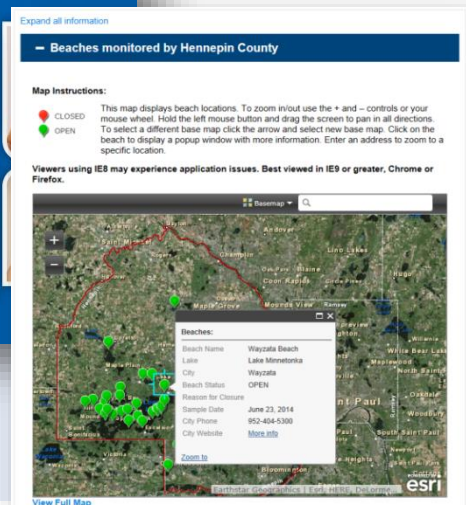
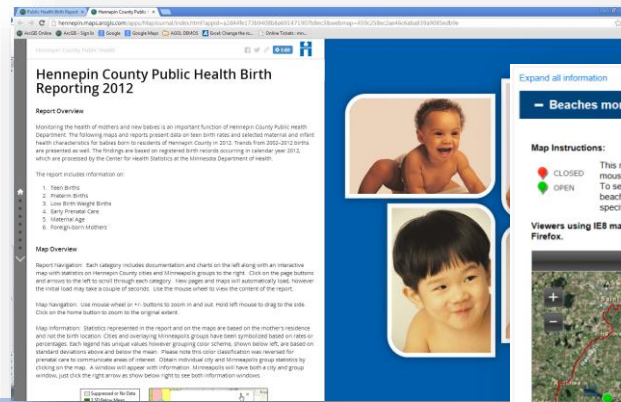
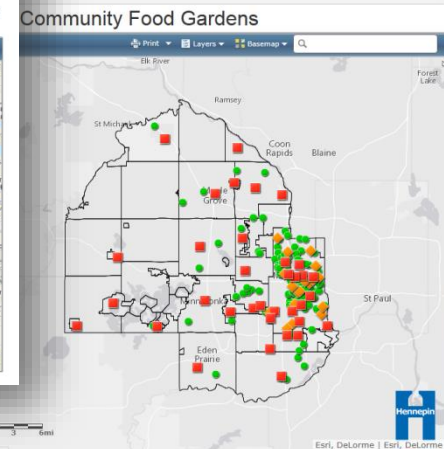
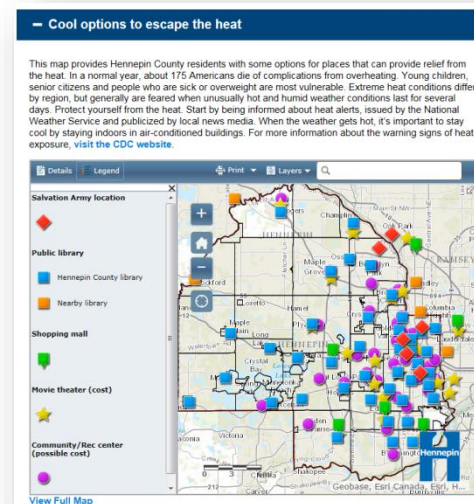
2012 Birth Reporting

Story Map Journal format

Beach Monitoring

Maps for Office format

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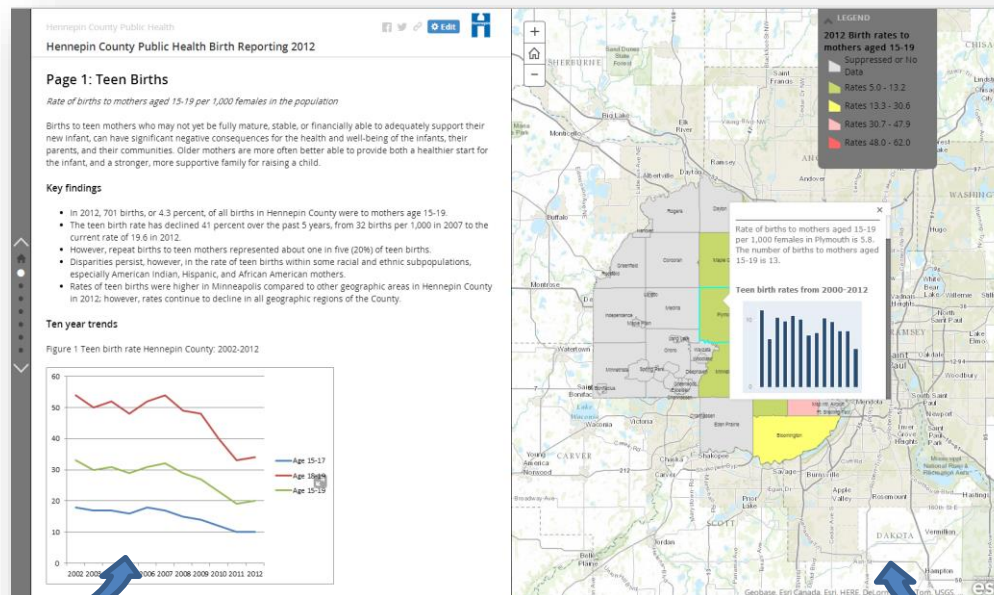


2012 Birth Reporting Application

Previous birth records were organized into PDF reports and listed under the Public Health Data website. By using the ArcGIS Online Story Map Journal template we can now create applications that contain...

Side Panel

Embedded text, hyperlinks, charts, images, video, websites, and interactions with the main stage panel.



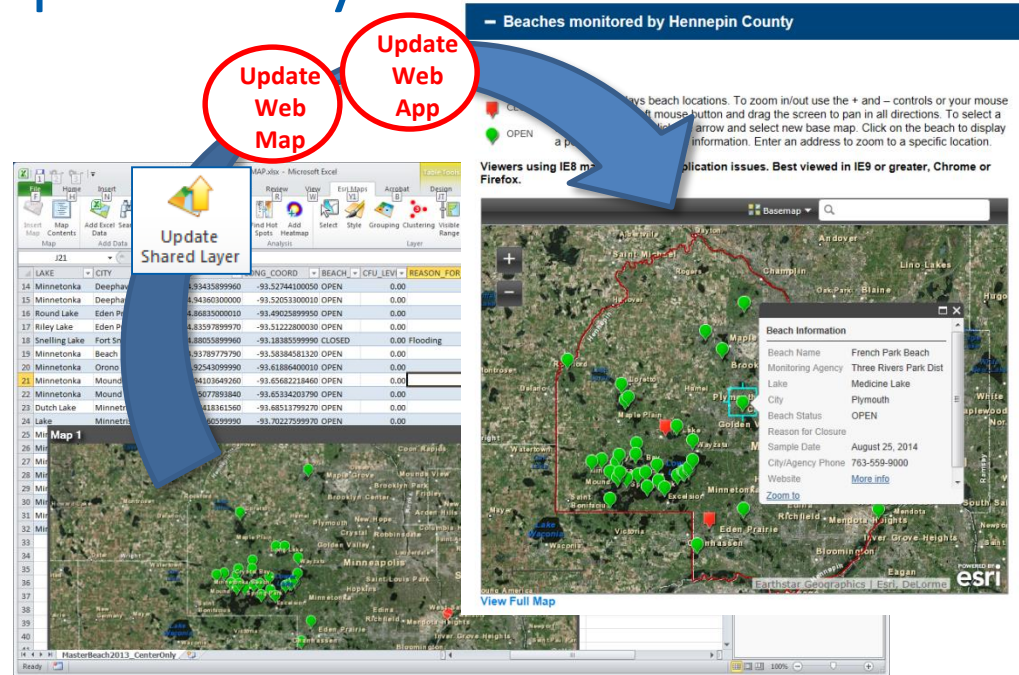
Main Stage

Interactive maps with thematic data, informative narrations, charts, site pictures, hyperlinks, and much more...

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The Environmental Health unit tests water quality for 31 beaches in Hennepin County.



3 staff involved (EH, GIS, IT)
24 hour turn-around to host PDF map

1 staff involved (EH)
24 minute turn-around to host web map

*Just don't change
the table structure...*



Zen and the Art of ArcGIS Online Implementation...

1. *Organization is everything*
2. *Try to stay ahead of the excitement*
3. *Be restrictive and flexible*
4. *Assign the responsibility to everyone*
5. *Design to inform not irritate*
6. *Strive to be trusted not trashed*
7. *Be aware of credits but not afraid of credits*
8. *Revisit, revise, or retire*

See handout for a more detailed (less Zen) description...

Thanks for attending!!!!

Questions or Discussion?

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With thanks to Duane Hudson and Amy Zagar

Hennepin County HSPHD Environmental Health

Dave Johnson and Amy K Leite-Bennett

Hennepin County HSPHD Public Health

And the Hennepin County GIS Office