

# Extending GIS to Everyone with ArcGIS Online

How URS Corporation is utilizing the latest GIS software and technologies



**Alex Bostic** – GIS Developer  
**URS Corporation**

# What is ArcGIS Online?



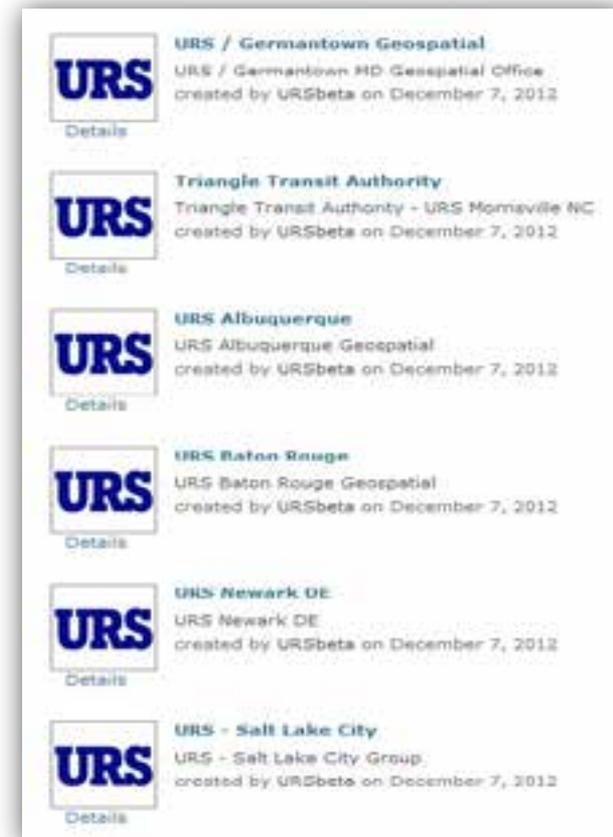
Graphic Credit: Esri Australia Managing Director Brett Bundock

# Why ArcGIS Online?

- Manage geospatial data in a secure environment
  - Users, groups, organization
- Publish custom maps
  - Share maps created in ArcGIS Desktop
- Create Web Maps
  - Create maps online completely free of desktop software
- Collaborate across organizations
  - Share via Desktop, Internet, Mobile
- Explore relevant base maps and data
  - Take advantage of data/services others have authored

# How URS is using ArcGIS Online

- [URS Enterprise ArcGIS Online webpage](#)
- Over 60 members nationally creating, editing, viewing & sharing web maps and geospatial data
- Office Groups across the country
  - o Germantown, Albuquerque, Baton Rouge, Newark, Morrisville, Austin, Phoenix, Minneapolis, Milwaukee, Salt Lake City, Chicago, Tampa Bay
- Client-Focused Groups
  - o Several local agencies and private organizations
  - o Share data across ArcGIS Online
  - o Organizations
- Emergency Response Groups
  - o Hurricane aftermath rapid response



# ArcGIS Online for Organizations Overview

HOME GALLERY MAP GROUPS MY CONTENT Find maps, applications and more... Q

## URS ArcGIS Online for URS - Collaboration for our Enterprise

More Information

MapBoard Upper Bushy Creek OptiSite Sungevity

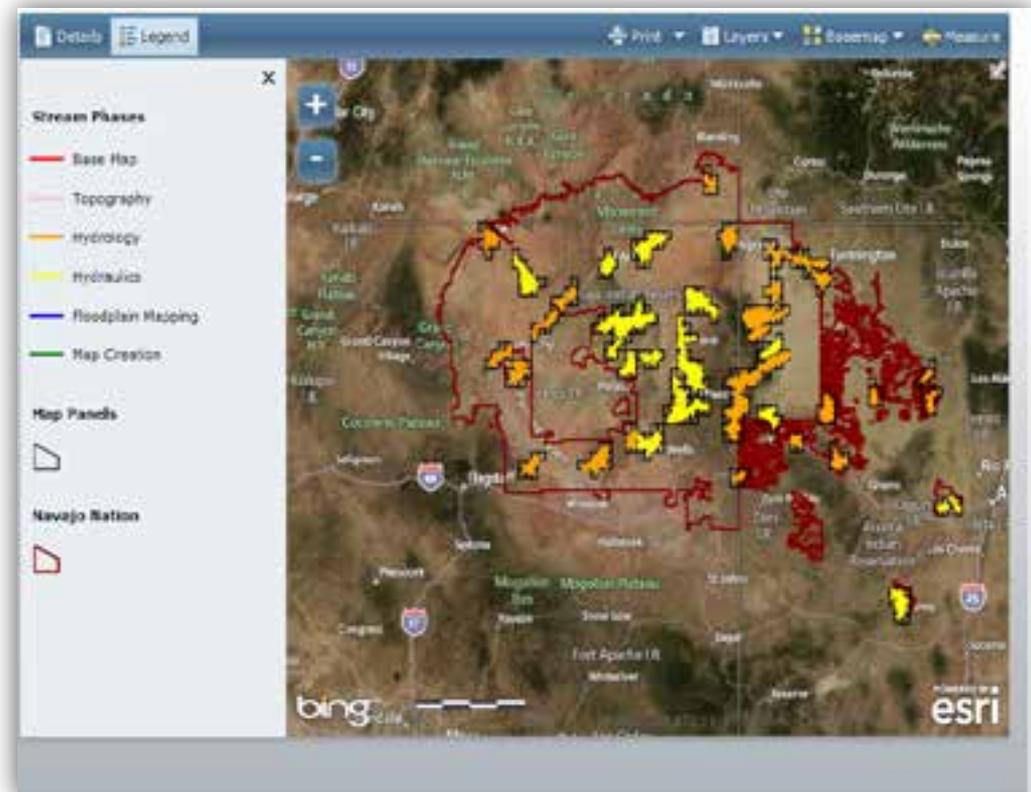
URS Corporation is a leading provider of engineering, construction and technical services for public agencies and private sector companies around the world. The Company offers a full range of program management; planning, design and engineering; systems engineering and technical assistance; construction and construction management; operations and maintenance; and decommissioning and closure services for federal, oil and gas, infrastructure, power, and industrial projects and programs.

**Make a Map »**  
Create a map that can be viewed in a browser, desktop or mobile device. Share it on a blog, via email, or embed it in a website.

**ArcGIS Online for Developers »**  
Build custom web and mobile applications that incorporate your maps and data.

# Embedded Web Maps

- Embedded in customized websites
  - Real-Time Project status
  - Document upload
  - Data Dissemination
  - OTB Template



# Develop Innovative Workflows



# QA/QC Impervious Surfaces

## Issues:

- Hard-copy
- Dated information
- Not dynamic
- Can't zoom in
- Can't turn on/off layers
- What's the impervious surface area?
  - Labels- Useful information or cluttering the map/confusing readers?

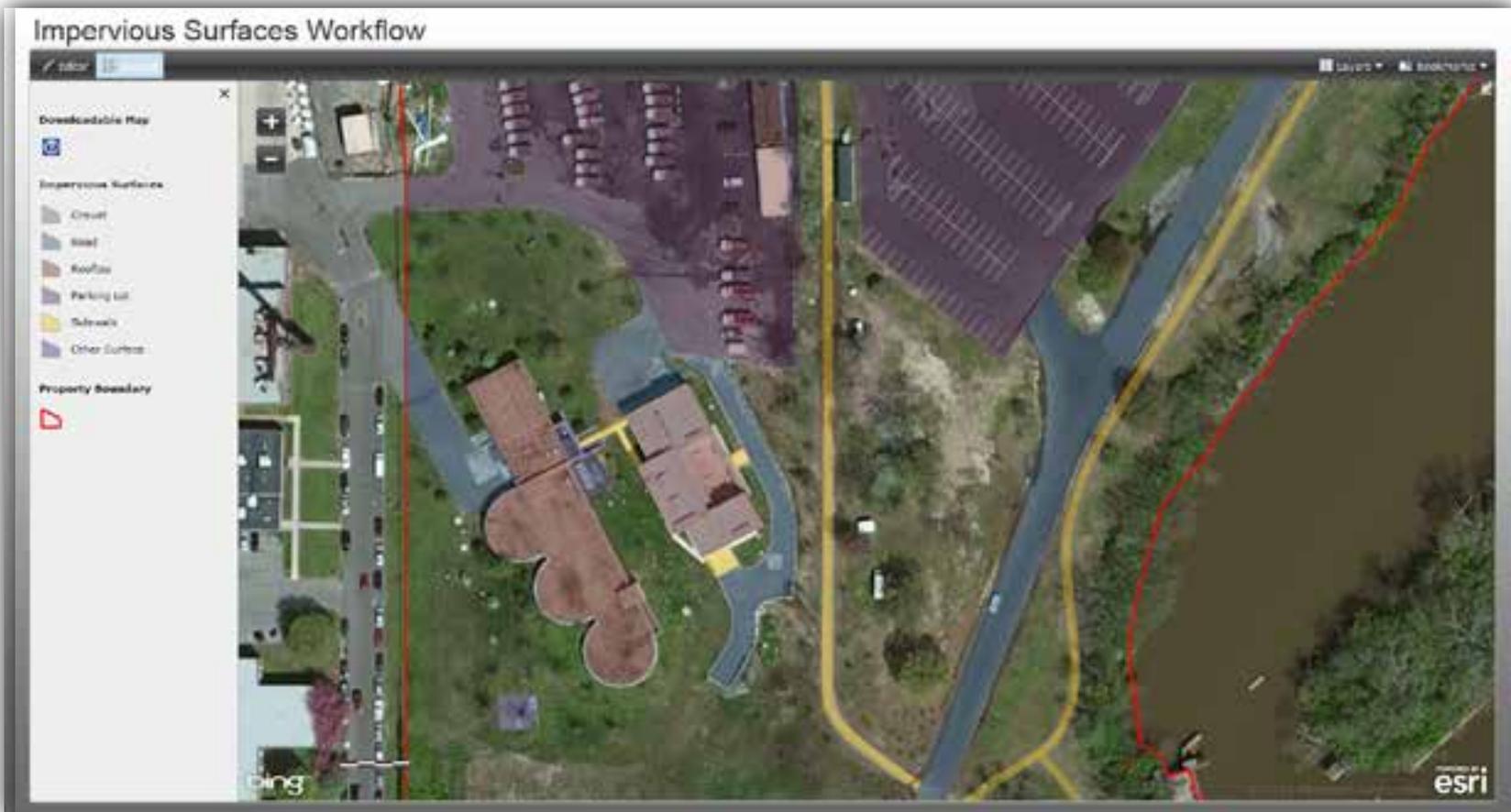
## ArcGIS Online Benefits:

- View spatial data
- Create editable comments



# QA/QC Impervious Surfaces

- Interactive ArcGIS Online Application
  - Zoom In/Out



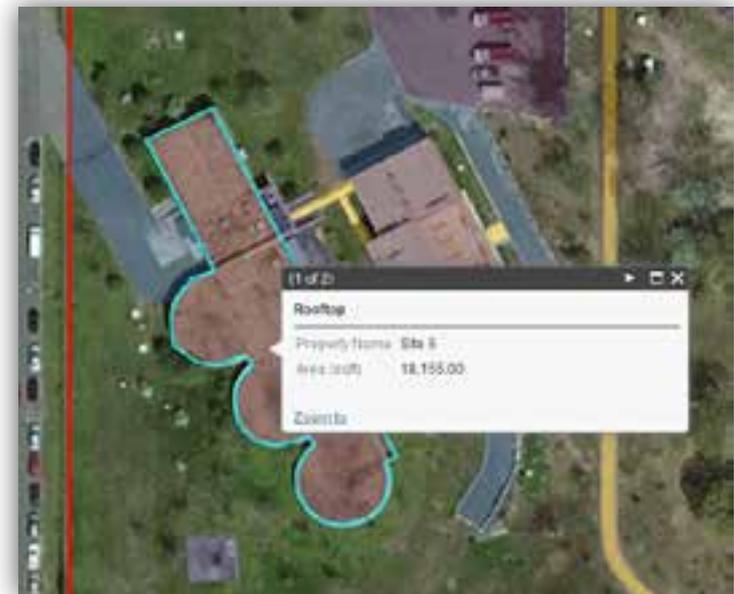
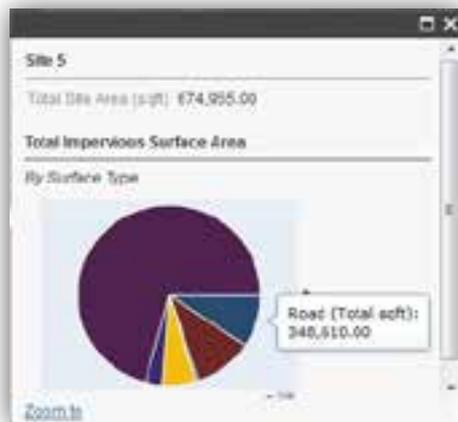
# QA/QC Impervious Surfaces

- Interactive ArcGIS Online Application
  - Turn Layers On/Off



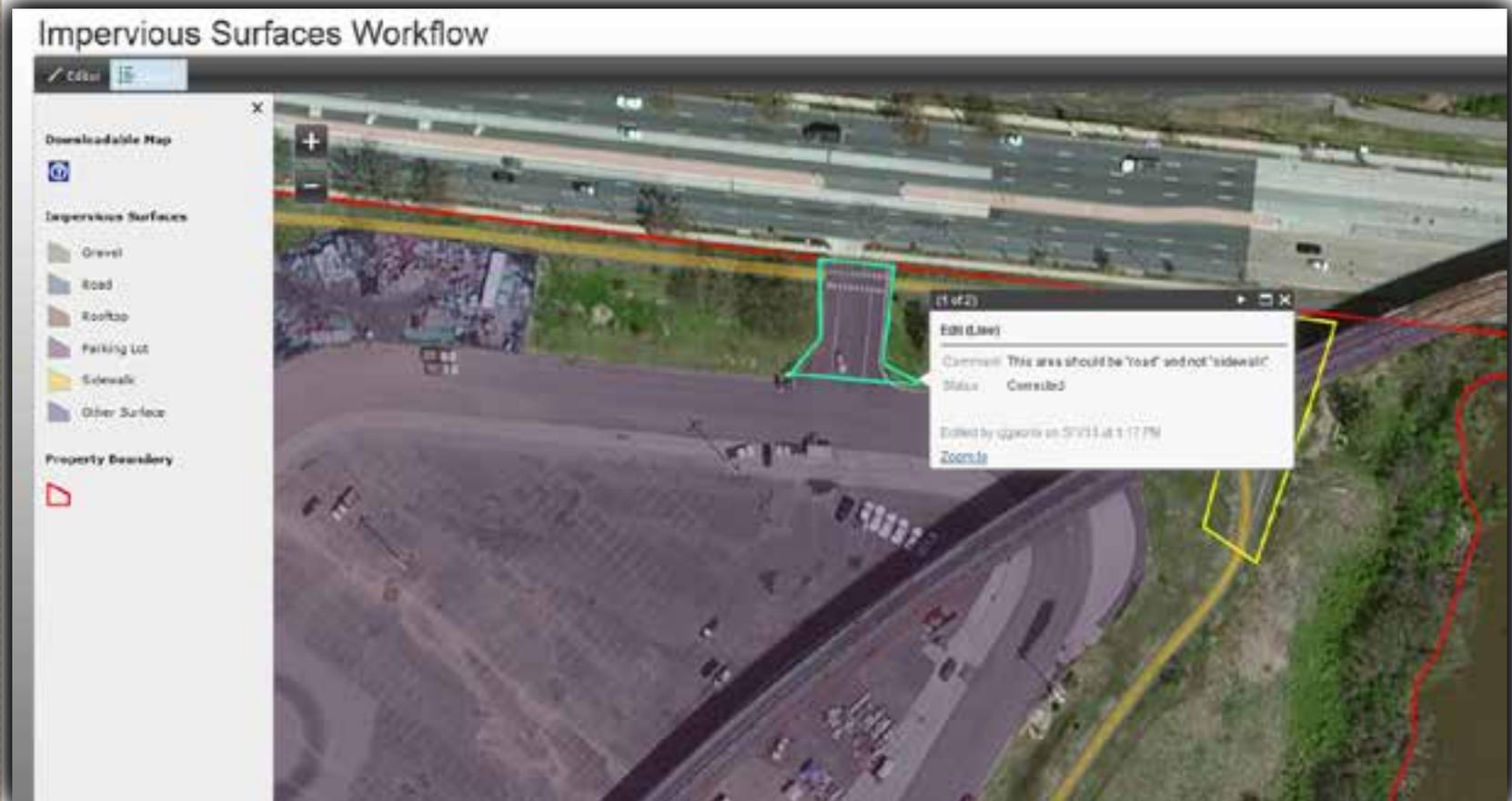
# QA/QC Impervious Surfaces

- Interactive ArcGIS Online Application
  - Obtain Useful Information About the Data



# QA/QC Impervious Surfaces

- Interactive ArcGIS Online Application
  - Create Edits Calls/Comment on the Data



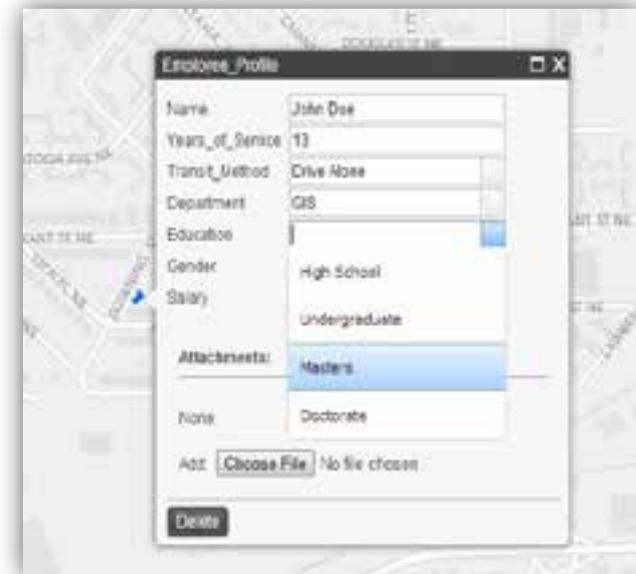
# Generate “Controlled” Data

## – Overview

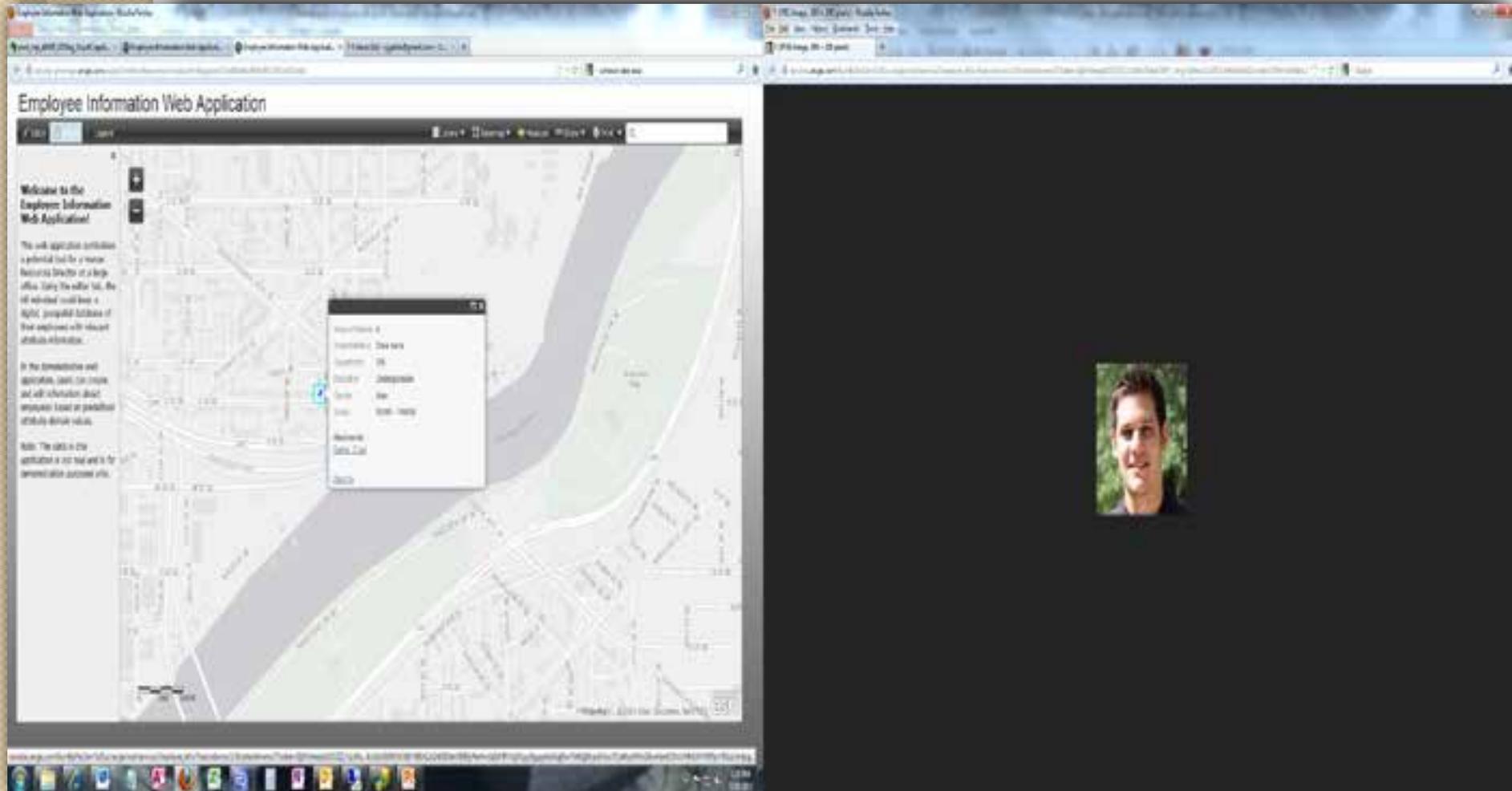
- Created data using domains
  - Rules applied to field to enforce data integrity
- Enable editing/attachments
  - Add pictures associated with features/entities

## – Potential Uses

- Collecting information about employees (see demo)
- Field work (replicate data to Server)



# Generate "Controlled" Data



# Esri Maps for Office

- Map-Enable Your Data
  - Making dynamic/customizable maps from Excel data
- Share with audiences through Microsoft Excel and PowerPoint
- Publish maps to ArcGIS Online from Excel



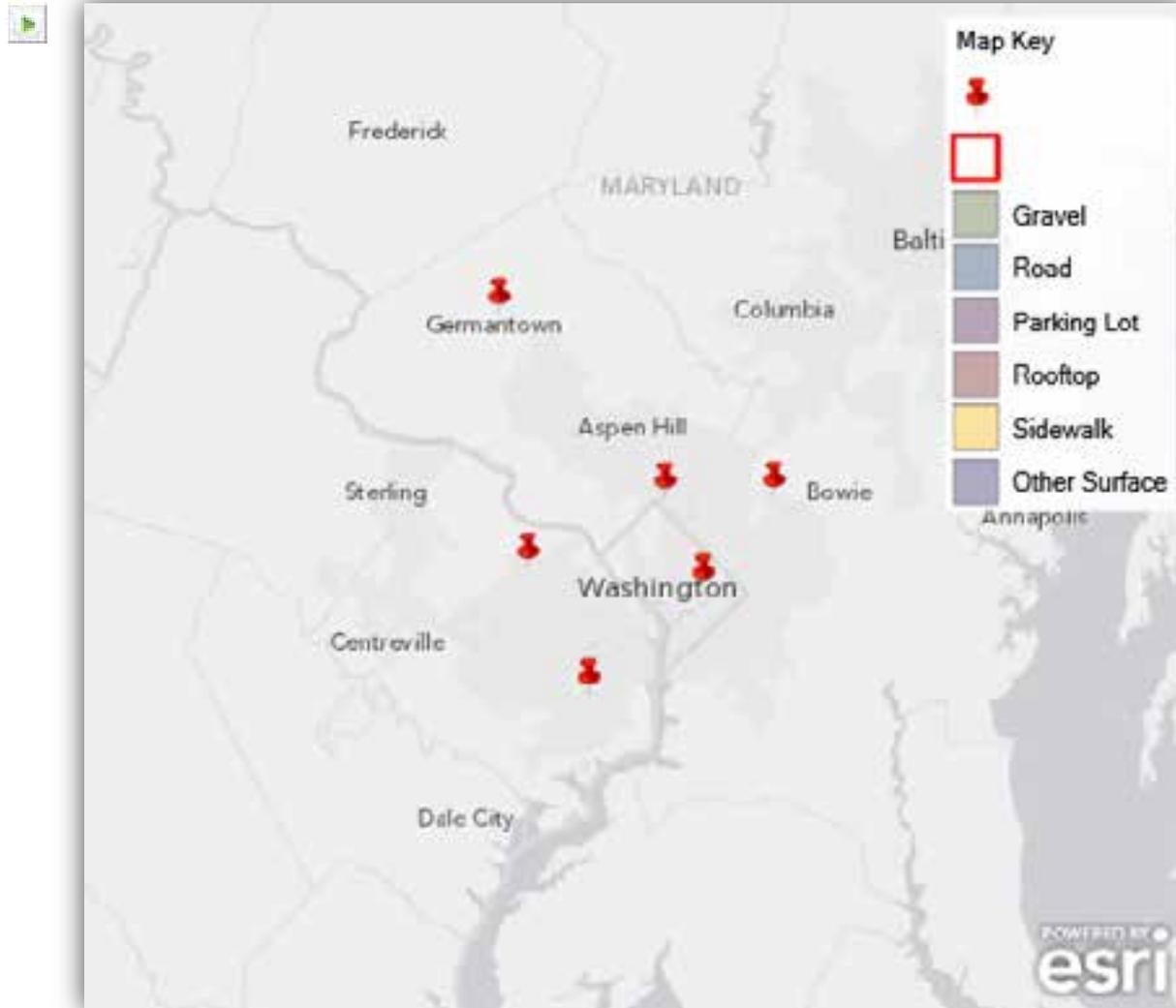
# Esri Maps for Office

The screenshot displays a Microsoft Excel spreadsheet with an embedded Esri map. The spreadsheet contains a list of employees with columns for Name, Office, Address, City, State, and Zip. The map, titled 'Map 1', shows the United States with red circular markers indicating the locations of the employees listed in the spreadsheet. The Esri logo is visible in the bottom right corner of the map.

Name	Office	Address	City	State	Zip
1. Lopez, Tim	Greenacres	12420 Milestone Center Drive	Germentown	MD	20876
2. Gabris, Chris	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
3. Kaufmann, Christian	Oakland-Broadway	1333 Broadway	Oakland	CA	94612
4. Abbott, Rose	Oakland-Broadway	1333 Broadway	Oakland	CA	94612
5. Mahesh, Alex	Denver	999 10th Street	Denver	CO	80202
6. Georgus, Chuck	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
7. Power, John M	Chicago	180 South Wacker Drive	Chicago	IL	60606
8. Kertler, Patricia	Phoenix		Phoenix	AZ	
9. Lopez, Tomas	Oakland-Broadway	1333 Broadway	Oakland	CA	94612
10. Elger, Gabe	Tampa	7600 West Courtney Campbell Causeway	Tampa	FL	33607
11. Cox, Kairy	Dallas	1950 North Stemmons Freeway	Dallas	TX	75207
12. McMaister, Kevin	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
13. Colson, Brian	Phoenix		Phoenix	AZ	
14. Anderson, Seth	Salt Lake City		Salt Lake City	UT	
15. Camm, Gennifer	Virginia Beach		Virginia Beach	VA	
16. Burgess, Amy	Cincinnati	525 Vine Street	Cincinnati	OH	45202
17. Milton, Heather	St. Louis		St. Louis	MO	
18. Smith, Chris	Savannah	7670 Gateway Oaks	Savannah	GA	31403
19. To, Yavut	Houston	18800 Richmond Ave	Houston	TX	77064
20. Ferris, Nicholas	Houston	18800 Richmond Ave	Houston	TX	77064
21. Bachalla, Faith	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
22. Wright, Abigail	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
23. Ganser, Beth	Cincinnati	525 Vine Street	Cincinnati	OH	45202
24. Herlocker, Noah	Portland	131 SW Columbia	Portland	OR	97201
25. Sokol, Jason	San Diego	4225 Executive Square	San Diego	CA	92107
26. Baker, Barry	Fort Washington	333 Commerce Drive	Fort Washington	PA	19384
27. Taylor, Kresh	Austin		Austin	TX	
28. Pearson, Shane	Germentown	8 East Main St	Baltimore	VA	24153
29. Juska, Christopher	Pittsburgh		Pittsburgh	PA	
30. Arumson, Jon	Grand Rapids	3950 Sparka Drive SE	Grand Rapids	MI	49548
31. Kanta, Kimberly	Denver	715 Rock Point Drive	Denver	CO	81302
32. Willey, Robert	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
33. Zabel, Eric	Germentown	12420 Milestone Center Drive	Germentown	MD	20876
34. Corneau, Donelle	Honolulu	625 Piikoi Street	Honolulu	HI	96814
35. Wimmerford, Jan	Phoenix		Phoenix	AZ	
36. Finke, Tobias	Salt Lake City	756 East Winchester Street	Salt Lake City	UT	84103
37. Jenkins, Ken	Milwaukee	342 North Water Street	Milwaukee	WI	53202
38. Bartholmeier, Dennis	Boston	Franklin Street	Boston	MA	

# Esri Maps for Office

## Impervious Surface Workflow Revisited



\*Requires an ArcGIS LogIn and Esri Maps for Office to work\*

# Software Benefits

- Spatial Component in all data
- Collaboration
  - Client and Customer focus
- Customization
  - Expand on Out-of-the-Box capabilities
  - ArcGIS Portal API
  - ArcGIS Server
- Real-Time
- One Map – Multiple Platforms
  - Desktop
  - Mobile
  - Online



# Discussion/Questions

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