

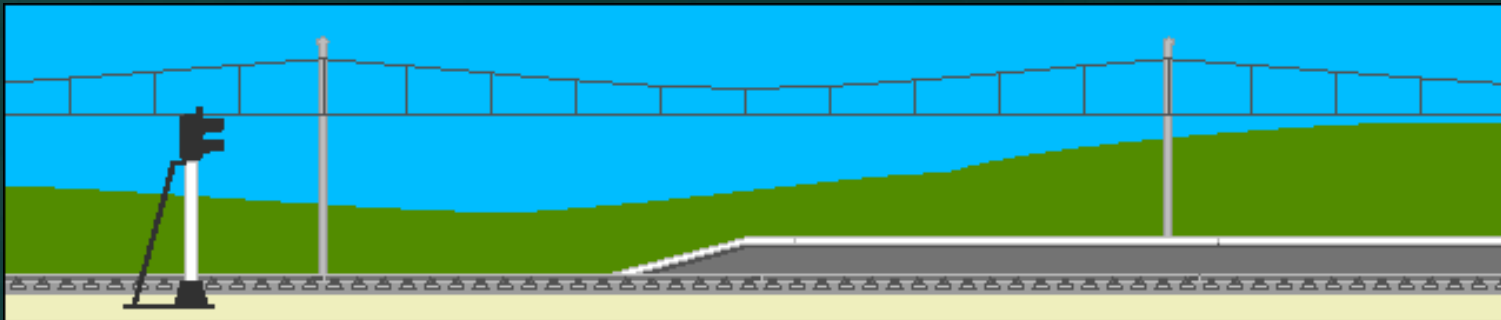
Hopping On the RIA Train to Solon with Flex

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The logo for GUONO, featuring the word "GUONO" in a bold, sans-serif font. The letters are dark and appear to be set against a light, textured background that resembles a stone or concrete surface. The logo is centered within a white rectangular border.

Trains & Trends

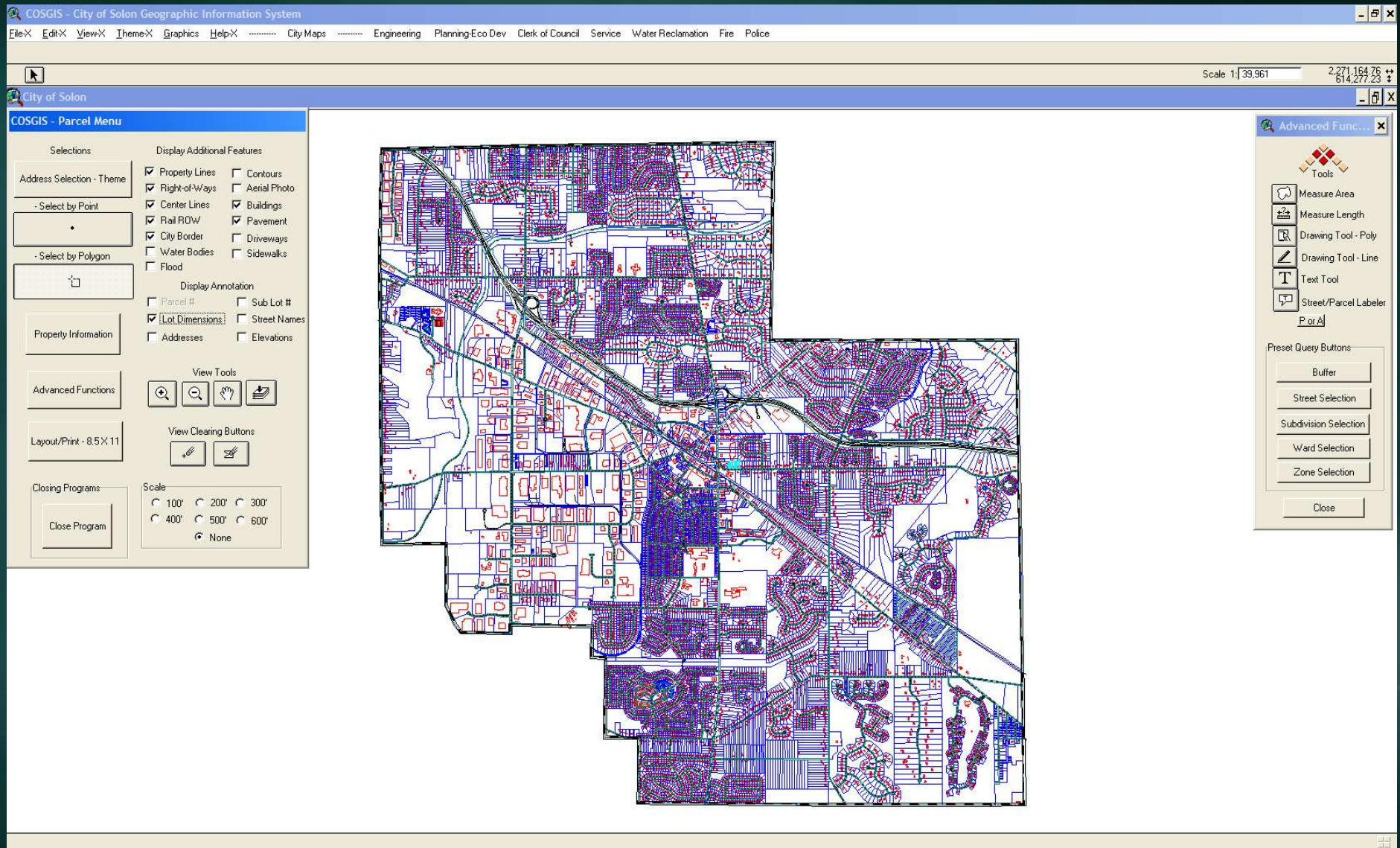
- Trends in technology are like passing trains...If you miss one another will be along shortly



Solon GIS History

- GIS discussion began as early as 1988
- Early efforts mostly from Engineering & Planning Departments
- Engineering applications had priority so the terms GIS & CAD became intermixed
- CAD software, such as MicroStation were used for early mapping
- Around 1998-1999 GIS began in true form with the hiring of a GIS specialist and purchase of ArcInfo/ArcView software from ESRI

Enter COSGIS (City of Solon GIS)





- ### Map Layers
- ☐ Property Information
 - ☒ Address Labels
 - ☒ Addresses
 - ☐ Buildings
 - ☐ Commercial Buildings
 - ☐ City Property
 - ☐ Lot Dimensions
 - ☒ Parcels
 - ☐ Subdivisions
 - ☐ Community Information
 - ☐ Schools
 - ☒ Parks
 - ☐ Wards
 - ☐ Zoning
 - ☐ Land Use
 - ☐ Transportation
 - ☒ Centerline Labels
 - ☒ Pavement
 - ☐ Route 422
 - ☒ Right of Way
 - ☒ Railroads
 - ☐ Water and Land Information
 - ☒ Lakes
 - ☒ Rivers
 - ☐ Flood Zone
 - ☐ Soils
 - ☐ Contours (2ft)
 - ☐ Fire
 - ☐ Fire Hydrants
 - ☐ Hydrant Flushing
 - ☐ Fire Response Districts
 - ☐ Multi Station Response
 - ☐ Imagery
 - ☐ 2006 Aerials
 - ☒ 2008 Aerials
 - ☐ Glenwillow and Bentleyville
 - ☐ Parcels (Glenwillow)
 - ☐ Bentleyville (Parcels)
 - ☐ Centerline Labels (Bentley)
 - ☐ Centerline Labels (Glen)
 - ☐ Pavement (Bentley)
 - ☐ Pavement (Glen)
 - ☐ Lakes (Bentley)
 - ☐ Lakes (Glen)
 - ☐ Rivers (Bentley)
 - ☐ Rivers (Glen)
- Powered by GeoCortex

RIA

- From Wikipedia: “A **Rich Internet Application (RIA)** is a Web application that has many of the characteristics of desktop application software, typically delivered either by way of a site-specific browser, via a browser plug-in, independent sandboxes, extensive use of Javascript, or virtual machines. Adobe Flash, JavaFX, and Microsoft Silverlight are currently the three most common platforms... Although new Web standards have emerged, they still use the principles behind RIAs.”

ArcGIS Viewer For Flex

- From ESRI:
 - Ready to deploy GIS Web client mapping application for ArcGIS Server built with ArcGIS API for Flex
 - Easily configurable to meet custom business needs and requirements - no programming skills required to deploy.
 - Viewer functionality is defined by widgets - many core widgets are included.
 - New functionality can be created by developing custom widgets using the ArcGIS API for Flex.

The Cloud - Amazon EC2

- After our server in BC went down had to make a choice... Cloud vs Serving “In House”
- Needed to quickly deploy
- Determined ArcGIS for Server on Amazon EC2 was quickest and most cost effective for us
- Also by utilizing an ArcMap license on the Amazon instance it makes site & database administration much easier
- We caught a very early train here... just about the only one on it at first, but happy so far that we did



Solon GIS FlexViewer

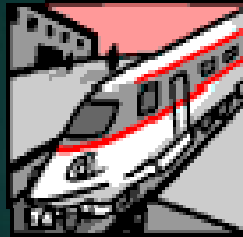
- Found Flex fairly easy to work with...I'm not a programmer (slowly becoming one though – I think?)
- Purchased Adobe Flash Builder to help with the process of customization
- Use mostly default color schemes since it was most popular with city staff and it's easier to keep up with updates to the API
- User community is outstanding...so much code sharing and assistance, especially user forum
- Getting easier to use GIS apps out to city staff really opened up new dialogue with departments in ways the old system did not. Now they are asking questions and getting ideas how to better use GIS



Technology Train Keeps Rolling

- Some Things to Be Aware of:

- Microsoft announced it is phasing out support of plug-ins in next version of IE (IE10 Metro)...including Silverlight
- HTML 5 train rolling up (guess we'll have to change trains...well sort of)



- Flash can still be used, but needs to be packaged with something like Adobe Air. This approach already used for iOS device compatibility
 - From CNET: "...for situations when developers can't count on Flash being installed, Adobe lets them build it directly into the app."
- Flash 11 & Air 3 available Now with accelerated 2D/3D graphics
 - Flash not going anywhere anytime soon, just browser plug-in support. Must adapt.

Demo



Solon Public GIS Website

<http://gis.solonohio.org/solonflexviewer>

Or

<http://solonohio.org>

(Click Solon GIS Mapping Link)



Thank You

Questions?

