

Viewing GIS on the Quick (& Cheap)

- ▶ A little About the Mission
- ▶ City GIS Business Needs
- ▶ GIS Viewer Demo / Considerations
- ▶ Conclusions

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► About the Mission:

- Not about how to build a long term enterprise GIS solution
- About building a functional GIS viewer quickly and inexpensively
- Simple to build – simple to use
- Nothing groundbreaking – just a reminder that sometimes the simplest solution may be the best.

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► About the Mission:

- City of Des Moines: 30,000 Citizens in SW King County
- Fledgling GIS department (me) and Jason part time with decent datasets (parcels, zoning, utility, environmental, orthos, etc.).
- Multiple Departments beginning to consume GIS data, pricey 3rd party GIS viewer with limitations.
- Old way of business: Need a map or Geographic information? See Steve or Jason
- **BOTTLENECK!**

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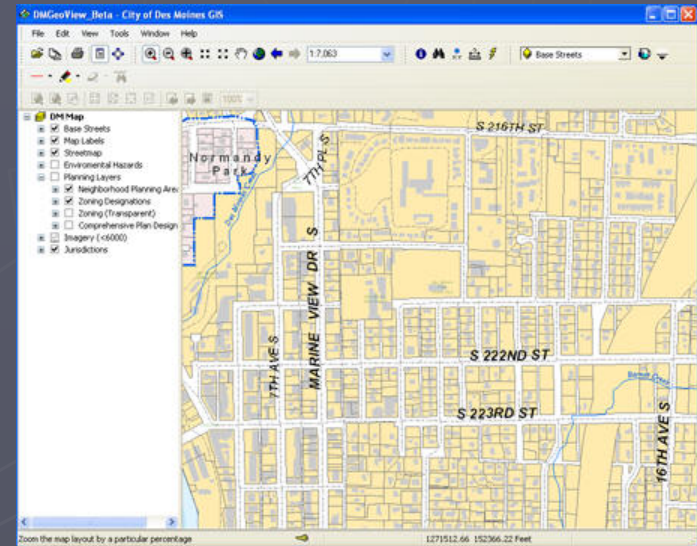
► City GIS Business Needs:

- Primarily used by Planning, Code Enforcement, and Building Divisions
 - Simple Interface to facilitate usability
- Accurate and reliable property attributes
 - Zone Classifications, Comprehensive Plan Designations
 - Critical Areas, Property Lines, Orthophotos
 - Locate by address or parcel number linked to County Assessor
 - Timely Updates
- Need to understand spatial relationships
 - Between existing and proposed land uses or structures
 - Verification of site plans

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► Quick Solution:

- Create a map viewer using the ArcGIS Publisher Extension
- Staff to use the FREE ArcReader client
- Doesn't require tons of processing power
- Can be published to CD/Flash Drive for non connected mobile use
- Can display any data types ArcMap can display



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► ArcReader : What Users Can Do With It

- Dynamically zoom/pan around the map
- Turn on and off layers
- Search the GIS layers
- Id and display GIS attributes
- Measure features
- Create markups on the Display
- Print
- Display King County Assessor Property Information

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► ArcReader: What Users Can't Do With It

- Create/adjust map symbology
- Save a map (other than export)
- Label a map (other than provided labels)
- Perform GIS Analysis
- Edit GIS data

Demo!

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► Considerations:

- Carefully choose and organize layers – Don't make it too confusing
- Set display scales to improve performance
- Set up separate scale dependant labeling layers
- Printing: Created a layout frame for formatted printing
- Rasters: .Sid format views great; doesn't export well
- Consider space when packaging. Usually only one high resolution raster layer will fit on CD.
- Set up a link field to link to other web sources if available.

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► Conclusions:

- Sometimes just a simple and cheap solution will work in short term
- ArcGIS Publisher provides functionality to publish maps
- City Staff can view data themselves
- Buys time while developing longer term GIS consumption solution

**Thank You – Enjoy the Rest
of the Conference!**