Migrating from ArcIMS to ArcGIS Server – Atlanta Regional Commission, Atlanta, GA



Brock Kingston – Latitude Geographics

Agenda

- GIS at ARC
- ARC's initial foray into web-GIS (ArcIMS)
 - Successes & Challenges
- Next generation web-GIS: Needs
- The Solution: ArcGIS Server and Geocortex Essentials
- Development and Deployment
- Lessons Learned and Conclusions

The Atlanta Regional
Commission (ARC) is the
regional planning and
intergovernmental coordination
agency for the 18-county
metropolitan area. For 60 years,
ARC has helped to focus the
region's leadership, attention and
resources on key issues of
regional consequence.

Areas of focus:

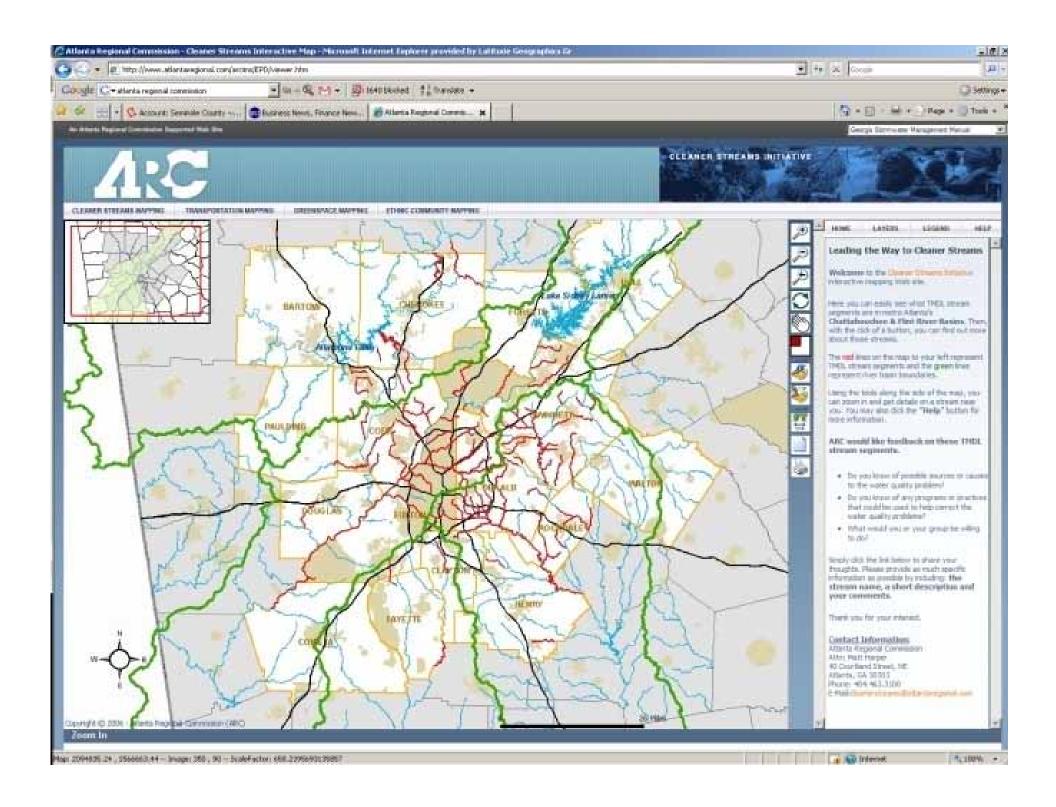


GIS at the ARC

- Status of GIS at ARC → 6-7 power users, several other desktop users, 30 regular users, plus additional ad-hoc users.
- Public facing ArcIMS sites that provide spatial information for the various focus areas.
- An early implementer of ArcIMS and have developed a lot of tools and functions for their IMS site over the years



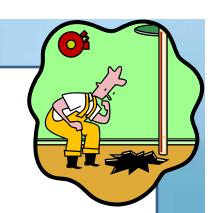




ARC's Past to Present web-GIS

- Early experimentation with ArcIMS
 - Several internal test sites
 - Custom development using internal resource (developer)
 - Encountered performance issues
- Looking forward ...
 - Business is driving new functional requirements not available in ArcIMS, but need to retain existing functionality





- Web-GIS was at a standstill / learn more about ArcIMS / struggle to maintain / do small changes / nothing bigger
- Struggle to keep web-GIS sites afloat
- Huge vacuum of missing knowledge / needed to fill and build capacity to avoid this in the future / by bringing more people on

Next generation web-GIS: Needs

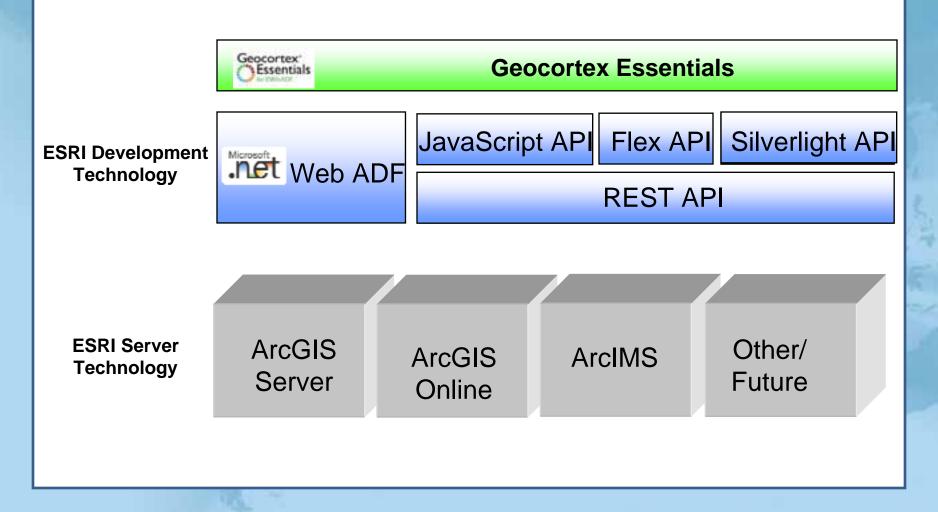
- All of the core functions of the existing custom ArcIMS approach
- Ease of development and maintenance
- "COTS Product" approach to deployment (vs. custom development)
- Capability for feature enhancements outside the scope of capability of ArcIMS as a mapserver

Solution: ArcGIS Server and Geocortex Essentials

Moving Forward ...

- ✓ Dual, steep learning curve with a new solution: ArcGIS Server + Geocortex Essentials (large technical jump with new technology)
- ✓ Currently upgrading technology, most custom tools replaced with out-of-the-box tools

ArcGIS Server and Geocortex Essentials

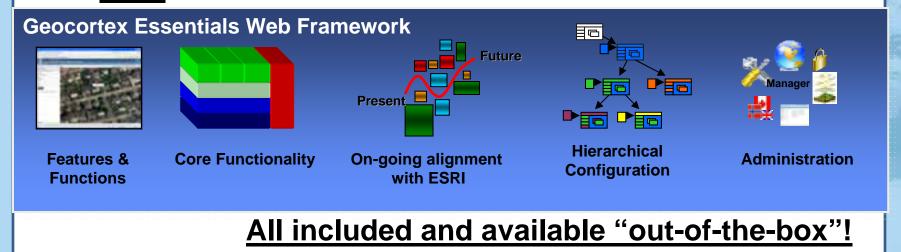


Custom vs. "COTS/Middleware" ArcGIS Server development?

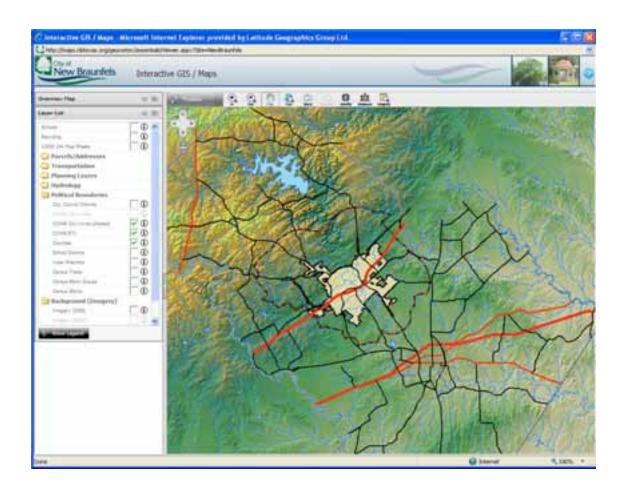
The default ESRI WebADF Viewer only includes:



- Basic zoom in/out, pan, identify, and measure tools
- Geocortex Essentials includes all of the above . .plus:



1. Web Mapping Viewer – Out of the Box Tools

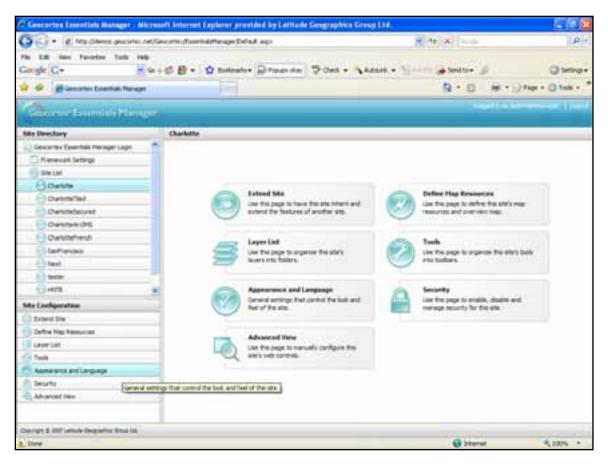


2. Core Functionality

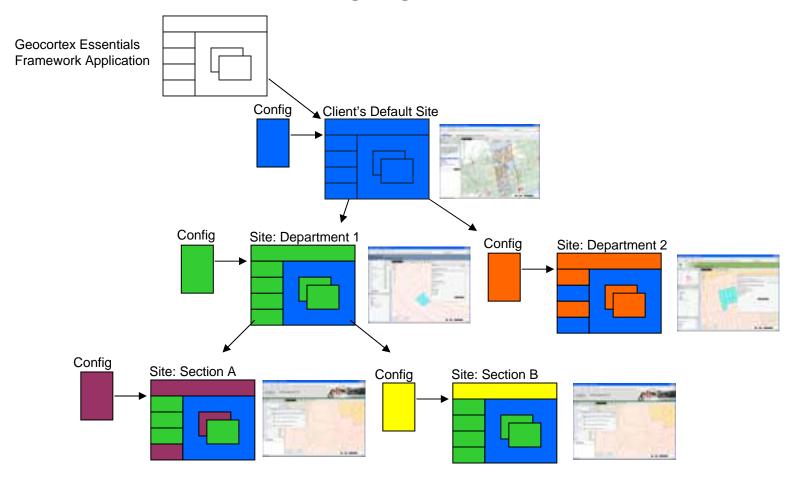
- ✓ Data Linking
- ✓ Printing
- ✓ Reporting
- ✓ Search & Query ...



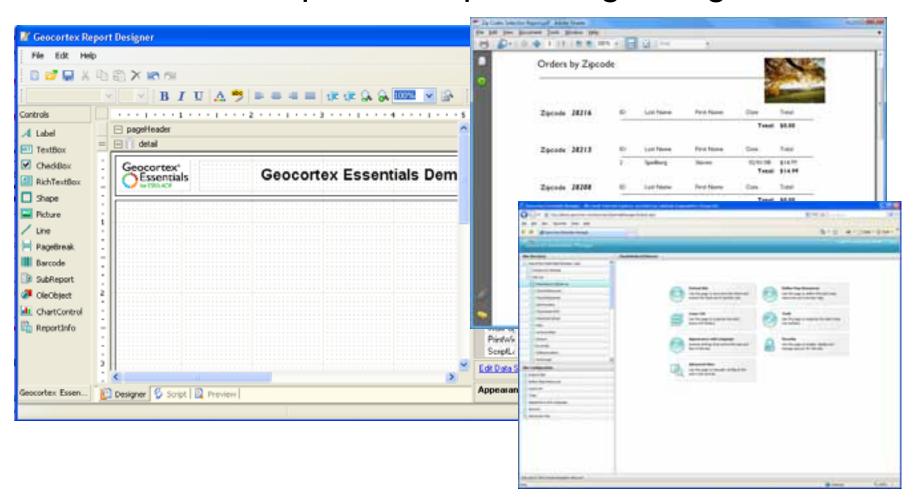
3. Management Tool - Web based



4. Framework for Managing Enterprise Applications



5. WYSIWIG Report & Map Printing Designer



Development & Deployment

 Remote development provided by Latitude Geographics

Multiple iterations

 Stakeholder feedback incorporated into alpha and beta revisions Next generation system ... a sneak peak at what's to come!

Lessons Learned

- With new technologies; expect some bumps
- Set your expectations reasonably
- Plan / approach it logically, a phased approach allows you to release functionality sooner
- Out-of-the-box core business tools allow you to get to market faster and reduce the learning curve!

Conclusions

- Advantages to being an early adopter build more experience and a strong skill base
- Not a 'flip of the switch' from IMS to Server
- Set up an optimal development environment in the beginning
- It's worthwhile to review your approach to GIS!

The Atlanta Regional
Commission is embracing next
generation out-of-the-box webGIS technologies to meet their
core current and future business
requirements!