



What's New in ArcGIS Server

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The ArcGIS Platform

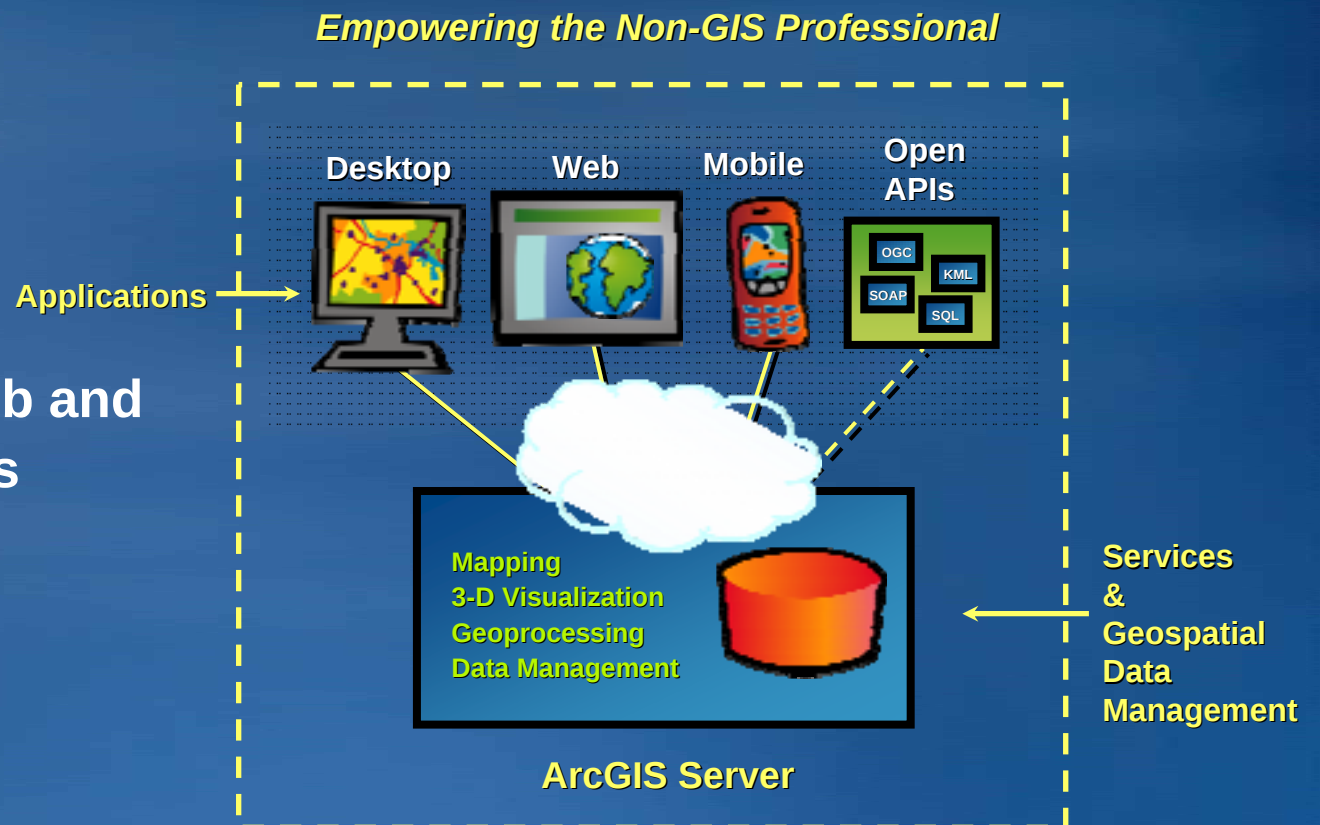


*... For Authoring, Serving
& Using Geographic
Knowledge*

ArcGIS Server

Complete & interoperable Server-Based GIS

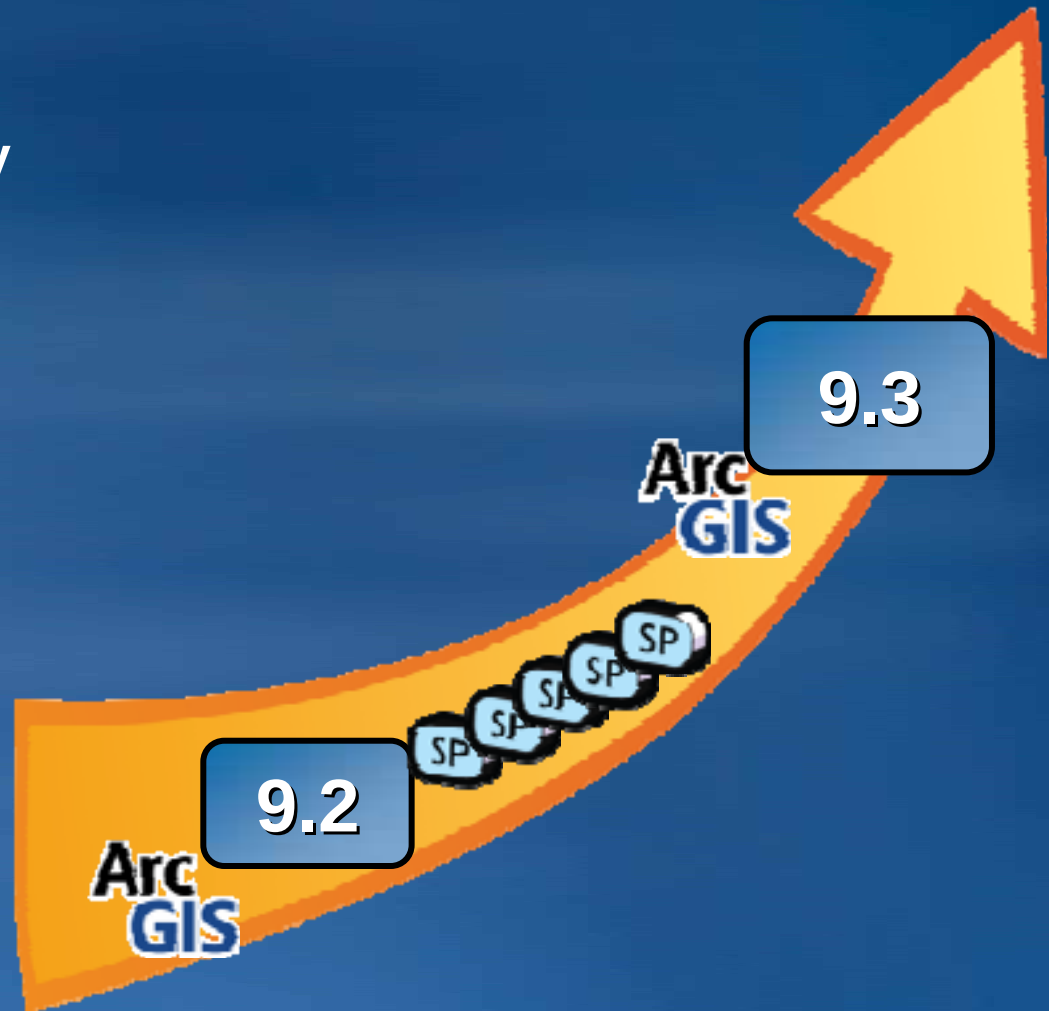
- Enterprise ready
- Open API's
- Support for IT, Web and Industry standards
- Scalable
- High performance



ArcGIS Server 9.3

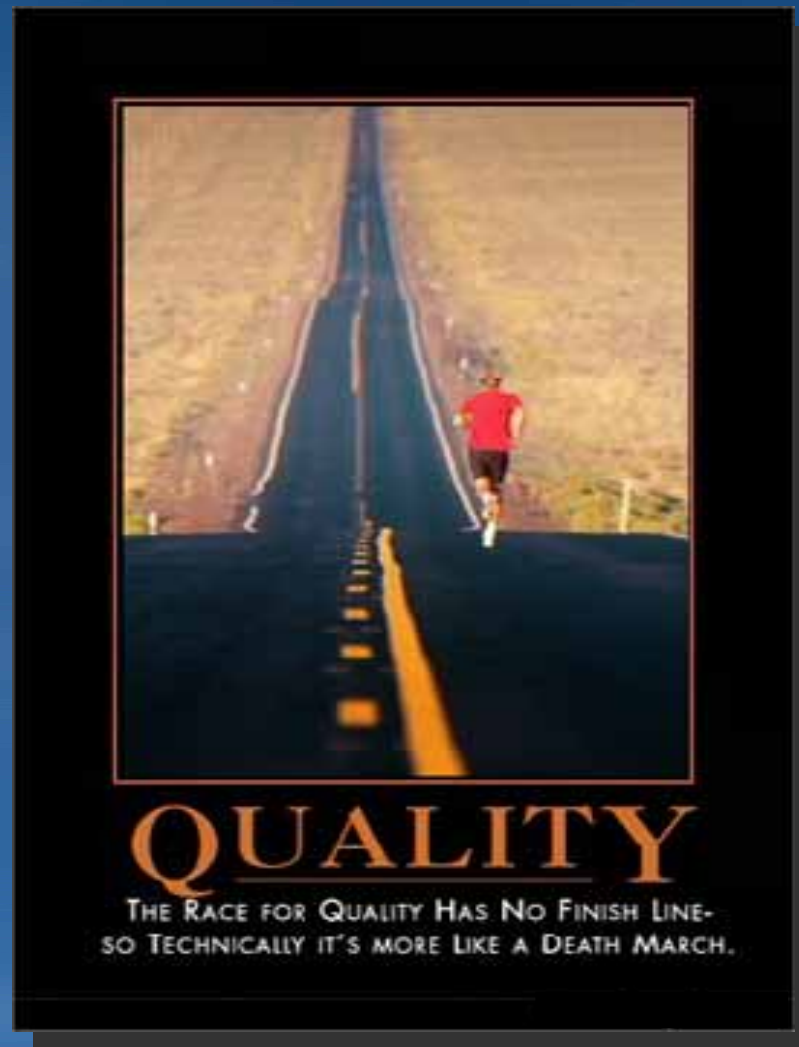
Builds upon the 9.2 platform and extends...

- Performance and Quality
- Usability
- Security
- Functionality
- Interoperability



ArcGIS Server 9.3

Performance and Quality



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Performance and Quality - .NET

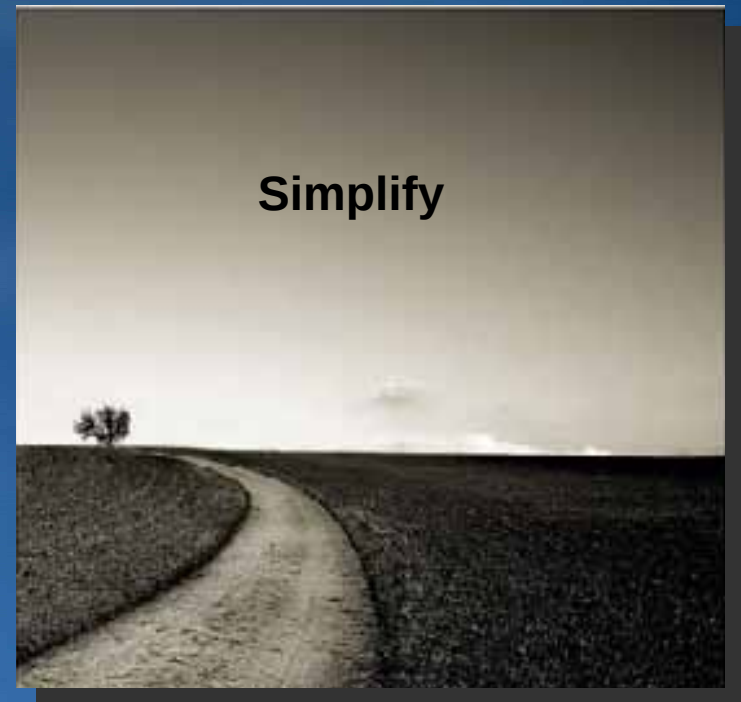
- **Minimize ASP.NET Page Lifecycle**
 - ASP.NET HTTP Handler designed to streamline dynamic map image generation by skipping page lifecycle
- **Improved Client-side Logic**
 - Client-server messages serialized using JSON
 - Minimize AJAX requests to the server by leveraging client-side logic
- **Smarter Animation logic and Activity Indicator**
 - New JavaScript Animation library
 - Integrated progress bar
- **Many more improvements...**



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Usability

- **Web Map Viewer Application**
 - Streamlined Processes
 - Simplified UI
- **ArcGIS Server Manager**
 - “Wizards” for access control
 - Added Cache management
 - ArcGIS Mobile Management Console
 - Automated Migration Utility (Web Mapping Application only)



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Security

- Role Based Access Control
- ArcGIS Server Manager provides an easy to use application/toolset for setting up and managing access to services and web applications.
- Leverage IT standards for users authentication
 - LDAP
 - AD
 - Custom Identity Store
- Token Service



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Functionality

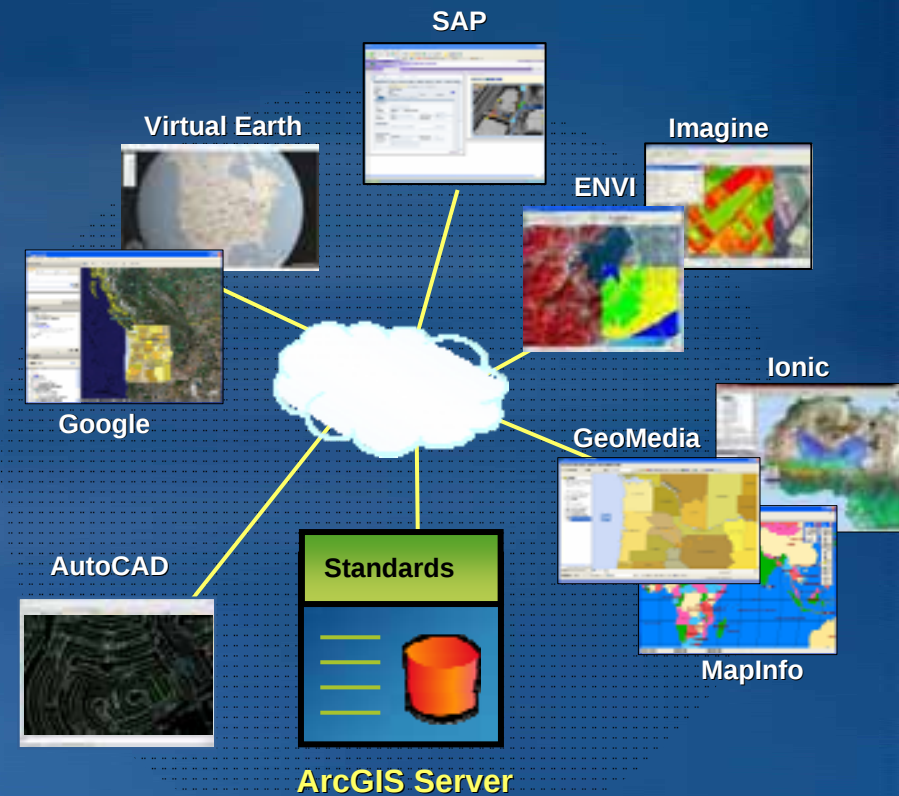
- **New Image Service**
 - optimized for Imagery
 - Supports all raster types (GDB rasters, raster files)
 - Publishes Images as background pictures or as analysis imagery.
- **New ArcGIS Image Server Extension**
 - More advanced image processing capabilities (Dynamic Mosaic, Display processing, etc)
- **New Geometry Service**
- **New Web Map Application Enhancements**
 - Toolbar
 - MapTips and Identify
 - Print Task



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Interoperability - OGC Support

- **Web Mapping Service (WMS)**
 - Styled Layer Descriptors (SLD)
 - Ver. 1.0, 1.1, 1.1.1, 1.3 (ISO 19128)
- **Web Feature Services (WFS)**
 - WFS 1.1 with GML 3.0 Simple Feature Profile
 - WFS-T (Transactional)
 - Ver. 1.1
- **Web Coverage Service (WCS)**
 - Rasters
 - Ver. 1.0, 1.1, 1.1.1



Any Client/Any Application...

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Interoperability: Supporting RIA Development

- **Java and .NET SDKs**

- Web ADFs

- **Web SDKs**

- SOAP API

- REST API

- ArcGIS JavaScript API

- ArcGIS API for Flex

Web Map
Application



Web ADF
(.NET/Java)

JavaScript



Flex



NEW

REST

Web 2.0

SOAP

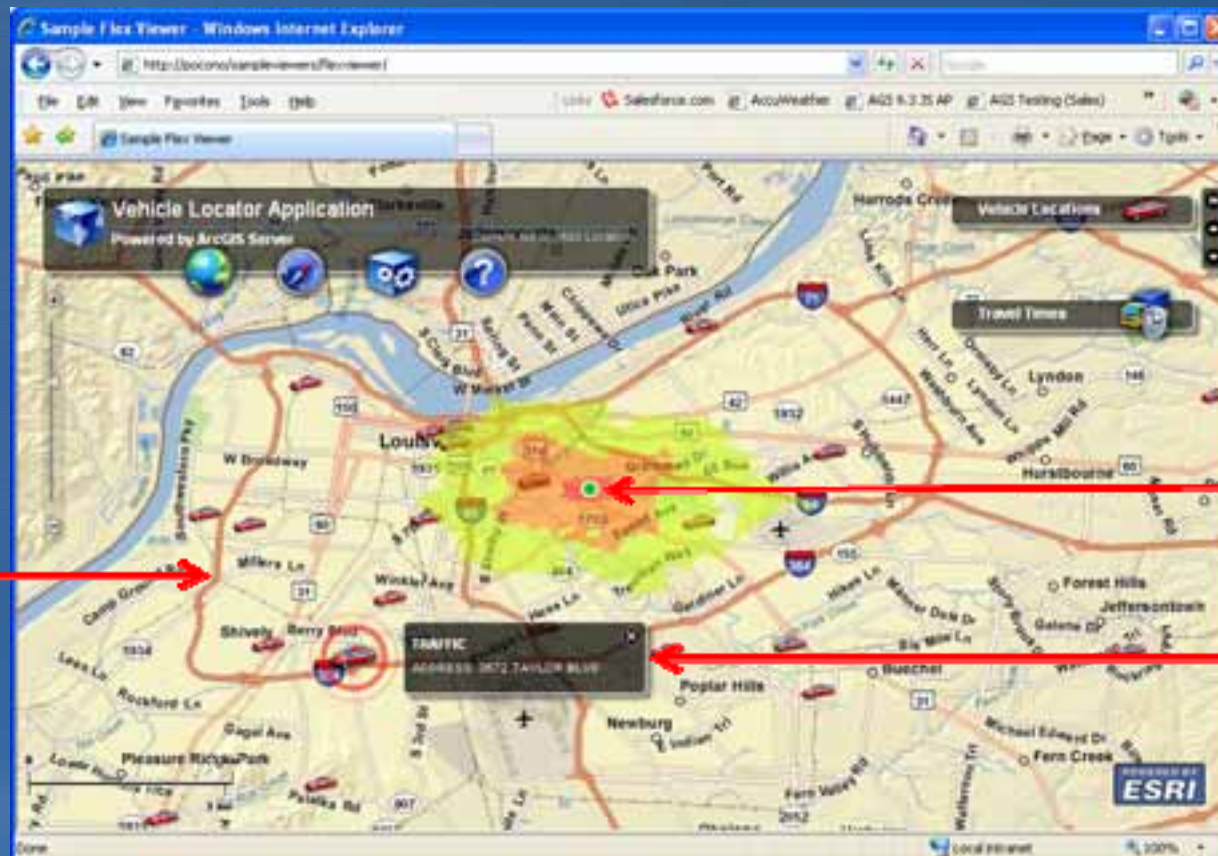


ArcGIS
Server

Best Practices and Patterns

Delivering Web Maps

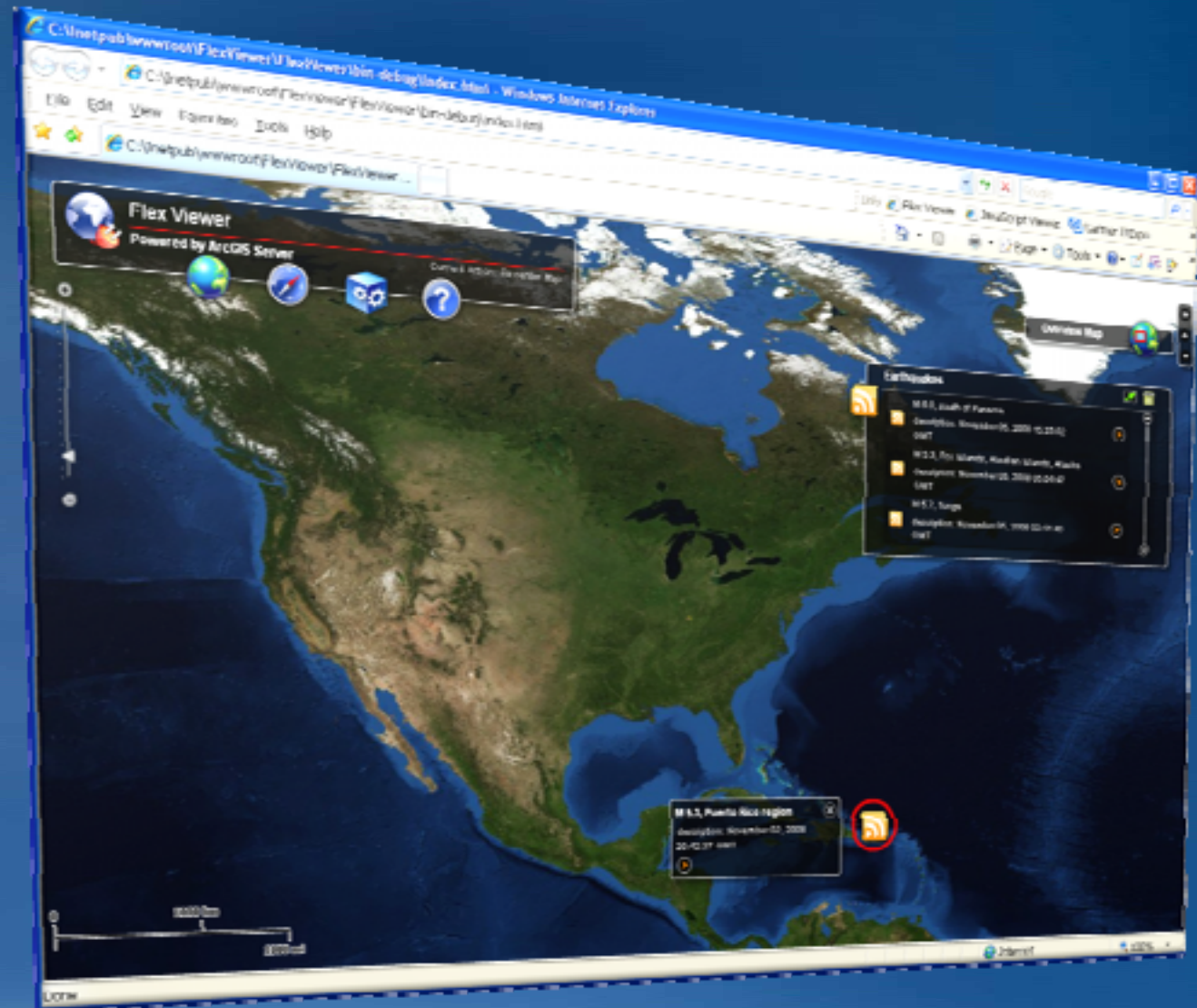
- Cache Maps
 - Pre-Rendered
 - Base Data (e.g. Streets)
- Dynamic Maps
 - Rendered on-the-fly
 - Operational Data (e.g. Vehicle Locations, Calculation Results)



ArcGIS Server 9.3: Sample Viewers

Best Practices Framework for Building Web Apps...

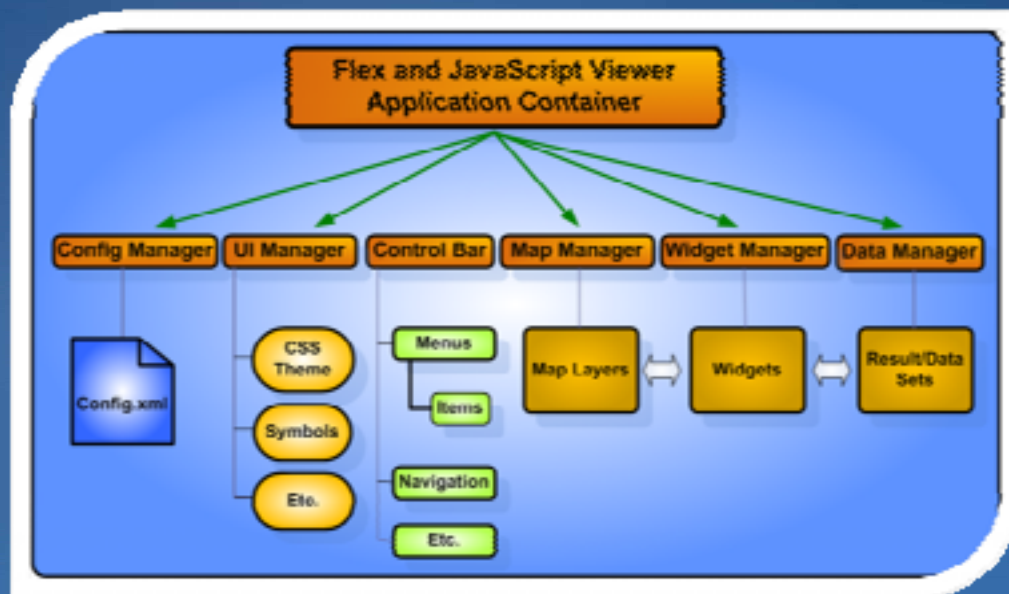
- Simple
- Cross-cutting
- Lean



ArcGIS Server 9.3: Sample Viewers

Architecture

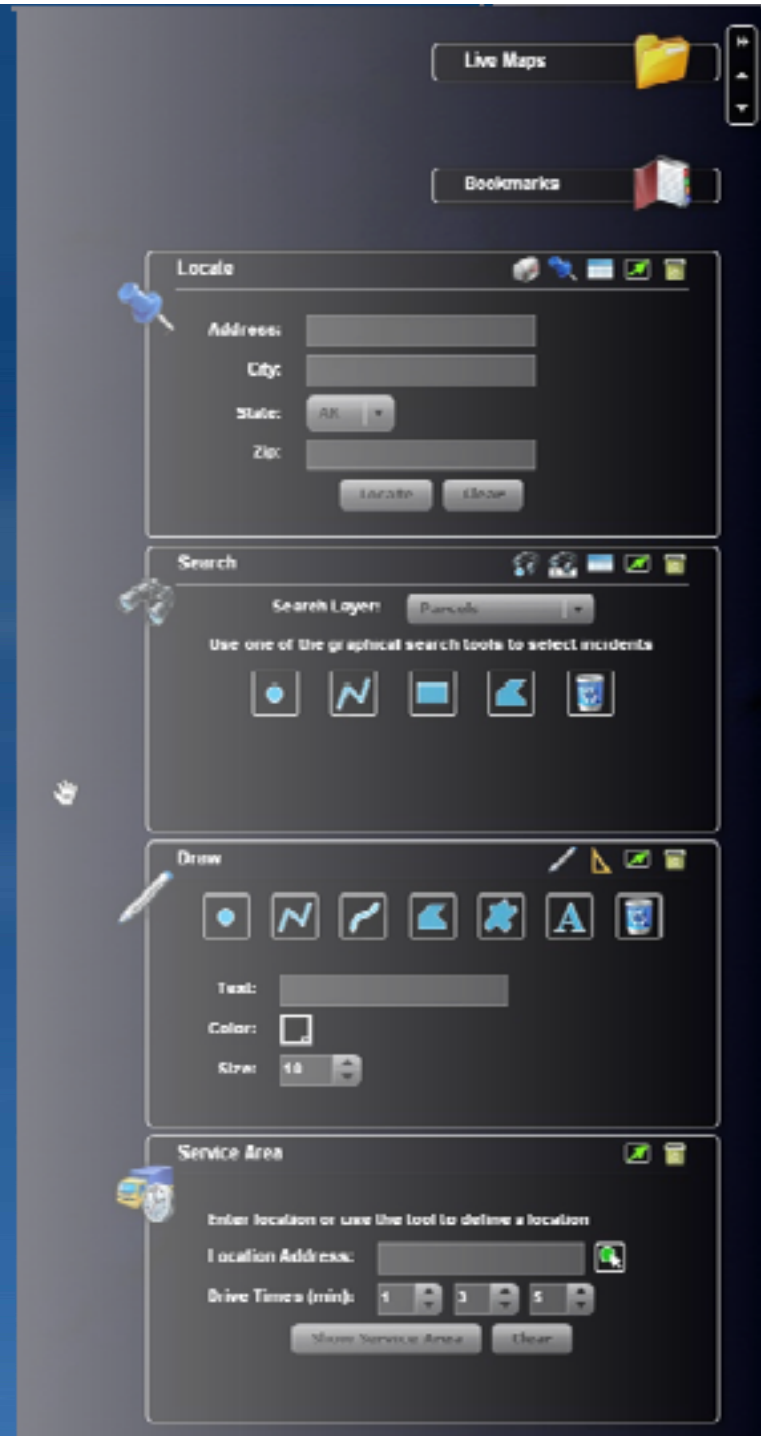
- Modular design
- Easily Configurable
- Customizable
- Leverages Online SDKs



Application Components/Modules

To support a variety of application needs...

- Navigation
- Overview Map
- Live Maps
- Live Layers
- GeoRSS
- Print
- Locate
- Search
- Drawing
- Service Area
- Identify (available separately)
- Charting (available separately)



ArcGIS Server 9.3: Sample Viewer Demonstration



ArcGIS 9.3.1

Improving the ArcGIS Platform

- Improved Web Mapping
- Expanded ArcGIS Online
- Easy Data Sharing
- ArcGIS Explorer 900



Releasing to Users in May



*Installs on Top of 9.3 . . .
. . . no Uninstall Required*

ArcGIS Server, The Road Ahead

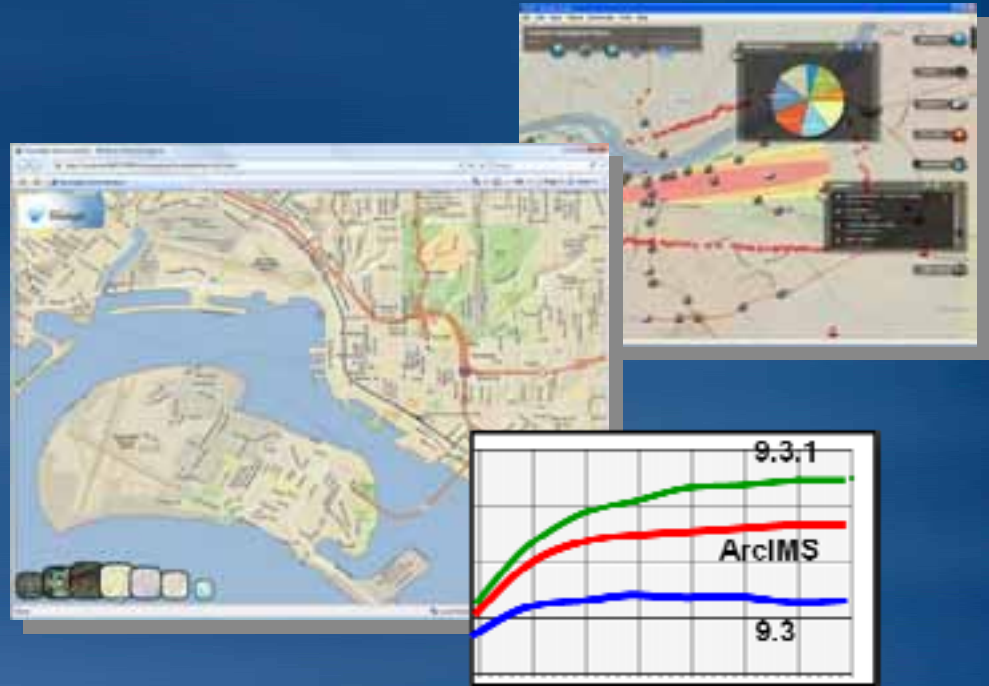
Project by Project

- 2009 – (ArcGIS 9.3.1)
 - Improved Web Mapping (Q1/Q2)
 - Java Extensibility (Q1/Q2)
 - Miscellaneous Enhancements (Q1/Q2)
 - ArcGIS API for Microsoft Silverlight (Q3/Q4)

Improved Web Mapping

Faster, Better, and More Scalable

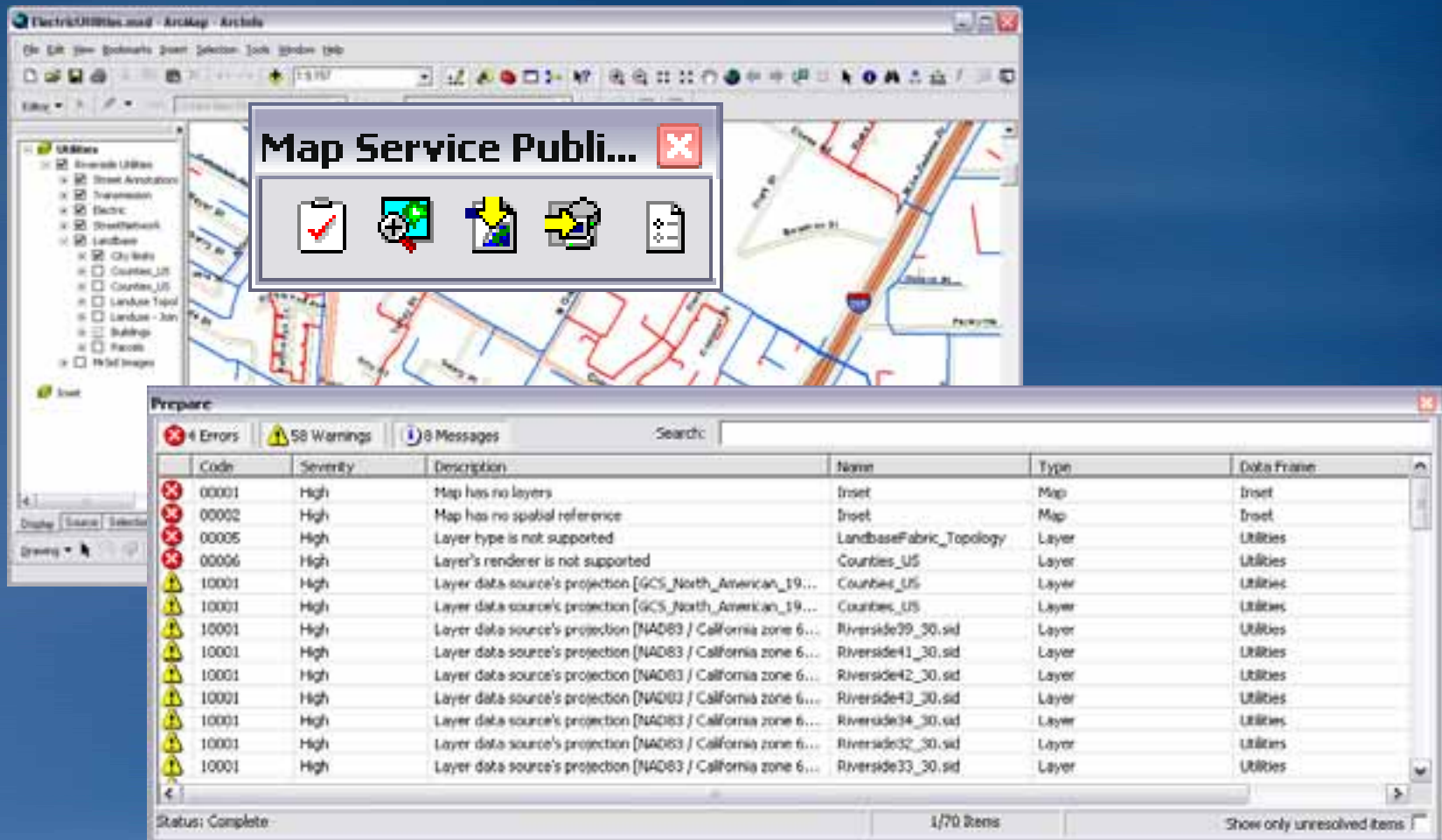
- Optimized Dynamic Maps
- Desktop Optimization Tools



... Easier, Faster and More Scalable than ArcIMS

Map Service Publishing Toolbar

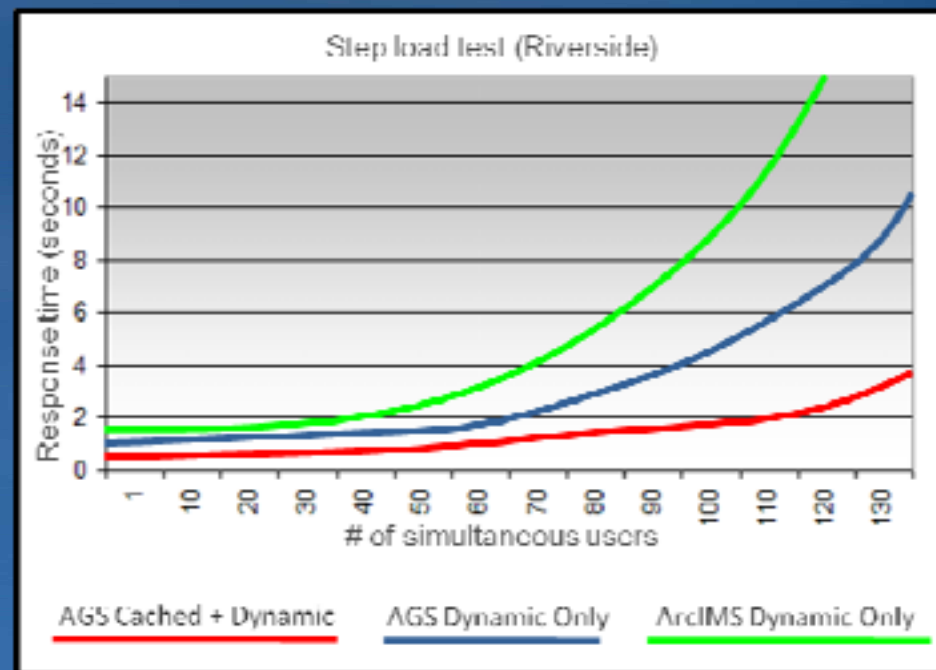
- Analyze and Publish a map directly from ArcMap
 - Preview allows for visual analysis of performance and graphic quality



ArcGIS Server 9.3.1

Optimized Dynamic Map Services

- Fast Rendering Engine
- Benefits:
 - More responsive applications
 - Reduced map caching time

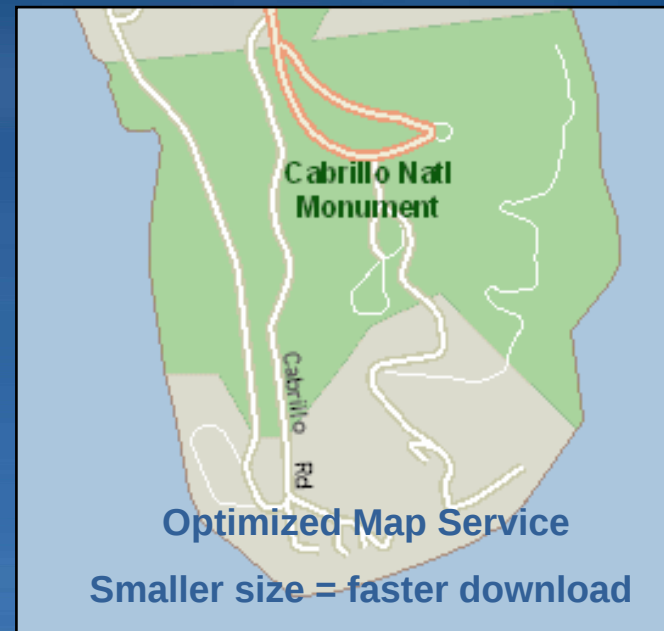
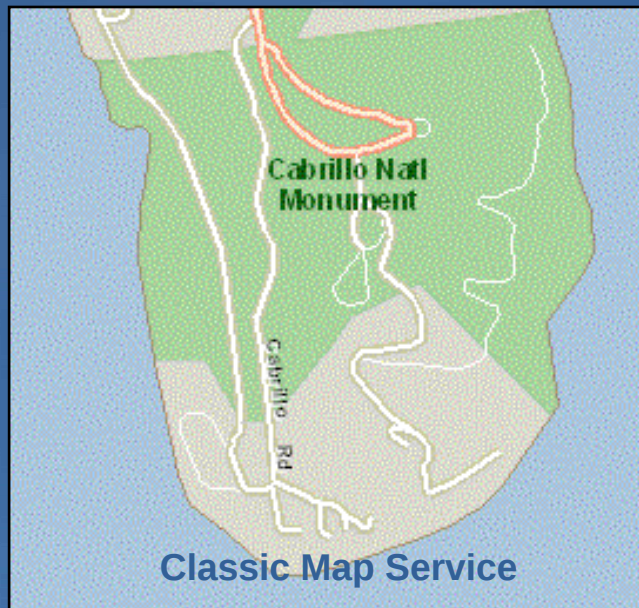


Optimized Map Services do NOT replace Cached Maps...

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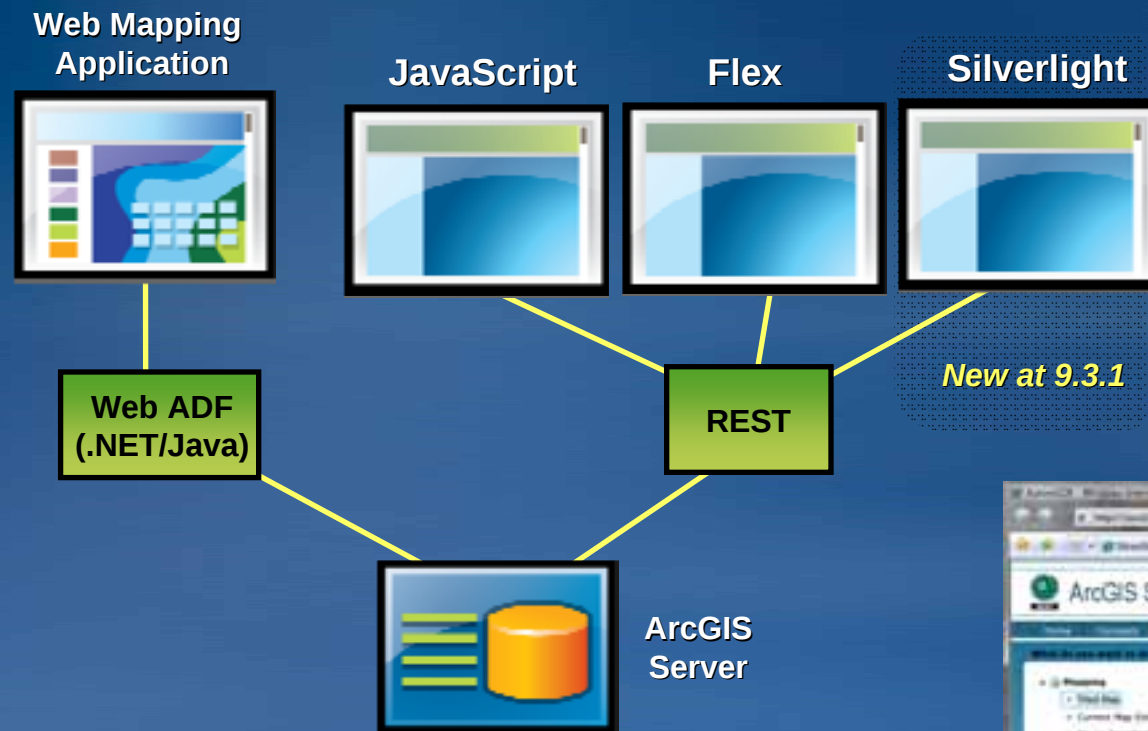
Optimized Dynamic Map Services

- Improved cartographic quality
 - Provides superior map throughput
- Provides superior map throughput
 - Faster maps = Better user experience = More successful GIS
 - Faster maps = Reduced cost of ownership
 - Total cost = maps per hour per dollar
 - More maps with less hardware
 - **Faster than ArcIMS across all supported platforms**



ArcGIS Server 9.3.1

RIA Development with the ArcGIS API for Microsoft Silverlight



ArcGIS Server 9.3.1

ArcGIS API for Microsoft Silverlight

- Now: Early Adopter Program
- ESRI Developer Summit (end of March): Public Beta
- ESRI International User Conference (July): Final Release



ArcGIS Server 9.3.1

Java Extensibility

- Native Java development to:
 - modify the behavior of ArcObjects
 - create your own ArcObjects
 - extend ArcGIS Server
- Examples:
 - Geoprocessing Tools
 - New data sources
 - ArcGIS Server Object Extensions
(e.g. *Custom Driving Directions*)



Questions?

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