

The Geographic Approach for the Nation

ESRI Federal User Conference

Washington, D.C. > February 17-19, 2010



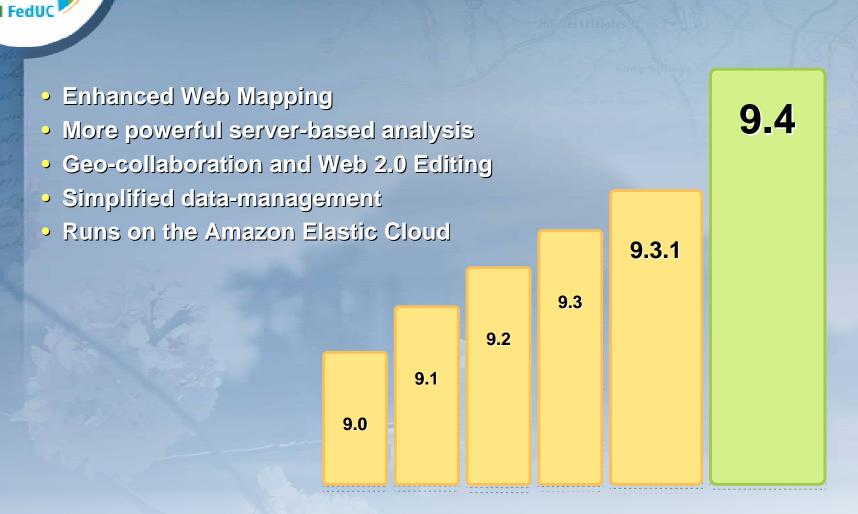
What is coming in ArcGIS Server 10

Ismael Chivite
ArcGlS Server Product Manager
James Cardona
Technical Marketing

ArcGIS Server is a complete server based GIS Delivering GIS with powerful services and applications



10 is the next big step for ArcGIS Server More powerful, faster and easier to maintain

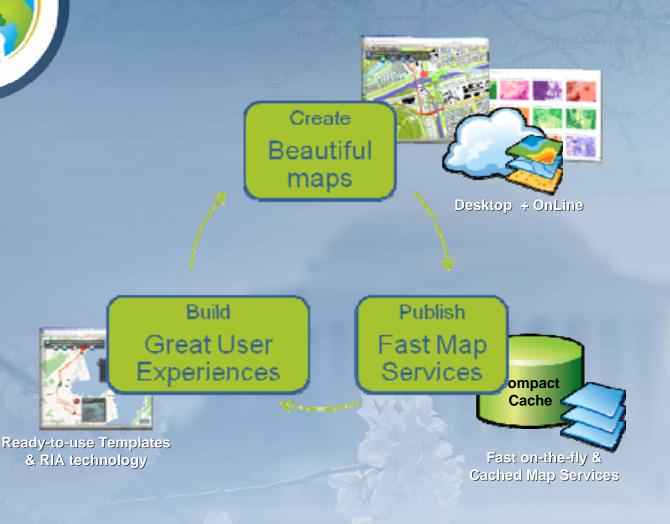


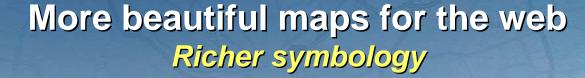


Enhanced Web Mapping

Enhanced Web Mapping

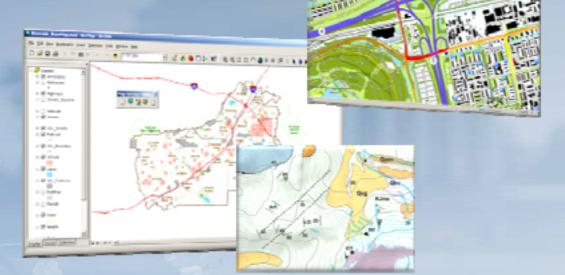
Streamlining workflows and communicating with maps







- Optimized Map Services support for
 - Maplex text placement
 - Cartographic Representations
 - Sharper looking True Type Fonts

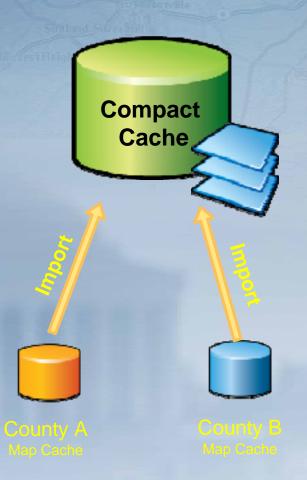


Simplified Cache Map Management

Through the new compact cache format



- Fewer files on disk = easier management
 - Quick to move around and update
 - Builds quicker (sometimes)
 - Great performance
- Enables collaborative caching







Map cache for the State of Louisiana

- Street Map
- Down to 1:4,000 map scale
- Over 1.5M map tiles



	Time to create	Space on disk	Time to move
Exploded	10 hours 50 minutes	1.54Gb	Almost 2 hours
Compact	9 hours 50 minutes	1.2 Gb	6 minutes

Staging environment



Create the map cache

Compact cache = less time

Production environmen



Publish the cache

Compact cache Some numbers (large cache)



- Map cache for Europe
 - Land use map
 - 3.8M map tiles

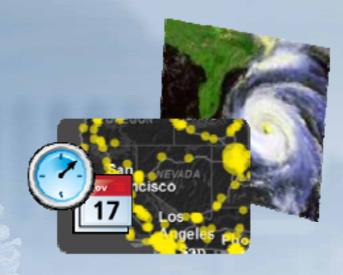


	Time to create	Space on disk	Time to move
Exploded	5 hours 17 minutes	5.02Gb	9 hours 11 minutes
Compact	1 hour 48 minutes	4.71Gb	8 minutes 13 seconds

Map Animations on the Web Made Easy Time Aware Map Services and Applications

- Built in tools for authoring time aware map services
- Ready to use map animation tools





Configurable Web Maps

Creating Web Maps In a Heart Beat



- Configurable web maps for:
 - Map centric web browser map apps
 - Sharepoint sites
 - iPhone
- Industry Templates available



Download

Configure

Deploy

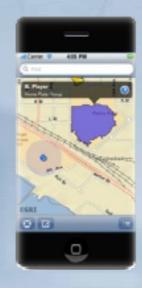
Enhanced ArcGIS Web Mapping APIs

Stronger SDKs for web and iPhone developers



- APIs for JavaScript, Flex and Silverlight:
 - Richer and more samples
- New iPhone SDK
- Enhanced Map Services API
 - Attachments
 - Geodatabase Relationships
 - Enhanced Domain and Subtype support
 - Standalone tables
 - Faster Queries





New iPhone SDK!

Continuously enhanced Map content

Ready to use maps for ArcGIS Server users







Millions of Maps . . .

. . . Being Served Each Day

Demographic & Thematic





.... Directly Integrated Into ArcGIS



More Powerful Server Side Analysis

Stronger environment for analysis

More tools, easier access and faster execution

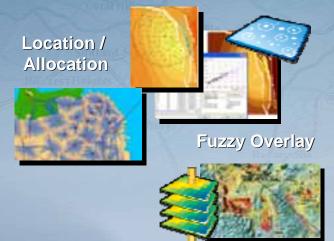


- More than 130 new tools
- More efficient processing
 - Up to 15x faster
- Simplified authoring



PDF Maps on Demand

Ecological Sampling





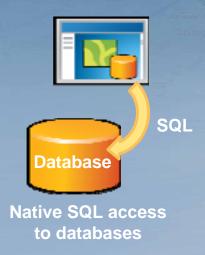
Data Extraction Services (CAD, shapefile, raster formats...)



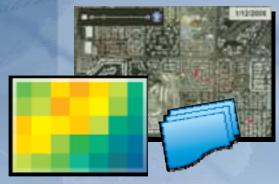
Simplified Data Management

Simplified Data Management

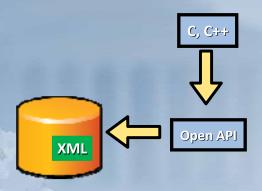












Open File Geodatabase API

New Search Service





- Centralize Search and Indexing of GIS Resources
- Security: Use several Search Services
- For use internally by Desktop users
- Not a Search Service for Web users
- Non spatial search on 'Item Descriptions'
- Very, very fast

Enhanced access to databases





Native SQL access to databases

- SQL based Tables and Feature Layers
- More flexible access to data
 - GroupBy, Joins...
 - No need for ArcSDE tables
- Author in ArcMap, publish to Server
- Will look as simple features
- Read only

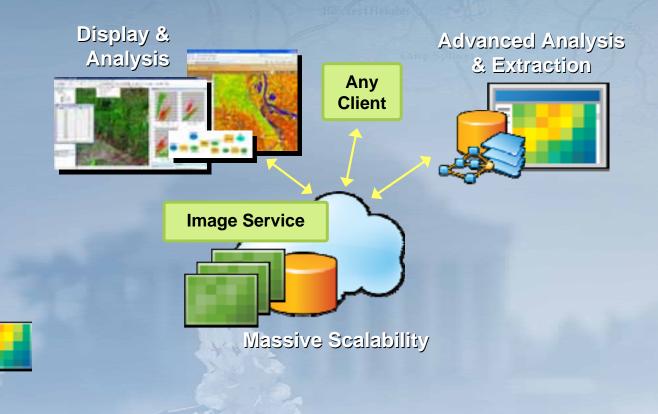
Enhanced Imagery in ArcGIS Server

Through 'Mosaic Datasets'



Dynamic

Processing



Mosaic Datasets combine the best of Raster Catalogs and Raster Mosaics

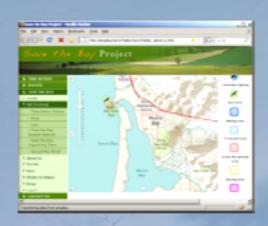


Geocollaboration and Web 2.0 Editing

Editing for all

From Volunteered Geographic Information to sophisticated web editing









Service

- Enabling simple sketching & advanced editing
- Well defined Information Model
- Edit from anywhere (many clients)

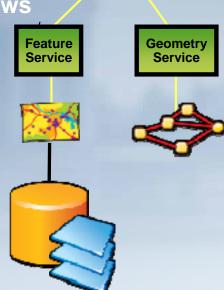
The Geometry and Feature Services

For Geodatabase editing over the internet



ArcGIS
Web Mapping API's

- New Feature Service
 - For quick Geodatabase edits
 - Last in wins (stateless service)
 - Editing based on predefined templates
- Enhanced Geometry Service
 - Geometry manipulation to support edit workflows
 - Union, Reshape, Extend/Trim...
- Client-side Feature Layers

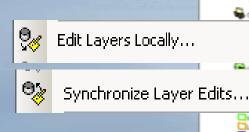


Feature Editing Service for Desktop users

Streamlined replication user experience



- For quick Check-in/Check-out over the web
 - & data replication workflows





Enterprise Geodatabase



Check-in/Check-out
Geodatabase Replication



ArcGIS Desktop

Editing from the field

Supporting partially connected and fully connected editing

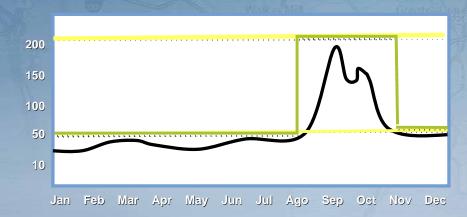




Runs on Amazon

Deploying ArcGIS Server In the Amazon Elastic Computing Cloud





- Quick deployment and provisioning
- Leverages elastic computing and other Amazon services
- Three AMIs:
 - ArcGIS Server Enterprise Advanced (Windows .Net)
 - ArcGIS Server Enterprise Advanced + Image Extension
 - ArcGIS Enterprise Geodatabase



Summary

10 is the next big step for ArcGIS Server More powerful, faster and easier to maintain

