

## Agenda

- History
- Business Requirements
- Eclipse Maps
  - Eclipse Maps Website
  - Eclipse Map Viewer
  - Eclipse Map Apps
- Eclipse GeoPortal
- Architecture Overview
- Demo
- Q&A



## History

Create a one-stop gis website where users can find maps, spatial data and other gis related resources.

User can collaborate by posting blogs or post questions or comments via discussion forums.

Easy to customize (code available) and full control over deployment, versioning, entitlement, Windows AD authentication.

Support for web based ArcGIS server web maps.



## **GeoPortal v1.0 Original Requirements**

- One place for maps and data distribution
- Easy to find through search or browsing.
- Region centric hierarchy
  - Region
    - Maps
      - Map formats (Arc, Google, PDF)
    - Data
      - Categories (Cultural, Geological, etc.)
- Collaboration Tools
  - -Blogs
  - Forums
  - Helpdesk
- Web based maps



## GeoPortal v1.0 - DNN

- GeoPortal Website Using DotNetNuke 4.0
- Modules used:
  - Documents Module
  - Discussion Forums
  - Blogs
  - Text/Html Module
  - -Links Module
- Own sub-domain: <a href="http://gis.apachecorp.com">http://gis.apachecorp.com</a>
- Web Maps using Web ADF Web Mapping Applications



## GeoPortal v1.0 (DNN)





## **Map Viewer New Requirements**

- Lesson Learned
  - Web ADF maps are slow
  - Prior to 9.3.1 ADF Runtime licensing was required (full cost)
  - Upgrades always painful (tools and web maps migration)
  - Integration with other web apps is cumbersome
  - User interface is strict (tools, tasks, etc.)
- New Web Map Viewer Requirements
  - Fast, simple and intuitive we based map viewer targeting non GIS users
  - Easy to deploy to users internally (no installation required).
  - Easy integration with existing MS-Sharepoint team sites and other inhouse web applications
  - Extensible to support different department workflows
  - Easy to share maps with other users



## Eclipse Enterprise GIS ECLIPSE MAPS



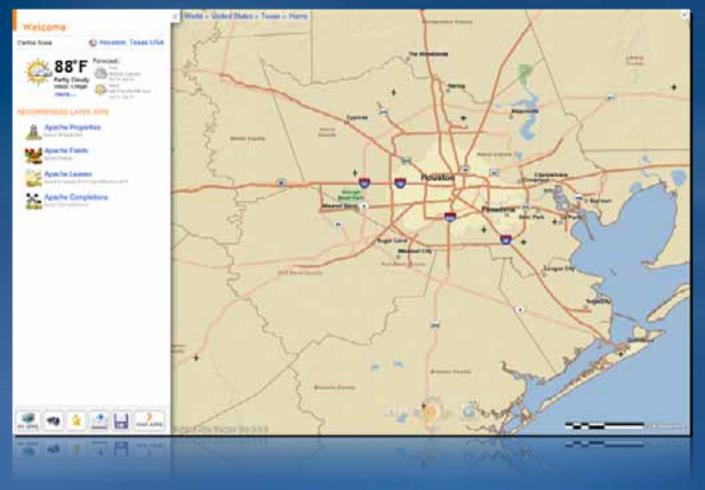


## Why Silverlight?

- Web ADF is object rich but slow and complex and requires licensing to deploy\*
- Javascript API is light, free but challenging to deploy because browser compatibility issues
- Flex API is light, free and stable technology but need to learn a new language platform
- Silverlight API is light, free and uses .NET language
  - Challenges
    - Silverlight plug-in was not part of corporate image
    - Silverlight does not support native html rendering
    - Not enough tools built yet (legend, printing, etc.)



## **Eclipse Map Viewer**



#### Map Features

- Navigation links
- Overview Map
- Version Label
- Navigation Control
  - Navigation Rose
  - •Zoom In/Out Buttons
  - •Use Mouse scroll wheel
- Base Map Settings
  - •Base Map
  - Base Layers
- •Scalebar



## Map Tools

#### Welcome



#### **Find Tool**



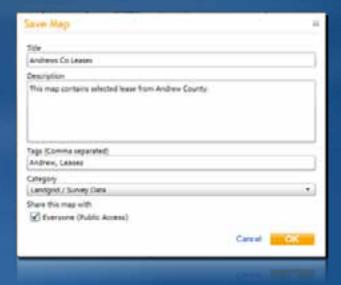
#### **Bookmarks**



#### **Share Map**



#### **Save Map**





## **Eclipse Map Apps**

- Add functionality and data to eclipse maps (encapsulated)
- Customizable to department workflows
- Reads data into variety of formats
- Available map apps:
  - ArcGIS Services Map Services
  - Eclipse Markers
  - Eclipse GeoTag Pictures
  - Dynamic Bubble Maps
  - GeoRss feeds
  - Satellite Imagery Browser
  - IHS Reporting Tool





## **Eclipse Maps Website**





## **Eclipse – IPhone Analogy**



#### **ITunes**

Distribution of content such as music, podcasts, apps, e-books, etc.



#### **Eclipse Maps Website**

Distribution of content; maps and map apps.



#### **IPhone Apps**

Applications for IPhones and other devices.



#### **Eclipse Map Apps**

Map Apps for Eclipse Map Viewer.



#### **IPhone**

Device where applications are installed



#### **Eclipse Map Viewer**

Device (Browser/Map Viewer) where map apps are installed.



## **Eclipse Integration – Embedding Map Viewer**

#### **Scout Application**



Well Portal



# Eclipse Enterprise GIS ECLIPSE GEOPORTAL





## **GeoPortal New Requirements**

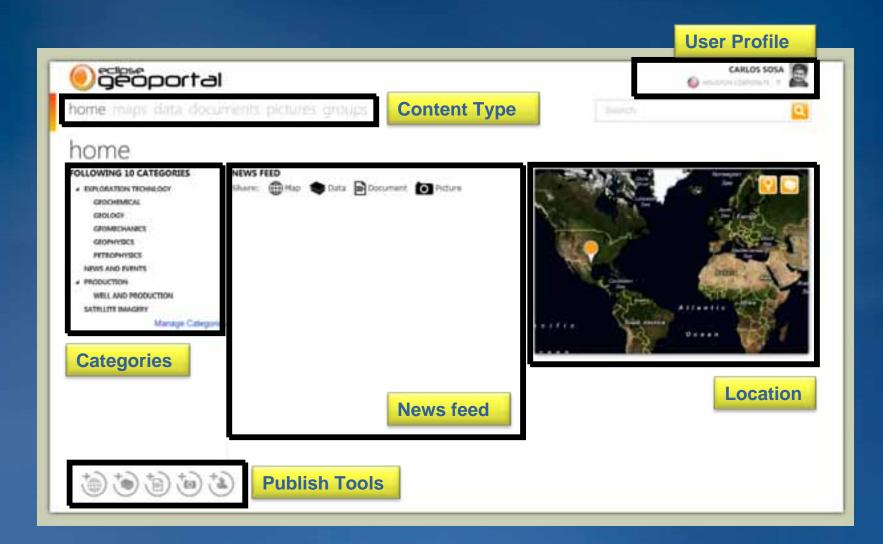
- Existing GeoPortal Limitations (DNN)
  - Publishing and search capabilities are marginal
  - No support for metadata or geotags reading
  - Multiple document publishing is cumbersome
  - Content must be organized hierarchically (pages, modules)
  - User Views/Hits reporting is based on pages

### Lessons Learned

- Regions are changing rapidly
- Regional pages are often confused with geographic location of resources.
- Users don't use collaboration tools (blogs, forums)
- Most users know location and content type
- Users are adopting social media type of features
- User want to show their content in a map

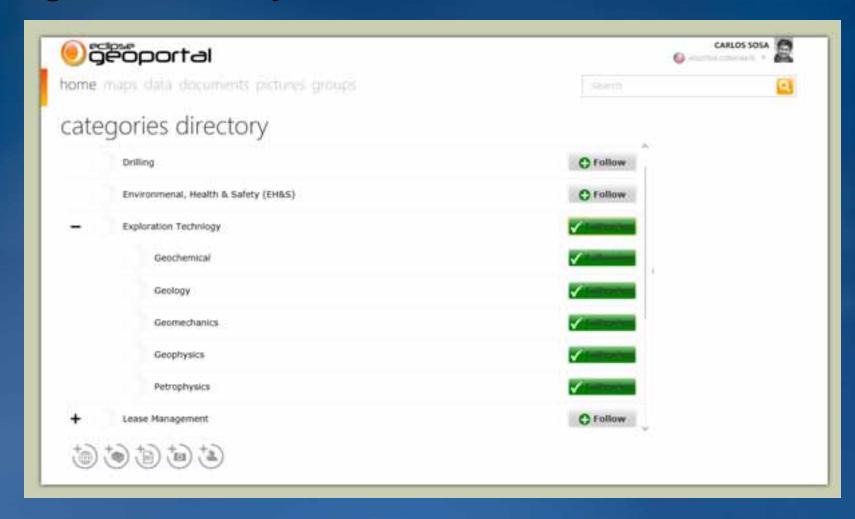


## **Home Page**





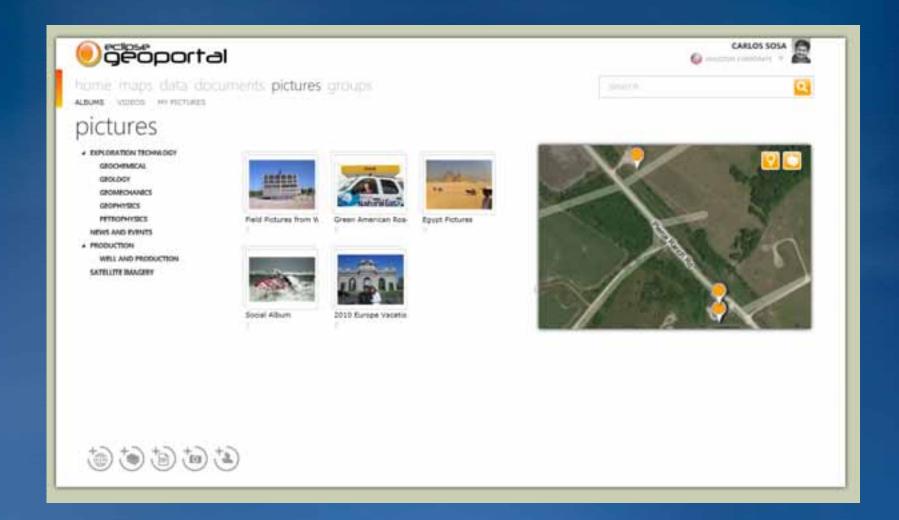
## **Categories Directory**



Twitter style subscription allows users to "follow" specific categories of interest to get news feed of all content updates and social media elements (comments, likes, rates, etc.).

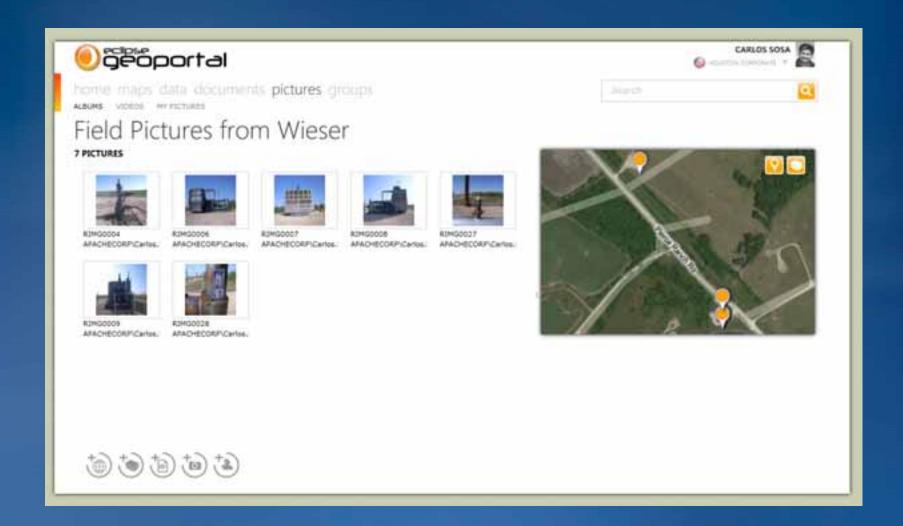


## Pictures – Albums View



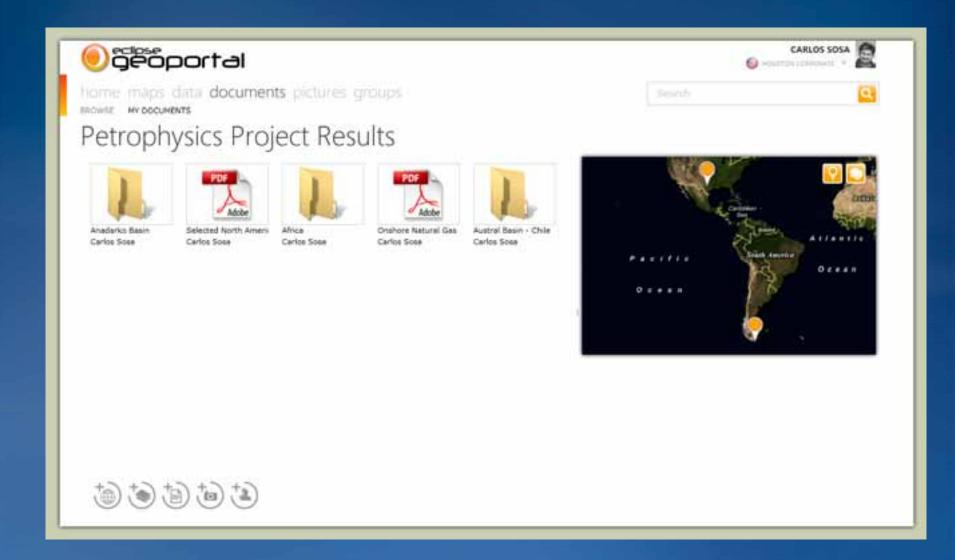


## **Pictures – Items View**





## **Documents – Collection View**



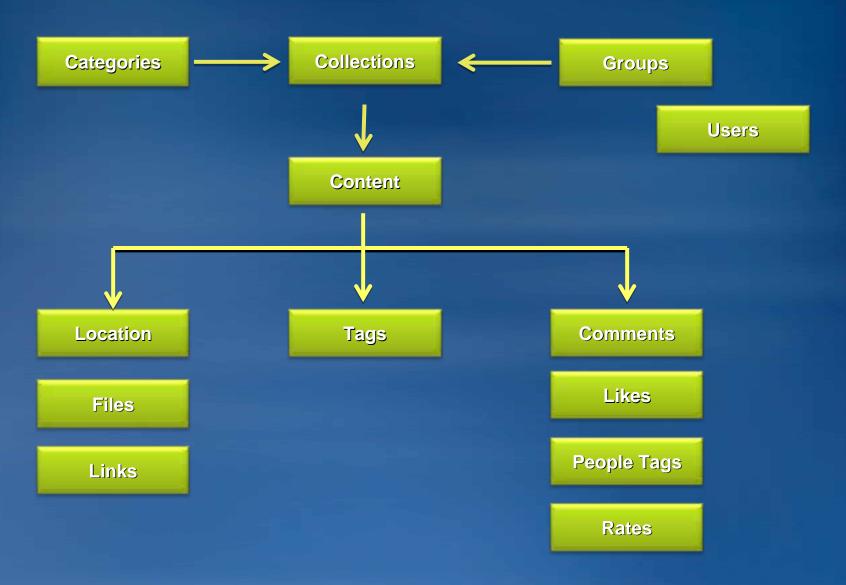


## **Documents – Item Details**





## **Architecture Overview**





### **GeoPortal Features**

- Categories supports sub-categories
- Collections supports one type of content and relates to one category only
- Supported Content Sources
  - Files on My Computer (Uploading)
  - Files and folders in network (Sharing)
  - Any content in Sharepoint Team Sites (Sharing)
- Supported Content Type (Configurable)
  - Maps: mxds, mxts, kml, kmz and pdfs
  - Data: lyrs, shapes, zip
  - Documents: Word, Excel, PowerPoint, PDFs, etc.
  - Pictures: JPG, PNGs, GeoTagged JPGs
  - Other: Sharepoint Announcements and links.

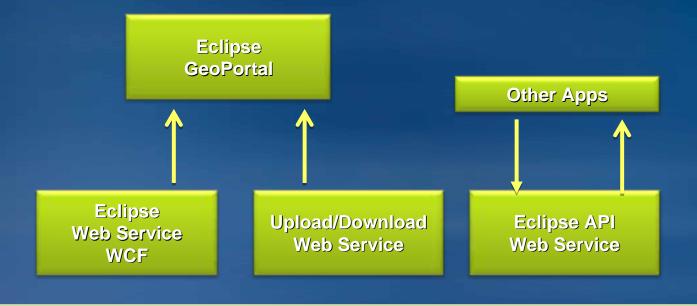


## **GeoPortal Features (Continued)**

- Geocoders
  - Bing Maps Geocoder
    - Address location
  - ESRI Geocoder
    - Address location
  - Lookup
    - Predefined spatial queries (Basins, Fields, etc.)
  - Metadata / GeoTags
    - Parsing of XML Metadata and Extraction of geotag from files



## **Component Diagram**



Content Manager

Geocoders

User/Groups Manager

Thumbnail Management Metadata Reader

Social Manager GeoTag Reader

Tag Manager SQL 2008



Demo



Carlos J. Sosa @carlosjsosan

