Making Web Maps Powerful and Easy

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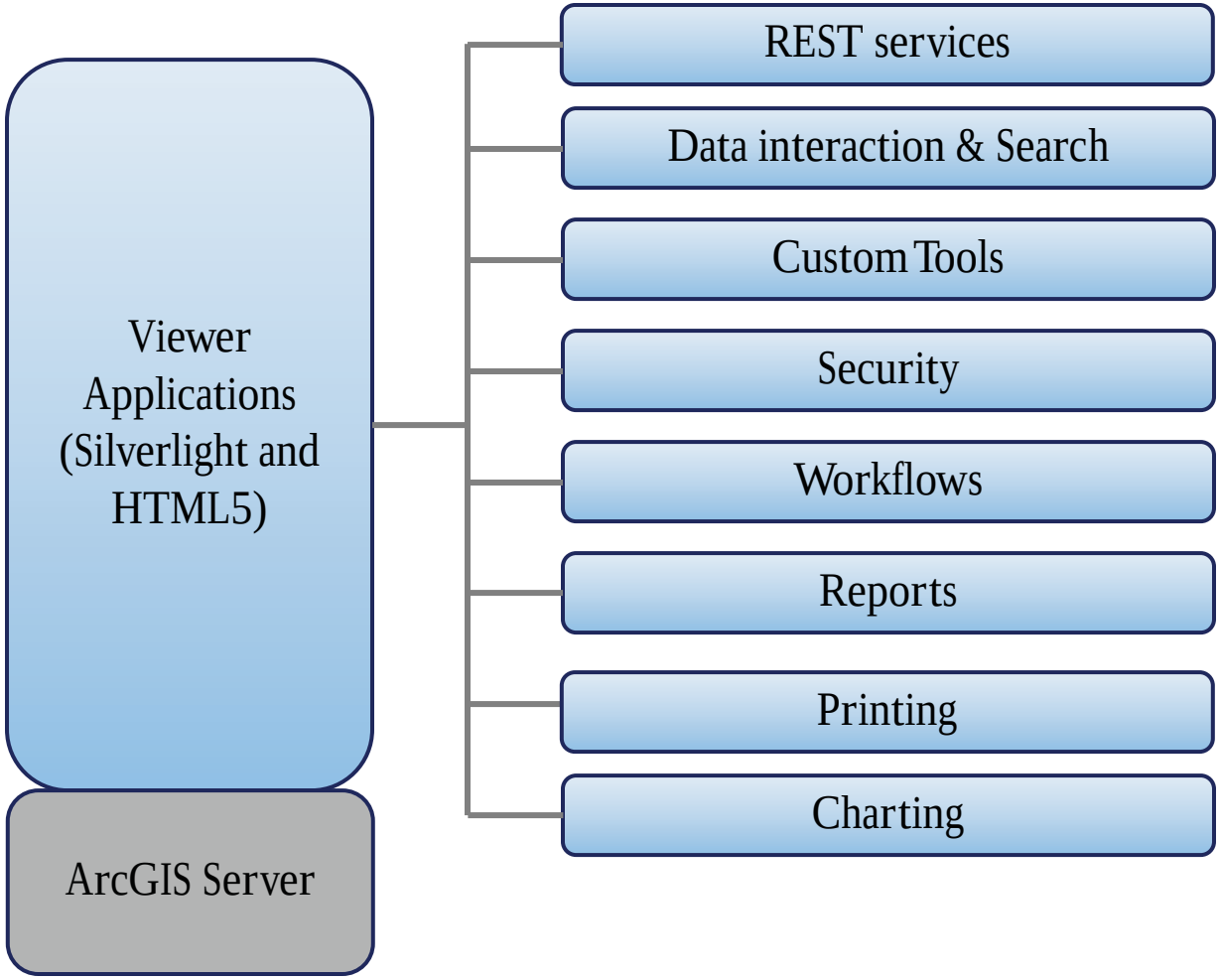
Background

- County of Los Angeles Enterprise GIS (eGIS) membership
  - 21 departments
- eGIS Data Repository
  - 15 spatial databases
  - 548 datasets
- Goal is for all departments to have an online web mapping application that showcases their datasets along with customized tools, functionalities, and appearance

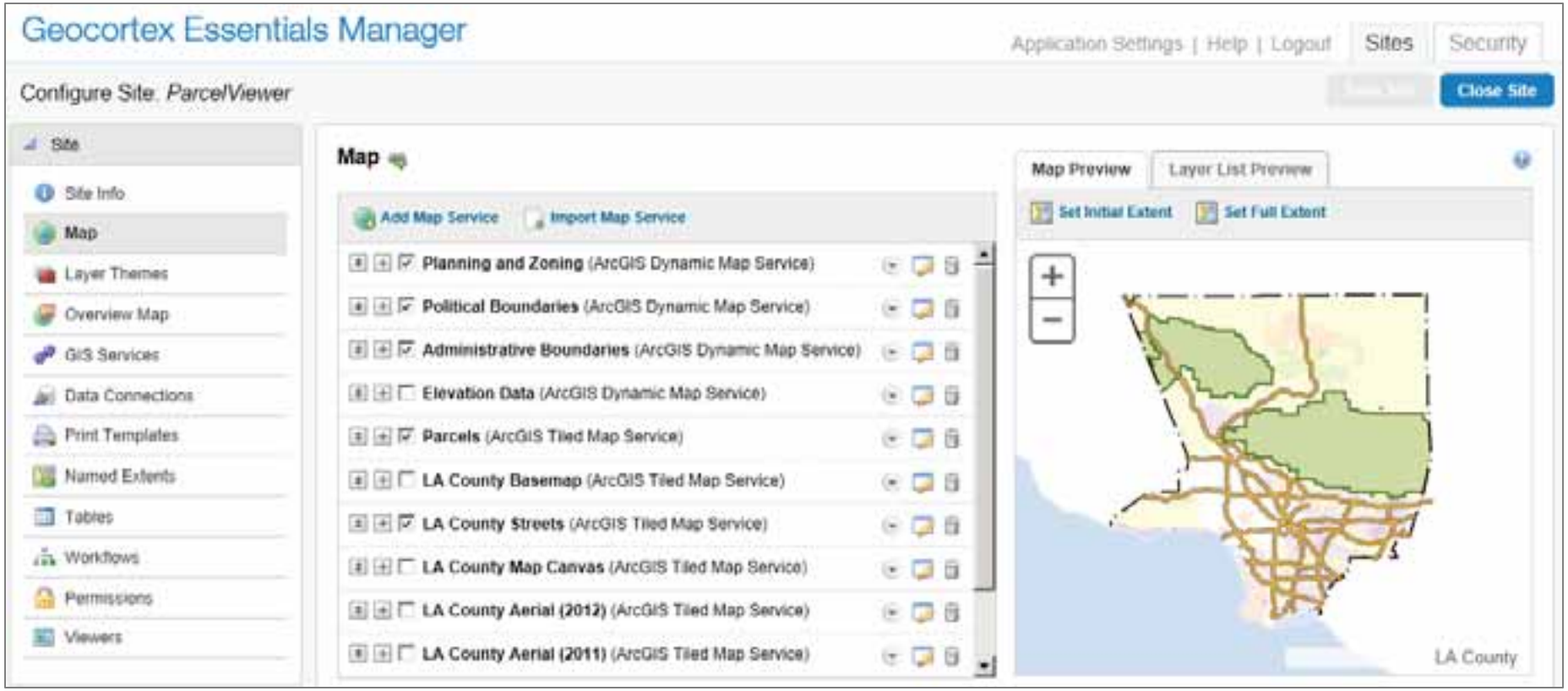
Technology

- Esri
  - ArcMap – publish map services and caches
  - ArcGIS for Server – provides functionalities such as dynamic drawing, query, search, and enables vector feature editing
- Latitude Geographics
  - Geocortex Essentials with Viewers for Silverlight and HTML5
    - Extends functionality of Esri's ArcGIS for Server
    - Create and manage web mapping applications
  - Optimizer
    - Provides overview of performance, network traffic, and usage figures

Geocortex Components



LA County Parcel Viewer



Geocortex Essentials Manager

Application Settings | Help | Logout | Sites | Security

Configure Site: *ParcelViewer*

Save Site | Close Site

- Site
  - Site Info
  - Map
  - Layer Themes
  - Overview Map
  - GIS Services
  - Data Connections

GIS Services

Geocoding | Geometry

Add Geocoding Service

ID	Display Name	Service Type	
0	LA County Geocoder	ArcGIS Geocoding Service	

- Site
  - Site Info
  - Map
  - Layer Themes
  - Overview Map
  - GIS Services
  - Data Connections
  - Print Templates
  - Named Extents
  - Tables
  - Workflows
  - Permissions
  - Viewers

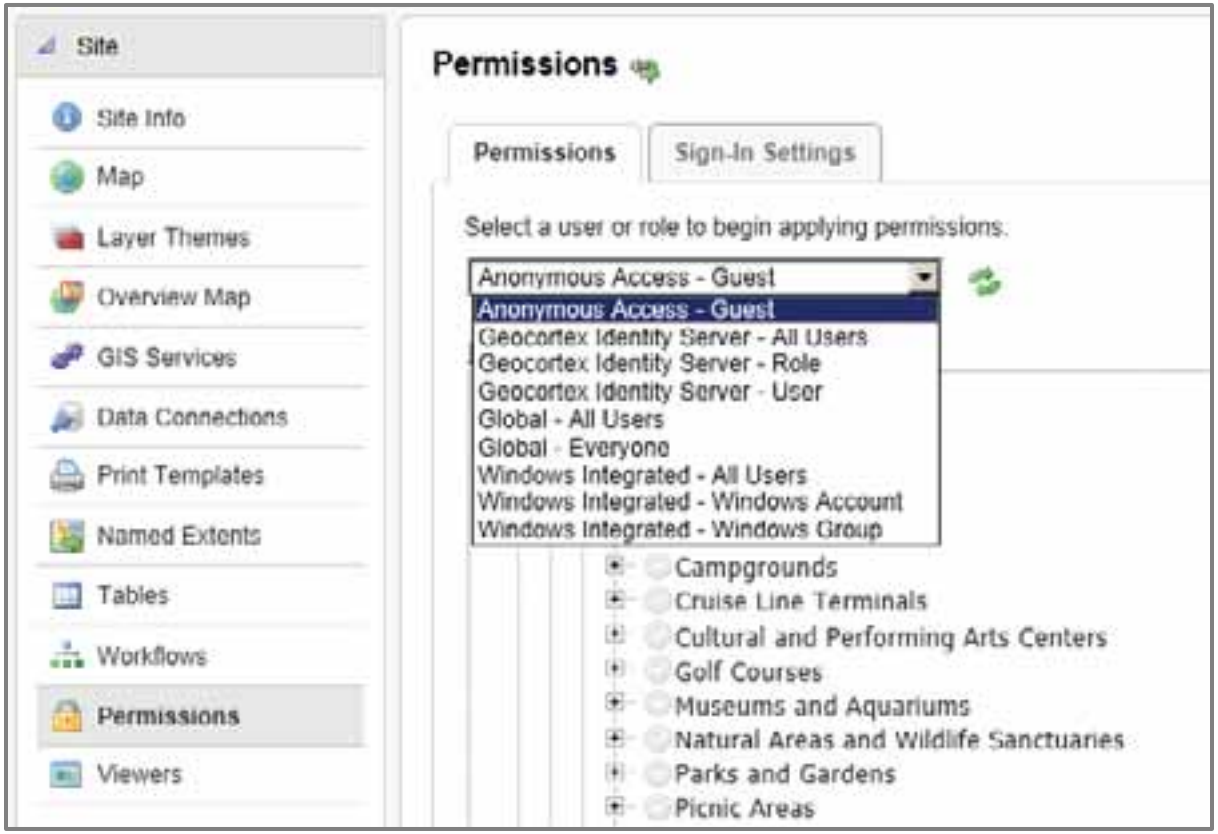
Print Templates

Add Print Template | Import Print Template | Edit North Arrow

Display Name	Description	
Landscape 8.5 by 11	Letter Size (Landscape)	
Portrait 8.5 by 11	Letter Sized (Portrait)	
Landscape 11 by 17	Tabloid Size Map (Landscape)	
Portrait 11 by 17	Tabloid Size Map (Portrait)	

Default Print Template: Landscape 8.5 by 11

Apply Changes


Site
Site Info
Map
Layer Themes
Overview Map
GIS Services
Data Connections
Print Templates
Named Extents
Tables
Workflows
Permissions
Viewers
Permissions
Permissions
Sign-In Settings
Select a user or role to begin applying permissions.
Anonymous Access - Guest
Anonymous Access - Guest
Geocortex Identity Server - All Users
Geocortex Identity Server - Role
Geocortex Identity Server - User
Global - All Users
Global - Everyone
Windows Integrated - All Users
Windows Integrated - Windows Account
Windows Integrated - Windows Group
Campgrounds
Cruise Line Terminals
Cultural and Performing Arts Centers
Golf Courses
Museums and Aquariums
Natural Areas and Wildlife Sanctuaries
Parks and Gardens
Picnic Areas

Configure Site: *ParcelViewer*

Save Site | Close Site

- Site
- Viewer for Silverlight 2.2
  - Viewer Info
  - Look and Feel
  - I Want To Menu
  - Toolbar
  - Tool Behavior
  - Map Module
  - Map Widgets
  - Instant Search
  - Layer List
  - User Layer Addition
  - Workflow
  - Optimizer Integration
  - All Modules

Viewers > ParcelViewer > **Toolbar**

Load Preset Toolbar | Remove Toolbar

Sticky Tools: ☑

Available Tools

- Home
  - Home
  - Pan
  - Zoom In
  - Zoom Out
  - Initial View
  - Full Extent
  - Previous Extent
  - Next Extent
  - Identify
  - AdvancedControlsRegion
  - Print Map
  - Export Map
  - Reports
  - Toggle Mouse Coordinates
  - Help
  - What's This?
- Data Sources
  - Map Layers
  - Add Layer
  - Re-Order Layers

Configured Toolbar | Remove Configuration | Add Tab

- Getting Around
  - Navigation
    - Pan
    - Zoom In
    - Zoom Out
    - Full Extent
    - Previous Extent
    - Next Extent
  - Information & Actions
    - AdvancedControlsRegion
  - External Mapping
    - Bing™ Maps
    - Google Maps™
    - Pictometry Online
  - Help
    - Help
- Identify and Query
  - Location Information
    - IdentifyRegion
  - Query Data
    - Simple Query

Demo

- GIS Viewer
  - Showcases the County's authoritative dataset
  - Silverlight http://gis.lacounty.gov/gisviewer
  - HTML5 http://egis3.lacounty.gov/m/?viewer=demo

- Parcel Viewer (Silverlight)
  - Contains parcel ownership information
  - http://gis.lacounty.gov/parcelviewer

Optimizer

- Captures, organizes, and analyzes information about our ArcGIS Servers
  - Emergence of patterns and trends
- Allows proactive planning
- Reports are generated and emailed every night
- Set alarms to watch CPU, memory, map services, sites, etc.
- Dashboard
  - Server statistics (all servers)
  - Site statistics (all sites)
  - Unique users (GIS Viewer)
  - Dynamic map statistics (election day)

Conclusion and Future Work

- Geocortex allows us to build web mapping applications fast without compromising quality
- Geocortex targets multiple platforms
- Work with each department to establish a viewer
  - Training
- Simplify user interactions via workflows
- Follow usage trends of Silverlight and HTML5 viewers

Thanks! Questions?

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