Today’s Agenda

• GIS Challenges Today
• Spatial Application Infrastructure (SAI)
• The Geocortex Approach
Do More with ArcGIS Server

1. **Geocortex Essentials**
   Web-based mapping, commercial-off-the-shelf (COTS) application framework designed for Esri ArcGIS Server platform

2. **Geocortex Optimizer**
   Performance monitoring / ROI solution for ArcGIS Server
Objectives

For Web- GIS Consumers
We do everything possible to ensure end users have a positive experience and get done what they need to do.

For Web- GIS Producers
We make it as easy as possible for organizations to create, deliver and maintain the web-based GIS capabilities that their end-users need.
Key Benefits

Do more...

Faster
Off-the-shelf software and universally required configurable features give you a substantial head start. Accelerate your time to success.

Less Cost and Risk
Administrators can easily configure applications to specific needs and requirements without having to rely on custom coding.

Better Results
Leverage a reusable set of tools, routines and supportable infrastructure to consistently deploy high quality ArcGIS Server applications.
Application

Spatial Data Infrastructure
Today’s GIS challenges

GIS professionals are challenged in developing and maintaining web-based applications:

• Too much time spent doing menial tasks
• Proliferation of platforms (mobile apps, web sites, desktop) and stakeholders makes managing the environment difficult
• Not enough budget
• Difficult to keep up with new/shifting stakeholder requests
• Rapid technology changes make it hard to keep up
• Data proliferation

Time for a change and to adopt a new approach!
Client Centric: One Off Application
Client Centric: One
Server Centric: Purposeful Application
Old Approach: “One-off” Applications
Leads to: Barriers

Barriers to rapidly change and grow:
• Difficult to manage
• Poor reuse and redundancy
• Costly to maintain (extend and enhance)
• Lack of standardization
• Risky – staff turnover, minimal documentation
A Spatial Application Infrastructure provides the ability to build multiple, standardized applications; reducing the tension between delivering the kind of application GIS consumers require, and the resources required to deliver those capabilities.
Spatial Application Infrastructure

Key SAI tenets:

- Applications are technology agnostic/neutral
- Offer centralized management of applications
- Minimizes custom code
  - Instead of putting business logic into each individual application, centralize the business logic so it can be shared and reused by any applications
- Accommodate the evolution of applications over time
- Emphasize "workflow" (or "task-driven" applications), instead of an overwhelming option of features, functions, and tools

Adopting SAI helps future-proof your GIS investment.
Geocortex SAI Approach

ArcGIS Server

Searching and reviewing information (Silverlight)
Geocortex SAI Approach

Silverlight Web App

Loading new data layers

ArcGIS Server
Geocortex SAI Approach

Generating reports (HTML5)
Geocortex SAI Approach

- Silverlight Web App
- Flex Web App
- HTML Mobile App

ArcGIS Server

Dashboards (iPad)
Geocortex SAI Approach

- Map Services
- Database Connections
- Custom Tools
- Security
- Integration
- Reports
- Search
- Workflows

ArcGIS Server
Spatial Application Infrastructure

**Geocortex Essentials** supports SAI by enabling organizations to build standardized applications through integrated components in a common platform:

1. **Standardized application creation and management** with Geocortex Essentials **Manager**.

2. **Targeted, technology-agnostic applications** with **Workflow** and **Forms**.

3. **Delivery to multiple platforms/technologies** today and in the future with **Viewer Template Engine**.
Geocortex Essentials Components

- Management
- Performance Logging
- Viewer Template Engine
- Viewer for Silverlight
- Viewer for HTML5

- Mobile
- Sample Flex Viewer
- Custom Desktop

- Viewers

- XML Configuration
- Web Manager
- Activity Library
- Workflow Designer
- Workflow Simulator

- JavaScript API
- Report Designer
- Custom Desktop

- Viewers

- Silverlight API
- Flex API

- Workflow Engine

- Integration
- .NET API
- REST Web Services
- Security

- Forms

- Core
- Reporting & Printing
- Data Linking
Geocortex Manager: Provides central control of all services and applications.
Integration / Extensibility
Workflow Tools
**Workflow Tools**

**Workflow Technology** for building purpose specific applications that automate spatial and non-spatial business processes.
Workflow Tools

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Workflow Tools

Workflow Example
for purpose specific application:

1. Provide user with list of desired tasks ("I Want To…" menu); select one
2. Prompt user to enter physical mailing address (manual)
3. Geocode address (automated step)
4. Querying of spacial and non-spatial data; parcels identified (automated)
5. Report generated and distributed to user (automated)
Map Viewers
with easy to use web-based administration tools
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with easy to use web-based administration tools
What do they all have in common?
Large and complex SDI’s

Disseminate large amounts of data (collected over many years) to a wide audience.
Welcome to VCGI's Website!

VCGI is your source for Vermont's geospatial data, information, and activities. VCGI is a public non-profit chartered by the State of Vermont to assist the Vermont GIS community as well as anyone interested in geospatial technology or mapping.

You will find the following at this website:

- Geospatial data and imagery
- Links to the Interactive Map Viewer and other dynamic online mapping applications
- Information about geospatial technology
- Resources to help you use or explore geospatial tools
- A calendar of events, webinars, trainings, conferences, and more
- A variety of platforms where you can connect with others using geospatial technology
- More about VCGI in the "About VCGI" section of our website or take a look at our Annual Report
E9-1-1 Viewer

The E9-1-1 Viewer is a web map application that can be accessed using a desktop, laptop, tablet or smartphone. Data in this map includes the complete E9-1-1 feature set as well as some additional non-E9-1-1 features. For areas where data speeds are slow consider using the more limited E9-1-1 Responder.

Click on the images below or to view the E911 Viewer Map or go directly to the Viewer.

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DISCLAIMER

This Vermont E9-1-1 Viewer map and GIS data is for general reference only. Data layers that appear on the E9-1-1 Viewer map may or may not be accurate, current, or otherwise reliable. The E9-1-1 Board and the State of Vermont make no representations of any kind, including but not limited to the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied with respect to the GIS data and E9-1-1 Viewer map.
New GRANIT Data Viewer - GRANITViewII Announced

Date/Time(s): April 18, 2014
Event Type: Data News
URL: http://grantviewii.unh.edu

GRANIT is pleased to announce the availability of a new Silverlight data viewer - GRANITViewII. Developed using ArcGIS Server and Geocortex, this new tool provides users with access to the same suite of data layers as our original viewer, but offers many new tools to interact with those data layers. Among the enhancements are:

- New navigation tools
- Ability to add shapefiles
- Ability to reorder data layers and change symbology

We are also announcing GRANITViewLite - a lite version of the basic viewer intended for use on mobile devices. It may also be of interest to users who cannot use the Silverlight viewer.

Finally, we are collaborating with the UNH Geospatial Technologies Training Center and the Vermont Center for Geographic Information (VCGI) to offer a webinar that will introduce users to the new viewers available from each state. While each viewer is customized to the state's GIS resources, they share a common framework and much of the same functionality.

The webinar will be offered on Wednesday, April 30, 2014, 1:30 PM - 2:30 PM. Please reserve your webinar seat now at:

We will maintain the current viewer through June 30, 2014, so please plan to transition to the new viewer prior to that date.