SOA What?

Wisconsin Enterprise GIS and Geospatial Services Model

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The Role of the GIO In State Government

Governor & Legislature

State Agencies

State Cartographer, Universities

Federal Agencies

Local, Regional, Tribal Governments

Private Sector

Professional Organizations

Wisconsin’s Citizens
Wisconsin Enterprise Geographic Information Services (WEGIS)

A Step-wise Approach ....

Initiation

Agency Integration

Integration with IT Organization

Enterprise GIS Service Offerings

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Service Oriented Government Model

Government Services
Business Architecture

Technologies
Technical Architecture

Jurisdictions
Organizational Architecture

Presentation Process Service Data Platform Network Security Privacy Procurement

Health Education Welfare Environment Infrastructure Economy Justice Finance Administration
Enterprise Service Layers

Management: Repositories, Registries, Monitoring, Support

Presentation, Interaction

Integration, Aggregation, Orchestration

Business Services

Existing Enterprise Resources: Applications, Data, COTS

Security, Identity / Access Management, Auditing, Directories

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Geo-Spatial Service Oriented Government Model
GIS and Business Service Integration

Management: Repositories, Registries, Monitoring, Support

ESRI Presentation Layer

Presentation, Interaction

Integration, Aggregation, Orchestration

Server GIS

Business Services

GeoDatabase

Security: Identity / Access Management, Auditing, Directories

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WEGIS – Strategic Goals, Services and Projects

- Enterprise GIS Community
- GIS Communications Program
- Wisconsin Enterprise GIS (WEGIS) Strategic Plan
- Enterprise GIS Data Repository
- WEGIS Web Mapping Infrastructure and Services
- Enterprise Addressing Tool
The Current Geo-Spatial Services Landscape in Wisconsin

- Primarily built project by project
- Program specific needs addressed
- Data Sharing is mostly ad hoc
- Agency haves / have nots
- No current Enterprise Services in place yet.....
- Planning for GIS/SOA in-progress
WEGIS – GIS Server Infrastructure Design
WEGIS - Geographic Information Services

Geo-Spatial Portal Services

Geo-Spatial Data Management and Metadata Services

Enterprise GIS Policies, Standards, and Best Practices Advisory Services

GIS Infrastructure Hosting Services

GIS Web Mapping Services

GIS Software License Management Services

Geo-Spatial Processing Services

Enterprise GIS Education and Outreach Services

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Geo-Spatial User Landscape of Wisconsin
State Government Organizations

GIS Professionals: “Doers”

ArcGIS Family (ArcEdit, ArcMap, Spatial Analyst, etc.), Mobile, etc.

GIS Non-Professional “Users”

Custom GIS Applications
Client & Server-based Technology
~750 in Wisc Gov’t

Custom ArcView, Custom Web Mapping, Data Editing, etc.

GIS “Viewers”

Internet Mapping
GIS Web Portal
10,000+ users within State of Wisconsin

Multi-purpose Web Mapping, General Public Viewing via Web Browser

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WEGIS Success - Manage the Key Ingredients:

- People (GIS community with rest of government)
- Visionary Leadership (Management and financial support)
- Optimize Agency Business Functions with GIS
- Utilize Enterprise IT Infrastructure as a foundation
- Geospatial Infrastructure (currently being built)
- Governance (currently being formed)
- Standards / Practices (currently being created)
- Value Proposition / Cost Benefit / Sustainability
- Transform “Single Agency” thinking & behavior
Questions

Thank you for your thoughts and comments