GIS Web Portal & Enterprise-Wide Data Warehouse Collaboration

Presented by:

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GIS Application Name: KGATE

- GIS Web Portal
- Link to any and all KDOT data internal & external
- KDOT intranet
- Eliminates need for details of data
- Simultaneous access to data at several locations
- 70 features and 13 sources
Applications

Legend Categories
GIS WEB PORTAL & ENTERPRISE-WIDE DATA WAREHOUSE COLLABORATION

+ Multiple data sources:
  ❖ DASC - State Clearinghouse – External source
  ❖ Document Management System I - Internal
  ❖ Pavement History (research lab) - Internal
  ❖ Secretary of State’s Office for Legislature Information

+ Public Access:
  ❖ Federal Highway Division Office
  ❖ Kansas Truck Routers (KDOR)
  ❖ Kansas Highway Patrol
GIS WEB PORTAL & ENTERPRISE-WIDE DATA WAREHOUSE COLLABORATION

+ Types of data:
  - Imagery (satellite and aerial)
  - Point
  - Linear
  - Videolog

+ Data Throughout KDOT is Geospatially Enabled
  - Documents
  - Images
  - Databases
Collaboration

- Metadata
- Legal
- Strategy
- Meetings

- 2 different bureaus
- Policy & Resource changes
- Resolve issues – everything on the table
- Bi-weekly
GIS WEB PORTAL & ENTERPRISE-WIDE DATA WAREHOUSE COLLABORATION

EDW

- Collaboration
  - Teamwork
  - Success

- Data Staging
  - Extraction
  - Transformation
  - Loading

ETL
Benefits of Collaboration:

- Successful Project Implementations
- Sharing of Information
- Prepared for Use by Our Partners
- Creation of Decision Critical & Innovated Data
GIS WEB PORTAL & ENTERPRISE-WIDE DATA WAREHOUSE COLLABORATION

KDOT GIS Consultant
Business Requirement Definition

Consultant Code Enhancement

KDOT GIS Deployment

Maintenance and Growth

KDOT GIS Data Enhancement

KDOT GIS Testing

KDOT GIS & Data Owner Review

KDOT EDW & GIS Project Collaboration

KDOT EDW Build

KDOT EDW & GIS Testing

KDOT EDW Deployment

Maintenance and Growth

Project Management:
KDOT Enterprise-Wide Data Warehouse

Vision Statement

The Kansas Department of Transportation’s data warehouse is a **flexible single source** of **integrated**, **reliable**, and **secure** data that provides **intuitive access** to **enterprise information** supporting the Department’s current and future business activities.
GIS WEB PORTAL & ENTERPRISE-WIDE DATA WAREHOUSE COLLABORATION

- Function of EDW
  - Single Version of the Truth
  - Data Quality
  - Standards
  - Conformity
  - Integration of Data (disparate sources)
  - Faster Response Time
  - Derived Data
GIS WEB PORTAL & ENTERPRISE-WIDE DATA WAREHOUSE
COLLABORATION

+ KGATE User Interface
  ✗ Not a data manipulation tool – an analysis tool
  ✗ View any and all KDOT data simultaneously
  ✗ Query, Report, View
  ✗ Link to applications like Videolog
KGATE - 2012 and Beyond
- Continued EDW Collaboration
- Legal Collaboration
- One Location
- Performance
- Accuracy
- Metadata
EDW - 2012 and Beyond

- Oracle Spatial Process
  - Current - .sdo (GeoMedia)
  - Future - .sde (ESRI)
- Continued Growth & Integration
- Tune & Enhance Performance
- Continued Accuracy
- Collaboration
- Metadata Gathering & Presenting
- One Version of the Truth
KGATE & EDW Lessons Learned

- Educate User and Potential Users:
  - GIS, EDW Teams & Data Work Together
- Training with both teams
- Meetings with both teams
- Project Management Methodology (PMM)
- Project Manager Meetings
- Communicate Often – whether working on a project for KGate or with other stakeholders
- Collaboration, Collaboration, Collaboration
Questions?

Thank You!

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