Leveraging GIS for Project Management – Small Utility Finds Big Results
AGENDA

1. Introduction
2. Project Overview
3. GIS Needs and Goals for BSSE
4. ESRI Solutions used to Address Issues
5. Project Specific Uses
6. Testimonials
7. Lessons Learned
PROJECT OVERVIEW

- Approved by MISO in Dec 2011 as MVP
- Joint project with Otter Tail Power Company and Montana-Dakota Utilities Co.
- New 345 kV Transmission Line
- 163 Miles
- Endpoints:
  - Big Stone South substation near Big Stone City, SD
  - New Ellendale substation near Ellendale, ND
- Anticipated project cost is $300 - $340 Million
- In service 2019
GIS NEEDS AND GOALS FOR BSSE

• Needs
  • Prevent Outdated Data
    – Access routes, environmental etc.
  • Data Sharing Across Entire Project
    – 7 major contractors
  • Multiple Project Owners
    – OTP/MDU

• GIS Goals for BSSE
  • Single, transferable data set – no redundant data sources between contractors
  • Project personnel need access to live data
    – Mobility, electronic, ease of use
  • Help meet project goals (Budget and Schedule)
ESRI SOLUTIONS USED TO ADDRESS ISSUES

• AGOL with Double Security (dba & server)
  • Live Export to EXCEL for formatting

• Collector, Explorer, Survey 123

• Operation Dashboard (Public and Internal Management Progress Map)

• Ipads and Android Cellular Devices in Field

• Trimble R1 GPS Units
• Civil Contractor / Permanent Access - Webster Scale
• Matting/ Temp Access Contractor - Dahn
• Environmental Contractor - HDR
• Drilling/Pouring Contractor - Tri State
• Setting/Stringing Contractor - Brink
• Inspector Contractor - PCA
• Engineering Contractor - Power Engineers
• Project Management - OTP
• Hyperlink Drawings and Documents
  o Data is Stored in Sharepoint
Soybean Cyst Nematode App
Soybean Cyst Nematode Check Out Forum
Steel Pole Assembly Inspection:

Date Set:

Davat Left Static Arm Type:

Davat Left Static Arm Assy #:

Davat Left Static Arm Sales Order #:

Davat Right Static Arm Type:

Davat Right Static Arm Assy #:

Davat Right Static Arm Sales Order #:

Davat Top Conductor Arm Type:

Davat Top Conductor Arm Assy #:

Davat Top Conductor Arm Sales Order #:

Davat Middle Conductor Arm Type:

Davat Middle Conductor Arm Assy #:

Davat Middle Conductor Arm Sales Order #:

Davat Bottom Conductor Arm Type:
TESTIMONIALS FROM PROJECT PERSONNEL
QUESTIONS