



Simple Yet Powerful – Designing an Enterprise GIS for the Field and Office

Esri UC 2017

Background

Dominion Energy

Transmission Division

Dominion Stats... <Manisha to
provide>

Background

Business and Technology Drivers

Dominion Energy

GIS Assessment

Aging Google Earth Application

Need for Mobile Application

Best Practices

Goals and Outcomes

Simple Yet Powerful....

GIS Platform

Easy to Use

High Performance

Flexible

High Availability / Disaster Recovery

Business Requirements

300+ Distinct Users

Features:

- Intranet Links
- Asset Details
- Search System Assets
- Nameplate Data
- Measuring
- Redline / Annotation
- Geo-fencing
- Turn by Turn Directions
- Map Access Roads
- GPS Location
- Broadcasting

Layers:

- Work Orders
- Notifications
- Capture Access Roads
- Access Roads
- ROW Information
- Communications
- Planner Regions

Data:

- Substation Details

Project Challenges

Technical and Staffing

Imagery

Dominion ET New to Esri GIS

Changing Technology Landscape

Security Changes

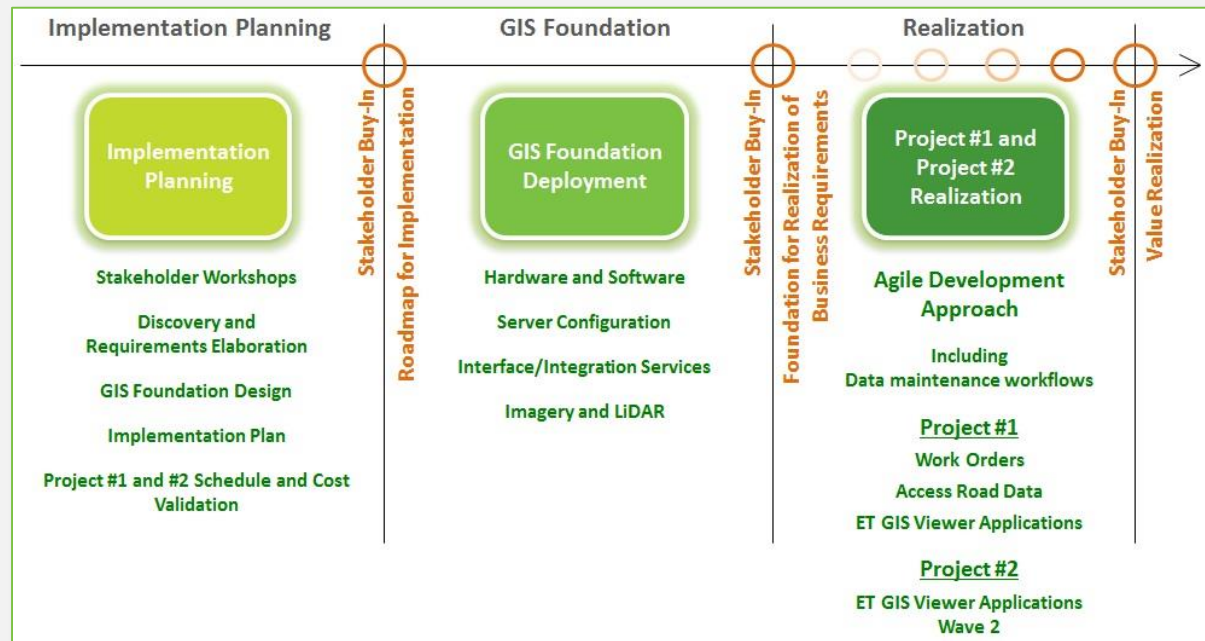
Device Changes

Project Components

Esri Platform

GIS Foundation
Imagery Processing
GeoEvents

Desktop App
Mobile App



GIS Foundation Goals

High Performance
Flexible, Extensible
Easy to Maintain

Desktop Application

High Performance, Configurable

User Based Enterprise Redlining

Group Bookmarks

Highly Configurable

“Desktop” User Experience

Advanced TOC

**<Screenshot from
Manisha>**

Mobile Application

Advanced Features, Simple Design

UI Consistency

Configurable

Redlining

Notifications

Access Road Bread Crumbs

Image Capture

Advanced Geocaching



Imagery

Streamlined Processing

Incorporation of State Data

Legacy Imagery Processing

New Imagery and Standards

Processing for Offline Use

**<Screenshot from
Manisha>**

GeoEvents

GeoEvent Extension

Backend Processing

Hazards

Notifications

**<Screenshot from
Manisha>**

Questions?