Geospatial Technology for a Connected Utility Infrastructure

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Energy Sector – Challenges

- Customer Demands
- Aging Grid
- Costs
- Regulatory Demands
- Technology Adoption
- Competition
- Carbon Reduction

Increasing
Energy Sector – Key Trends

- Natural Resources
- Infrastructure Space
- Skilled Resources
- Customer Patience
- Budgets
- Revenue Margins
- Regulatory Reporting Time
- Weather Predictability

Decreasing
GIS technology enables Connected Utility Infrastructure
GIS Platform for a Connected Utility

System of Engagement

System of Record

System of Insights

System for IoT
GIS Platform for a Connected Utility

System of Engagement
- Decision Support
- Constituent Engagement
- Field Mobility

System of Record
- Sharing & Collaboration

System of Insights

System for IoT
Constituent Engagement

- Service Availability Information apps
- Outage Map
- Customer Complaints Dashboards
Decision Support

- Asset Performance Monitoring
- Thresholds & Alerts
- Situational Awareness
- Outages and Crew Management
- Predictive Analysis
Streamline Decisions by Connecting Users Across the Utility

- Apps
- Authoritative Content
- Identity & Roles

Sharing & Collaboration
GIS Platform for a Connected Utility

System of Engagement

System of Record

System of Insights

System for IoT

Design & Planning

Data Management
Work with the Digital Twin of your Network
Design & Network Planning

- Engineering & Construction
- Bill of Material and BOQ Preparation
- Lowering the cost of Network Expansion
- Accurate Designs
- Monitoring Construction Process
Utility Network Management in GIS

- Tier and Subnetwork Management
- New Industry Data Models
- Sophisticated Analysis
- Services Architecture
- Enhanced Cartography & Data Quality
- Highly Performant
- Data Migration Tools

Utility Network Management in GIS
GIS Platform for a Connected Utility
Mapping and Visualization

Where are my customers?

Where are my assets?

How is my Network?
Analytics and Planning

Exploratory Analysis & BI

Solar Site Suitability / Potential

ROW Management

Transmission
Terrain/corridor Planning
GIS Platform for a Connected Utility

System of Engagement

System of Record

System of Insights

System for IoT

Sensors

People

Monitoring
Real-Time Information from variety of Sources

- Built Environment
- Drones
- Sensors
- Social Media
- Weather
- Satellite
- Aerial
- IoT
- Digital Transformation
Complete GIS for a Connected Utility

Asset Records
- Higher fidelity
- Speed of changes
- Office to field
- From maps to information products
- Advanced Integration methods

On-Demand High-Performance Analytics

Work with IOT, Big Data, AI/Deep Learning

Connect Everyone with Geography
Thank You