The GEONIS Way

Energy Sector GIS User Group, Uganda
Kampala, 25.08.2016
Geocom is part of Esri Germany

Esri Deutschland Group GmbH
Strategic planning

Geocom Informatik AG
Geocom Informatik GmbH
Utilities
Cadastral Survey
Industrial Plant Management
Transport & Logistic

con•terra
Nature, Environment, Resources
Business Solutions
Add value to the **Esri ArcGIS platform** by providing configurable and easy to use applications for the utility domain.
Energy Sector Use Case Patterns

- Field Inspection
- Management Report
- Maintain Utility Assets and Data Management
- Planning and Design
- Respond to Emergencies
- Workforce Management
- Public Map Access
The right information and tools in the right place for the right workers at the right time.
GEONIS Audiences

**Executive Access**
Transforming data into information to understand your network

**Professional GIS**
Collecting, organizing, and exchanging data

**Operational**
Provide and integrate your GIS data in the organization

**Knowledge Workers**
Getting information into and out of the field

**Public Engagement**
Providing information and receiving feedback
GEONIS Structure

Applications
Use cases

GEONIS Solutions
Industry specific configurations

GEONIS Framework
Code provides common functionality

ArcGIS Platform
Basic GIS technology and core products

Integration Services
GEONIS Solution Framework

Seamless workflows on any device

Configure once, use everywhere
Establish a critical basis for an enterprise-wide infrastructure system.
Engineering-quality Construction Tools for Adding Data

GEONIS offers an extended range of CAD like construction tools.
Schematic View
Infrastructure Documentation
Keep your data accurate and up to date
Design and Construction
Profile View
3D Visualization
big picture and better planning for the future
Data Management is Central

Management Report
Field Inspection
Public Map Access
Respond to Emergencies
Workforce Management
Planning and Design
Maintain Utility Assets and Data Management
Transforming data into information to understand your network
GEONIS Reporting

Make brilliant reports for **communicating**
Finding what’s connected,
Who’s connected
Network Tracing

Trace upstream to feeding unit:

Trace downstream to all devices that are fed from a source:
Unplanned network disruptions
Reduce outage time

Locate the problem
Short circuit... What kind of...?
What is connected? What is affected?
Instruct Nearest Field Crew

Geonis server 6 Showcase

I want to...
View the home panel
View information about this application.
Find data on the map
Click, tap, or draw a rectangle on the map to identify features.
Change visible map layers
Turn layers on and off, perform layer actions, and view the legend.
Return to initial map extent
Return to the initial map position and zoom level.
Find ELE house connections from station
Returns all house connection if a station is chosen.
Find ELE station from house connection
Returns the station if a house connection is chosen.

Map showing network disruptions and connectivity.
Customer Notification = Good Customer Service
Asset Renewal and Value Assessment
Visualisation and Printing
Plotting - Series plotting along line
Workforce Efficiency

CHECKLIST

- Task 1
- Task 2
- Task 3
- Task 4
Work Order and Dispatch Field Worker: Integration!
Giving Field Inspectors the Tools
GEONIS can live inside other systems too
Integration Process with SCADA

SCADA → Integration Repository → GEONIS server → Spatial Information

Event Listener

XML
WebMap showing Outages = SCADA Integration
Analysis and Planning and Forward Thinking
Solar Potential Analysis | Is my roof suitable for solar panels?
Network Load Calculation | How much electricity can I feed in?
Managing vegetation
GIS helps to understand the physical relation of the surroundings

Managing the vegetation (forests, wetlands, regions of environmental sensitivity) near overhead transmission lines) is a big benefit.
Design Wind Parks
Wind Power Planning
Web GIS | share, communicate, and collaborate
Use Case Respond to Emergencies
Electrical Supply Management | Available on any Device
Go offline!
Tailored Solutions for Different Clients

GEONIS Capabilities

Spatial Information

GEONIS server

Security

Business Data
GEONIS Audiences

Corporate Access
Ensuring everyone benefits from high quality information

Professional GIS
Collecting, validating and managing data

Operational
Integrate and analyze

Knowledge Workers
Getting information into and out of the field

Public Engagement
Web and paper maps
Thank You!