Building an Enterprise GIS System for WMD

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- Population: 450,000
- No. of connections 190,000
- 12 drinking water production plants
- Extraction and purification of 32 million m³ of water
Issues

• Changing regulations
• Budget Constraints
• Aging infrastructure
• Multiple information systems and data formats
Requirements

• An easy to use map viewer
• Integrates with external systems
  – WION
  – Vehicle tracking
  – Work order system
• Establish relationship with spatial and non-spatial data
• Simple unified user interface
• Role based access to functionality
Solution

• GeoViewer developed by Nobel Systems
• Built using ArcGIS API for Flex
• Seamless integration with external systems
• Eliminates training on multiple systems
• Geo-enable non spatial information
  – WION
  – Work orders INFOR
WION

• Law that obligates diggers to collect information about cables and pipes in the underground (digAlert)
• Regulated by Dutch government
• Geoviewer streamlines workflow for field crews
Vehicle tracking system

- Ability to view vehicle location
- Better management of resources
Infor - EAM

• GeoViewer provided a customized user interface
• Role based access
• Populate workorders with GIS data
• Additional capabilities
  – Documents
  – Photos
Valve Isolation

- Quick response management to emergencies
- Simulate what-if scenarios
- Create customer notification
  Mailing labels / Information letters
Conclusion

• A unified system to view spatial and non-spatial information
• Simplified user interface
• Improved productivity