Connecting Live: The GIS + SAP Asset Management Bond

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LOUDOUN WATER

- 72,000 customers
- 1,200 miles of water main
- 900 miles of sewer main
- 17 miles of reclaimed water main
- SQL Server 2008R2, ArcGIS Desktop and Server 10.3
LOUDOUN WATER’S REQUIREMENTS

- 7,000+ Corporate Requirements
- Two GIS requirements:
  - Show assets on a map
  - Synchronize with GIS
GEO.E

- GEO.e is a group of function modules in SAP that adds spatial attributes to SAP objects
- GEO.e uses ArcGIS feature services to provide spatial attributes to SAP
- Demo
GIS + SAP SYNCHRONIZATION

GIS

Feature service

SAP message queue

Function module

GlobalID/OBJNR

SAP

Function module

ArcMap add-in

JSON

SAP message queue
WHAT THIS MEANS TO YOU

- **Who**
  - Every EAM customer needs GEO.e

- **Why**
  - Geo-enable your enterprise

- **Cost**
  - Months and Hundreds of Thousands

- **How**
  - Build internal team and find trusted partner

- **What Next**
  - Carefully design your shared objects
  - Flow chart each business process
RETURN ON INVESTMENT

► Geo-enabled enterprise through custom automation
  ✓ All customers are mapped upon creation
  ✓ All meters are mapped when set
  ✓ All work orders are on the map
  ✓ Core GIS assets and attributes are shared
  ✓ QA: Delta report proves it’s right

► Integration pays off
  ✓ Tight: GIS creates objects for SAP to maintain
  ✓ Loose: Reference layers, geocoder, base maps
KEY LEARNINGS

- Start your business process with geography
- Be flexible and patient. Embrace change.
- Think about what you don’t want to do:
  - Addressing
  - Unique identifier in GIS
  - Duplicate effort
FUTURE

- GEO.e for Project Systems
- GEO.e for Mobile
- GEO.e for IC Web
- GEO.e for Business Intelligence
QUESTIONS?

THANK YOU!