Business benefits Geo-enabling SAP RE-FX with SAP GEO.e
Where do we come from?

Europe → Netherland → Dutch Province of North Brabant
Where are we working?

People: 2.5 million persons
Surface: 5,000 km²
Capital: 's-Hertogenbosch
Income: Transportation, Agriculture, High Tech

Ambition: European heart of smart solutions

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Motivation

- Foundation of our new Real Estate department in 2009
- We had to comply with several internal and external regulations
- Our revolving budget for the real estate department is about 500 million Euro
- We had four separate business systems: (property, finance, contracts, GIS)
- Our Administrative Organization was under pressure in regards to accuracy, completeness and timelines.
Objective and Real Estate Strategy

- Efficient business administration to keep the business in control
- Our strategy:
  - to be implemented with our current business system SAP and staying standard
  - to get a proper implementation and data consistency → "single source of truth"
  - the system must support the need and business experience of the users
Result

- using standard SAP module for Real Estate Management
- Using the SAP GEO.e for spatial visualization
- the result was purely business process driven and technology followed in the process
**Project flow**

**Rapid time to Go Live**

- Needs of the Real Estate Department defined (April 2012)
- Market research (June 2012)
- Visit Reference Site of ‘Service of Domains’ (June 2012)
- Contracting of consultants for SAP RE (Sep 2012)
- Contracting SAP for GEO.e (Feb 2013)
- ESRI Agreement for separate ArcGIS Servers
- Creation of the business blueprint
- Installing hardware and software
- Remote implementation of GEO.e (May-Aug 2014)
- Video interview for the Dutch ESRI Conference (Sep 26, 2013)
- Start of manual data entry into the system (Oct-Dec 2013)
- GoLive Jan 2014
GIS integration with SAP Geo.e viewer

- SAP
  - ArcGIS Real Estate objects
  - GEO.e viewer

- ArcGIS Reference layers internal

- Reference layers external
Internal search on contract type

- Contract
- Building
- Rental objects
- Parcel (section)

Geo-enabled contracts in SAP RE-FX
Tab Geo.e in SAP RE-FX (Real Estate)

- Geo.e tab

- Business layers:
  - Contract type
  - Rental objects
  - Buildings
  - Parcels

- geo-enabled rental objects in SAP RE-FX
Esri ArcGIS embedded in SAP Geo.e

Search function:
- Dutch Geocoder
- BAG-basis (NGDI)

Basemaps:
- NGDI Base Registrations (PDOK/BRT-base)
- Dutch air photo
- Esri basemaps

Reference layers:
- intern / extern
- NGDI Base registrations BGT / BAG / BRK
Reference layers from ESRI ArcGIS embedded in SAP GEO.e

- Heritage
- Provincial roads
- Cadastral map (objects/subjects)
- Antenna register
- Regulation space (5 layers)
- Ecological Network (2 layers)
- Present Property Administration for control
- Plan Designs; for buying plots
- ...
Linked systems to geo-enabled SAP Geo.e with ArcGIS

- Spatial Planning (external site)
- Report generator (SAP Business Objects)
- Document management system (Corsa)
- Streetview
From GEO-centric to process-centric

- Work process in SAP is leading
- No Geo map with additional business Information
- Contract in SAP RE-FX is the starting object
- Current ownership records in GIS can be easily compared with SAP RE-FX by overlaying layers
- Present Viewer EGK Land Registry is now obsolete
- Creation of an object in SAP and then adding geometry by “finger-painting” or copy the geometry from a feature service coming from GIS
- From Oct-Dec 2013 about 4,000 objects were created
Final conclusion

- Working with GIS in a trusted environment
- One environment for all needed information
- Integration with other information systems
- GIS in the capillaries of the organization!
- Satisfied users!!