The value of moving to Utility Network

A customers view on the value moving to Utility Network, from a business point of view and from an IT point of view.

Kjetil Nymoen
Solutions Architect – IT
Hafslund Nett - Norway
Some key facts—Hafslund Nett

1.5 millioner mennesker
- er avhengige av at vi gjør en god jobb hver dag

Antall målere
736,560

Antall stasjoner 18,100
Antall skap 51,189
Antall stolper 273,076
Hafslund Nett’s new IT-architecture

- **Core System**
  - CIS: Customer Data
  - GeoNIS: Assets
  - ERP: WO
  - MDM: Meter data
  - DMS: Outage

- **Platform**
  - Datanav

- **Opportunities**
  - Reports, analysis and insights
  - New applications
  - Data-exports
2017 - Decision point! The next step…

Datanav → ArcGIS Enterprise
ArcGIS Enterprise

Standard APPS

Portal for ArcGIS
(WebMaps, Services items)
Tilgangskontroll

GeoAnalytics Server
GIS Server

GeoEvent Server

HN APPS

BigDataStore
ElasticSearch

DataStore

Azure Event Hub

Sesam
May 2019 – Solutions in use – ArcGIS Enterprise

650 users
- 400 field users
- 250 office users
System Of Records - GeoNIS

- On Premise deployment
- Business critical solution
- 500 end users
- ArcGIS Desktop 10.2.1 and ArcFM Desktop
  - Citrix
- Used for designs, documentation and QA
- Integrated Loadflow and short circuit calculation
- 6500 versions in the geodatabase
- Geodatabase Manager for reconcile, post and compress
- Integrated with ERP, Scada, WMS, CIS…….

Custom tools
Partner tools
ArcFM Desktop
ArcGIS Desktop
Geodatabase
Oracle
The UX today........
From ArcMap to ArcGIS Enterprise

Custom tools
Partner tools
ArcFM Desktop
ArcGIS Desktop

Geodatabase Oracle
Utility Network at Hafslund Nett

- Part of UNC with Lyse, Ørsted, Eniig and Fluvius
- 2018/2019 project – Learning phase
  - Test environment On premise
  - Test data migration
  - Testing functionality
  - ArcGIS Pro
  - Rest API
  - Branch versioning
  - Web apps and mobile
- «Going All in» in 2021 ?
The value of Utility network

- Access anywhere
- Any device
- Increased interaction
- Targeted apps
- Simple UX
- Create and share
- Data Quality
- Real-world repr
- Standard datamodel

ArcGIS Enterprise

Utility network

Explorer Collector Survey123 Insights Dashboard Builder

Pro

Desktop Mobile Web

Editing
Trace
Diagrams
Attribute rules
Standard interface
IT values

- Service based architecture
- REST API / JSON
- Cloud deployment
- Scalable
- Security
- Less custom code
- Easier to stay up-to-date
- Performance
- Known platform