FME – The bridge between SharePoint and Portal for ArcGIS

FME World Tour 2016, Oslo

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About Bayerngas Norge

- Oil & gas production and exploration
- Main owner: SWM (Stadtwerke München)
- Three offices: Oslo, London and Copenhagen
- Employees: app. 100

My tasks:
- Data management, incl. GIS
- Drafting / graphic design
- Superuser SharePoint
The tools and sources of information
Common features

- Not industry specific
- Flexible framework
- Available to all in the organization
- No need of special expertise or special software for the end users

How to utilize this to increase the flow of information?

Could FME be the bridge?
The procedure

SharePoint theme site

webmap
list

Geodatabase
GEO

XY
Database
SQL

webmap
list

Geodatabase
GEO
Data Maintenance Site

- Collection of theme sites
- Many more to come....
Database Inventory – SharePoint Theme Site

- Where are the data?
  - SQL database
  - PDF’s in folder structure
  - ASCII files in folder structure

- How to find it?
  - Open software and search
  - Click to folder

Fully functional webmaps seamlessly integrated into the site
Database Inventory – FME script

[Diagram showing FME script for database inventory]
Approval Status – Well tops SharePoint Theme Site

- Anyone can add proposed changes in the SharePoint list.
- The proposal is approved or rejected by appointed person before added to well database.
- A versioning system keep track of all changes: Who did what and when?
Approval Status – Well tops SharePoint Theme Site

Approval status reflected in the webmap symbology
Symbology used to show wells missing in SharePoint list.

• Notes about wells can be added by anyone
• Related images are archived within SharePoint
• Links to the images are added to the list

RSS feed from authorities
Image Library – Drilling Results SharePoint Theme Site

- The pop-up reflects the info from the list
- The image is shown as a thumbnail in the webmap pop-up
- A click on the image brings up the full screen view from the SharePoint library
FME transfers text, including “styling code”, used in SharePoint

The style is reflected in the pop-up

This is a text style test. Would **bold**, *italic*, red colour and large size be passed on to pop-up in the map?
Limitations

- Some types of SharePoint fields cannot be read by FME:

  - **Managed Metadata** = Predefined terms used throughout the SharePoint solution
  - **Lookup** = Pointing to values in a related list

- Hyperlinks in SharePoint to files or folders are not recognized in ArcGIS as hyperlinks and cannot be added in pop-ups

file:///S:/Data/BarentsSea/Wells/QUAD7226/7226_11-01/Petrophysics
Other FME/SharePoint features not yet tested

- Writing to SharePoint
  - Create PDF’s or Excel documents and send to SharePoint document library
  - Generate or update lists in SharePoint based on data from other sources
On our way to success