

Bentleyuser Årsmøde 2022

Import of DanDasgraf to Drainage & Utilities.

2022-11-08

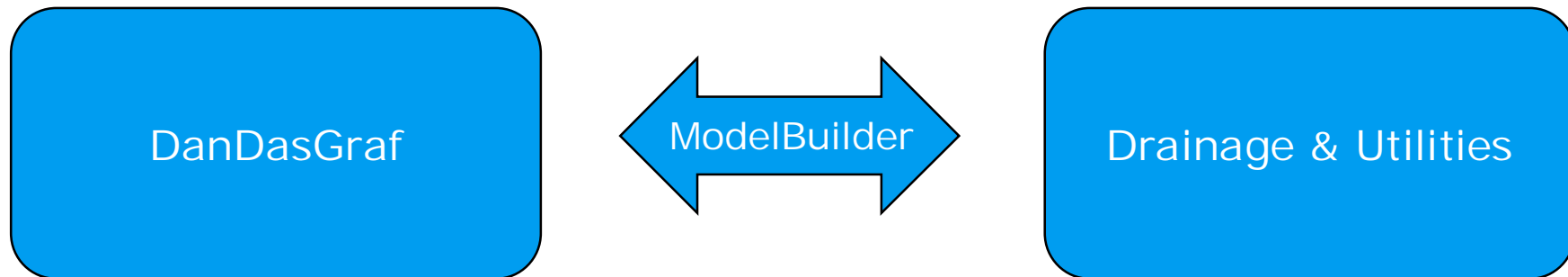
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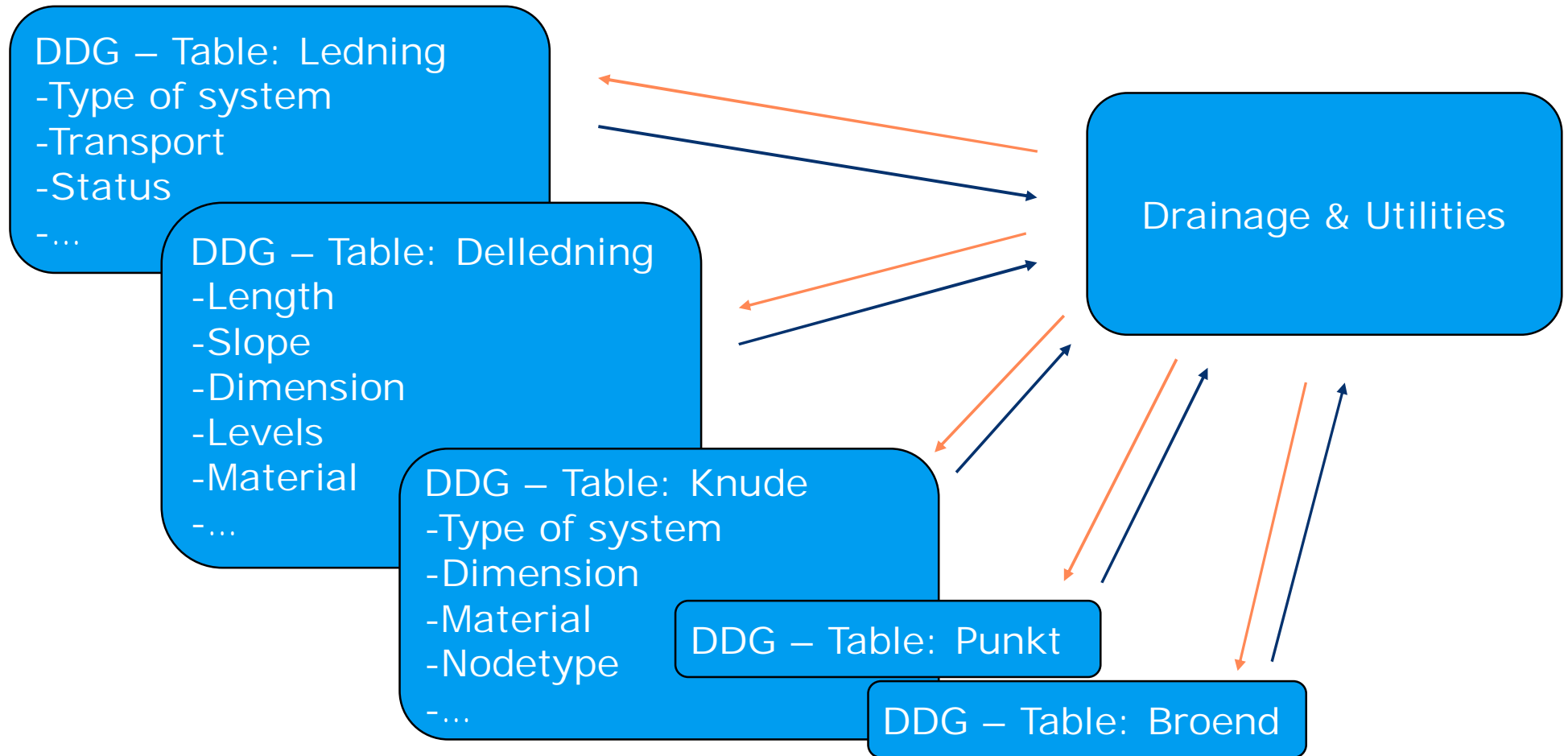
RAMBOLL

Bright ideas.
Sustainable change.

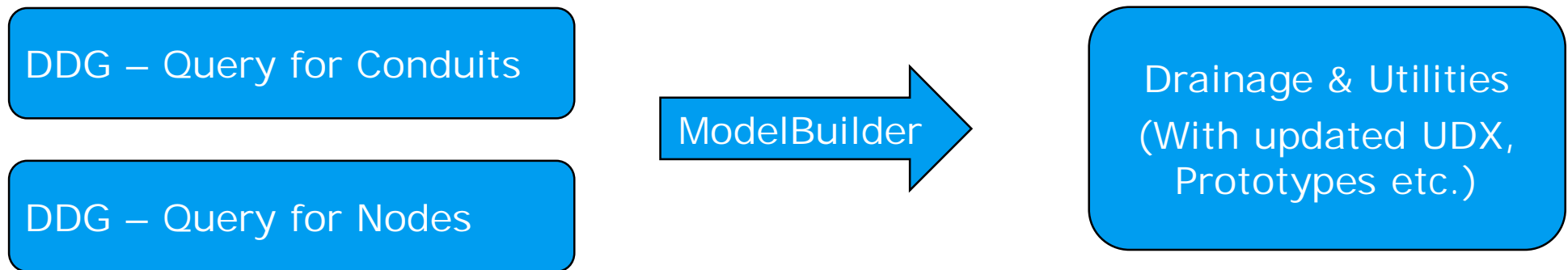
The idea



The data



The setup



ModelBuilder

- Live demo

What we learned

- Keep it simple and on a minimum of data needed in the beginning.
 - And then add later...
- Know your data – because you can only handle one table, sheet ect. at a time.
 - This goes both ways – import and export
- There are still some issues in the import, e.g. bends/curve on conduits.
 - It has to be done manually afterwards, because this can be listed in D&U at the moment.

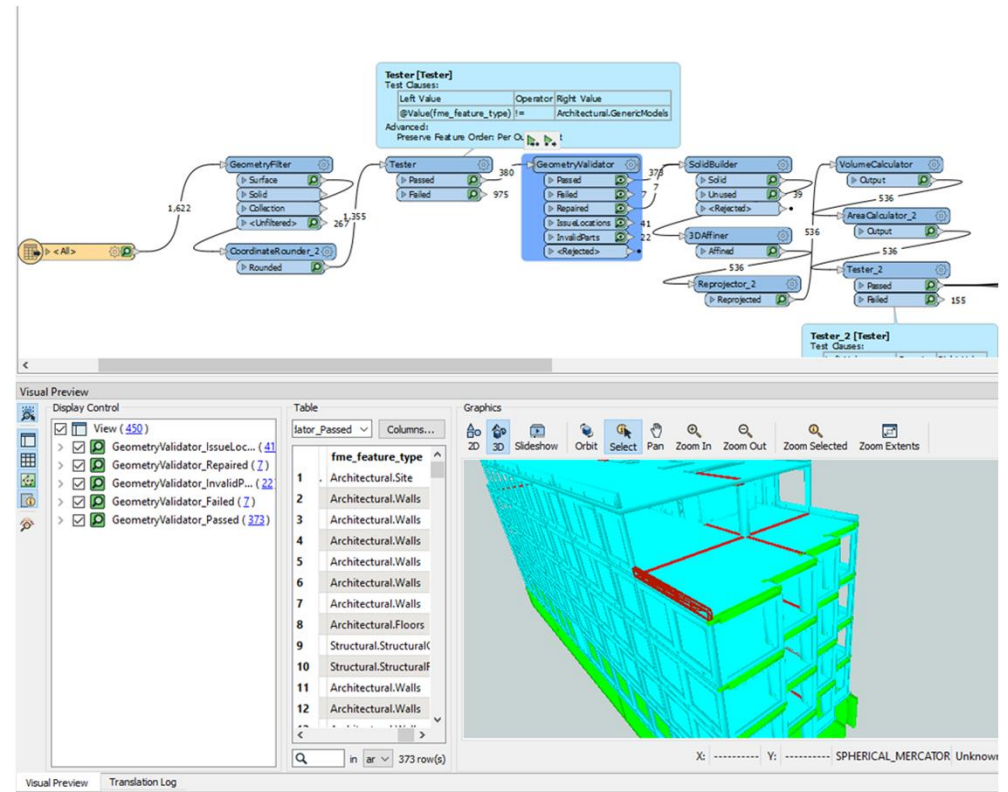
FME – data management program

FME:

- File conversion: CAD to GIS and vice versa
- Reads 300+ formats
- Visual programming workflow

Reason:

- Was chosen to translate the .shp from D&U (export from flextables) to DanDas-xml because we already had a setup between DHI programs and DanDas-xml.



Bentley - WaterObjects.net

Current situation

- In the current release of ORD, it is possible to access the tool WaterObjects.net
- To use the program, you need programming and coding knowledge
- WaterObjects.net is an API (Application Programming Interface) which can read the Drainage or the Utilities database
- The database needs to exist as a file on your hard disc, so you need to use Export Drainage Submodel or Export Utilities Submodel to create the database (*.sqlite)
- The API can also write to the databases, but you would then need to import the Submodel to update the DGN

Bentley - WaterObjects.net

Next release(Hopefully)

- In the next release of ORD, a new API will be included, which makes it easier to read the Drainage or the Utilities database
- It can read either database directly from the DGN file, so you don't need to export a database first
- The new API can also write to the databases directly in the DGN file, so you don't need to import the Submodel
- Writing code is easier, because the new API has a simpler interface
- With the new API, it should be easier to export/translate Drainage & Utilities to other formats, such as excel, xml etc., and therefore it also should be possible to translate it to DanDas-xml.
- A "translator" setup for e.g., DanDas-xml could be setup between the Danish users and Bentley if there are support from the Danish users for this.
- See more on:
https://communities.bentley.com/products/hydraulics__hydrology/w/hydraulics_and_hydrology_wiki/17459/waterobjects-net---extending-the-capabilities-of-your-openflows-product

Questions?

D&U Sub Sig

Next meeting: 14th December 2022, at 13.00 – 14.00 (Teams)
Last planed meeting – normally every second month.

Send mail to jra@ramboll.dk if interested.