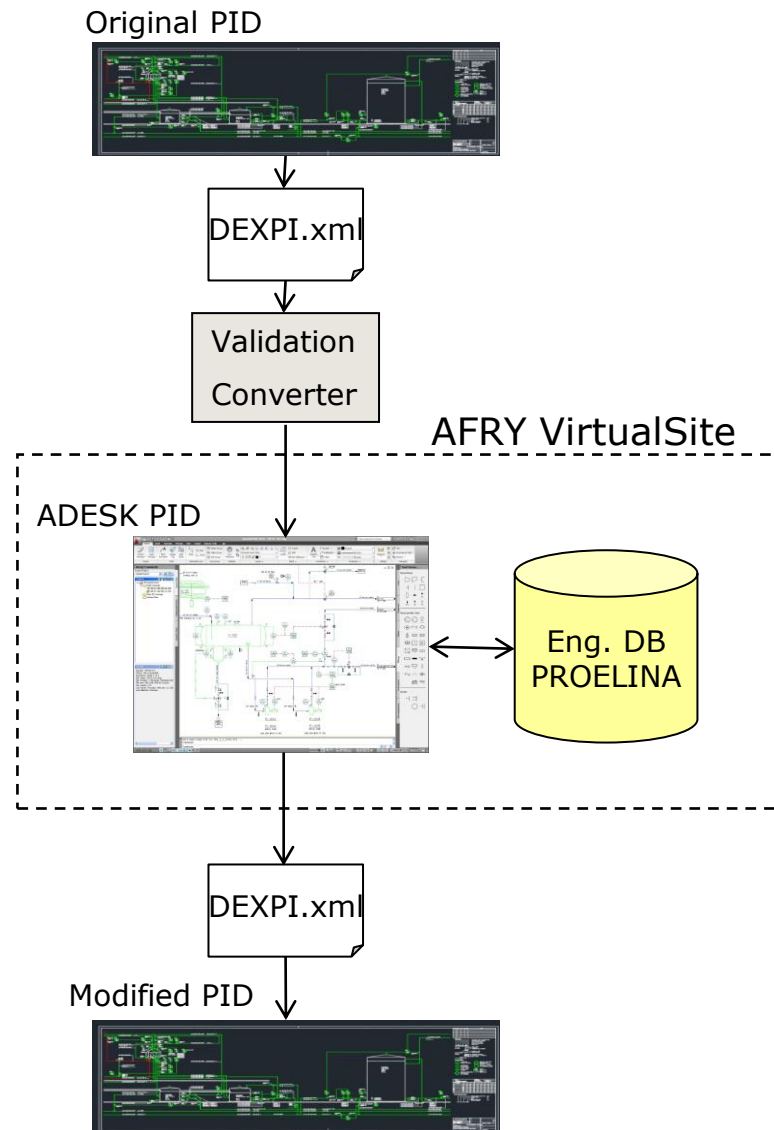


# DEXPI Pilot

Timo Syrjänen, AFRY

# AFRY DEXPI pilot setup



- Original PID in originating application
- Export DEXPI file
- DEXPIi file is transferred to AFRY
- DEXPI file is validated and possible conversion is executed
- If valid file it is imported to AFRY PID system
- AFRY is using VirtualSite application in engineering which digital twin of project located in premises or in cloud
- System includes engineering data (ProElina) and several engineering discipline applications
- Used PID Application (Autodesk PID) is connected to engineering database and data is transferred between systems
- AFRY DEXPI export/import application AFRY application as part of the VirtualSite toolset. Tool is designed to do correct mapping from standard DEXPI to map correct AFRY VirtualSite PID setup
- DEXPI file is exported from AFRY system and send to next participant

# ISSUES using DEXPI in pilot

- Generally graphics and data can be transferred
  - All symbols can be transferred using original system graphics
  - Some graphical features are missing (hatching, text properties, etc.)
- Connection between DEXPI objects
  - Connections must be correctly defined both between objects or in hierarchical level
  - Many connection types are hard to handle
  - Attribute connections needs to be right
- Mapping of DEXPI classing to used PID application setup
  - How to map DEXPI classes to correct ones requires knowledge and testing
  - Not all classes are found in both systems
  - Class levels do not match (class hierarchy is deeper in other systems)
  - How map data attribute mapping to correct DEXPI classes
- IMPORT/EXPORT tools
  - Tools do not work similar way
  - Some tools could read incomplete files and some require exactly defined files
- When transferring from/to is harder than one way
- **GENERALLY USING DEXPI IS HELPING AND IS RIGHT DIRECTION**

