

# MIMOSA Open Meeting 2022

## THTH review

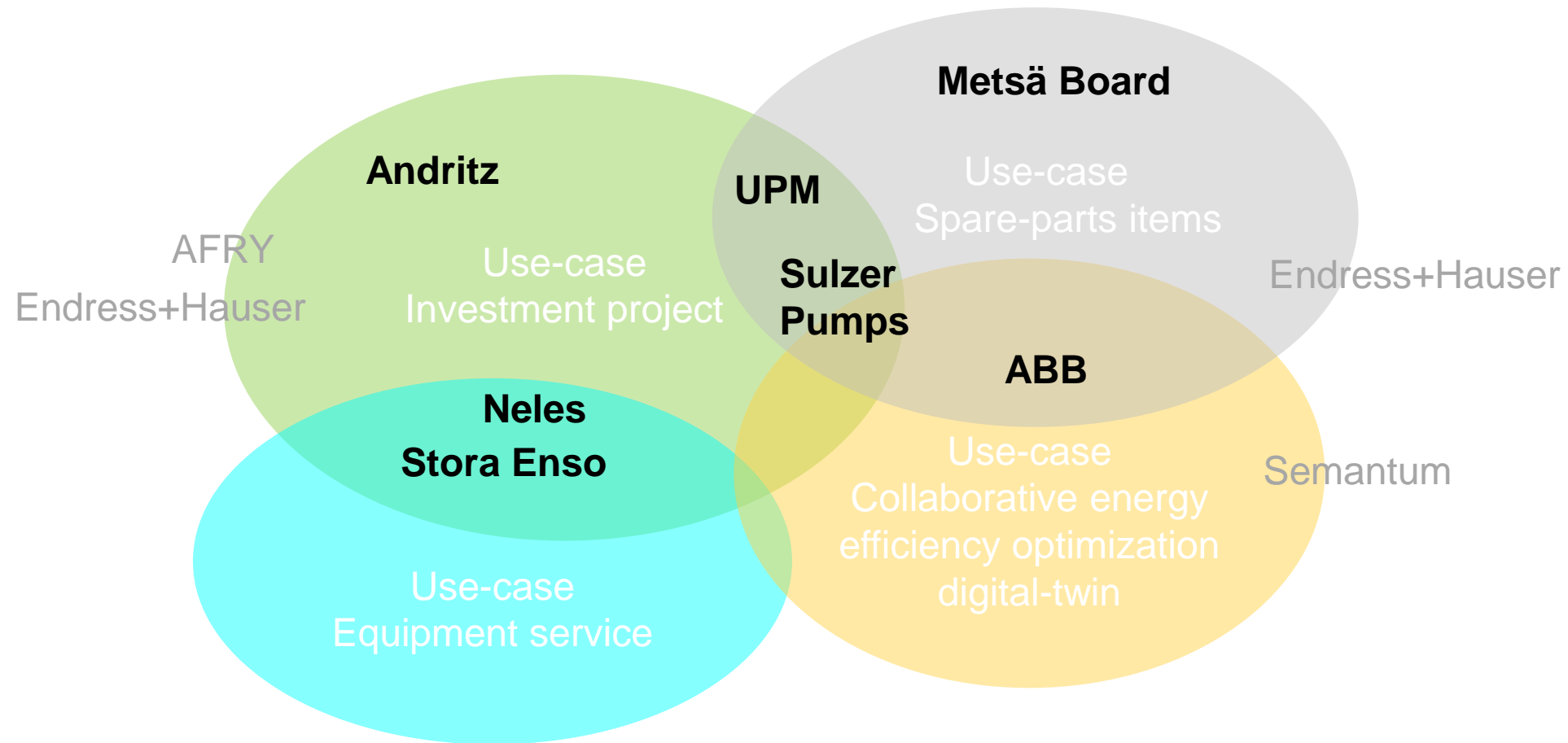
Arto Marttinen, THTH Association, Finland

## THTH briefly

- Non-profit industry association in Finland
- Currently about 35 member companies and other organizations
- Process industry supply-chain collaboration forum to promote digitalisation and digital-twin
- Simantics division
  - develop and maintain open-source code applications for modeling and simulation and for environmental lifecycle assessment and footprint calculations via its
    - SIMANTICS, Eclipse Public License EPL
    - SULCA Sustainability tool for Ecodesign, Footprints & LCA
- TIE division based on the TIE-project (11/2019 – 2/2022)
  - Promote and develop digitalization in investment projects and O&M based on existing standards
  - National and international standardization networks and collaboration (key partners SEIIA/Sweden, PCA/Norway, DEXPI/Germany, USPI/Netherlands, MIMOSA/USA, CFIHOS/IOGP and ISO & ISO (ISO/TC184))
  - New larger European joint project under preparation

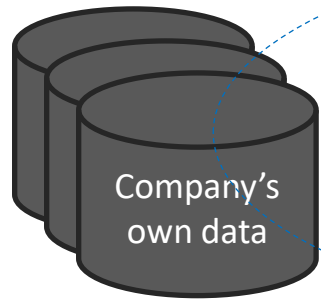


# TIE project – the use-cases

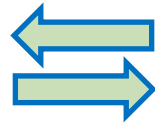


## TIE scope

### Enterprise scope



Direct back-end systems integrations



External network interface



Open Internet

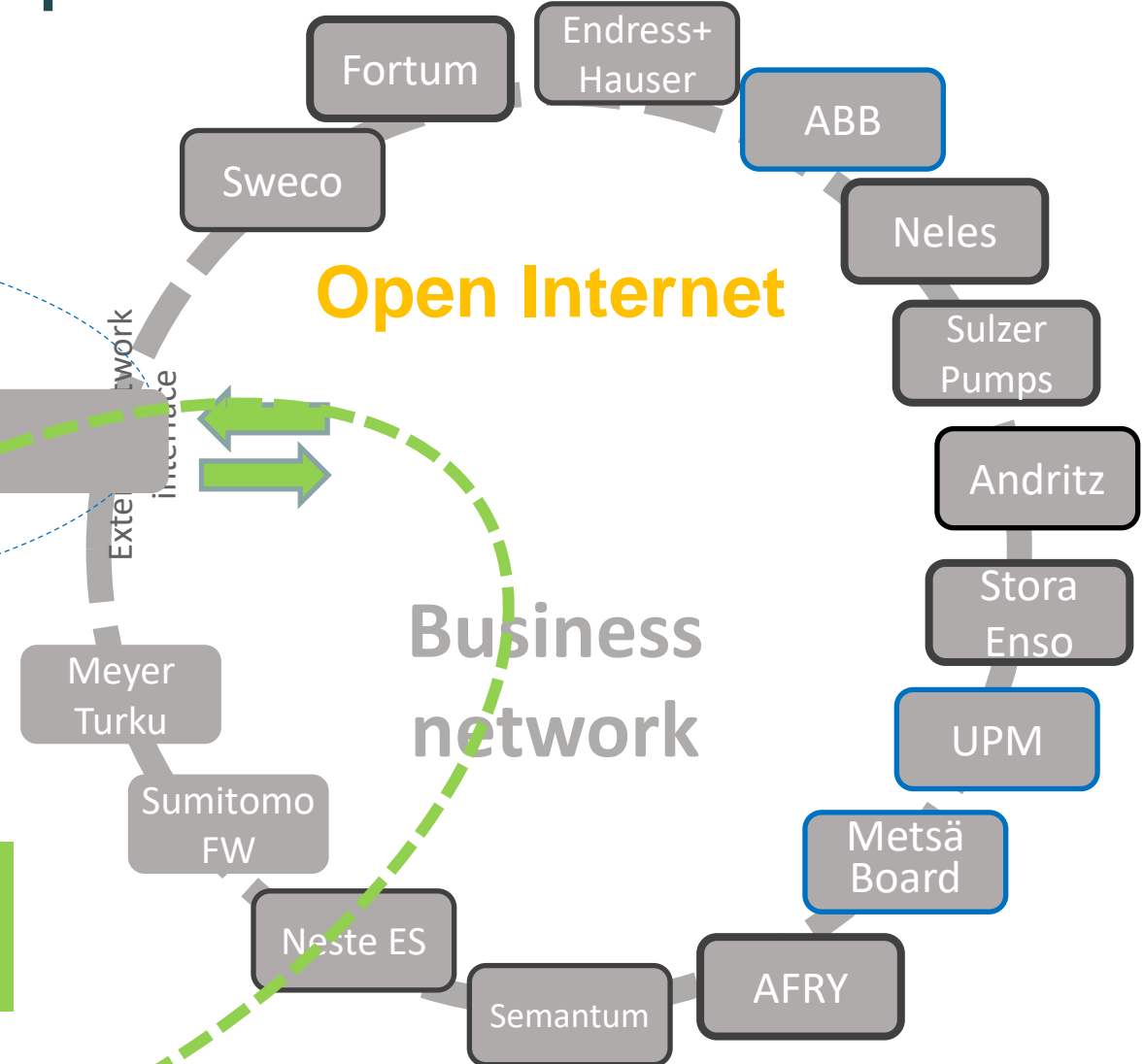
Business network

### TIE scope

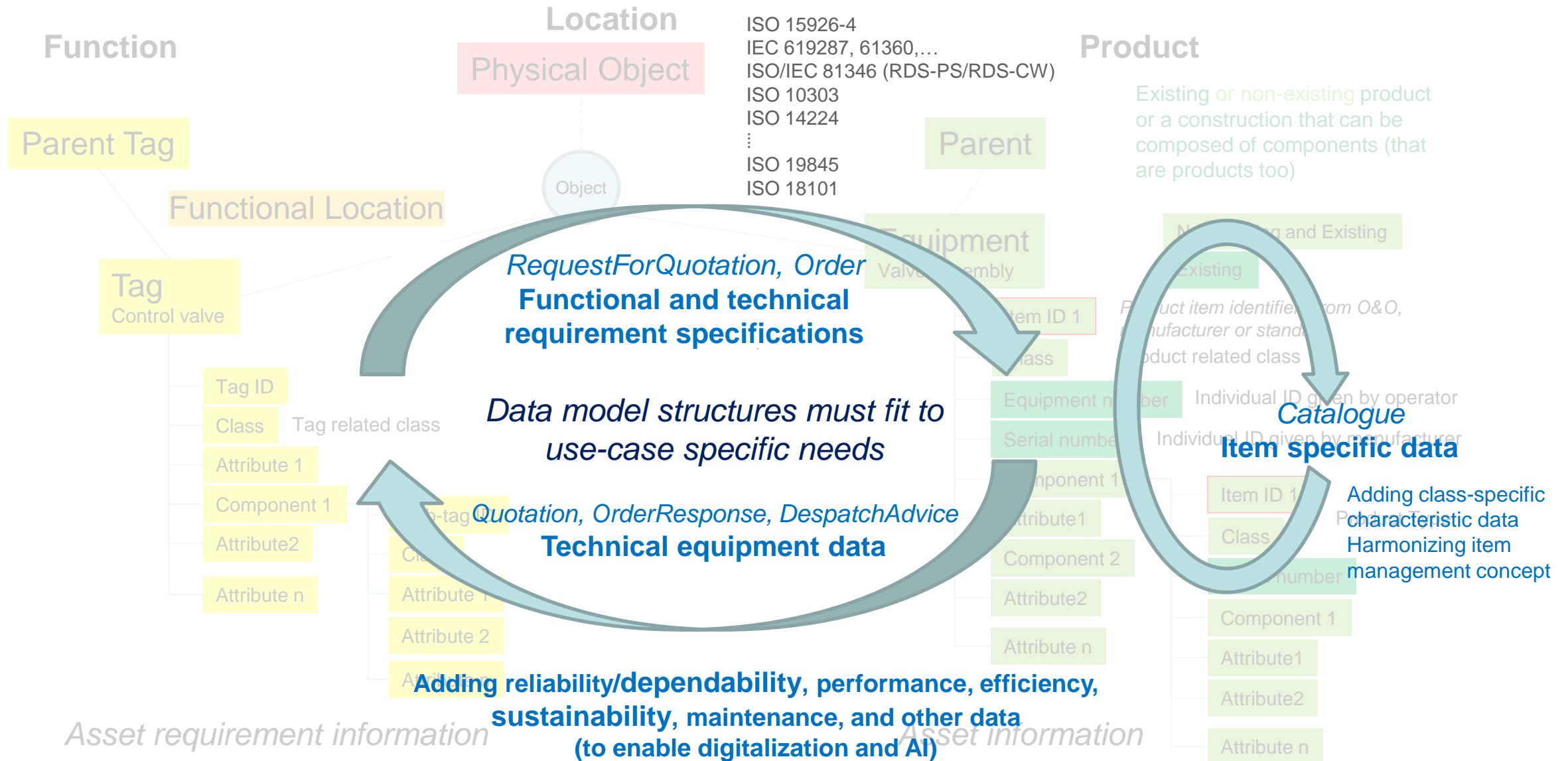
Specifications, templates, instructions, rules and principles



International standardization



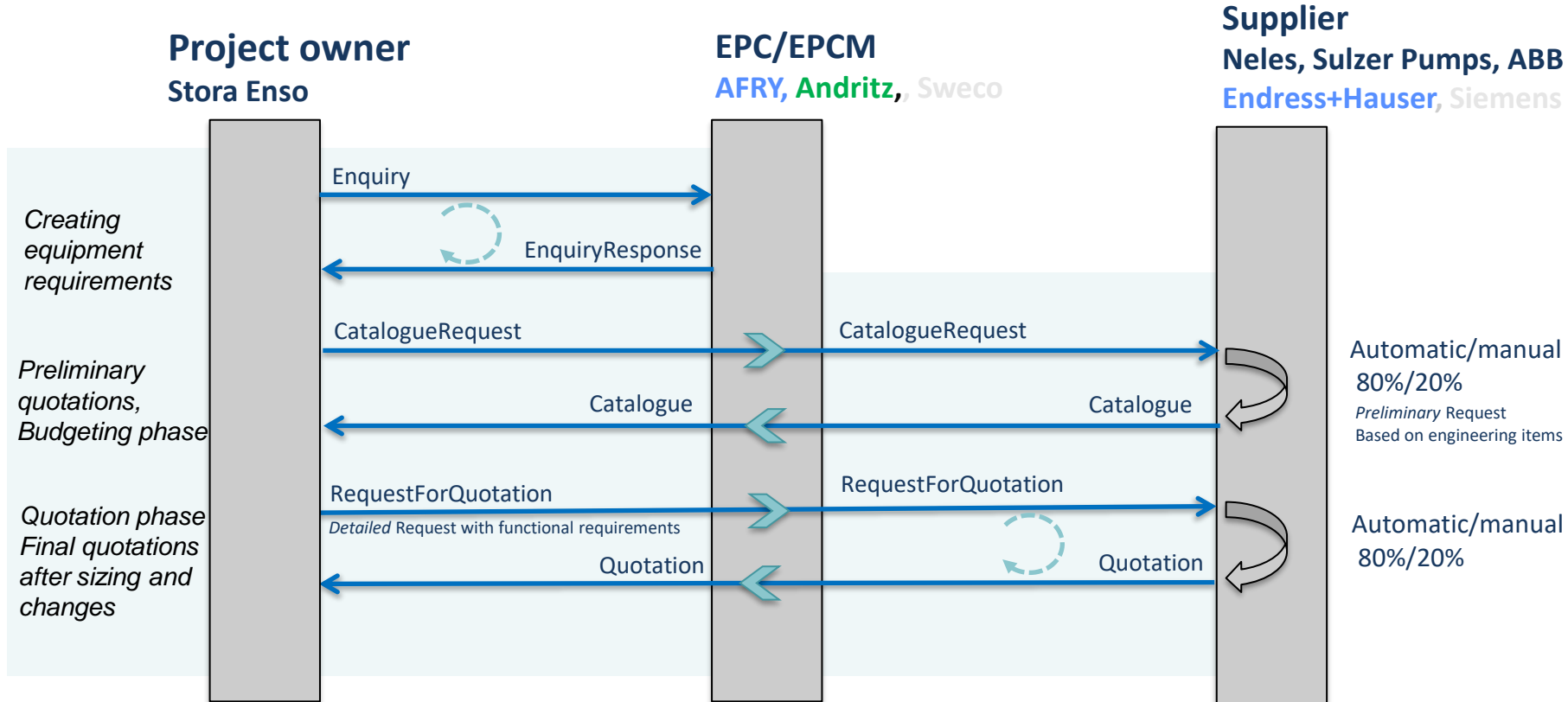
# Data Model Structures



# Quotation process elements

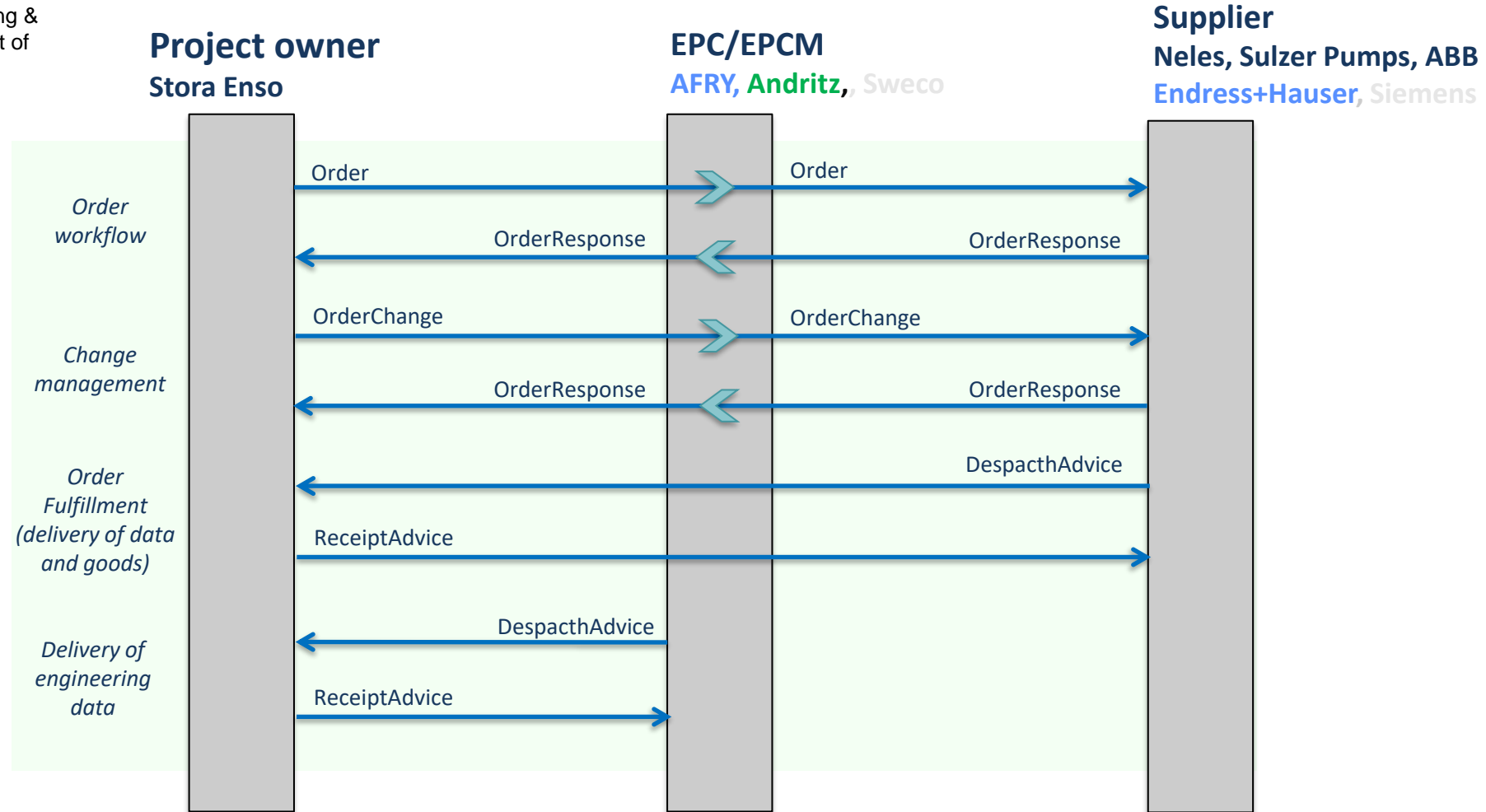
Front End Engineering & Design (FEED) is out of TIE scope

Quotation workflow



# Order/delivery process elements

Front End Engineering & Design (FEED) is out of TIE scope



# Workflow elements

Workflow element	Use-case	Business partner connection	Described
1. <a href="#">Enquiry</a>	Project	To engineering consultant	Yes
2. <a href="#">EnquiryResponse</a>	Project	From engineering consultant	Yes
3. <a href="#">CatalogueRequest</a>	Project, spare-part	To supplier	Yes
4. <a href="#">Catalogue</a>	Projects, spare-part	From supplier	Yes
5. <a href="#">RequestForQuotation</a>	Project	To supplier	Yes
6. <a href="#">Quotation</a>	Project	From supplier	Yes
7. <a href="#">Order</a>	Project, valve-service	To supplier or service provider	Yes
8. <a href="#">OrderResponse</a>	Project, valve-service	From supplier or service-provider	Yes
9. <a href="#">OrderResponseSimple</a>	Project, valve-service	From supplier or service-provider	No
10. <a href="#">OrderChange</a>	Project, valve-service	To supplier or service provider	No
11. <a href="#">DespatchAdvice</a>	Project, valve-service	From supplier or service-provider	Yes
12. <a href="#">ReceiptAdvice</a>	Project	From supplier	No

THTH

THANKS