

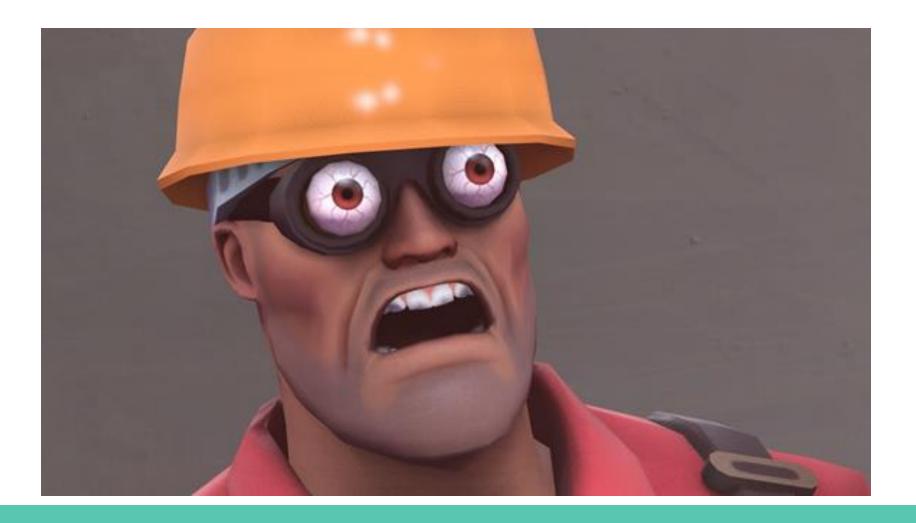
#### **ETIM Product Data**

An essential building block for the digitalised construction industry Learnings from Norway

Frank Jaegtnes
London, December 2nd 2019

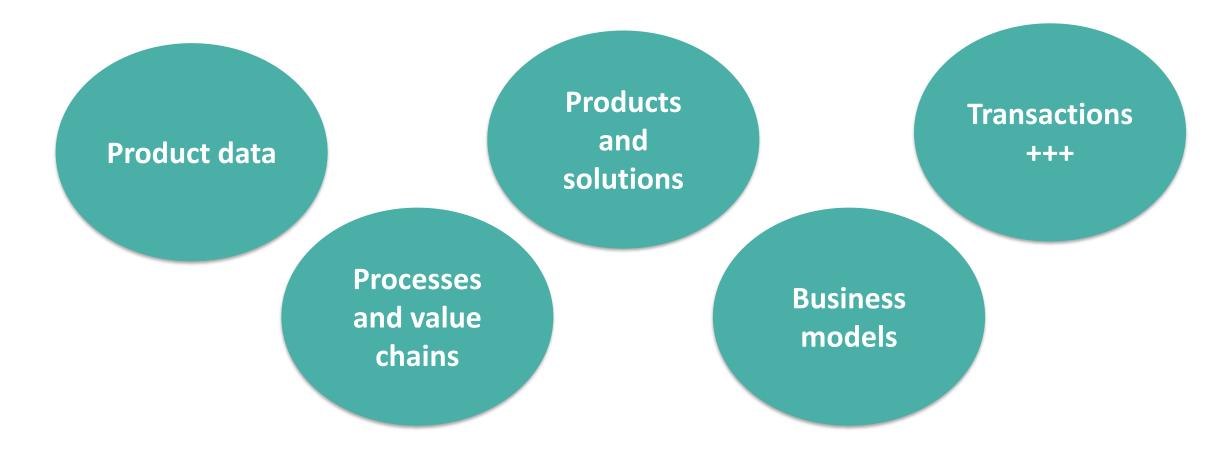


#### Everybody talks about digitalization in the constuction industry...





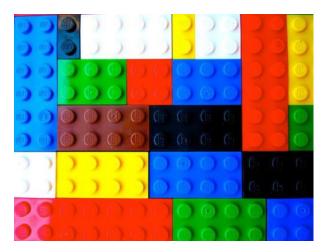
### Digitalization at many levels







Imagine Lego bricks..



...put into a system



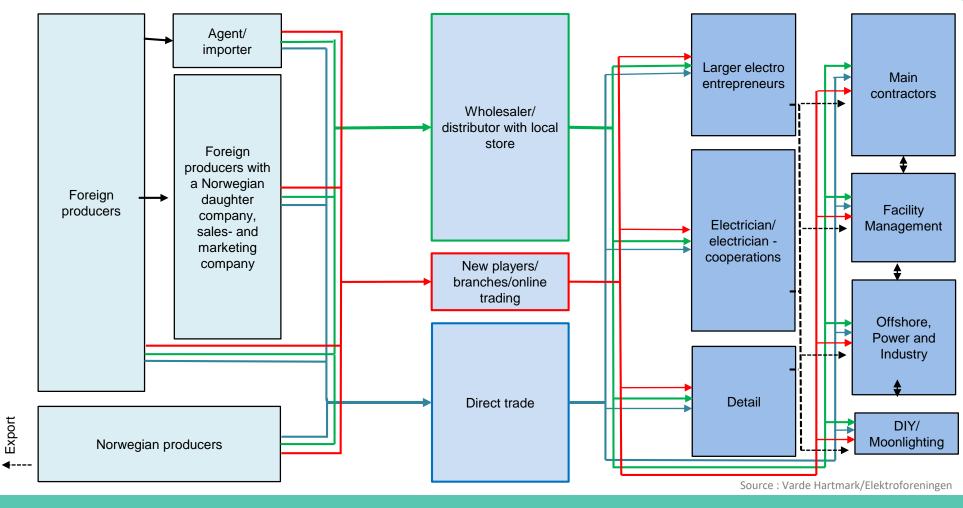


### The world of .pdf

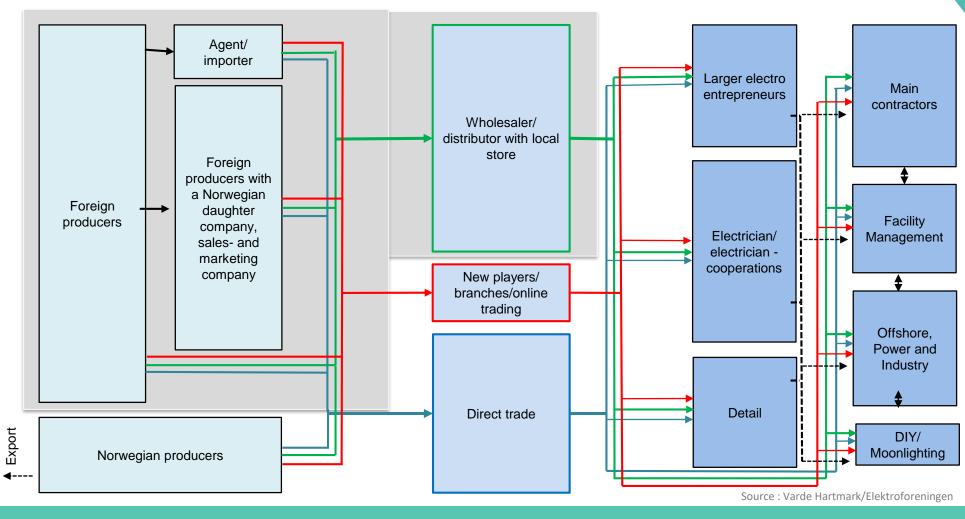
### Putting electricity to paper



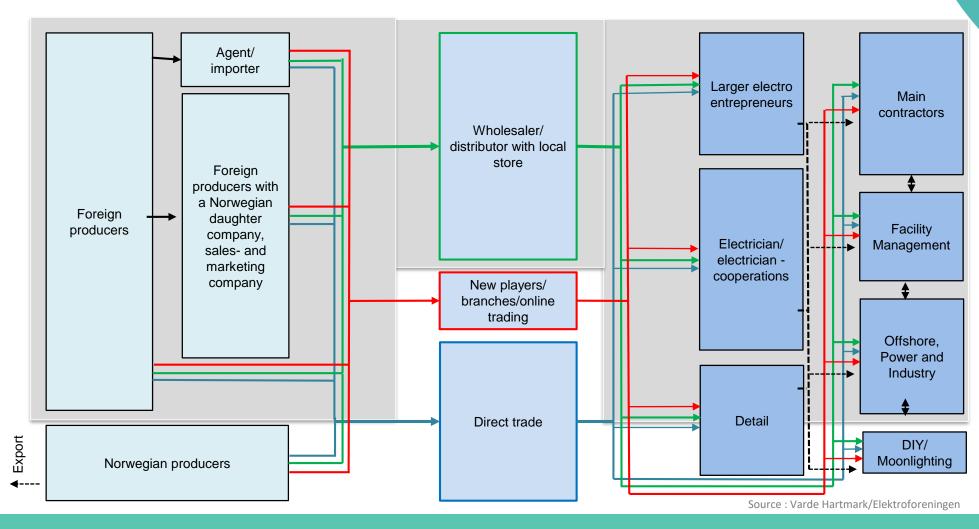




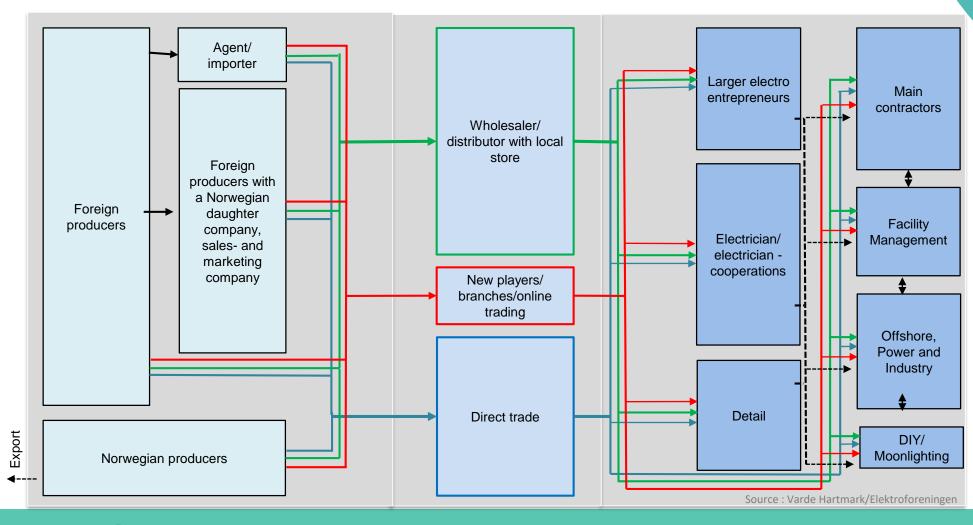














#### A missing digital link







A missing digital link



Contractors/
Entrepreneurs
and applications









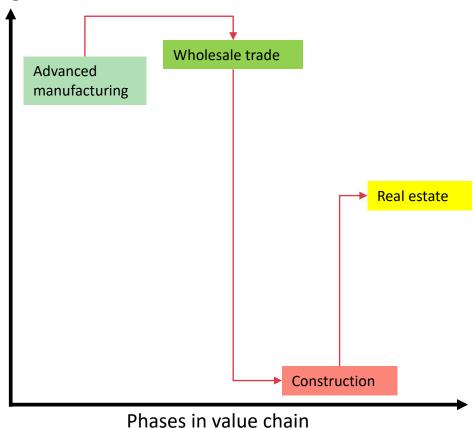
Suppliers and product info

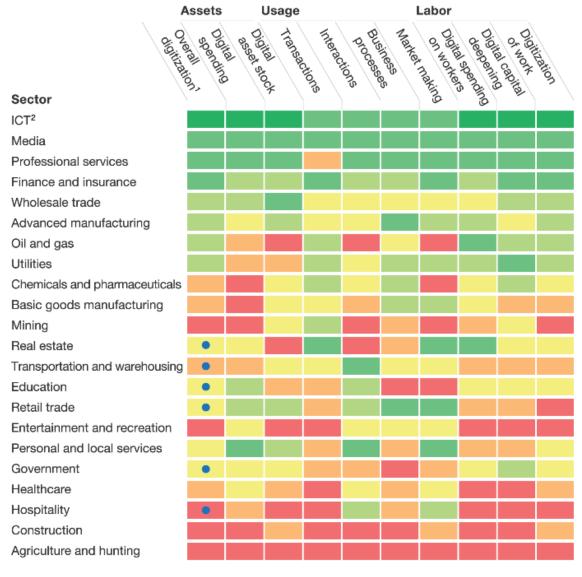




# Digitalization is lost and to some extent manually regained

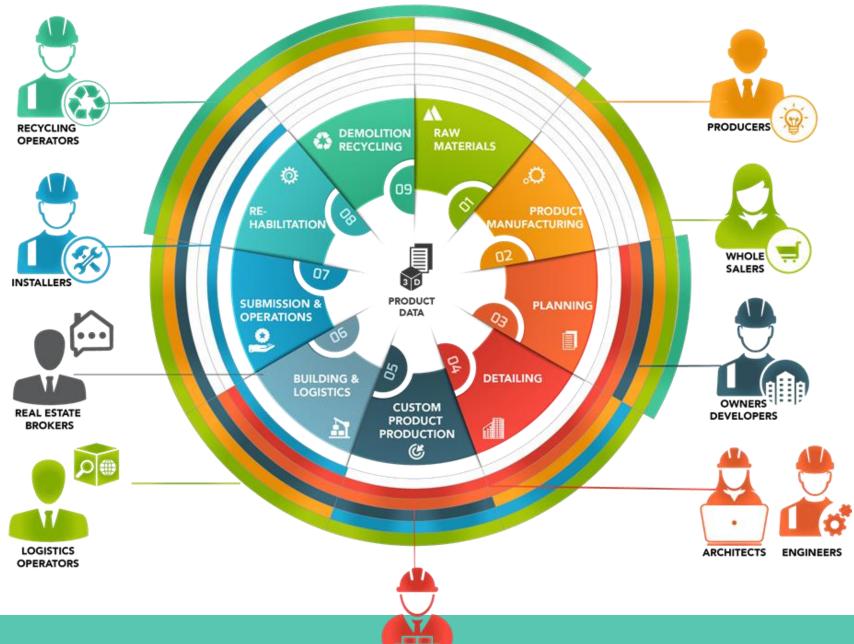
Level of digitalization





Source: McKinsey The construction industry is ripe for disruption (2016)





CONTRACTORS



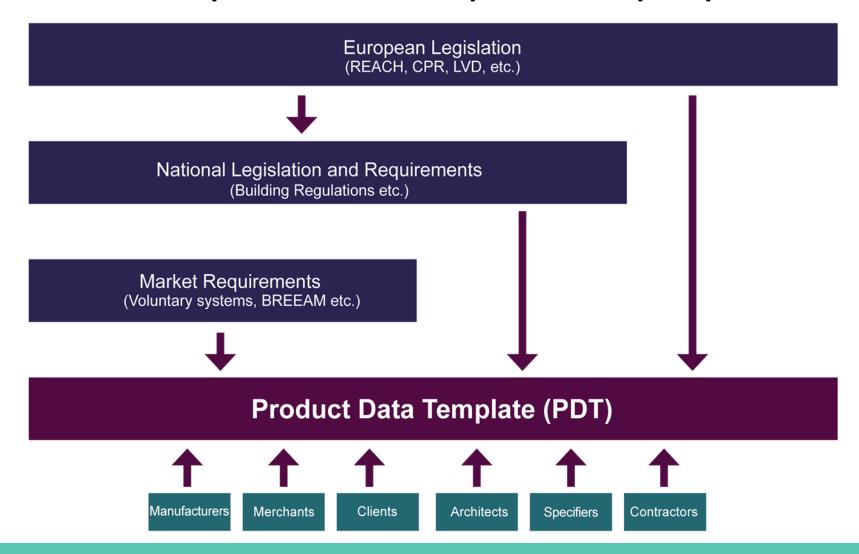


#### Construction Products Regulation (CPR)

- Lays down <u>harmonized rules</u> for the marketing of construction products in the EU
- Provides a <u>common technical language</u> to assess the performance of construction products
- Ensures reliable information is available to professionals, public authorities, and consumers, so they can <u>compare the performance of products</u> from different manufacturers in different countries



#### Where does requirement to product properties appear?





#### Need a open standardised way of describing products

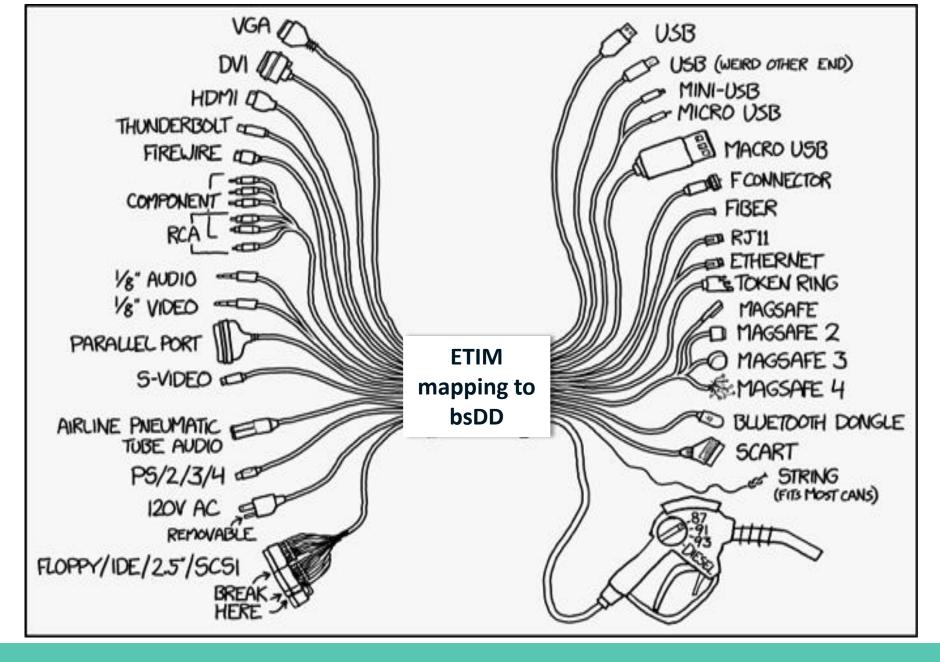






Access to more features/properties and huge amounts of real data







### We have mapped ETIM to bSDD and IFC

Enteties		
bSDD	ETIM	number of fields
Subject	Classes	4456
Properties	Features	13343
Value	Value	12720
Units	units	202
		30721







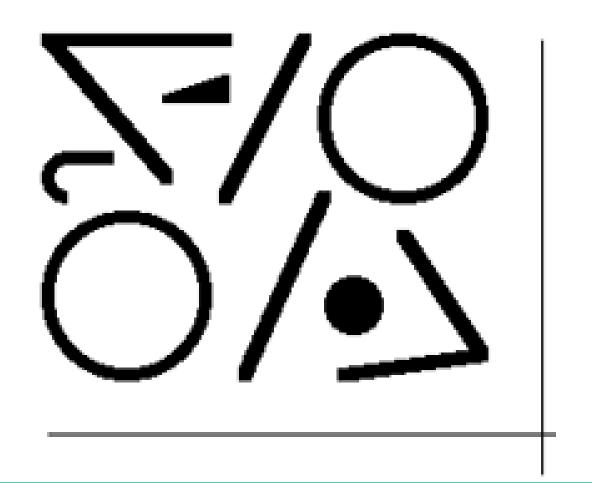


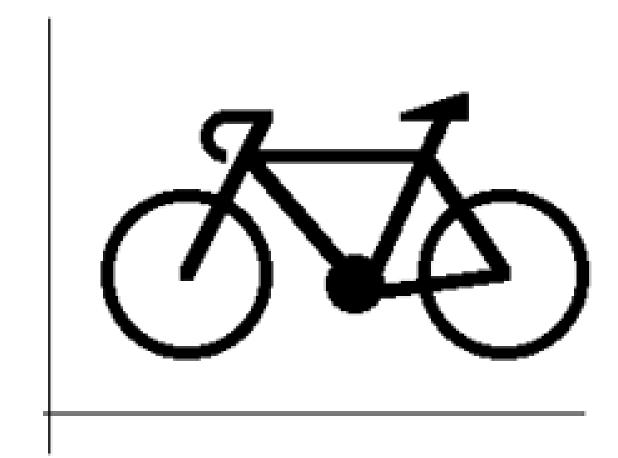




#### No context

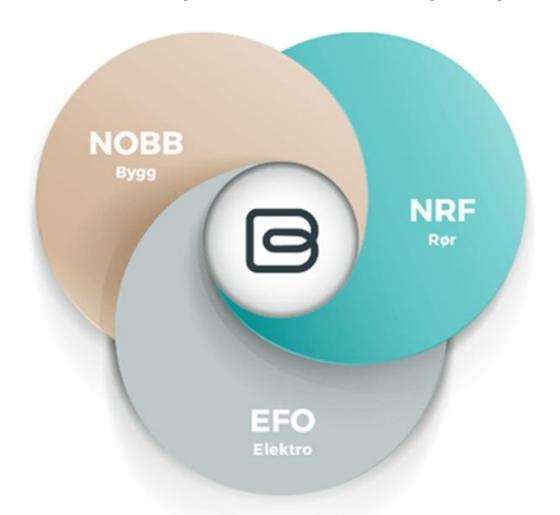
#### In a context







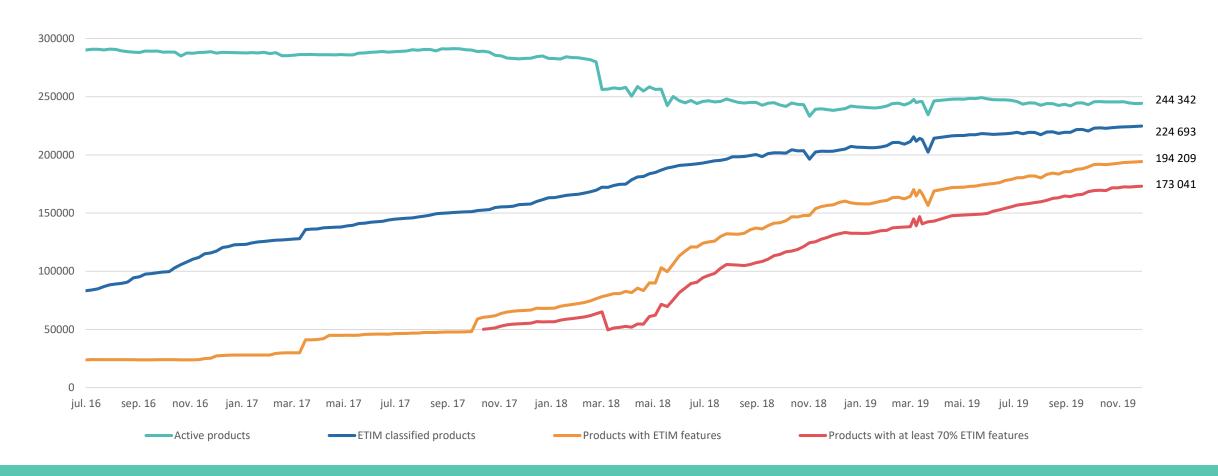
#### Industry databases prepared for a digital construction



- Open standardized product databases
- For free
- Available for all
- Includes required and relevant data
- Owned and quality assured by product owner

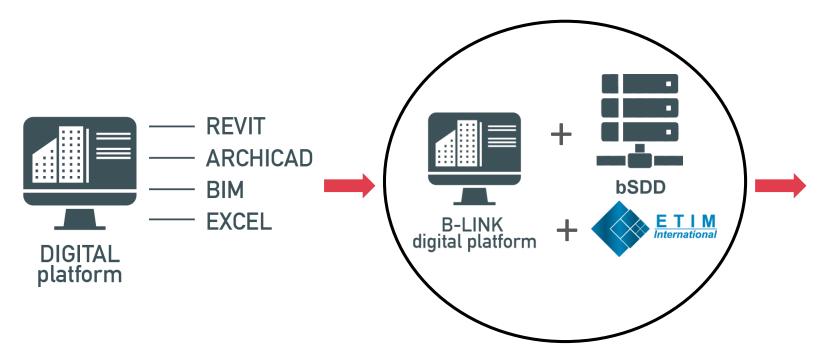


### Development of ETIM features in EFObasen





# Use of product information in BIM based on features





- 1. IDENTIFY PRODUCT PROPERTIES/FEATURES
  - BIM Systems
  - Procurement systems

- 2. SEARCH AND FIND PRODUCTS BASED ON
  - Technical properties/features
  - Environmental properties
  - Product number and GTIN

#### 3. PRODUCTINFORMATION

- Product data
- Documentation
- Properties/features



### **B-Link + ARCHICAD**

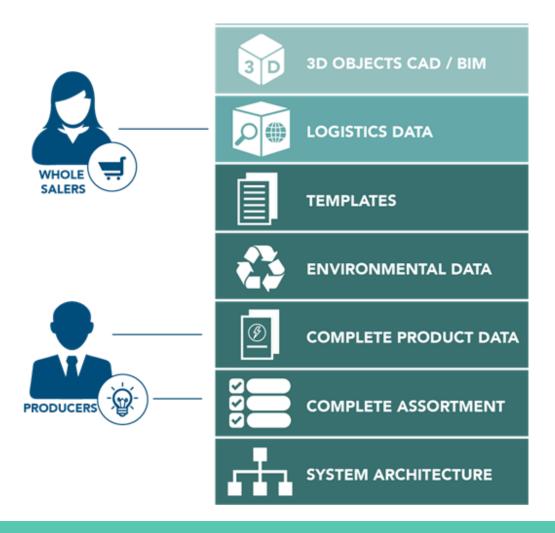


Direkte kobling med tilgang til all produktinformasjon som man finner i varedatabasene NOBB (Norsk Byggevarebase), EFO (Elektroforeningen) og NRF (Norske Rørgrossisters Forening)



### Key learnings





#### The role of EFObasen:

- Ensure complete, open and updated product information (ETIM/PDT) to be used by the whole value chaing
- Material data (EPD) to enable the circular economy
- Master database for the industry



#### DIGITALT VEIKART FOR BYGG-, ANLEGGS- OG EIENDOMSNÆRINGEN FOR ØKT BÆREKRAFT OG VERDISKAPING



 Varedatabasebe er sentrale i digitaliseringen av BAE-sektoren

- Nøkkelord:
  - Standardisering (ETIM/BuildingSMART)
  - Felles digital plattform
  - Digitalisere sammen



