ECLASS

ECLASS AND SMART CITIES

A STANDARDIZED TAXONOMY, TERMINOLOGY AND SEMANTICS FOR SMART CITIS
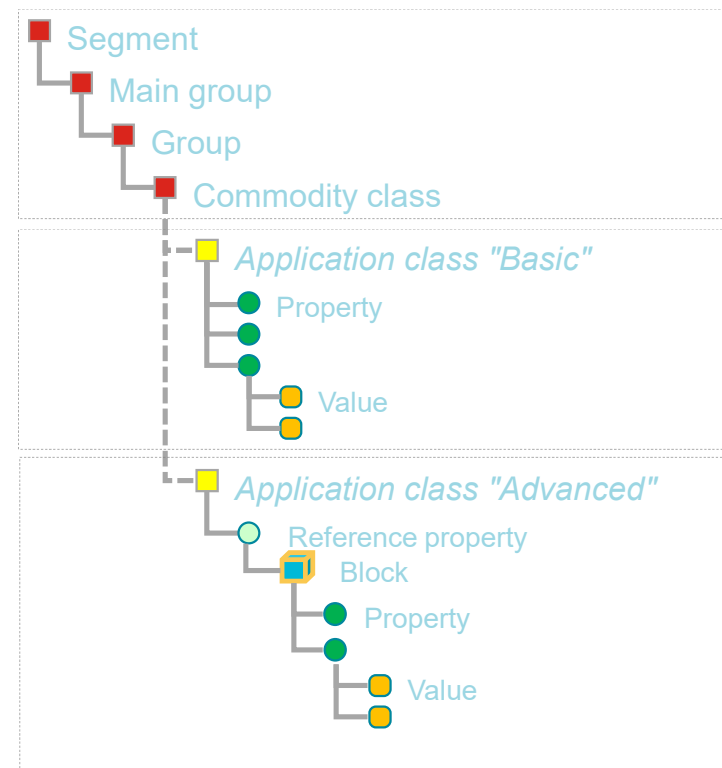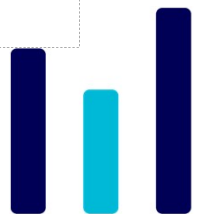
BASICS OF ECLASS

ЕCLASS

- ECLASS is a hierarchical standard for master data to classify and describe products and services
  - Classification tree over four levels
  - Properties at 4th level added
  - Values added to properties
  - Keywords at all levels

→ Semantic interoperability

Segment
Main group
Group
Commodity class

Application class "Basic"
Property

Value

Application class "Advanced"
Reference property
Block
Property

Value

based on slides from Class.Ing.

FACTS & FIGURES

☰ CLASS

~ 4.000 users

>19.000 properties

no expense with the translation and mapping of master data standardization

16 different languages

>44.000

~ 150 active members

7

global network of service providers

transparent and open development in releases

>80 cooperations with global leaders in CAx or with international standardization / system providers

since 2000

RDF GOAL AND PROCESS

ECLASS → **RDF** → Web of Things (WoT)
Thing Description (TD)

A specification for the
transformation to RDF is
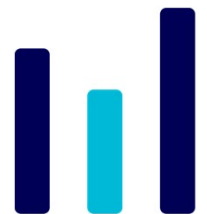currently under development

First use-case
and evaluation in the TD

ECLASS IS A VALUABLE TOOL

ΞCLASS

- A uniform language and definition for assets in a product
  - Easily extractable for recovery, recycling and retirement processes
- Established in companies that drive the global economy
- Extended and refined by experts – every year
- Standardised according to ISO and IEC
- Data model is following the IEC norm 61360
- Abreast of the latest technologies with Industry 4.0 and BIM

ΞCLASS

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