### RDS WORKSHOP DAY 2

10.12.2024



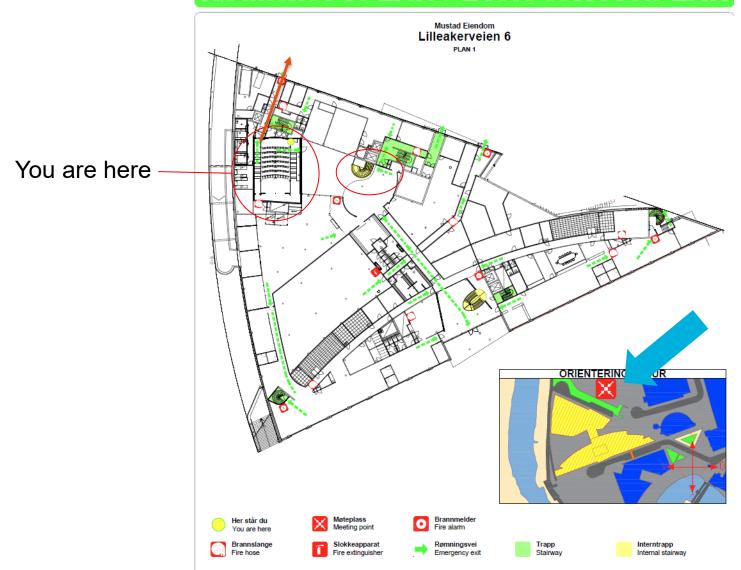




- Fire exits
- Meeting points



### **RØMNINGSPLAN / EVACUATIONPLAN**



### **Agenda**

- **101**
- Cases
- Lunch
- More cases





### 81346-101



# Repetition

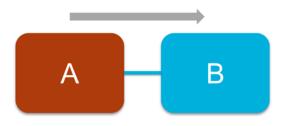


Figure 5-1— Illustration of the receiver ownership principle

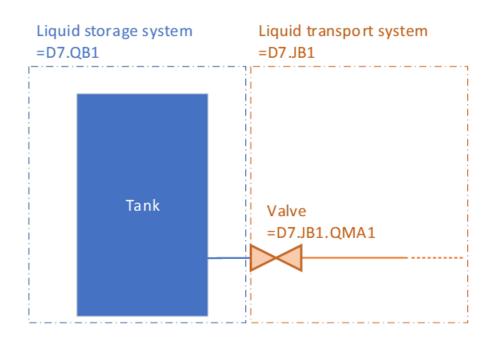
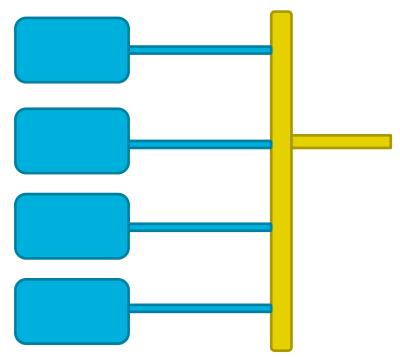


Figure 5-2— Example of the receiver ownership principle



### The exception: The collecting system principle

- Busbars
- Waterways







#### **QPS**

A tool used for digging

FHG

A tool used for saving princesses



Unit 1 Main Valve Bypass system Valve

=A1=KA1=JB2=QNA2

=A1.KA1.JB2.QNA2

Figure 5-5 - Preferred syntax

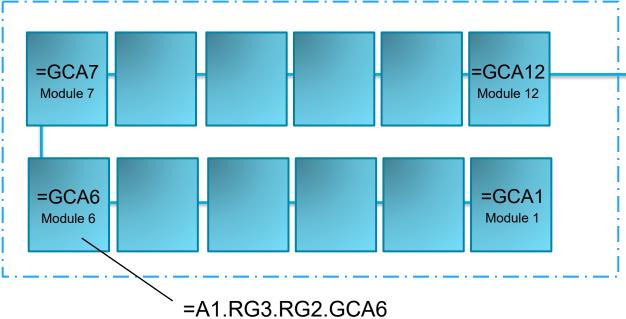


|Association|



### =A1.RG3.RG2

PV block 1, Generator 3 ("inverter system)", String 2

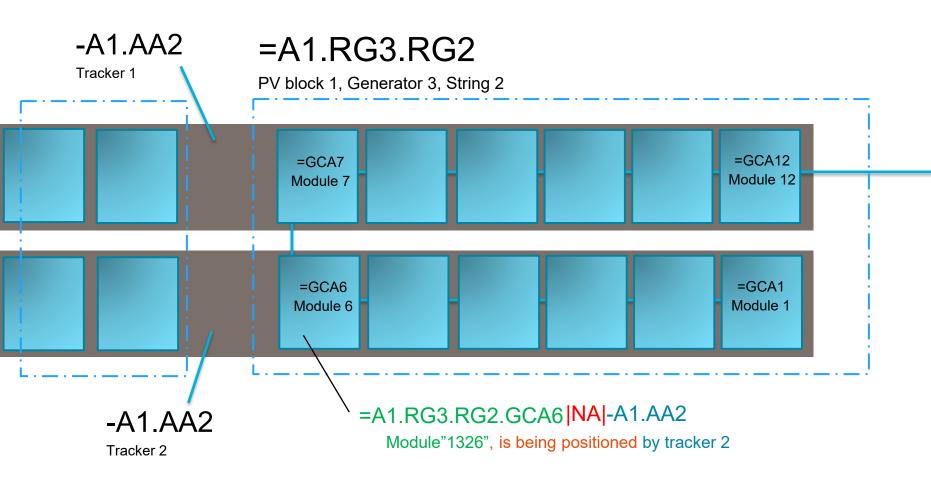












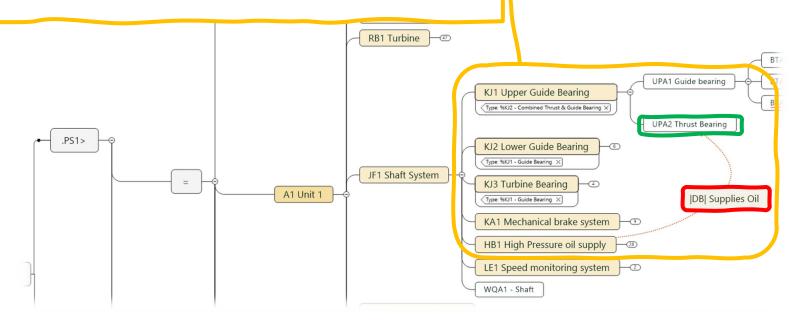


BG Set value signal transfer point where two systems affect each other for signal supply in the form of set value object set motor speed  C transfer of energy point where two systems affect each other for energy supply  D transfer of material point where two systems affect each other for material movement  E structural support point where two systems affect each other for structural support  F transport and routing point where two systems affect each other for provision of infrastructure support transportation infrastructure  G allocation of space point where two systems affect each other for provision of space point where two systems affect each other for field and potential interaction  B field and potential interaction point where two systems affect each other for field and potential interaction  J transfer of ionizing non-radiation point where two systems affect each other for supply of ionizing radiation  L transfer of ionizing radiation point where two systems affect each other for supply of ionizing radiation  M transfer of acoustic waves point where two systems affect each other for supply of ionizing radiation  M transfer of acoustic waves point where two systems affect each other for supply of ionizing radiation  NA Positioning point where a system affect another mechanically, by physically changing the position of the other, relative to an external reference  NB Guiding point where one system affects the other mechanically, by Lifting, pushing, hoisting, lowering affects the other mechanically, by Lifting, pushing, hoisting, lowering affects the other mechanically, by Lifting, pushing, hoisting, lowering affects the other mechanically, by Lifting, pushing, hoisting, lowering affects the other mechanically, by Lifting, pushing, hoisting, lowering the position of the other, relative to an external reference	1	Clas: v	Sub- class	Class name	Definition	Note/Example
AA Data transfer point where two systems affect each other for data exchange by means of software in the form of complex data supplied/exchanged  BA Alarm signal transfer point where two systems affect each other for signal supply in the form of alarm object the form of compand signal transfer point where two systems affect each other for signal supply in the form of command object the form of command object the form of command object point where two systems affect each other for signal supply in the form of command object started. The form of event object started signal is exchanged Eg. "Notor started start	2	A		Transfer of software		
by means of software in the form of complex data    Background   Backg			AA	Data transfer		Protocols, Device drivers, registers are
B transfer of signal point where two systems affect each other for signal supply in the form of alarm object the form of alarm object the form of alarm object the form of command object the form of indication object the form of powers signal supply in the form of	3				- I	
BA Alarm signal transfer point where two systems affect each other for signal supply in temperature high."  BB Command signal transfer point where two systems affect each other for signal supply in the form of command object point where two systems affect each other for signal supply in the form of command object point where two systems affect each other for signal supply in the form of event object point where two systems affect each other for signal supply in the form of indication object point where two systems affect each other for signal supply in the form of power signal point where two systems affect each other for signal supply in the form of power signal point where two systems affect each other for signal supply in the form of power signal point where two systems affect each other for signal supply in the form of power signal point where two systems affect each other for signal supply in the form of measuring object point where two systems affect each other for signal supply in the form of set value object and the form of		В		transfer of signal	· · · · · · · · · · · · · · · · · · ·	
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draging, pulling			NB	Guiding	point where one system affects the other mechanically, by	Lifting, pushing, hoisting, lowering
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### =A1.JF1.HB1|DB|=A1.JF1.KJ1.UPA1

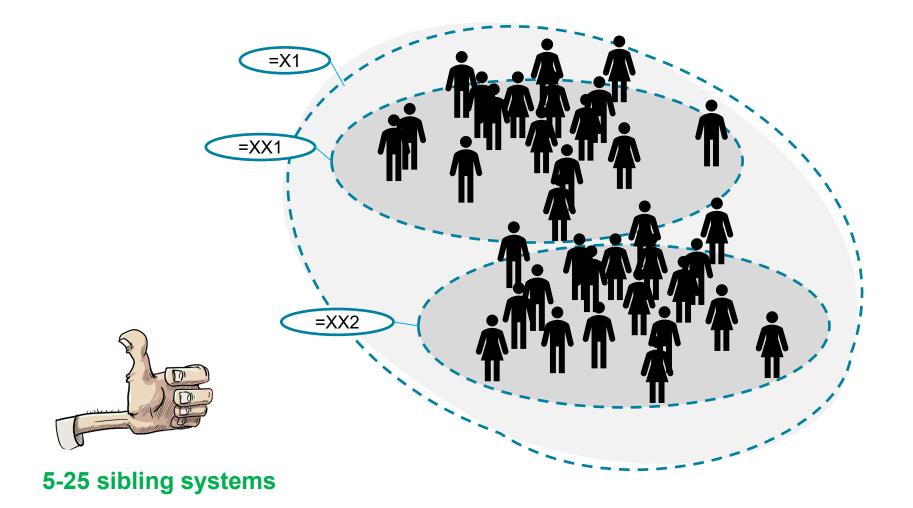
The unit HP Oil system supplies liquid matter to the unit thrust bearing



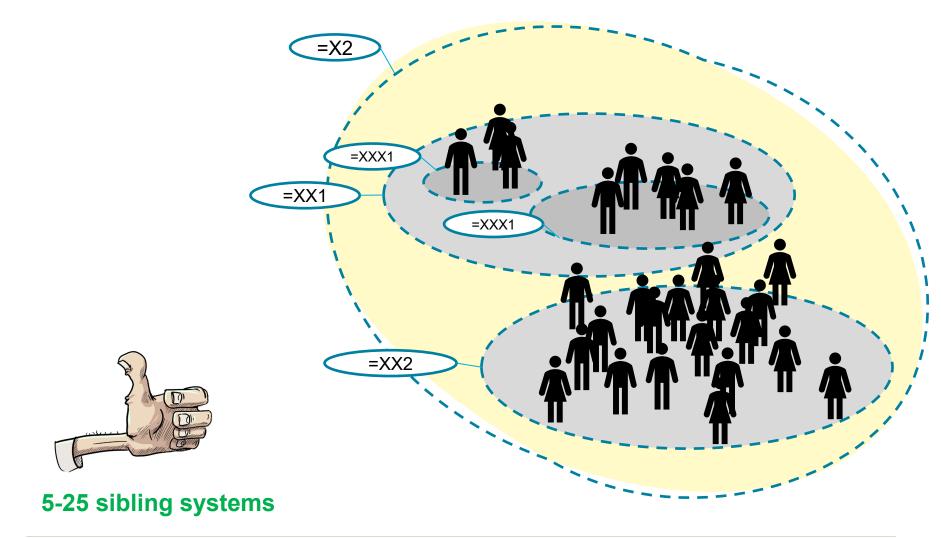


Modelling principles:

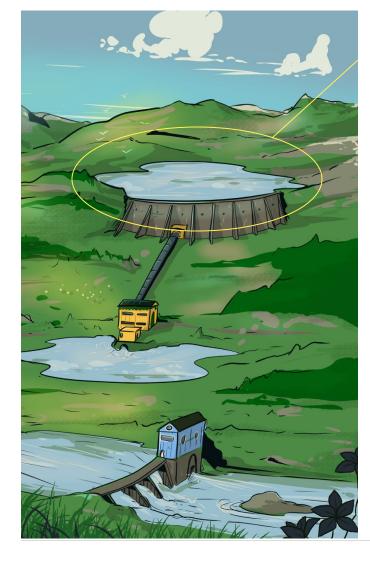
How many levels?











- -E1 (Reservoir 1)
- -E1.LE1 (Monitoring syst. 1)
- -E1.LE1.BLA1 (Level monitoring syst. 1)
- -E1.LE1.BLA1.BLA1 (Level sensor 1)
- -E1.LE1.BLA1.BLA2 (Level sensor 2)





### -E1 (Reservoir 1)

-E1

Only for level

monitoring

-E1 .BLA1 (Level monitoring syst. 1)

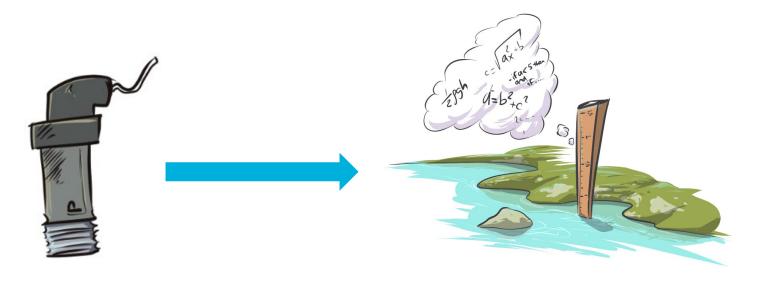
-E1 .BLA1.BLA1 (Level sensor 1)

.BLA1.BLA2 (Level sensor 2)



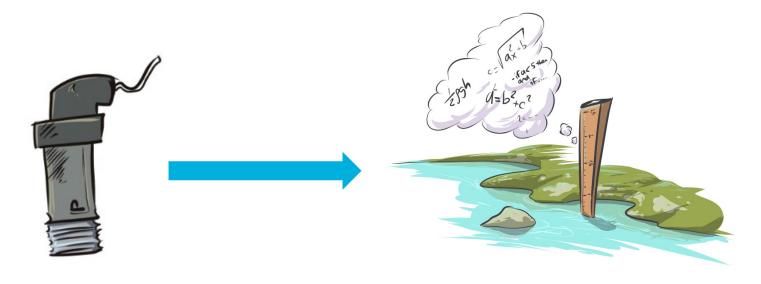


- -E1 (Reservoir 1)
- -E1.BLA1 (Level monitoring syst. 1)
- -E1.BLA1.BLA1 (Level sensor 1)
- -E1.BLA1.BLA2 (Level sensor 2)





- -E1 (Reservoir 1)
- -E1.BLA1 (Level monitoring syst. 1)
- -E1.BLA1.BPA1 (Pressure sensor 1)
- -E1.BLA1.BPA2 (Pressure sensor 2)





#### Annex D

(Informative)

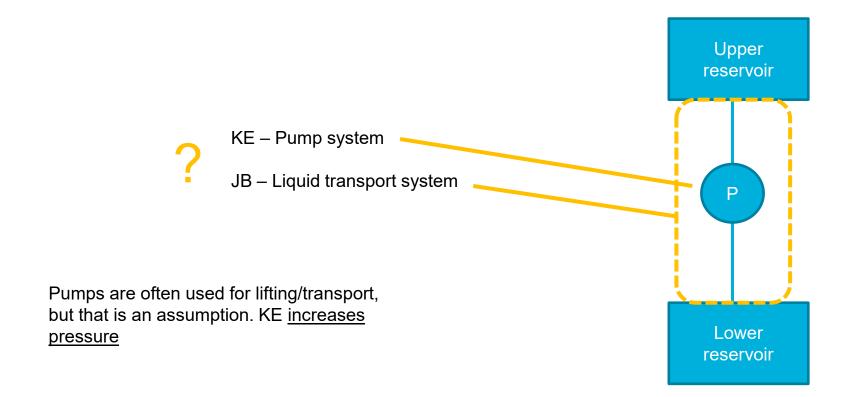
#### Classification of Association, suggested classes

	Sub-		
Class	class	Class name	Definition
A	Class	Transfer of software	Relationship where two systems exchange digital information
	AA	Software transfer	Relationship where two systems exchange software in the form of complex data
В		Transfer of signal	Relationship where two systems exchange signals and/or data
	BA	Event signal transfer	Relationship where two systems exchange signals and/or data in the form of an event
	ВВ	Control signal transfer	Relationship where two systems exchange signals and/or data in the form of a control
	ВС	Status information signal transfer	Relationship where two systems exchange signals and/or data in the form of indication
	BD	Measuring signal transfer	Relationship where two systems exchange signals and/or data in the form of measurements
	BE	Setting value signal transfer	Relationship where two systems exchange signals and/or data in the form of set values
С		transfer of energy	Relationship where energy flows between two systems
	CA	Electrical energy transfer	Relationship where energy flows between two systems in electrical form
	СВ	Thermal energy transfer	Relationship where energy flows between two systems in the form of thermal energy
	СС	Kinetic energy transfer	Relationship where energy flows between two systems in the form of kinetic energy
D		transfer of material	Relationship where matter flows between two systems
	DA	Gas material transfer	Relationship where matter flows between two systems in gaseous form



### This or that?

Modelling principles:





#### A battery system is:

- ☐ Electrical power supply (HD)
- ☐ Electrical energy storage system (QD)

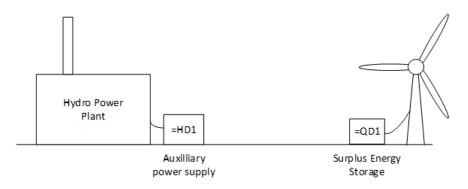


Figure 9-4 HD or QD illustration



### 10. Classification Guideline - CW

IV. Classification Outdening - CM



### Modelling principles:

### CW: Construction identification

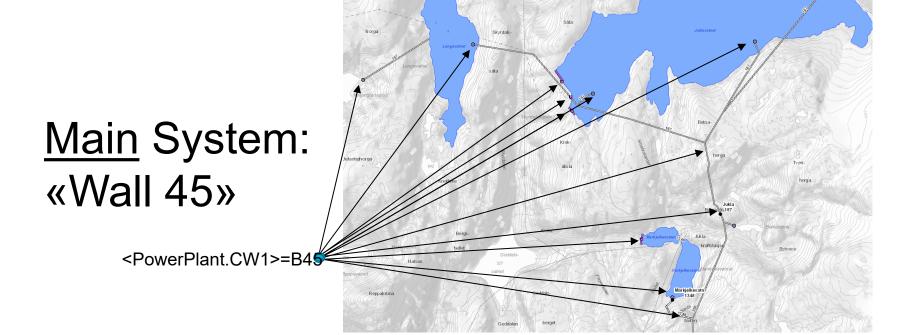


Α	Functional system transforming energy or energy carrier	Transforming system	
В	Functional system transporting electric power	Electrical transporting system	
С	Functional system transporting energy or energy carrier, excluding electric energy	Transporting system	PS
D	Functional system supporting the energy production process	Supporting system	
E	Functional system for collecting and storing energy for subsequent retrieval	Storing system	
F	Functional system managing energy supply and generation	Managing system	
G	Not to be applied	N/A	
Н	Functional system disposing residues or waste	Disposing system	E \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Н	- <i></i> '	



Space systems	
Α	Ground system
В	Wall system
С	Slab system
D	Roof system
Installations systems	
E	Gas and air system
	-
F	Water and fluid system
G	Drainage and waste system
Н	Cooling and/or heating system
1	
J	Ventilation system
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K	Electrical system
L	Automation system
M	Information and communication
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### Main System: «Wall 45»

<PowerPlant.CW1>=B45 (Wall between the lavatory and the main hall)



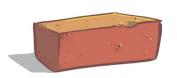


Main System



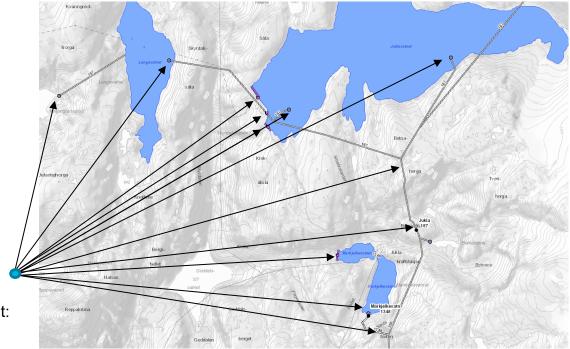
Sub-system











We need something to identify the conctruction entities around the plant:

"Construction-ID"



Space systems	
Α	Ground system
В	Wall system
С	Slab system
D	Roof system
Installations systems	
E	Gas and air system
	-
F	Water and fluid system
G	Drainage and waste system
Н	Cooling and/or heating system
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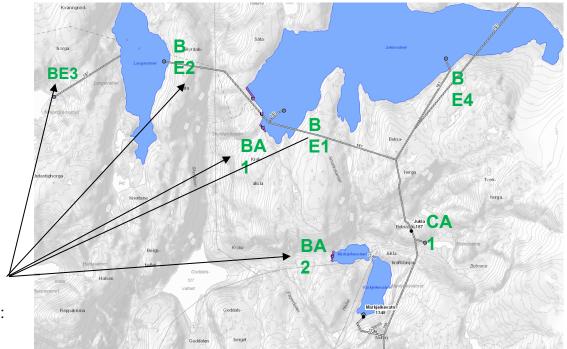
## 81346 already has classes to identify construction entities. It is used for the ++ site of location aspect!

<b>B</b> _		Entity preventing matter from spilling or flowing in an open environement	Dam
	ВА	Entity preventing matter from spilling or flowing in an open environement	Dam
	ВВ	Entity guiding matter in a closed environement	Piping
	ВС	Entity guiding matter in a open environement	Canal
	BD	Eontrol entity adjusting matter level	Sluice system
	BE	control entity controlling a flow of matter	Gate
D_		Construction entity for storage	Storage facility
	DA	storage entity for resources	Materials store
	DB	storage entity for moveable technical equipment	Equipment entity (garage)
	DB DC	storage entity for moveable technical equipment  Storage entity outside of a building	
			entity (garage)  Open outdoor
	DC	Storage entity outside of a building storage entity for liquids, gas or masses in sealed	entity (garage)  Open outdoor storage facility
C_	DC DD	Storage entity outside of a building storage entity for liquids, gas or masses in sealed environment	entity (garage)  Open outdoor storage facility  Silo



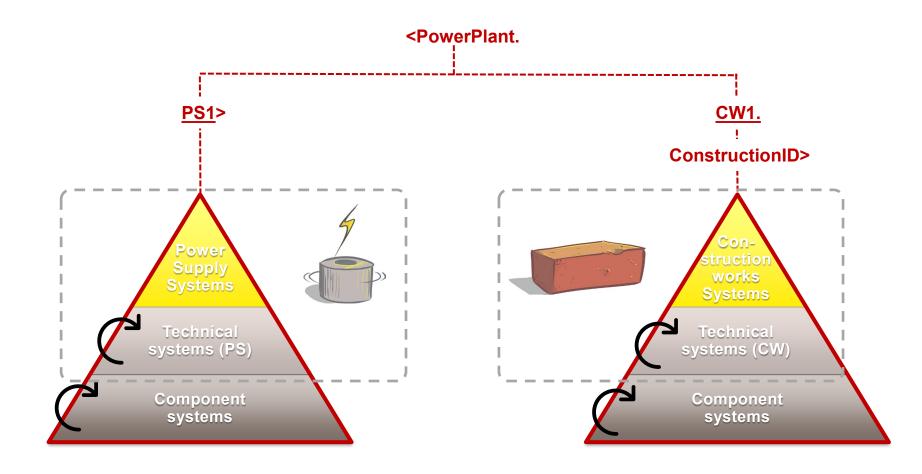
Space systems	
Α	Ground system
В	Wall system
С	Slab system
D	Roof system
Installations systems	
E	Gas and air system
	-
F	Water and fluid system
G	Drainage and waste system
Н	Cooling and/or heating system
1	
J	Ventilation system
	-
K	Electrical system
L	Automation system
M	Information and communication
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We need something to identify the conctruction entities around the plant: "Construction-ID"







### And we're off, CASES!!

Modelling principles:

Finaly

### Confession time



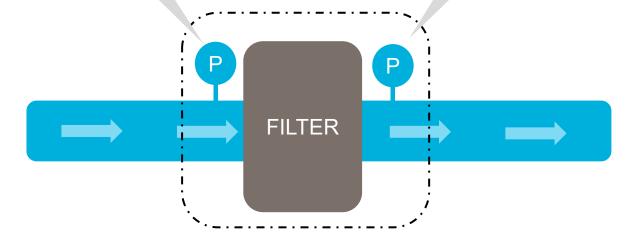
Instantiation (numbering) shall not hold any meaning

### BPA1

Pressure measurement upstream

### BPA2

Pressure measurement downstream







### =A1.KA1 (MIV) =A1.KA1.BPA11 =A1.KA1.BPA21 =A1.KA1.BPA12 =A1.KA1.BPA22 =A1.KA1.BTA1 =A1.KA1.BTA2 Valve





