






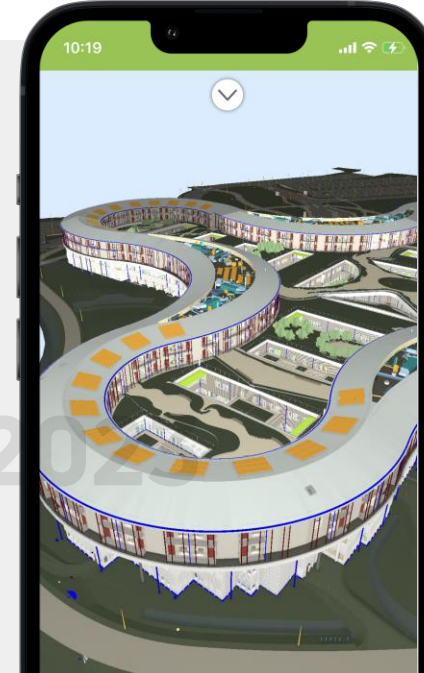
Delivery phase to Management Phase

How to ensure success through openBIM principles



User-friendly, mobile BIM software
for Construction and Facility Management

	Box	Design
	Tender	
	Field	Construction
	Handover	
	FM	



Powered by
**World's
Fastest
BIM
Viewer**

700k+
USERS

30+
OFFICES

**One
Platform**
for your
Project



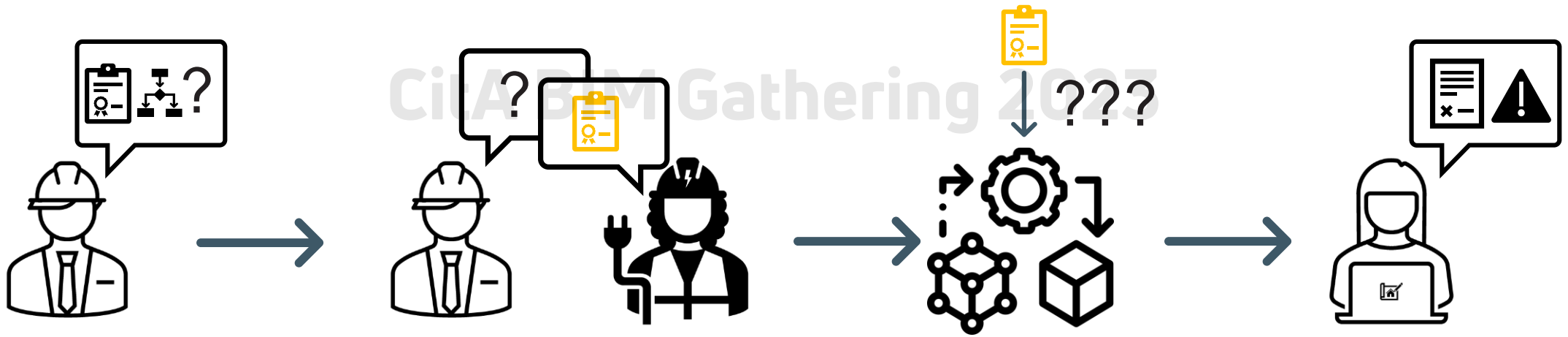
Danish
Software
Company
Founded in
2005

We make **complicated** things **easier to**
use

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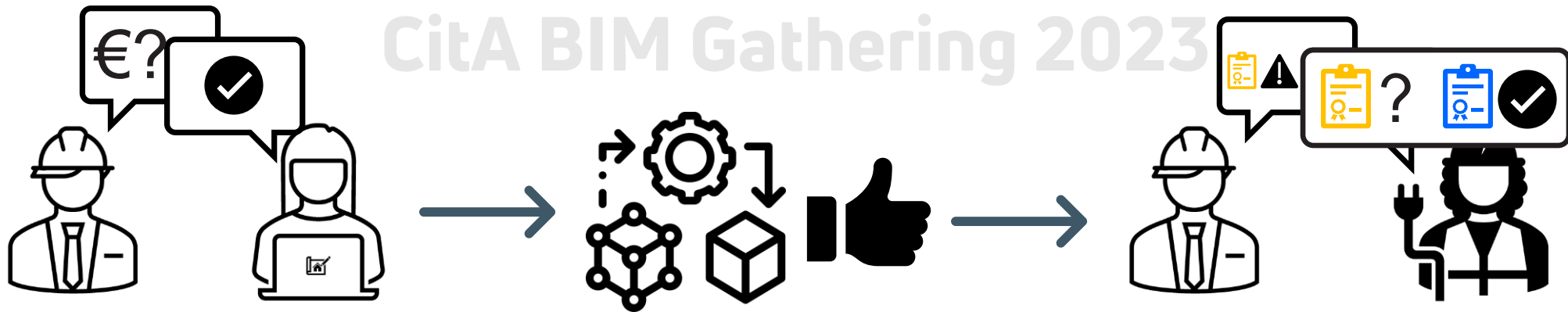
Before we begin...

Whilst I will be showing capabilities within Dalux, the **important thing is the concepts** I am speaking of.





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Why is this such a common issue?

Inadequate communication of needs to relevant parties

Complicated/Cumbersome processes

Inability to interact with the data (both input and output)

Software which is **not interoperable** and difficult to use

Or in other words...

Communication and Interaction

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and the lack thereof...

If you **don't understand** what to do or **can't work** with the system(s), how can you **handover what they want?**

The openBIM Principles

Interoperability

Open

Sustainability

Collaboration

Flexibility

Reliable

The openBIM Principles

Interoperability

Open

Sustainability

Collaboration

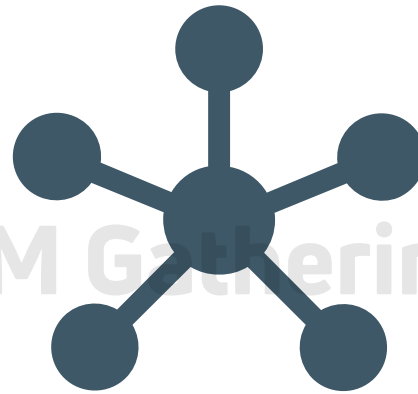
Flexibility

Reliable

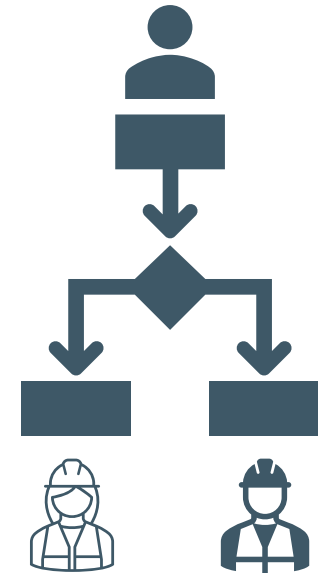
Interoperability powering Flexibility



Interoperability



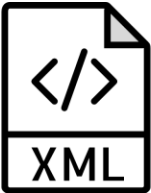
Flexibility of systems used



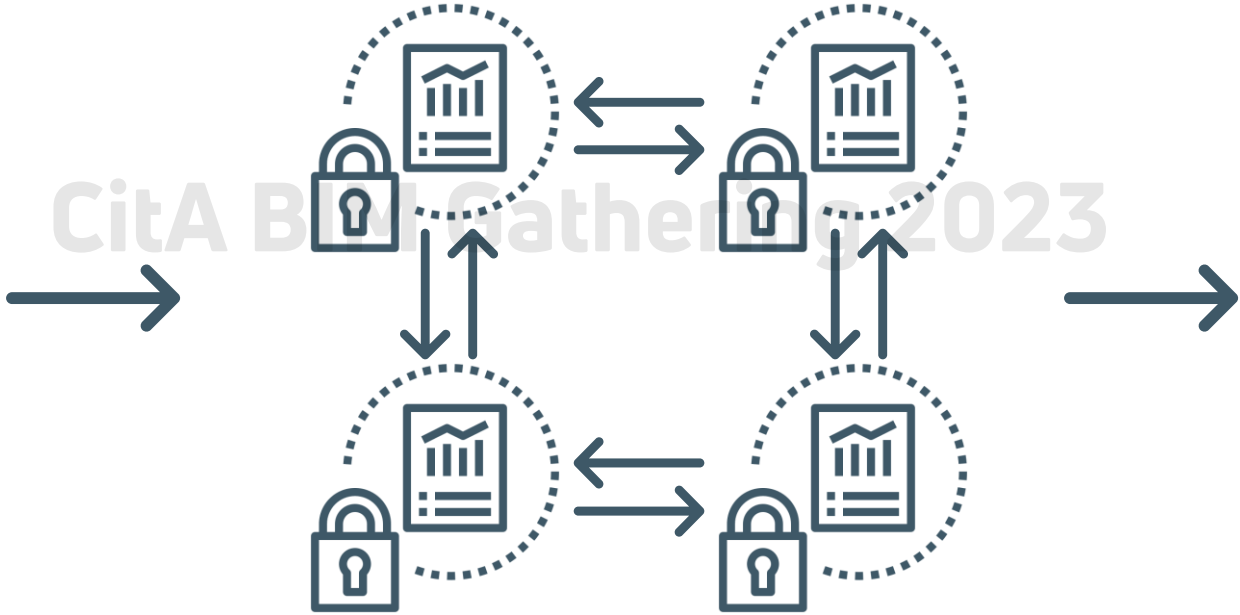
Hierarchy of requirements

CitA BIM Gathering 2023

Interoperability powering Flexibility



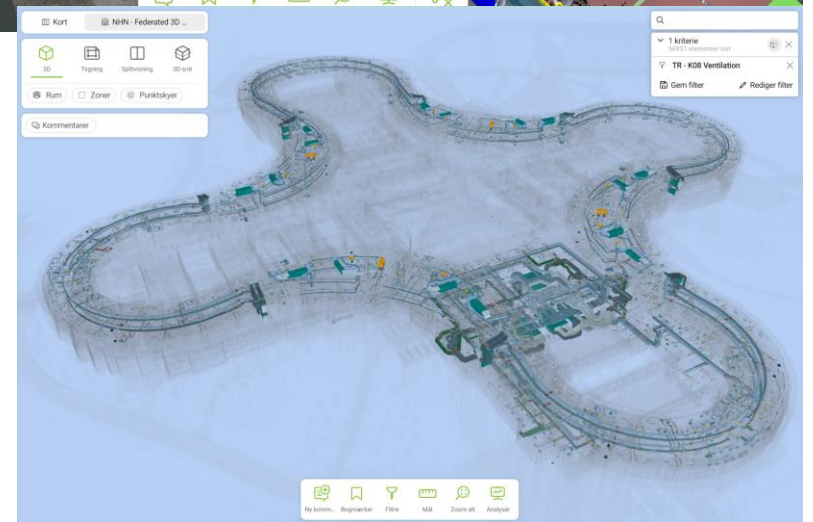
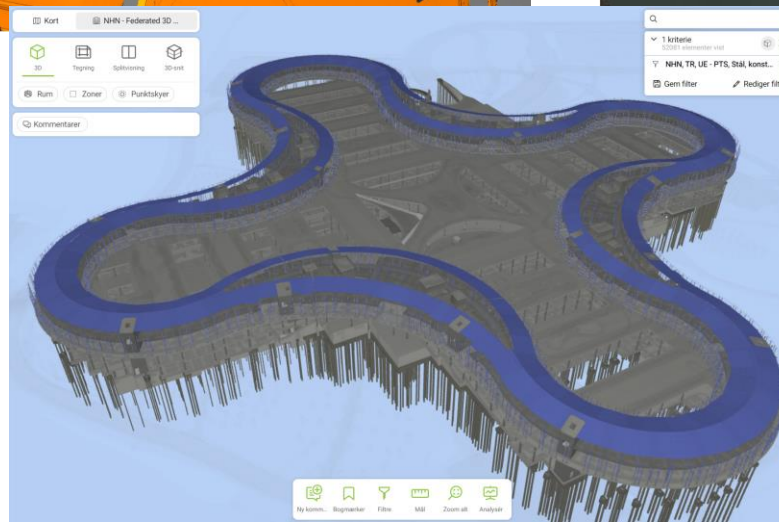
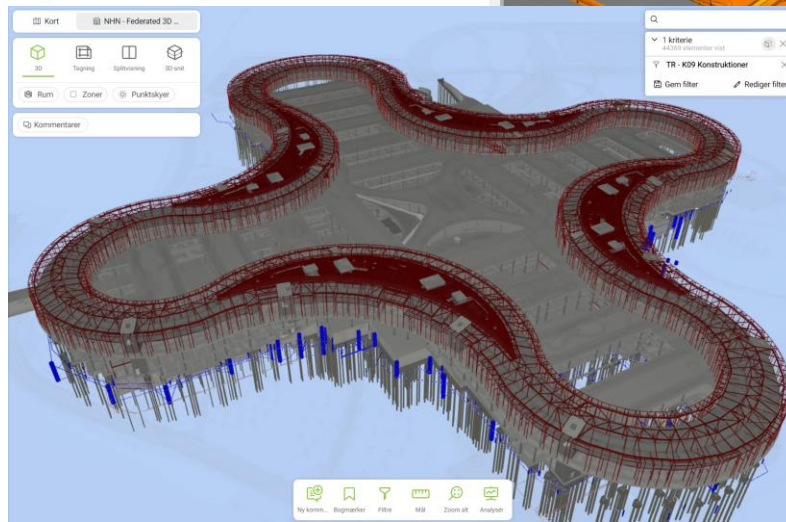
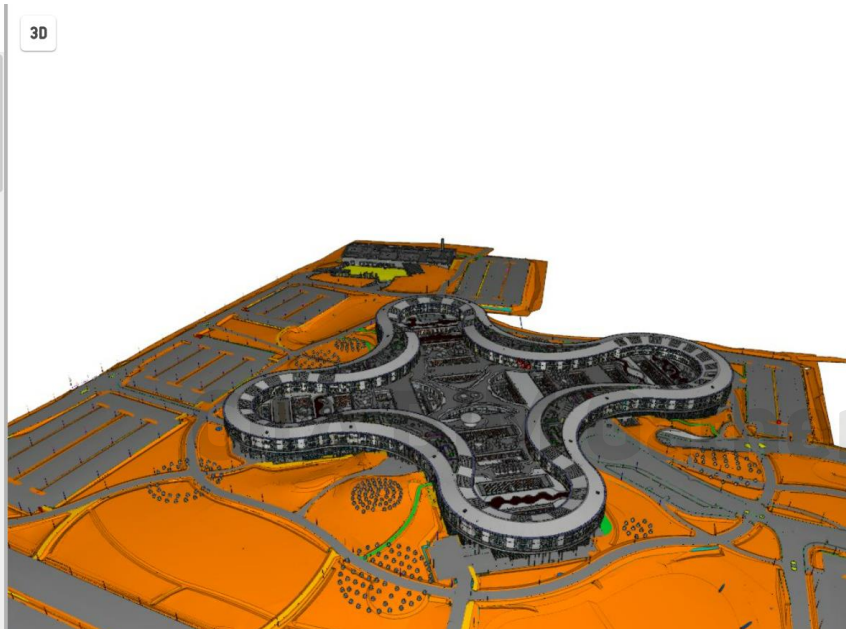
COBie



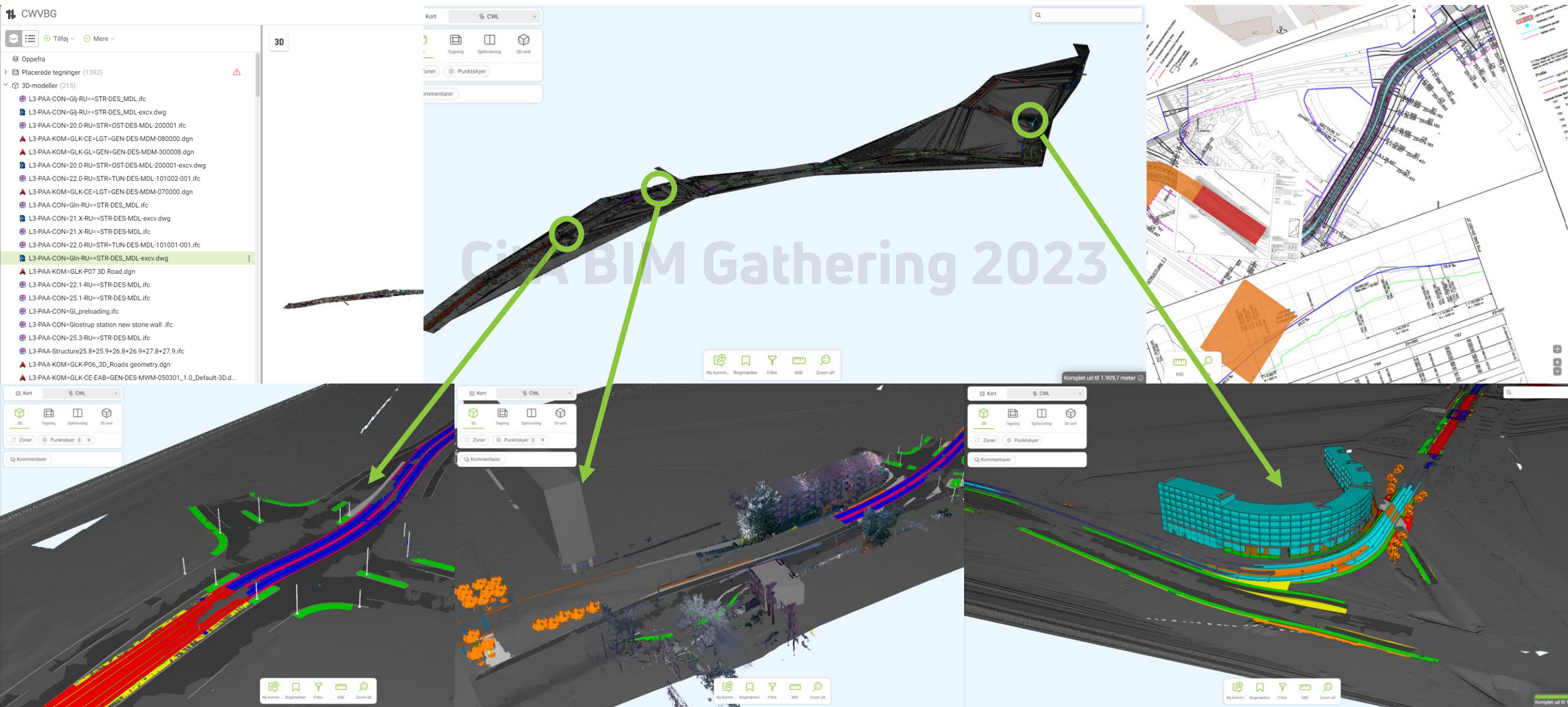
Interoperability powering Flexibility

Tilføj Mere

> Level T (9)	42,390 m
> Level 3 (9)	37,220 m
> Service Village - Level T (4)	33,500 m
> Level 2 (9)	33,260 m
> Service Village - Level 1* (6)	28,600 m
> Level 1 (8)	28,320 m
> Level 0 (12)	24,000 m
> Service Village - Level 0 (6)	23,630 m
> Level K (8)	18,300 m
> Uden etage (2)	
> 3D-modeller (125)	
INHN_K01_F2_T79_N000_3D - Dalux Upload.daluxbim	
INHN_K08_F3_T57_N000.ifc	
INHN_K01_F3_T24_N000.ifc	
INHN_K08_F3_T57_N002.ifc	
INHN_K01_F3_T21_N000.ifc	
INHN_K08_F3_T57_N001.ifc	
INHN_K02_F3_T40_N000.ifc	
INHN_K01_F3_T21_N800.ifc	
INHN_K01_F3_T29_N800.ifc	
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INHN_K01_F3_T29_N000.ifc	
INHN_K01_F3_T29_N001.ifc	



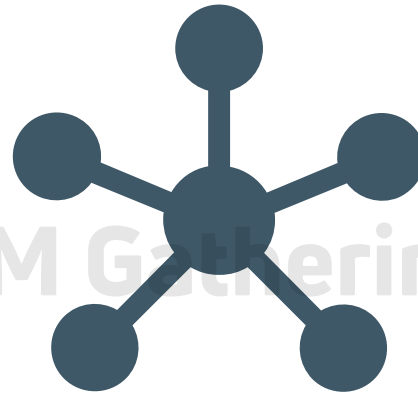
Interoperability powering Flexibility



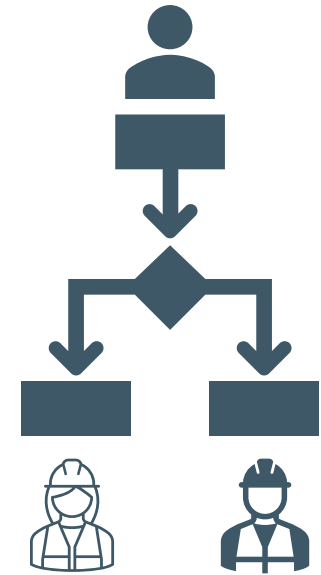
Collaboration through Flexibility



Network of people



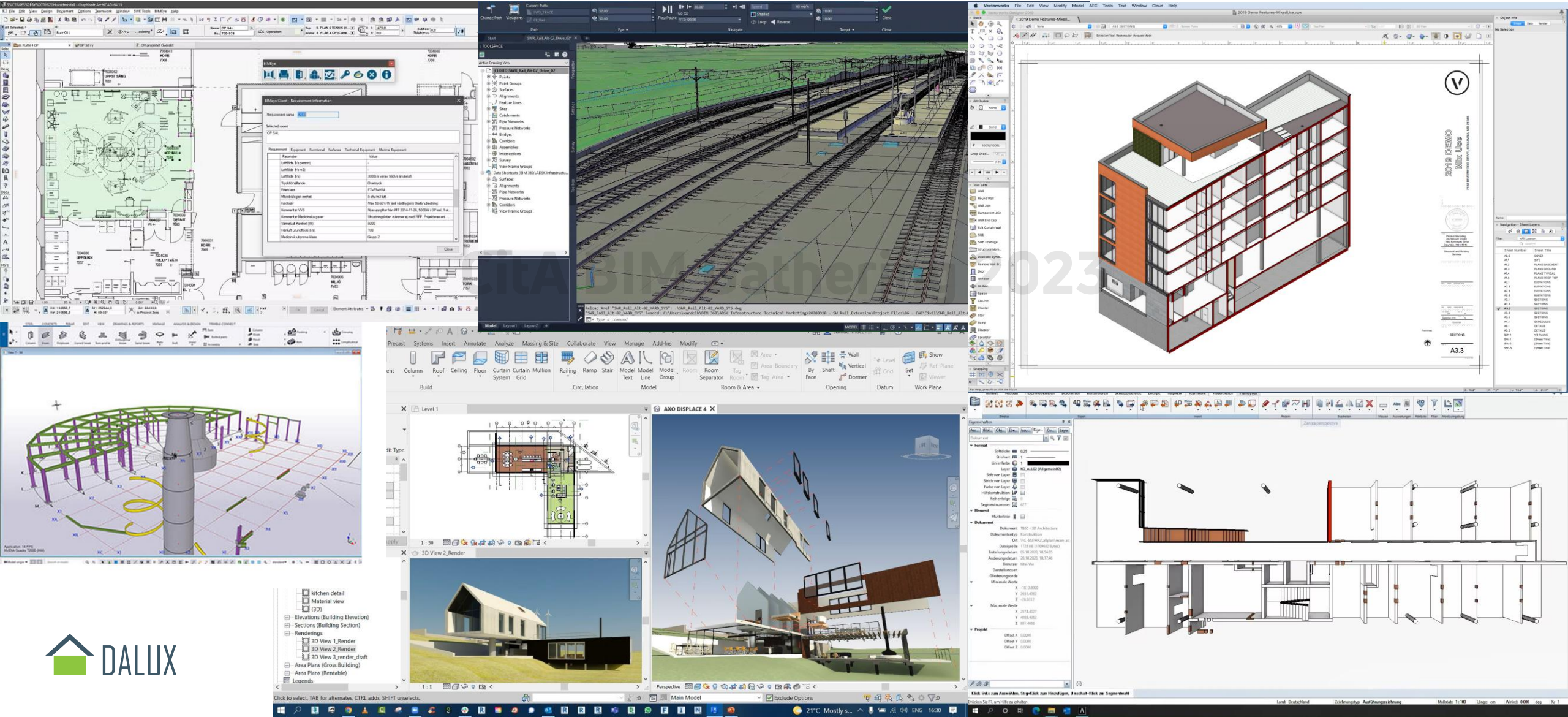
Flexibility of systems used



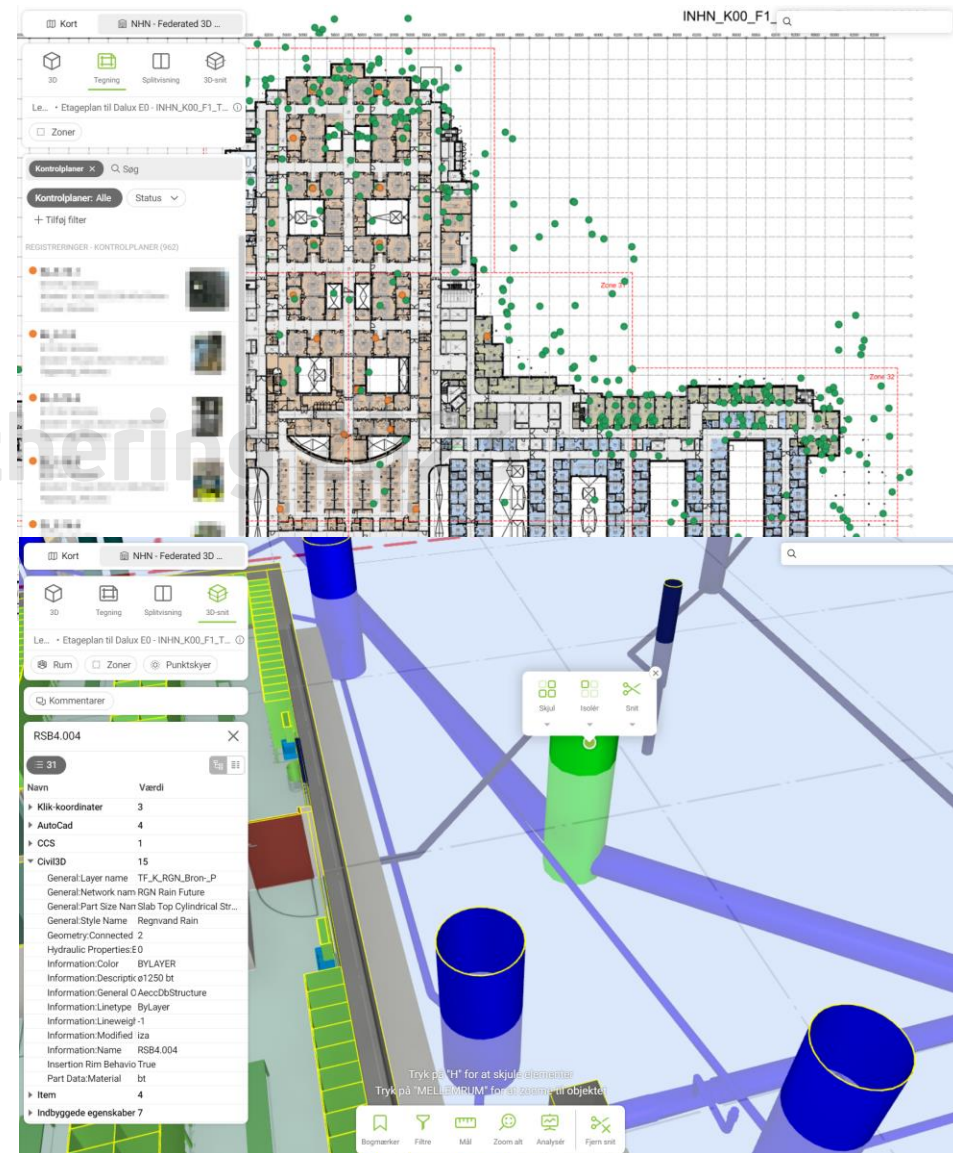
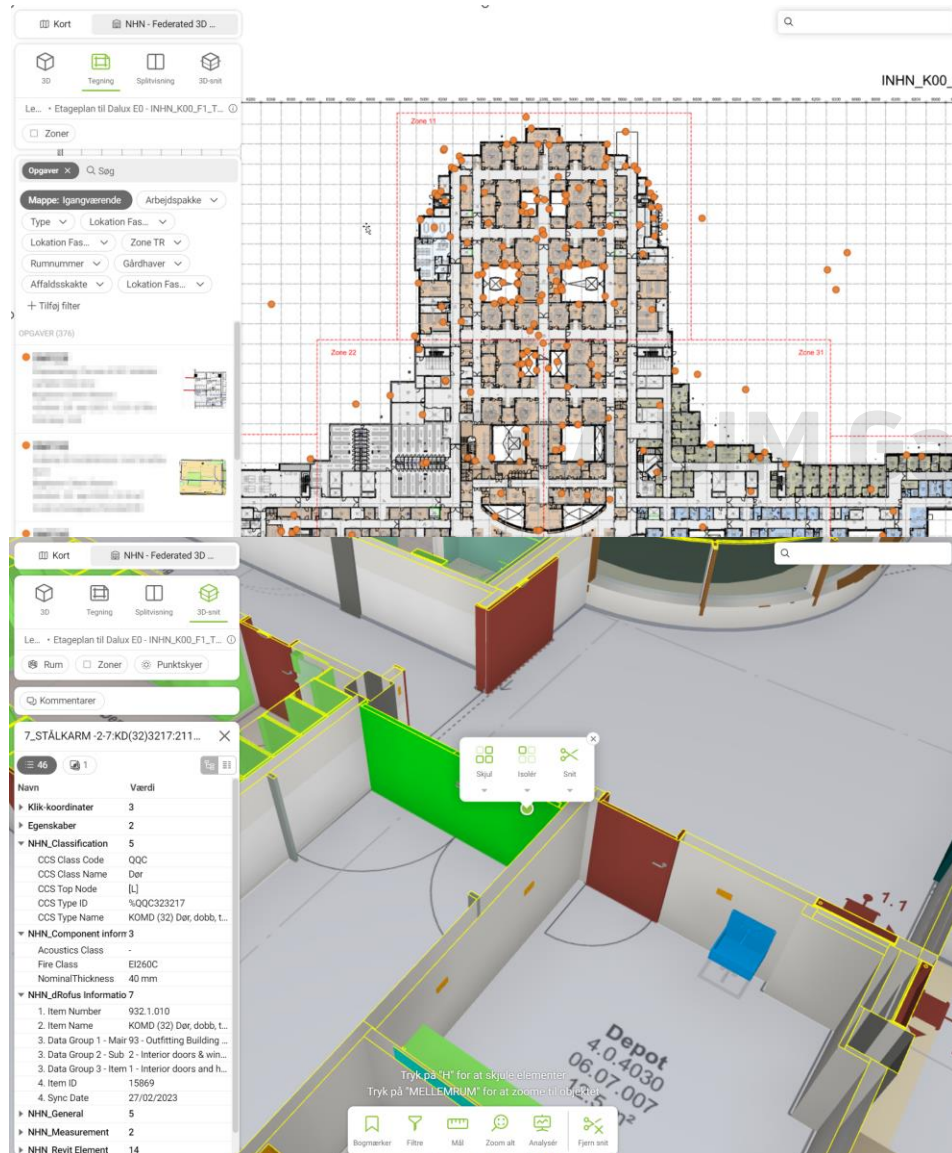
Hierarchy of requirements

CitA BIM Gathering 2023

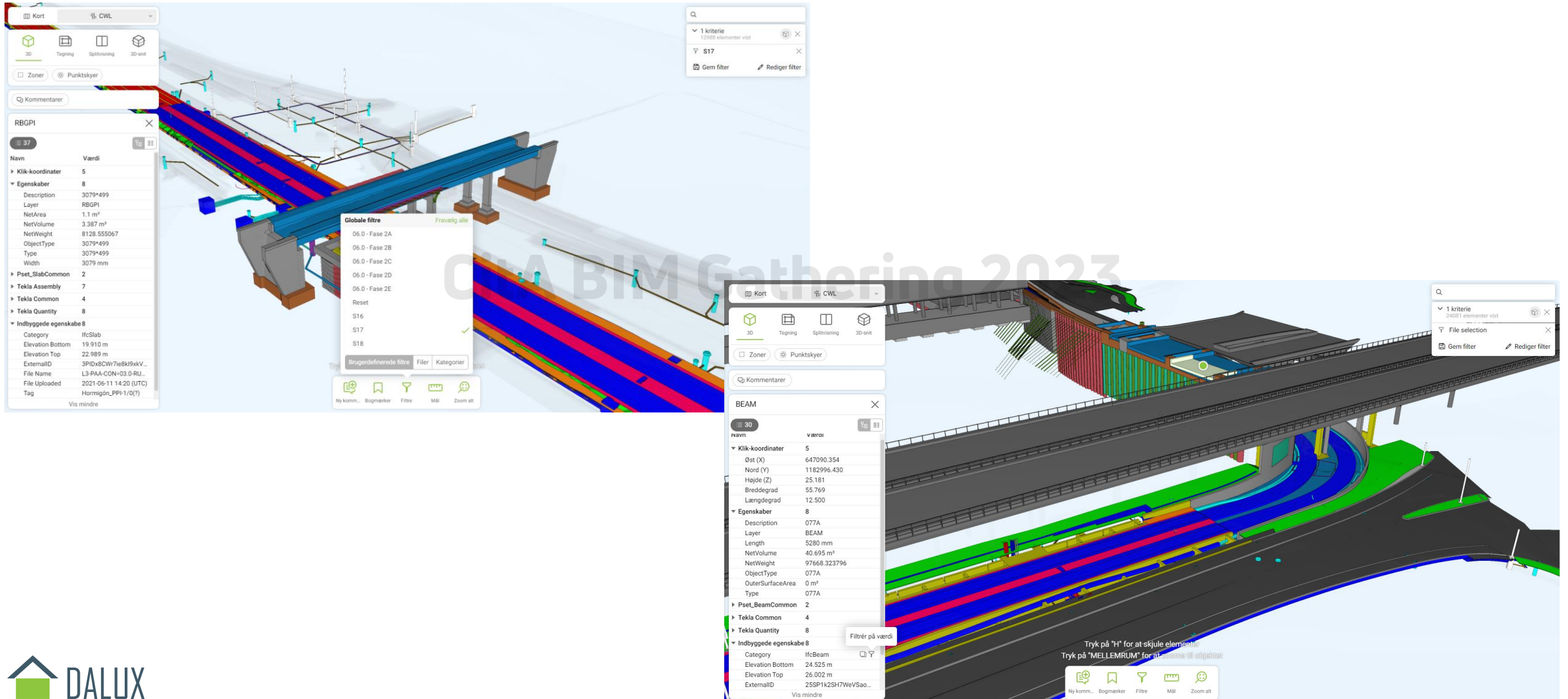
Collaboration through Flexibility



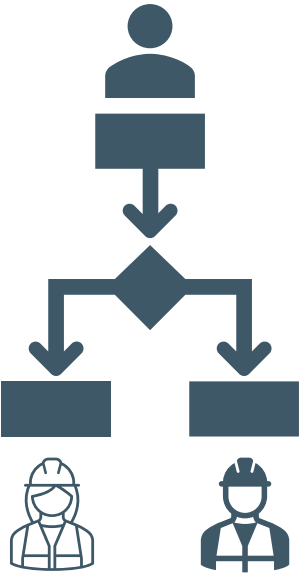
Collaboration through Flexibility



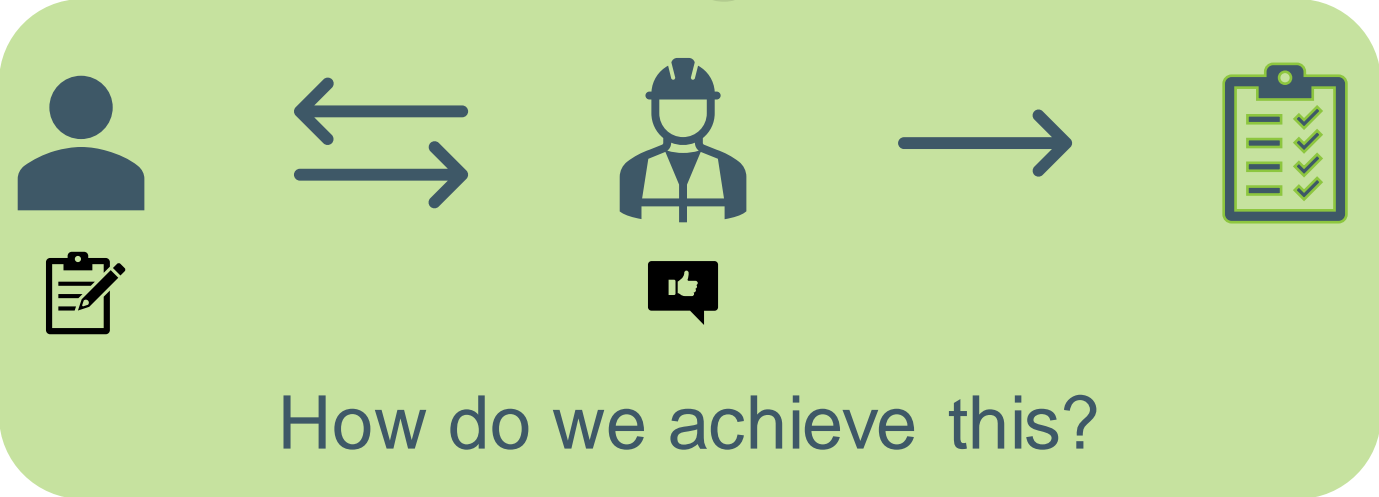
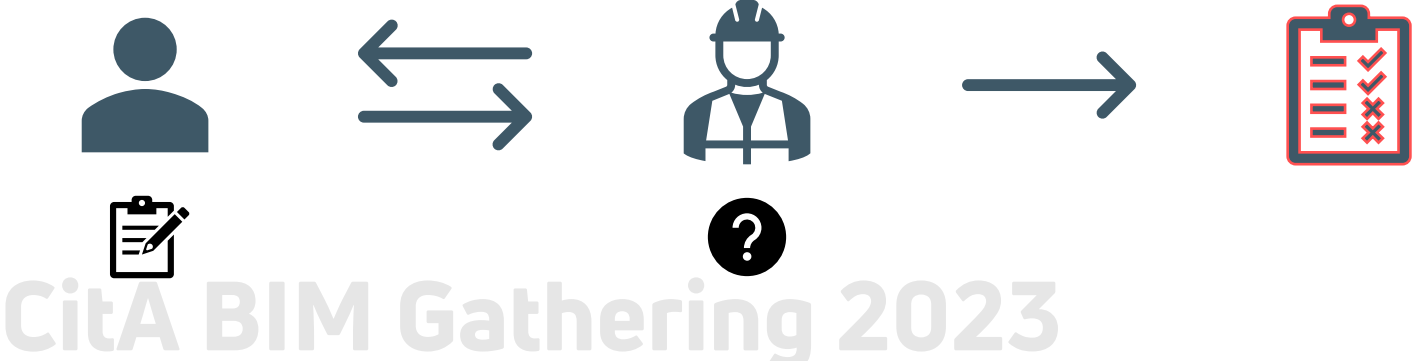
Collaboration through Flexibility



Reliability through Collaboration



Hierarchy of requirements



Reliability through Collaboration

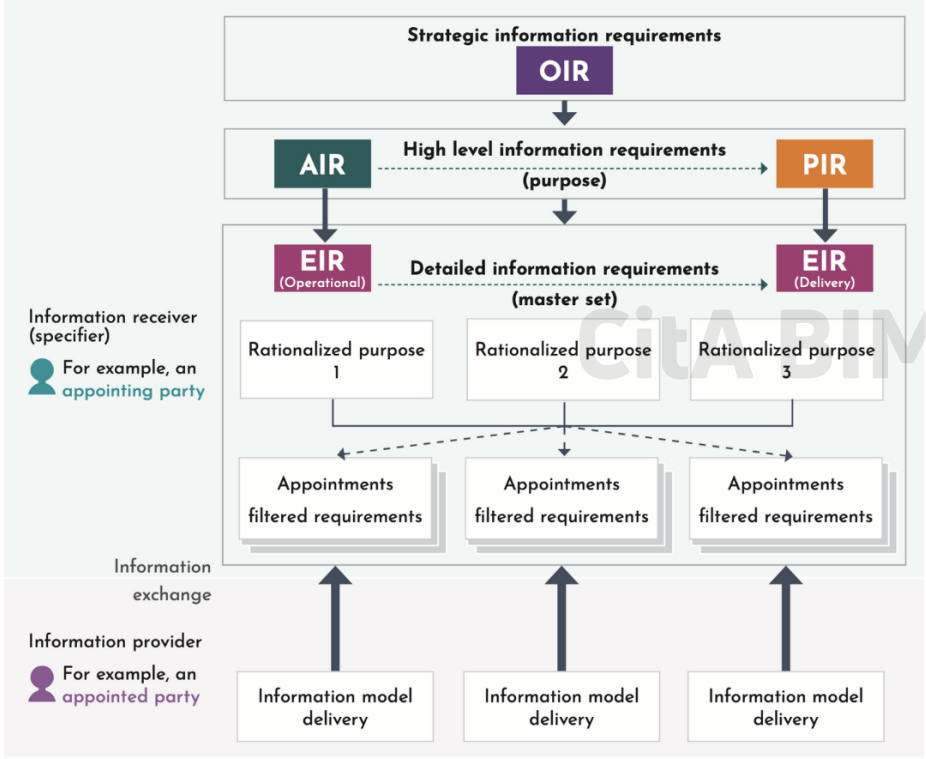


Figure 15: The four types of information requirements in the context of the breakdown of information requirements

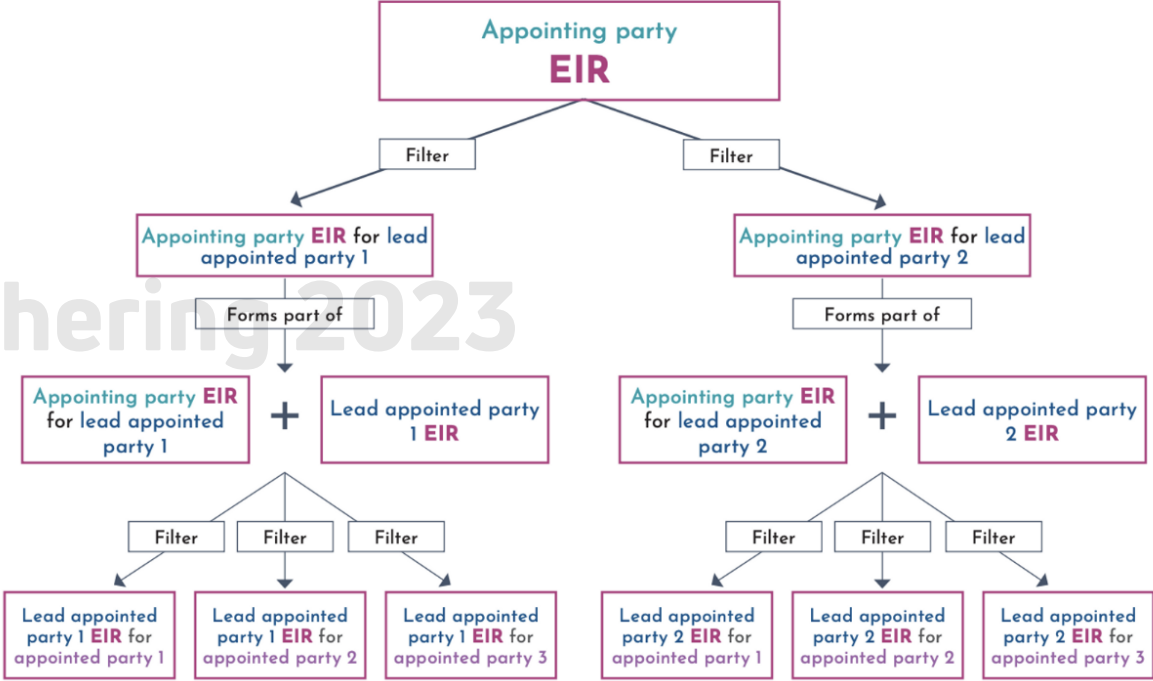
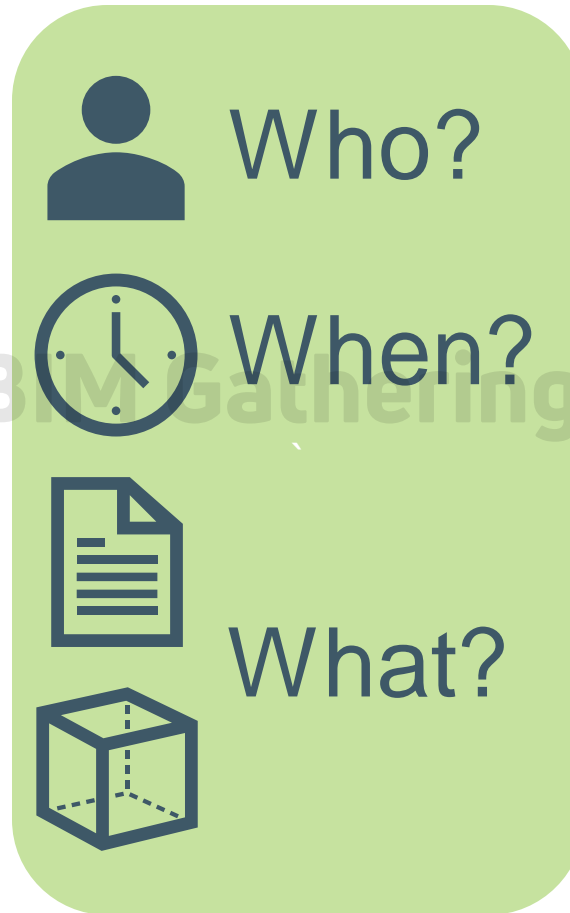


Figure 9: Cascade of appointing party's and lead appointed party's information requirements through delivery teams

Reliability through Collaboration



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Reliability through Collaboration

Analytics

Assets

All products on the project

Search + Add filter

Work package	Name	Manufacturer	Type name	Warranty	Assets	Documents	Images	Maintenance tasks
HVAC	40.07 - NOHA Croker Fire Hose Cabinet (PL)	Croker Inc.	NOHA 1000 Series	2	5	✓	✓	✓
Ventilation	40.06 - Nilan Comfort 600 Ventilation Aggred...	Nilan A/S	Comfort 600	2	1	✓	✓	✓
HVAC	40.04 - Neotherm Loop (PL)	Neotherm Inc.	Shuntomatic	10	1	✓	✓	✓
Electrician	30.15 - URAPROOF - Emergency lights (EL)	Uraproof Inc.	Legrand FR	5	16	✓	✓	✓
Electrician	30.11 - Linergy ITV system (EL)	Lineroy Inc.	SP	2	1	✓	✓	✓
Electrician	30.10 - KONE Elevator (EL)	KONE A/S	MonoSpace 700	15	1	✓	✓	✓
Electrician	30.09 - Intra Lighting pendant (EL)	Intra Lighting Inc.	ILP	2	1	✓	✓	✓
Electrician	30.08 - Iboco Floor Switches (EL)	Iboco Inc.	BDS-C45	2	1	✓	✓	✓
Electrician	30.07 - IBI central unit (EL)	Siemens KNX A/S	ECC2	5	2	✓	✓	✓
Electrician	30.06 - Greenline Elevator Pup-up (EL)	Greenline Ltd.	Bachmann	2	1	✓	✓	✓
Electrician	30.04 - E-Line Datahub rack (EL)	E-Line Inc.	800A	5	1	✓	✓	✓
Electrician	30.03 - Alpha DIN Distribution board (EL)	ALPHA Inc.	3200 series	5	7	✓	✓	✓
Electrician	30.02 - ADK Unit (EL)	Doorking Inc.	1838-081	5	7	✓	✓	✓
Electrician	30.01 - ABA speakers (EL)	Edwards Inc.	Strobe	2	53	✓	✓	✓

Products

All products on the project

Work packages

- Carpenter
- Cooling/Heating
- CTS Automatics
- Electrician
- Facade
- Firesecurity
- HVAC
- Masonry
- Network
- Painter
- Ventilation

Analytics

Assets

All assets

Search + Add filter

Status	Work package	Template	Name
Draft	Cooling/Heating	[F] Water and fluid system	Water Circulation system string 1
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage terrain 01
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 24
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 23
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 22
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 21
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 20
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 19
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 18
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 17
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 16
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 15
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 14
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 13
Draft	Cooling/Heating	[G] Drainage and waste syste...	Waste drainage - 12

Products


Tasks

- All tasks
- Inbox
- Ongoing
- Closed
- Drafts

Import

- From Excel
- From COBIE
- From BIM

OK Cancel



Analytics

Assets

In progress

Search + Add filter

Status	Work package	Template	Name	Supercomponent
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Ventilation	[J] Ventilation system	Ventilation system string ...	
In progress	Cooling/Heating	[F] Water and fluid system	Sprinkler - 2	
In progress	Cooling/Heating	[F] Water and fluid system	Sprinkler - 1	
In progress	Cooling/Heating	[G] Drainage and waste syste...	Roof drainage - 7	
In progress	Cooling/Heating	[G] Drainage and waste syste...	Roof drainage - 6	
In progress	Cooling/Heating	[H] Cooling and heating syst...	Roof drainage - 5	
In progress	Cooling/Heating	[G] Drainage and waste syste...	Roof drainage - 4	
In progress	Cooling/Heating	[G] Drainage and waste syste...	Roof drainage - 3	
In progress	Cooling/Heating	[G] Drainage and waste syste...	Roof drainage - 2	
In progress	Cooling/Heating	[G] Drainage and waste syste...	Roof drainage - 1	

Products

Tasks

- All tasks
- Inbox
- Ongoing
- Closed
- Drafts

Files

- All files

Analytics

Assets

In progress

Search + Add filter

Status	Template	Name	Supercomponent
In progress	[F] Water and fluid system	Sprinkler - 2	
In progress	[F] Water and fluid system	Sprinkler - 1	
In progress	[G] Drainage and waste syste...	Roof drainage - 7	
In progress	[G] Drainage and waste syste...	Roof drainage - 6	
In progress	[H] Cooling and heating syst...	Roof drainage - 5	
In progress	[G] Drainage and waste syste...	Roof drainage - 4	
In progress	[G] Drainage and waste syste...	Roof drainage - 3	
In progress	[G] Drainage and waste syste...	Roof drainage - 2	
In progress	[G] Drainage and waste syste...	Roof drainage - 1	


Products

Tasks

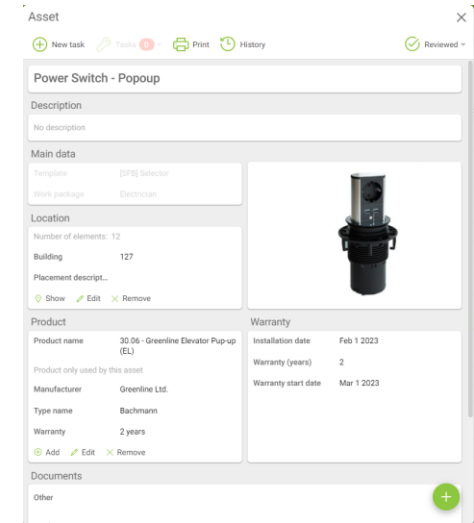
- All tasks
- Inbox
- Closed

Files

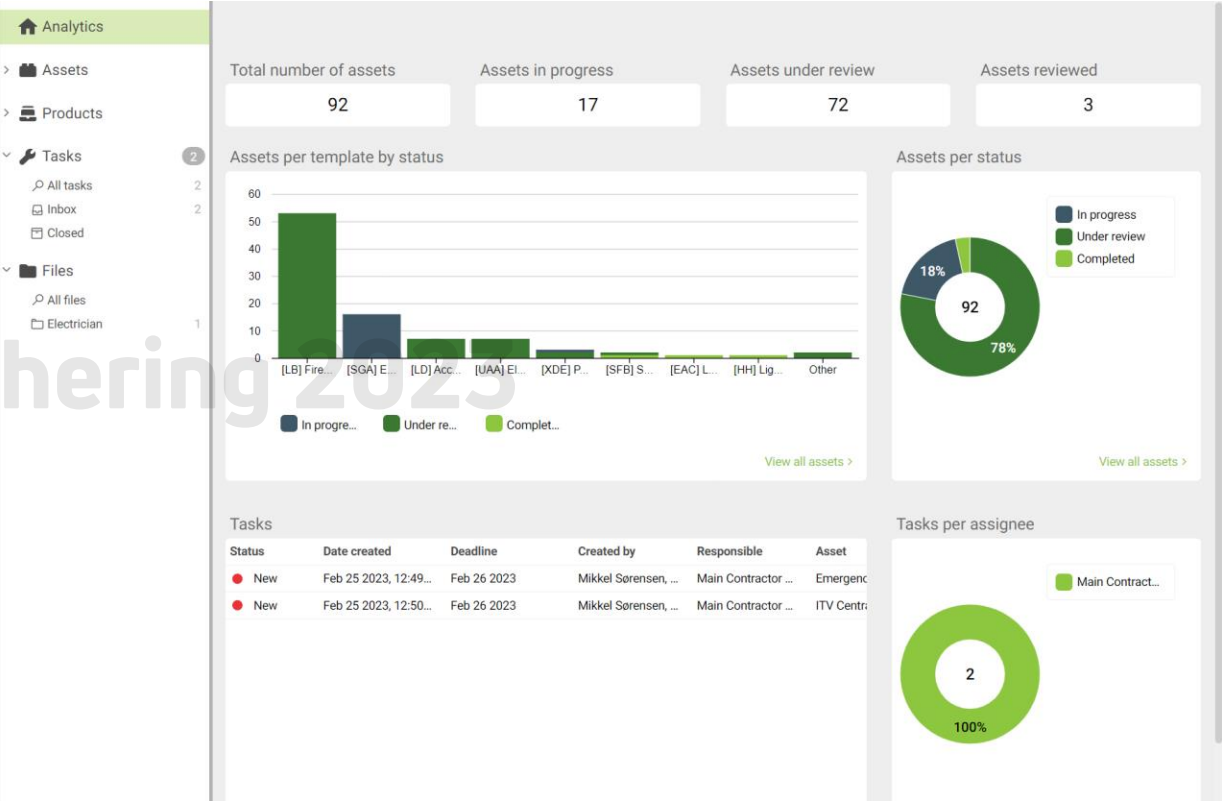
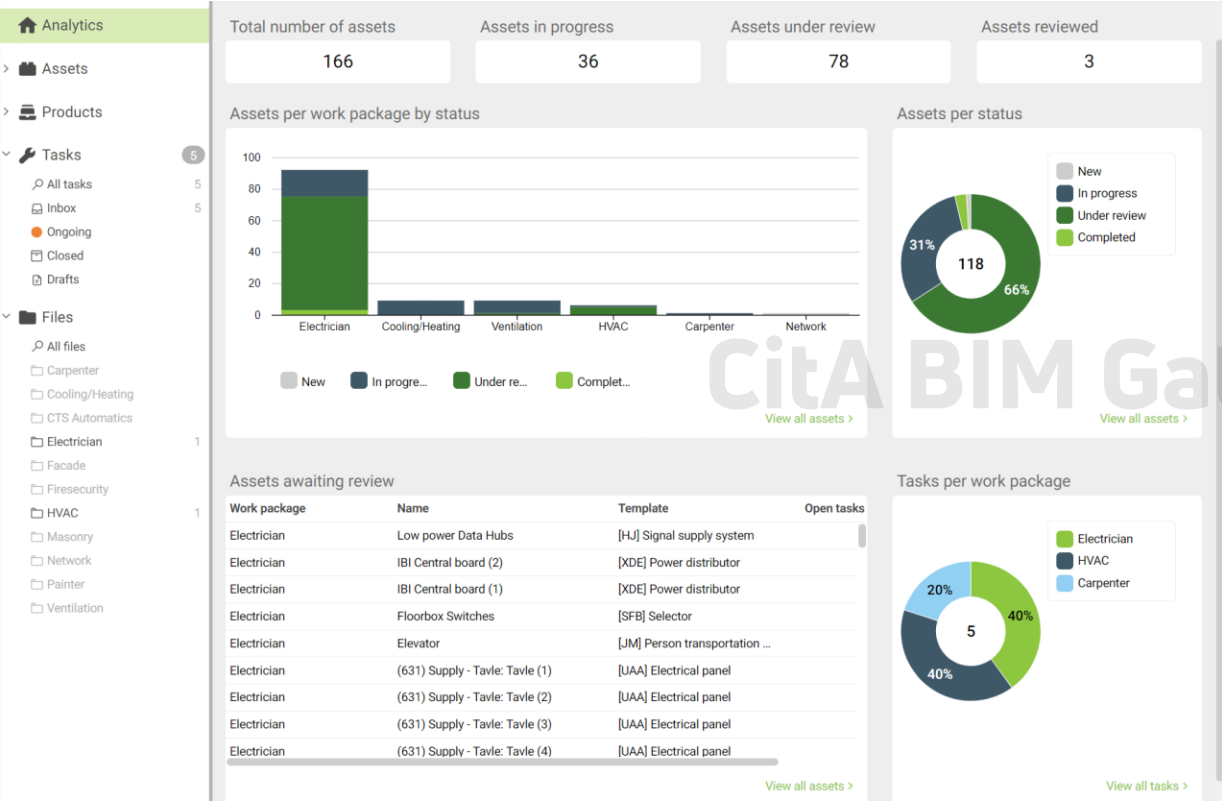
- All files
- Cooling/Heating



Reliability through Collaboration



Reliability through Collaboration



Reliability through Collaboration


Settings

- Users
- Locations
- Field
- Box
- Handover
- Work packages
- Owners Portal
- Project setup

Economy

Metadata

Task template




Handover

Properties

Templates

Status setup


Deleted assets



Assets

Export to COBie

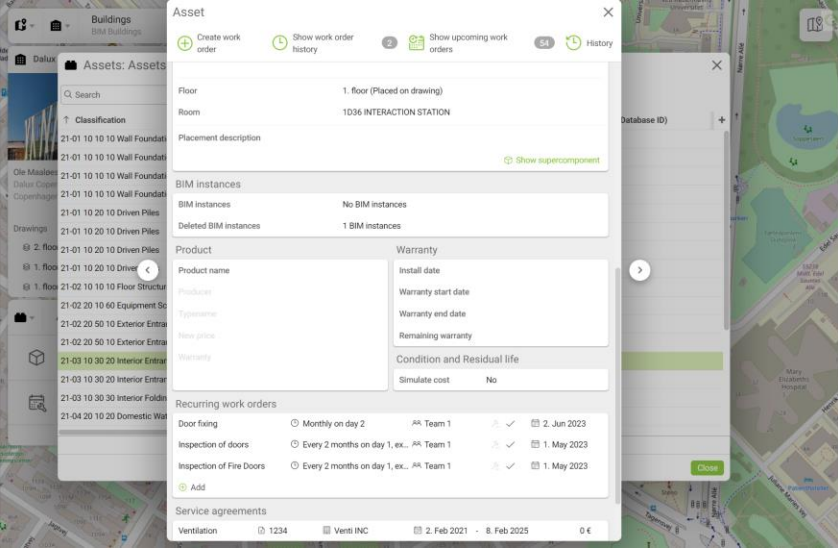
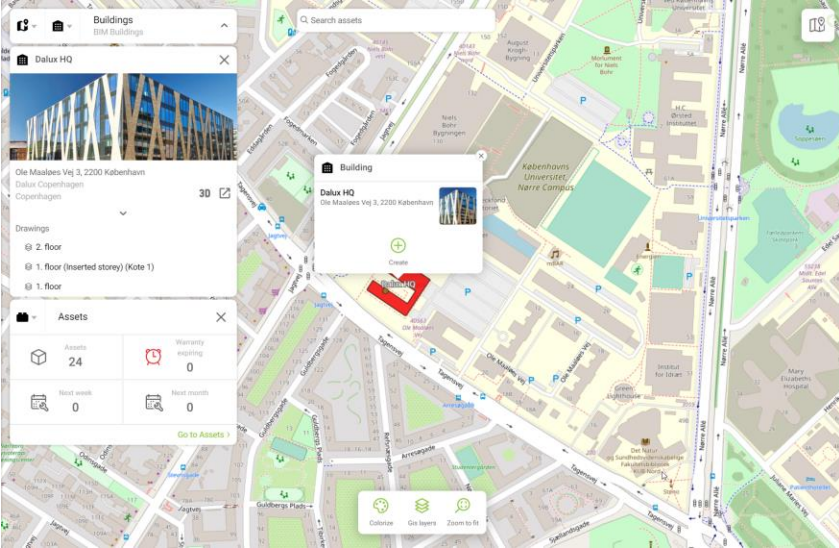
Export to DaluxFM



Export

2012-03-23-Duplex-Handover.xlsx

Name	CreatedBy	CreatedOn	TypeName	Space	Description	ExtObject	ExtIdentifier
Bath/Shower-1	mariangelica.carras	2011-09-27T16:00:00	Bath/Shower	B204	M_Bath Tub:1525 mmx760 mm - Private:1525 mmx760 mm - Private:582931	A>IfFlowTerminal	2h405Xj783A58X7w5ki4b
Bath/Shower-2	mariangelica.carras	2011-09-27T16:00:00	Bath/Shower	A204	M_Bath Tub:1525 mmx760 mm - Private:1525 mmx760 mm - Private:582924	A>IfFlowTerminal	1YLPoi73oPdnamXkGieg
Boiler-1	mariangelica.carras	2011-09-27T16:00:00	Boiler	B205	M_Hot Water Boiler - 59-440 kW:147 kW:147 kW:557516	A>IfEnergyConversionDevice	1JQu9wKrdwNuem13PFSi
Boiler-2	mariangelica.carras	2011-09-27T16:00:00	Boiler	A205	M_Hot Water Boiler - 59-440 kW:147 kW:147 kW:530072	A>IfEnergyConversionDevice	1Zp8eIQb3z9iLuXpGQ1dte
Cabinet Type A-1	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:159159	A>IfFurnishingElement	0wK6uT1wr1k0yafY4yVMI
Cabinet Type A-10	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162487	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-11	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162488	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-12	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162489	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-13	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162493	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-14	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162495	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-15	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162496	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-16	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162497	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-2	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:159262	A>IfFurnishingElement	0wK6uT1wr1k0yafY4yVMI
Cabinet Type A-3	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:160671	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-4	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:160717	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-5	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162230	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-6	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162311	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
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Cabinet Type A-8	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	B103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162383	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv
Cabinet Type A-9	mariangelica.carras	2011-09-27T16:00:00	Cabinet Type A	A103	M_Base Cabinet-Double Door & 2 Drawer:1000mm:1000mm:162486	A>IfFurnishingElement	20Brcmyk58NupXoVOHUv



Remember...

Show people what they need to do, when they need to do it, and **in a way they can understand.**

Delivery phase to Management phase:
It's as difficult as **you** choose to make it.

Thank You



Brendan O'Riordan
Country Manager



bor@dalux.com

