

BIM from the perspective of PERI



27.10.2016

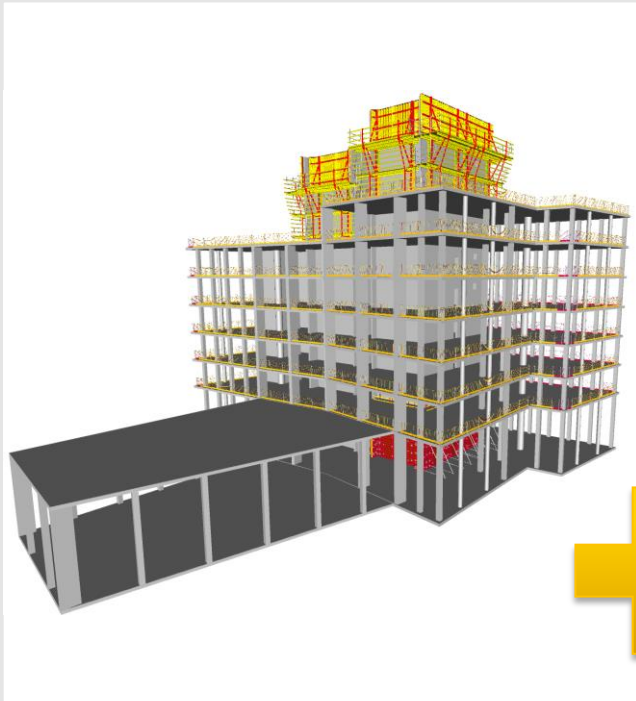


- **PERI**
 - Manufacturer of formwork and scaffolding
 - Headquarter in Weißenhorn (Neu-Ulm)
 - 64 subsidiaries
 - >7.700 employees
 - Turnover > 1,3 bn

- Production
- Rental service
- Engineering



■ General definition



3D Model



Information



BIM

BIM - Model

BIM

???

Building Information Modeling

BIM – BAM - BOOM

3D - 4D - 5D

iPAD

ifc

BIM2Field

Software

Cloud

Field2BIM

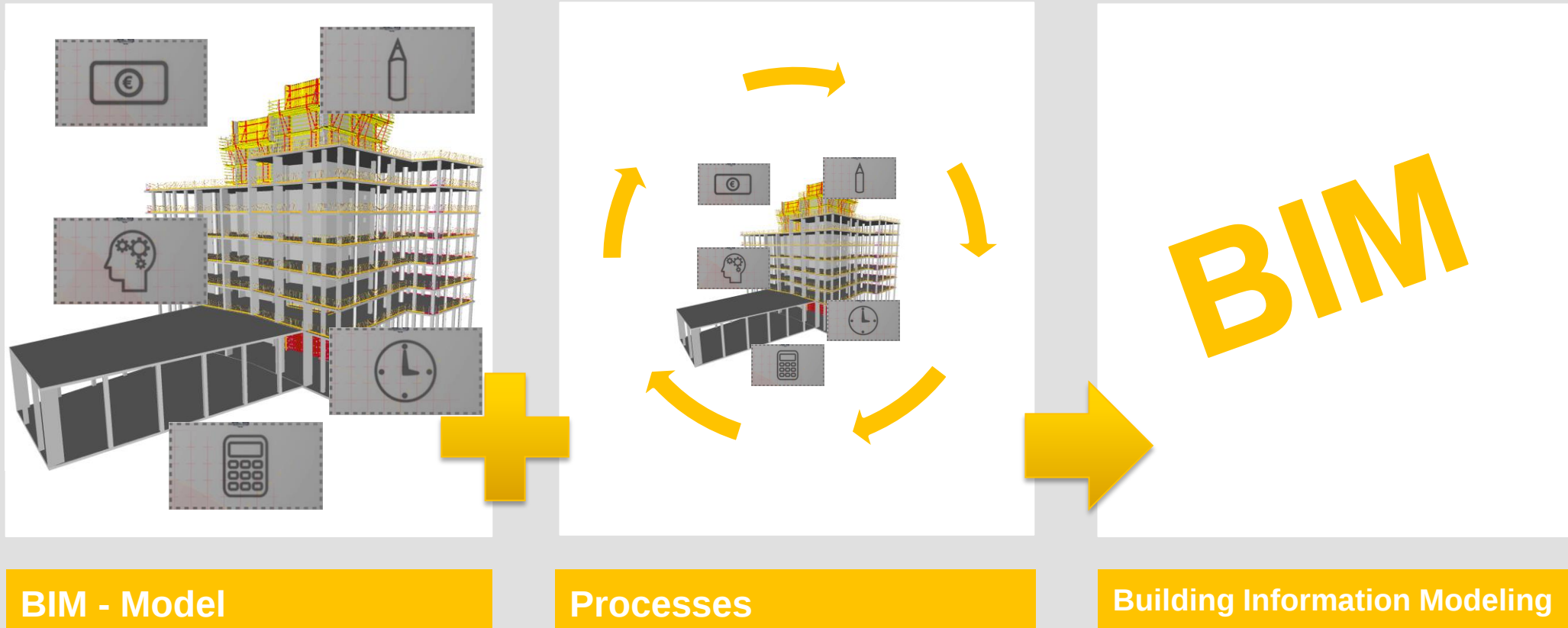
Laser Scanning

Rendering

Clash Detection

Facility Management

■ General Definition



Digitalization in the Building Industry

■ Dimension of change



Drafting board

CAD

BIM

time

BIM – Basic Information

BIM process using
PERI tools

Project creation



Centrio PDM

CENTRIO PDM

Settings | Log out

Type in your query (Alt + Q)

Home

- Personal area
 - Favourites
 - ETI
 - 57-000
 - 57-000
 - 57-0005075-01: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)**
 - Drawings
 - Documents
 - Correspondence
 - Customers
 - PERI Employees
 - 57-000
 - 57-000
 - 01-037
 - 57-000
 - 01-036
 - 57-000
 - 01-038
 - 01-038
 - 57-000
 - My jobs
 - My system messages
 - My reminders
 - My notifications
- Info area
 - PERI Map (Compliance Management System)
 - News
 - Product | Competition | Market
 - PERInet
 - BO Portal
- Workspace
 - Addresses
 - Projects
 - File objects
 - Additional modules
 - Folders
- Unsynchronized area
 - No records found

57-0005075-01: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)

OTCProcess Edit Structure Sub objects Reports Advanced search

57-0005075-01: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)

Displayed number	57-0005075-01	Construction site name	BIM
Title	BIM		
Additional title			
Status	Offer preparation	Sales Engineer (CS)	57-1198 HOLDINGAKTIVITÄTEN, DEUT
Customer	PERI GmbH, IntraCo Holding, (199998)		
Status of delivery			
Responsible office	Weissenhorn	Reference number	
Country	Germany	Federal state / Province	Bayern
Postal code	89264	City(Location)	Weißenhorn
Street	Rudolf-Diesel-Straße	District	
Web address		Reference project	☐
Telephone number		Fax number	
Important notes			
Info			
Comments			

Conditions

Project management

Internal Allocation Information

Lost Order Information

Object Properties

myPERI settings

Classification

Project creation



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 - 57-000-011-02: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 57-0005075-01: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)**
 - Drawings
 - Documents
 - Correspondence
 - Customers
 - PERI Employees
 - 57-000-011-03: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 57-000-011-04: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 57-000-011-05: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 01-037-011-06: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 57-000-011-07: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 01-036-011-08: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 57-000-011-09: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 01-038-011-10: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 01-038-011-11: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
 - 57-000-011-12: BIM, Weißenhorn - PERI GmbH, IntraCo Holding, (199998)
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Street	Rudolf-Diesel-Straße	City(Location)	Weißenhorn
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Important notes			
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Comments			

Drawings

- Conditions
- Project management
- Internal Allocation Information
- Lost Order Information
- Object Properties
- myPERI settings
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Project creation



■ Centrio PDM

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Customer	PERI GmbH, IntraCo Holding, (199998)		
Status of delivery			
Reference number	Weißenhorn	Federal state / Province	Bayern
City(Location)	Weißenhorn	Search	
Street	Rudolf-Diesel-Straße	District	
Web address		Reference project	☐
Telephone number		Fax number	
Important notes			
Info	▶		
Comments	▶		

Documents

- Conditions
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Unsynchronized area

No records found

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Displayed number 57-0005075-01 Construction site name BIM

Title BIM

Additional title

Status Offer preparation Sales Engineer (CS) 57-1198 HOLDINGAKTIVITÄTEN, DEUT

Customer PERI GmbH, IntraCo Holding, (199998)

Customers information

Postal code 89264 Search City(Location) Bayern

Street Rudolf-Diesel-Straße District Weißenhorn

Web address Reference project

Telephone number Fax number

Important notes

Info

Comments

Conditions

Project management

Internal Allocation Information

Lost Order Information

Object Properties

myPERI settings

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Contact persons

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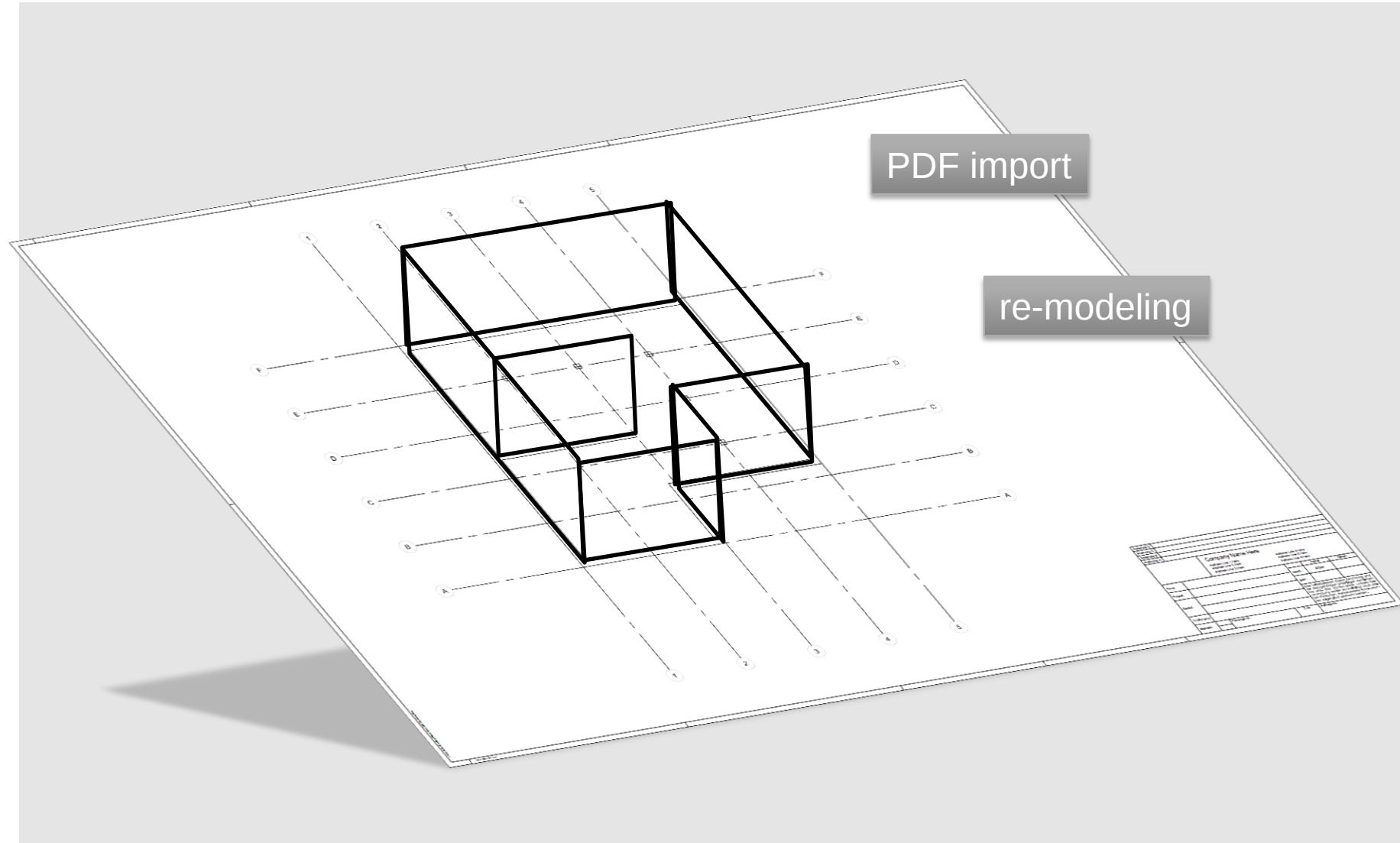
Lost Order Information

Object Properties

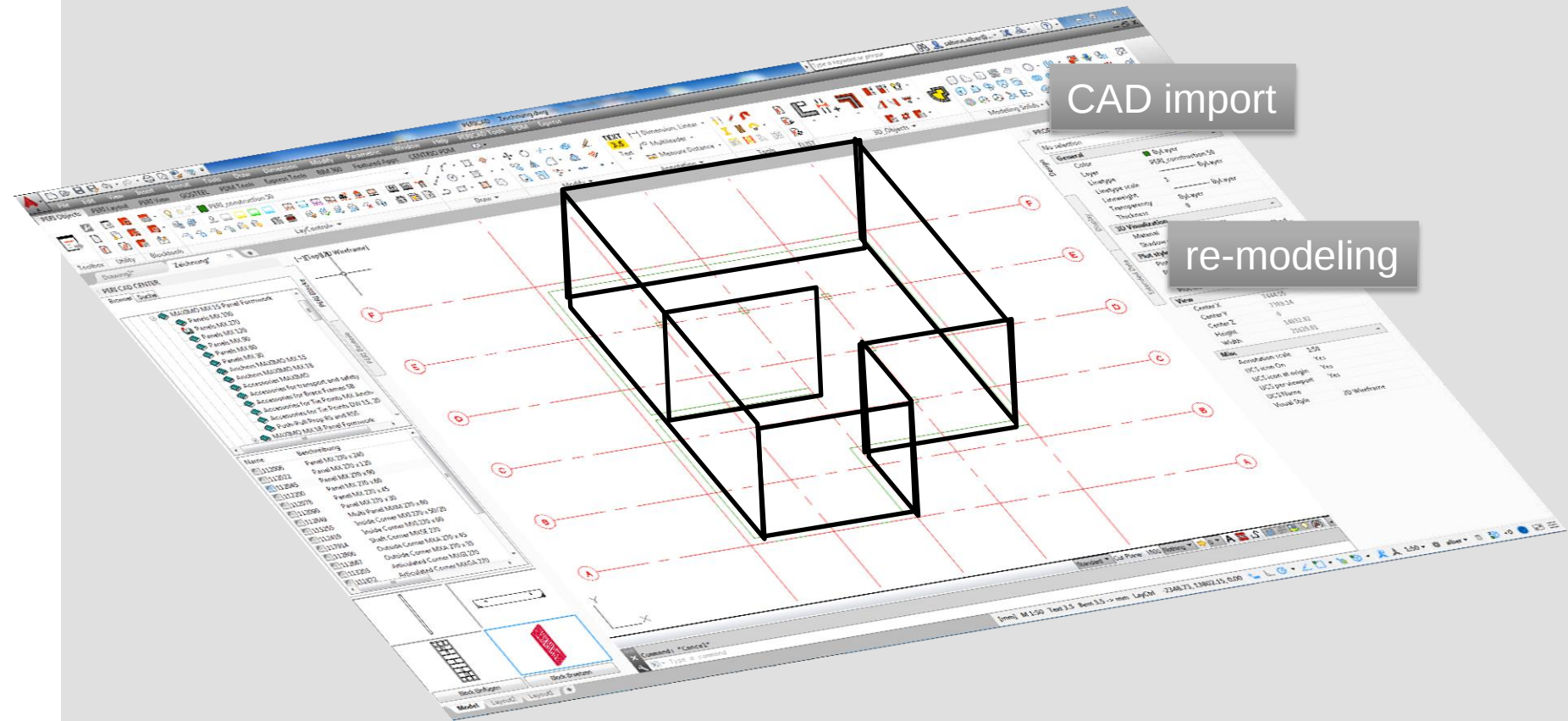
myPERI settings

Classification

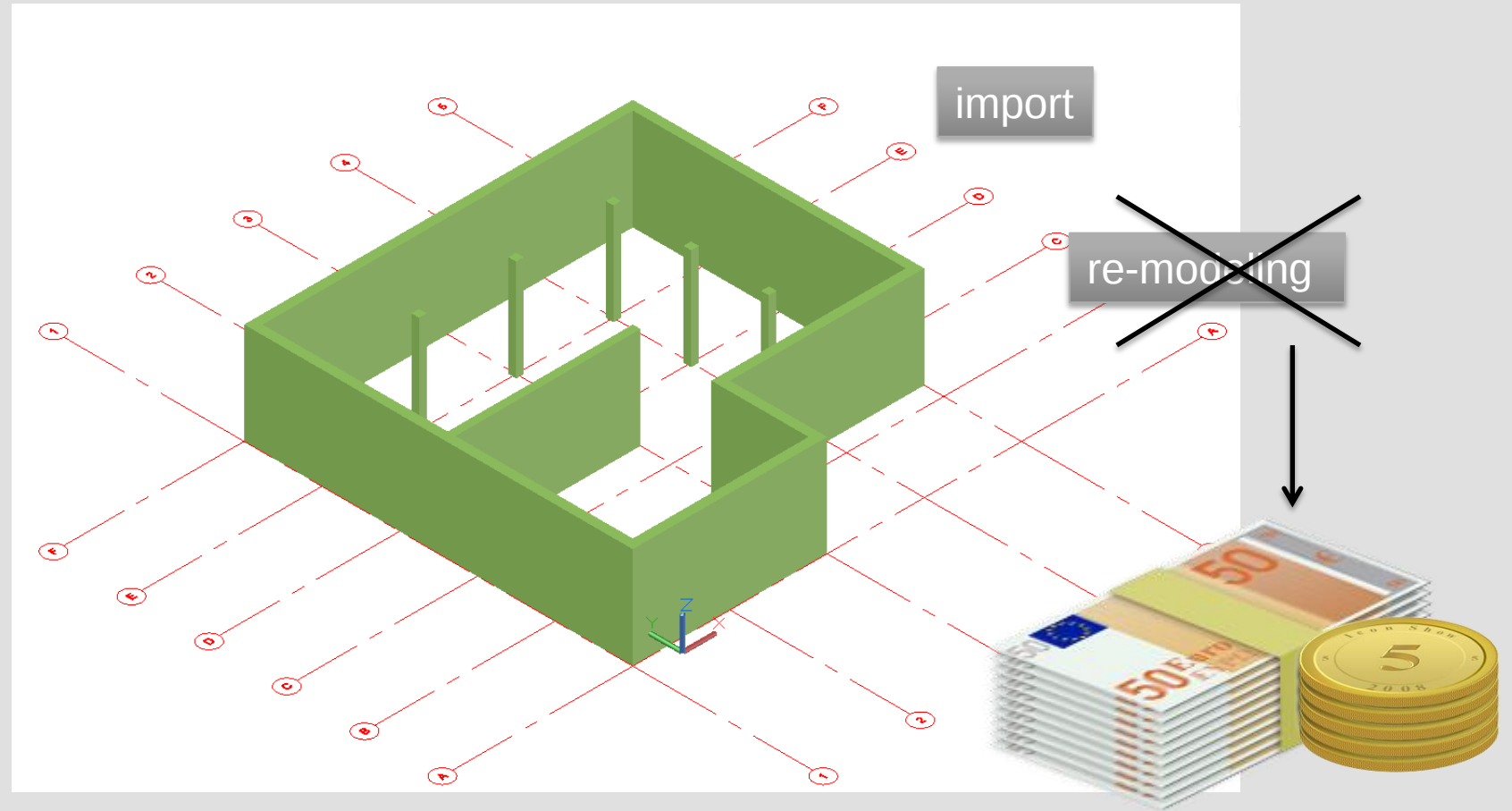
■ PDF



- PDF
- 2D CAD



- PDF
- 2D CAD
- **3D CAD**



- PDF
- 2D CAD
- 3D CAD
- **IFC**

- **Software independent file format**
- **Transmission of geometry + properties**



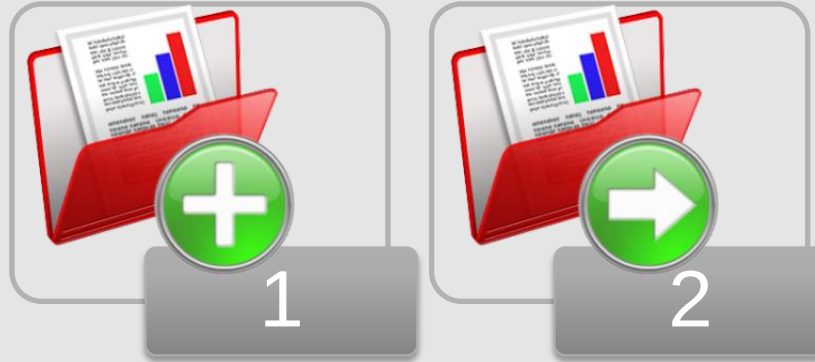
IFC
(formwork planning)

1. Creating a drawing



Planning process

1. Creating a drawing
2. **Checking-out
a drawing**



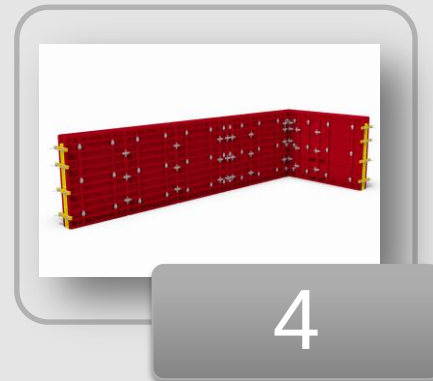
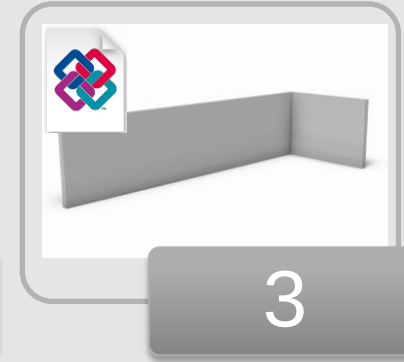
Planning process

1. Creating a drawing
2. Checking-out a drawing
3. **Ifc import**



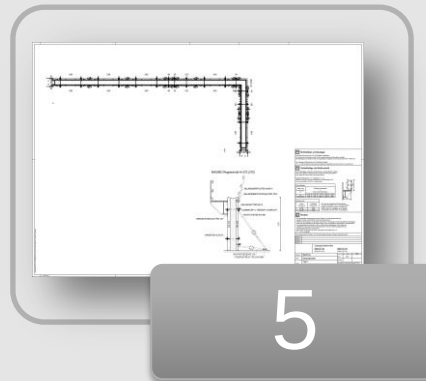
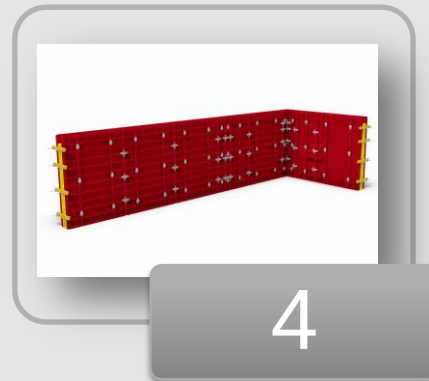
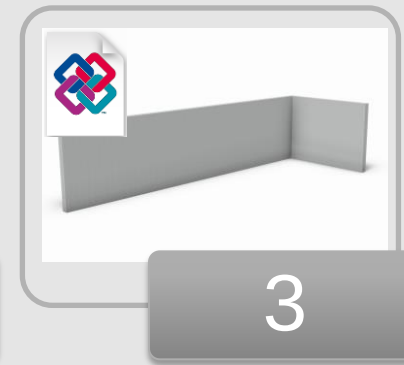
Planning process

1. Creating a drawing
2. Checking-out a drawing
3. Ifc import
4. **Planning**



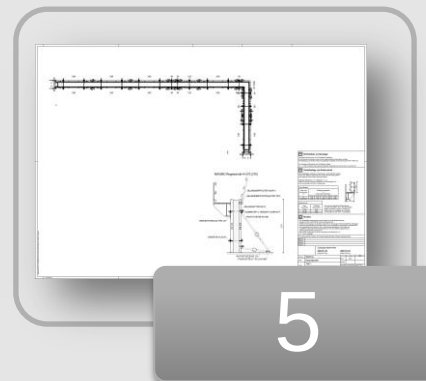
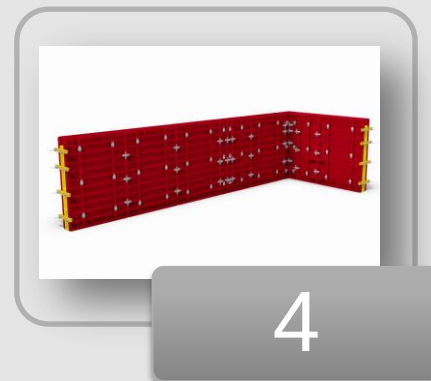
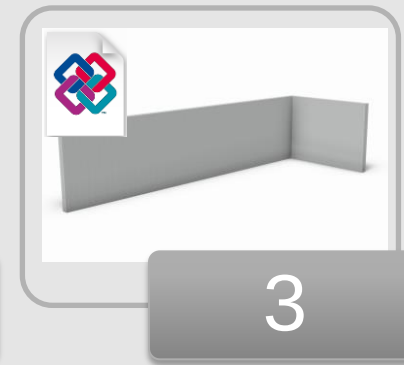
Planning process

1. Creating a drawing
2. Checking-out a drawing
3. Ifc import
4. Planning
5. **Creating a layout**



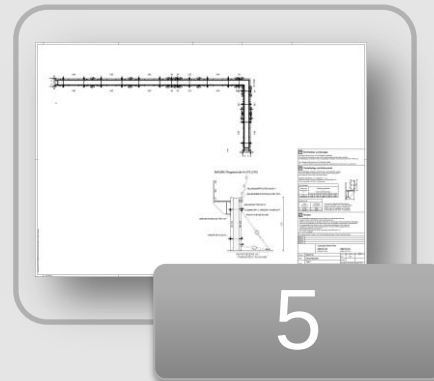
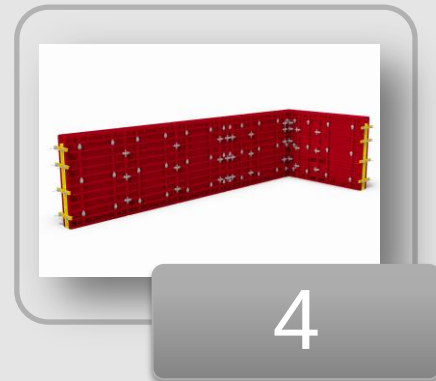
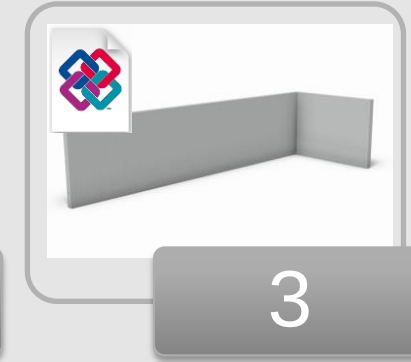
Planning process

1. Creating a drawing
2. Checking-out a drawing
3. Ifc import
4. Planning
5. Creating a layout
6. **Checking-in a drawing**



Planning process

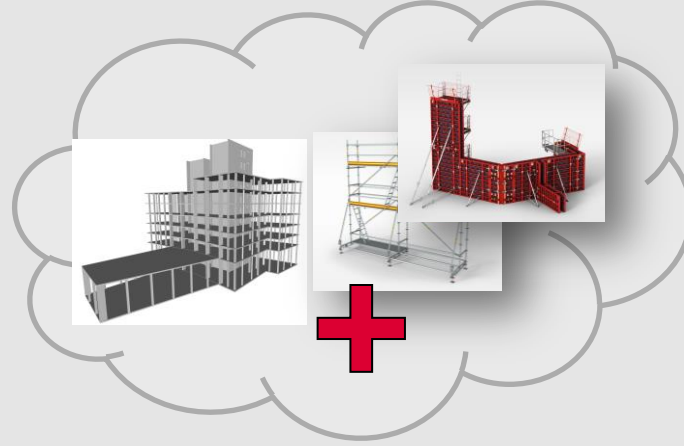
1. Creating a drawing
2. Checking-out a drawing
3. Ifc import
4. Planning
5. Creating a layout
6. Checking-in a drawing
7. **Approval**



BIM process using
PERI tools

integration of PERI into BIM processes of
the construction industry

- **Data provision
(Cloud)**

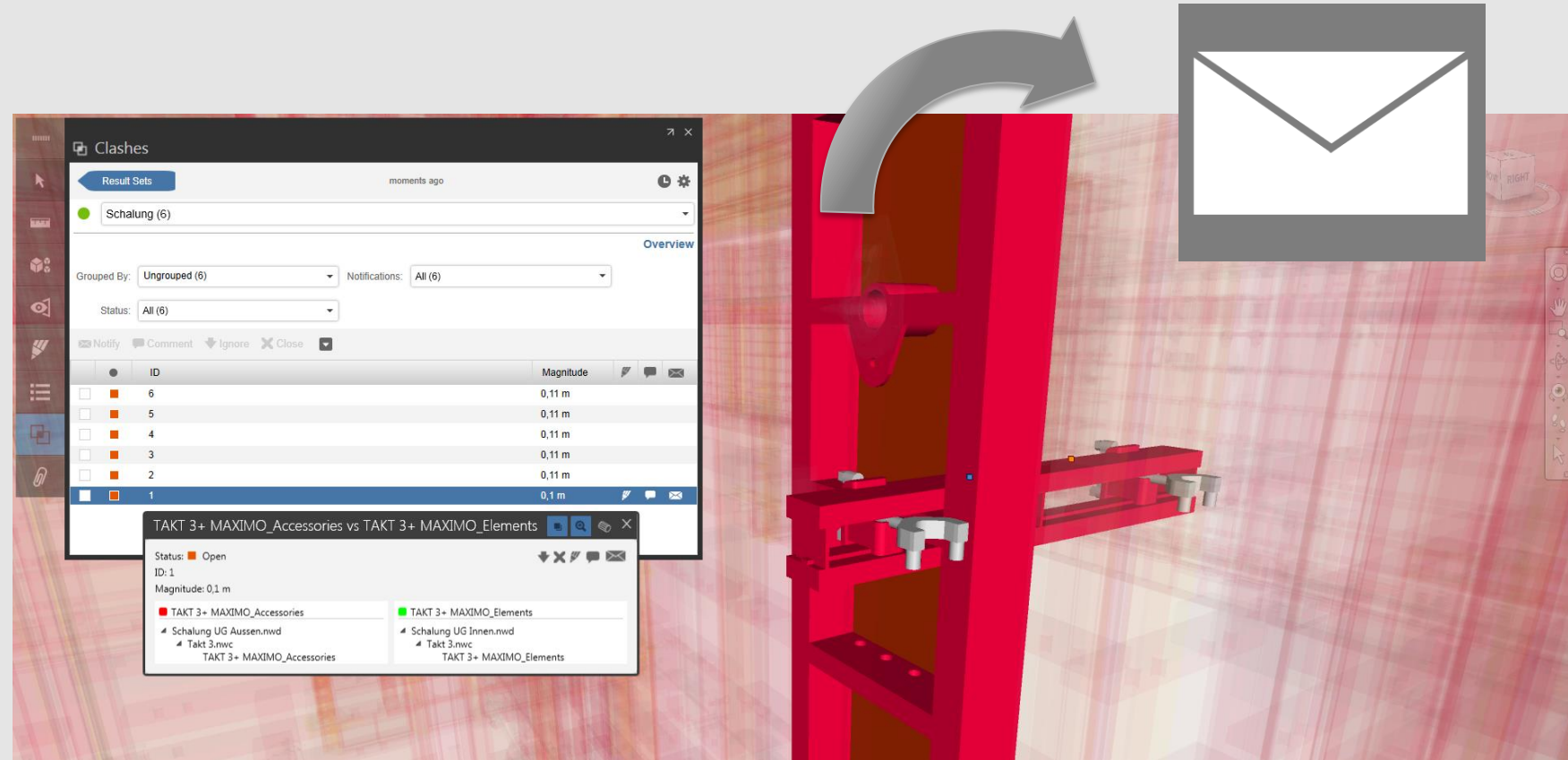


one coordination model

Collaboration during planning process

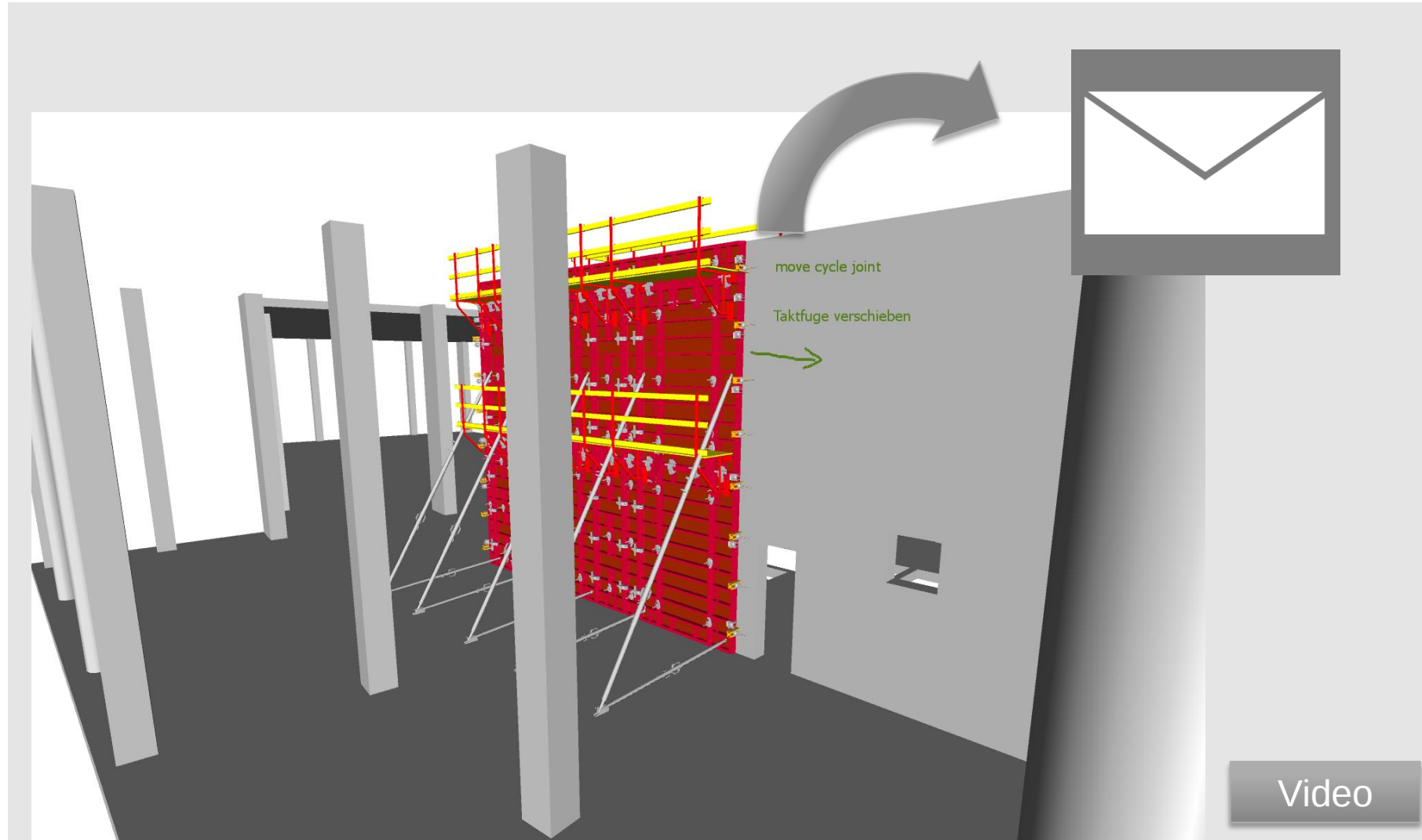


- Data provision (Cloud)
- **Clashes**



Collaboration during planning process

- Data provision (Cloud)
- Clashes
- **Markups**

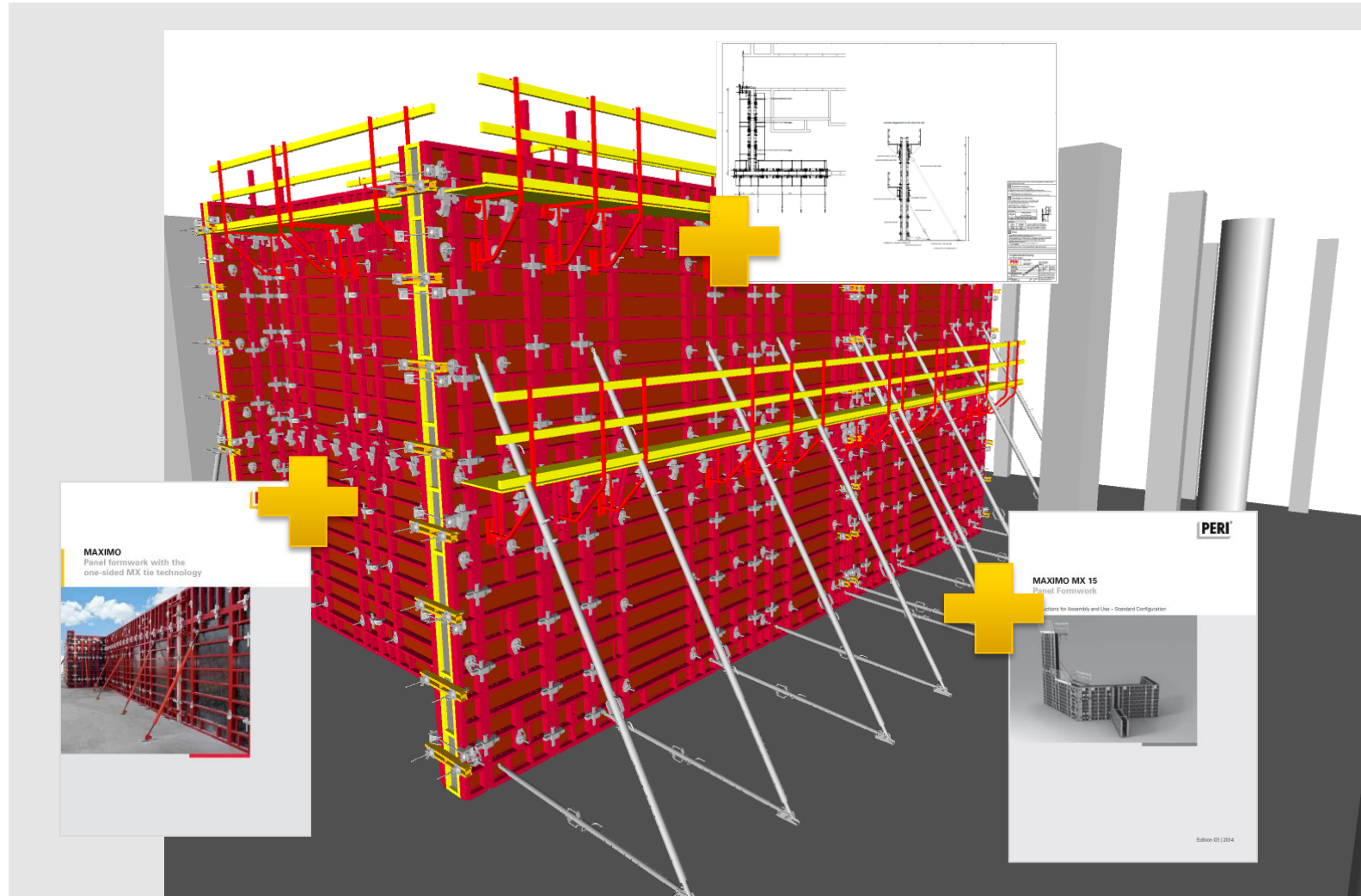


Collaboration during planning process

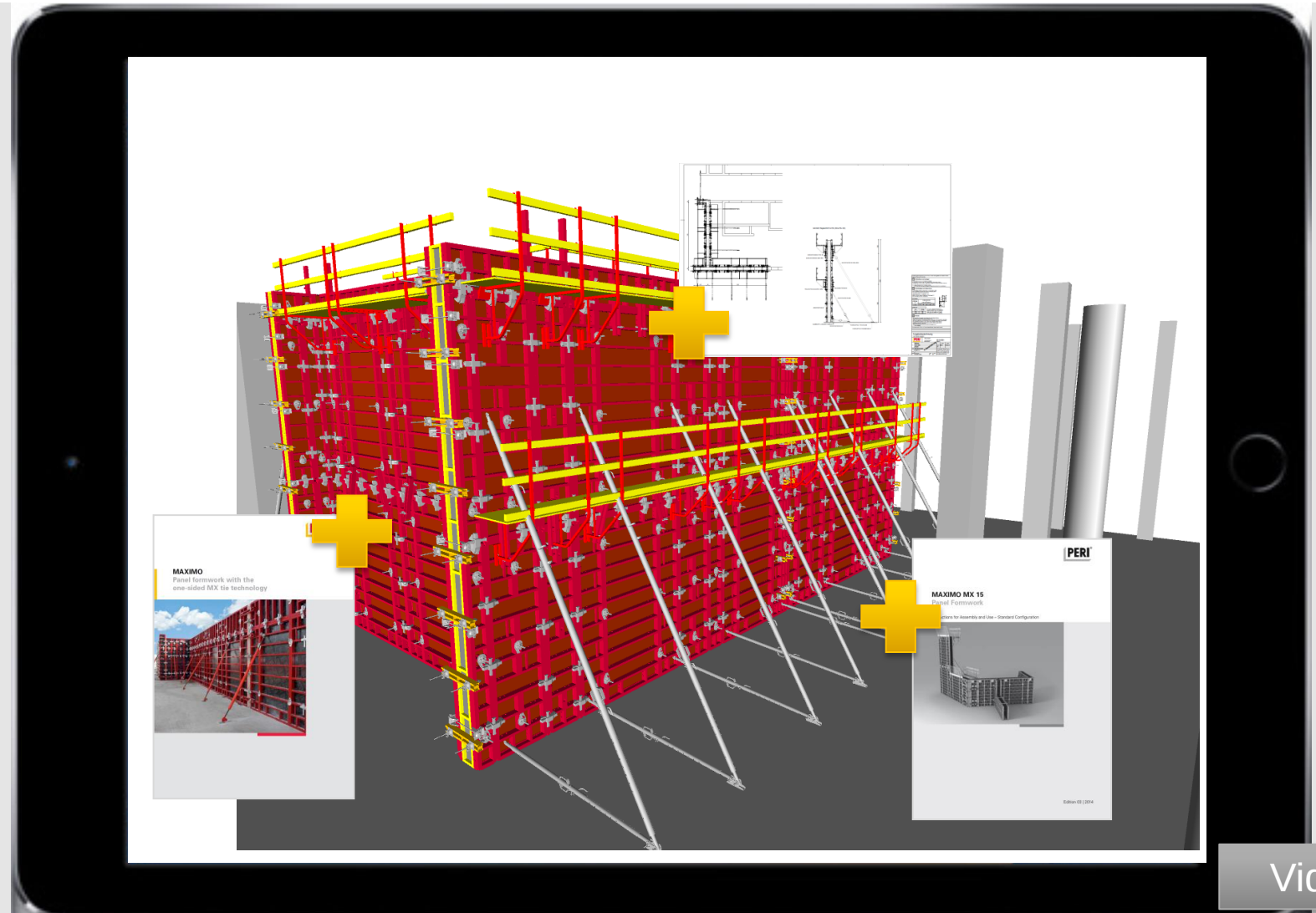
- Providing of data (Cloud)
- Clashes
- Markups
- **Changes**



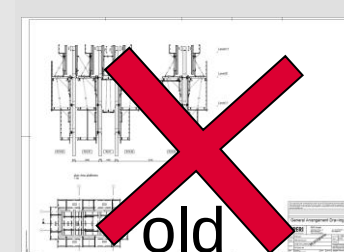
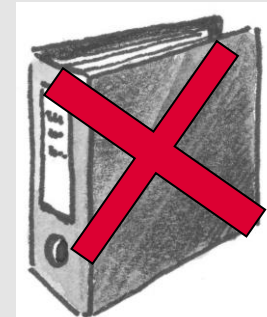
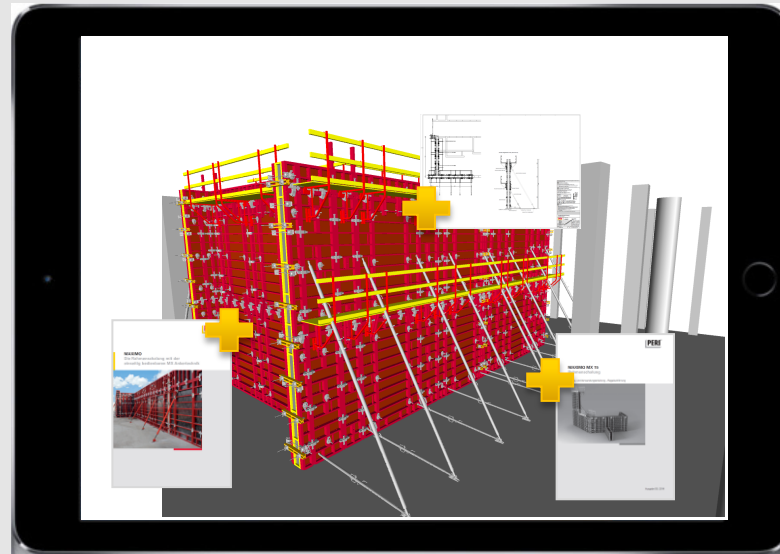
■ Linked information



- **Linked information**



■ Linked information



Provision of information for construction site

- Linked information
- **QR-Codes**

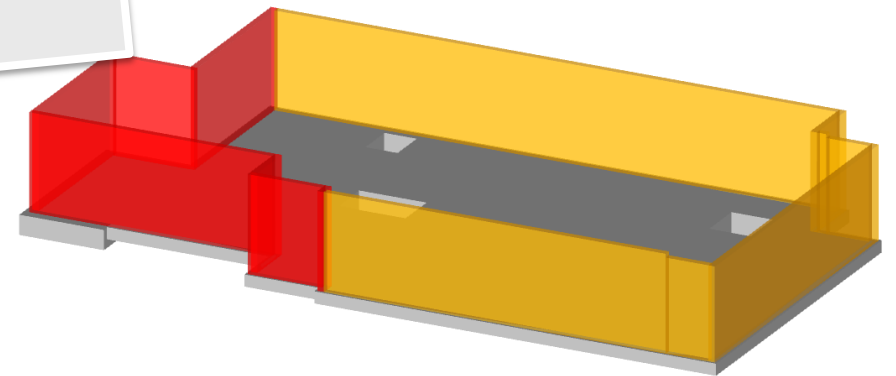


Element information

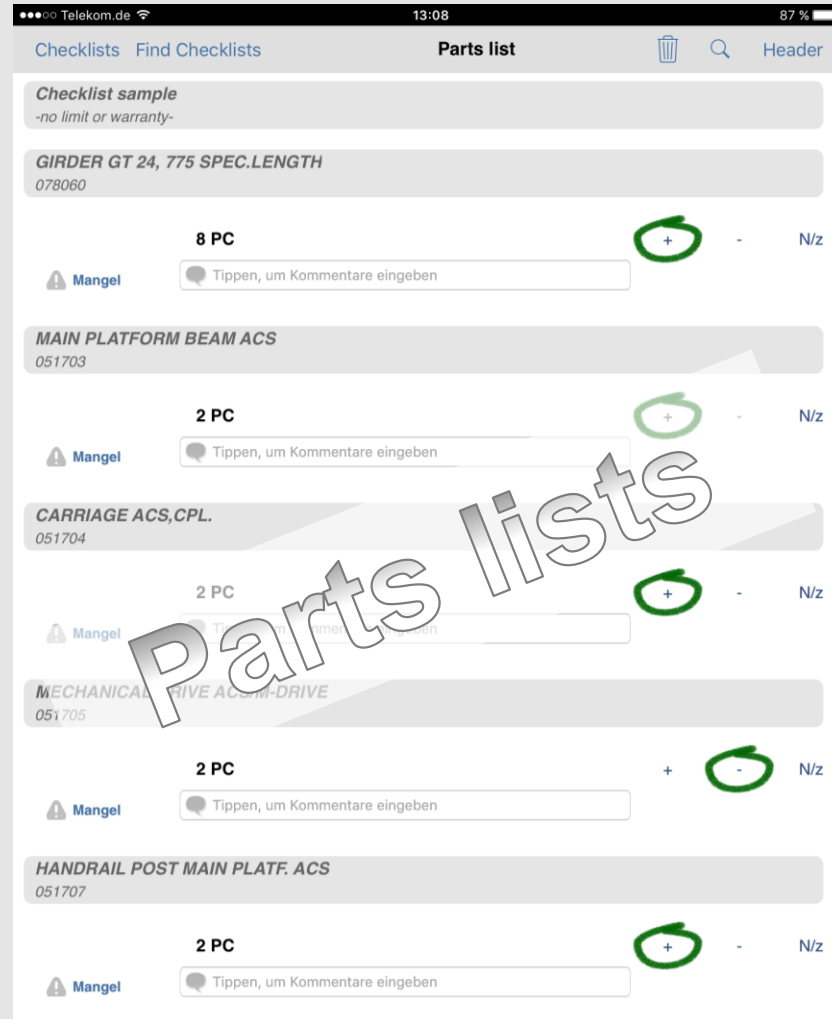
- Properties
- Drawings
- Location
- ...



- Linked Information
- QR-Codes
- **Status-Tracking**



- Linked Information
- QR-Codes
- Status-Tracking
- **Checklists**



Checklists Find Checklists Parts list Header

Checklist sample
-no limit or warranty-

GIRDER GT 24, 775 SPEC.LENGTH
078060

8 PC + - N/z

Mangel Tappen, um Kommentare eingeben

MAIN PLATFORM BEAM ACS
051703

2 PC + - N/z

Mangel Tappen, um Kommentare eingeben

CARRIAGE ACS,CPL.
051704

2 PC + - N/z

Mangel Tappen, um Kommentare eingeben

MECHANICAL DRIVE ACS-M-DRIVE
051705

2 PC + - N/z

Mangel Tappen, um Kommentare eingeben

HANDRAIL POST MAIN PLATE ACS
051707

2 PC + - N/z

Mangel Tappen, um Kommentare eingeben

Parts lists

- Linked Information
- QR-Codes
- Status-Tracking
- **Checklists**

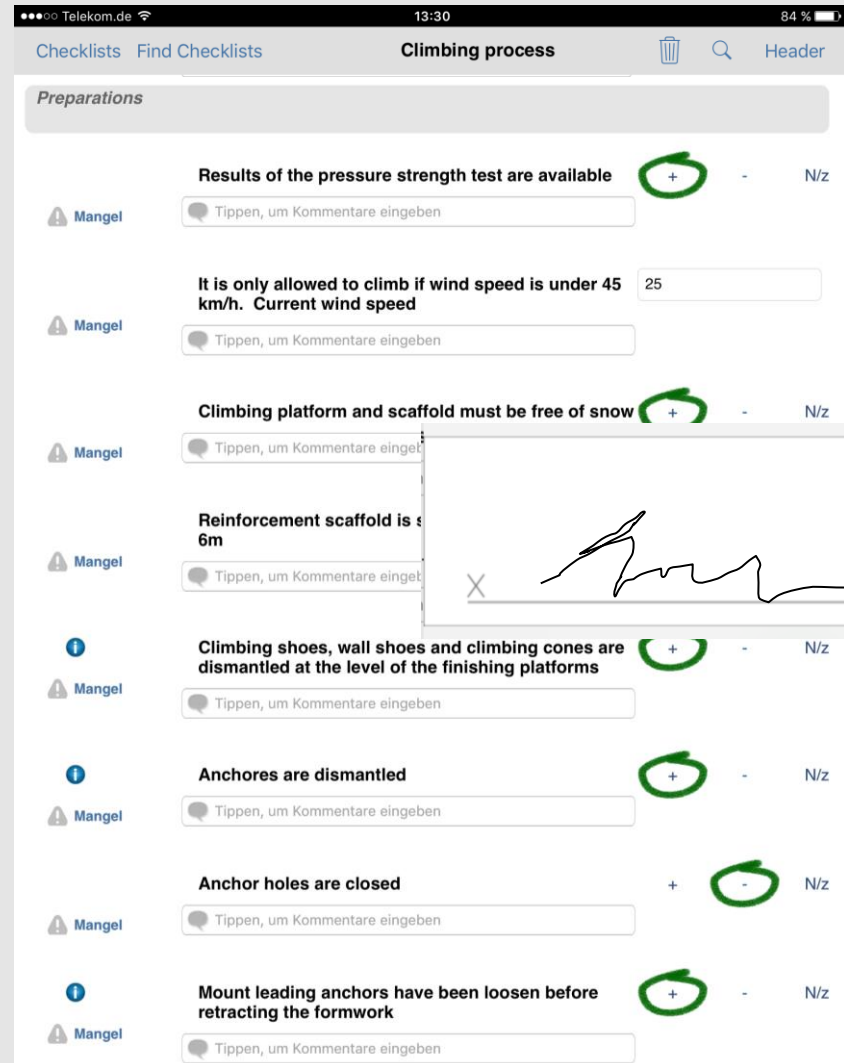


The screenshot shows a mobile application interface for a 'Climbing process' checklist. The app is running on a device with 'Telekom.de' as the carrier and 84% battery. The interface includes a header with 'Checklists', 'Find Checklists', and a 'Header' button. Below the header, there is a section titled 'Preparations'. The checklist items are as follows:

Item	Status	Comments
Results of the pressure strength test are available	+	N/z
It is only allowed to climb if wind speed is under 45 km/h. Current wind speed	25	
Climbing platform and scaffold must be free of snow	+	N/z
Reinforcement for the slip door to a high of	+	N/z
Climbing shoes, wall shoes and climbing ladders are dismantled at the level of the climbing platforms	+	N/z
Anchor holes are dismantled	+	N/z
Anchor holes are closed	+	N/z
Mount leading anchors have been loosen before retracting the formwork	+	N/z

Each item has a 'Mangel' (Defect) icon and a 'Tippen, um Kommentare eingeben' (Tap to enter comments) button. A large 'Safety - Checklists' watermark is overlaid on the screen.

- Linked Information
- QR-Codes
- Status-Tracking
- **Checklists**

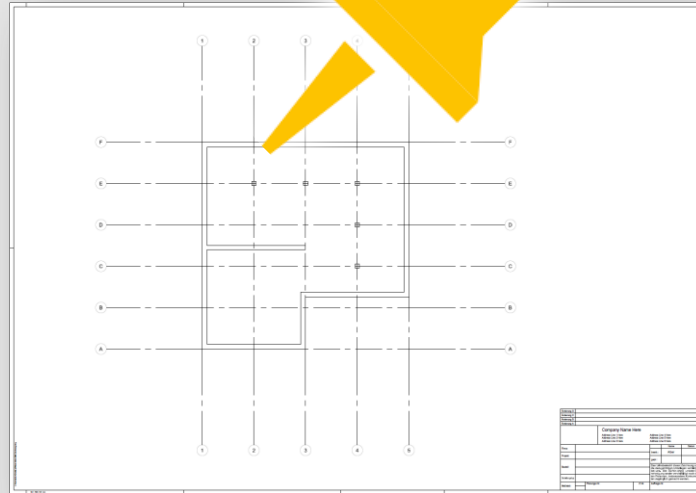


The screenshot shows a mobile application interface for a "Climbing process" checklist. The app is running on a device with a Telekom.de network connection, 13:30 time, and 84% battery. The interface includes a header with "Checklists", "Find Checklists", and a "Header" button. The main content area is titled "Preparations" and lists several checklist items, each with a status indicator (plus or minus sign) and a "N/z" (Not applicable) option. The items are:

- Results of the pressure strength test are available** (Status: +, N/z)
- It is only allowed to climb if wind speed is under 45 km/h. Current wind speed** (Status: 25, N/z)
- Climbing platform and scaffold must be free of snow** (Status: +, N/z)
- Reinforcement scaffold is 6m** (Status: +, N/z)
- Climbing shoes, wall shoes and climbing cones are dismantled at the level of the finishing platforms** (Status: +, N/z)
- Anchores are dismantled** (Status: +, N/z)
- Anchor holes are closed** (Status: +, N/z)
- Mount leading anchors have been loosen before retracting the formwork** (Status: +, N/z)

Each item has a "Tippen, um Kommentare eingeben" (Tap to enter comments) button. A signature is visible over the "Reinforcement scaffold is 6m" item, and a green circle highlights the "+" status indicator for the "Results of the pressure strength test are available" item.

- Linked Information
- QR-Codes
- Status-Tracking
- Checklists
- **Issues**



2D



3D

- Linked Information
- QR-Codes
- Status-Tracking
- Checklists
- **Issues**



New Issue

Attachments (0)

Comments (0)

Issue type
Punch List : Issue

Sources
BUILDING STRUCTURE + level 6

Company

Status
Open

Date created
Fri 23/09/16

Author
sabine.silber@peri.de

Root cause

Due date
Sat 24/09/16

Location detail

Location
Platzmarkt

Description

Pictures, drawings, documents, ...

Who is responsible?

Status

When should it be solved?

...

BIM from the perspective of PERI

Thank you for your attention!

