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Progress is built on ideas.

FROM **BIM** TO REAL

Implementation of BIM collaboration methods in a construction company

Lejla Secerbegovic, Architect / BIM & Revit Expert

BIMAARHUS

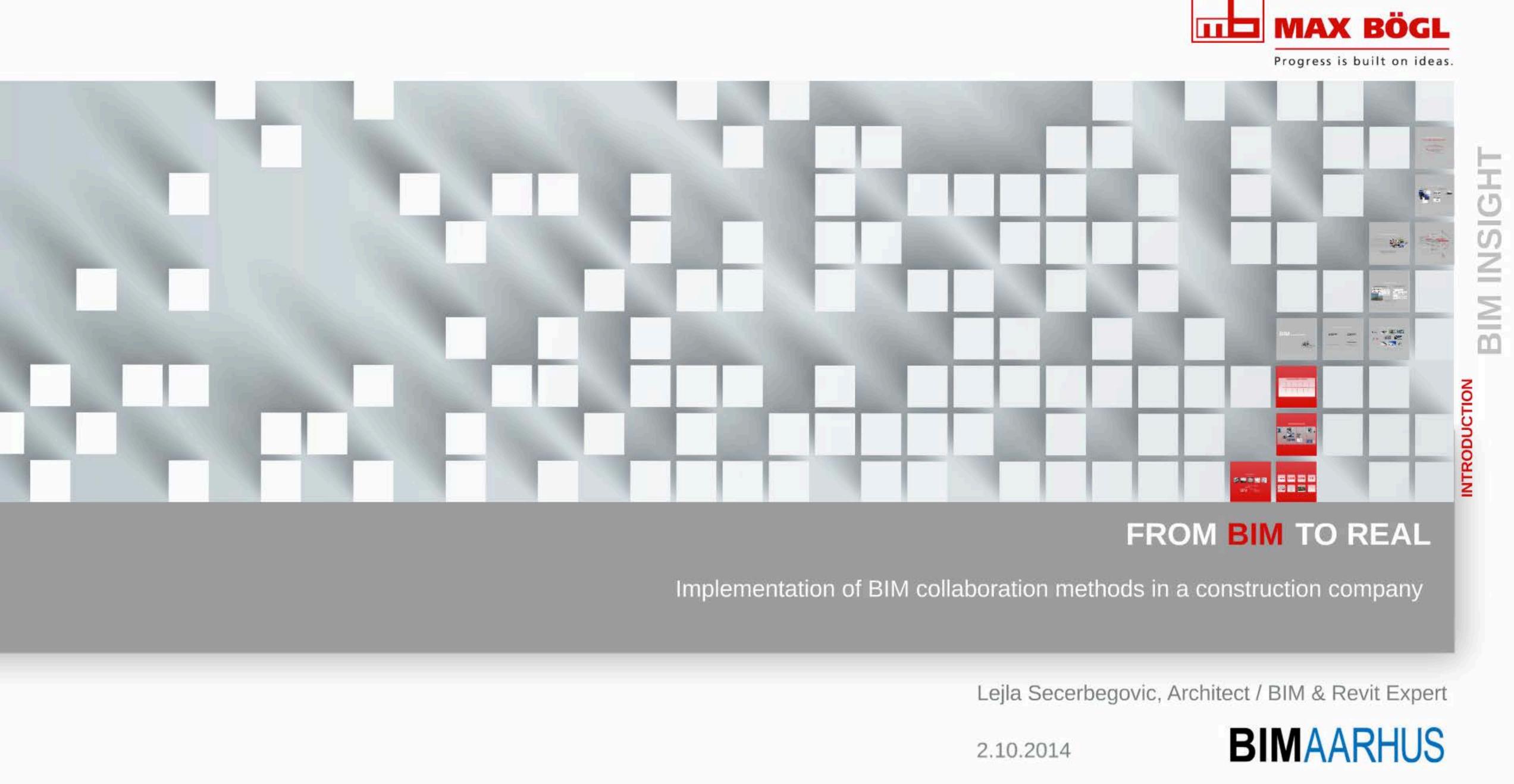
2.10.2014



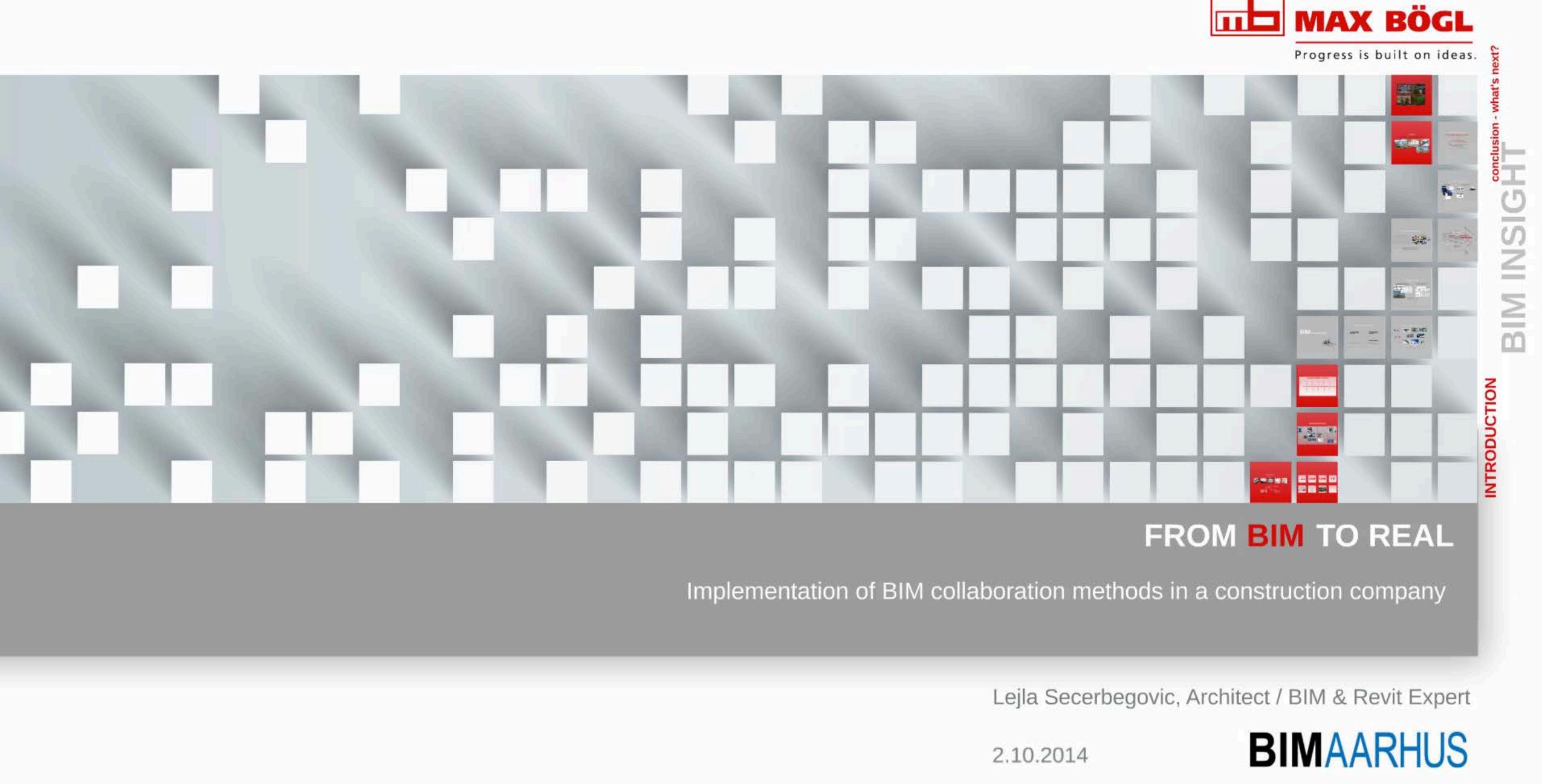














Lejla Secerbegovic

Born in Banjaluka, Bosnia & Herzegovina



Relocation to Austria



Diploma in Architecture **@TU VIENNA**



DIGITAL MEDIA TECHNOLOGY **WEBDESIGN** DESIGN SCRIPTING

REVIT

PHOTOSHOP

Active in various Architectural offices

2003-12

Member of the BIM Team @Max Bögl





1929 founded









Main Headquarter in Sengenthal near Neumarkt



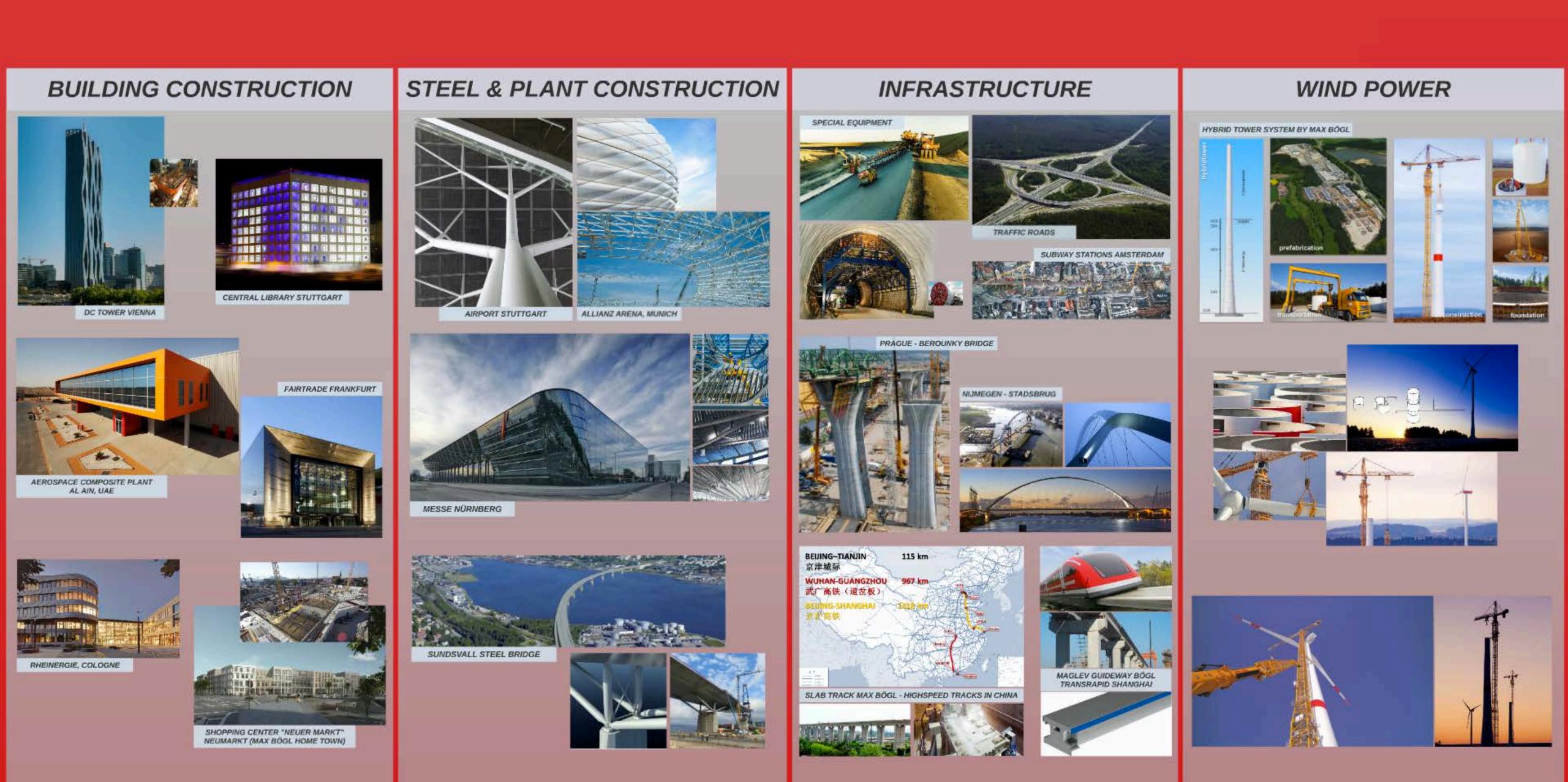
3 Words about Max Bögl

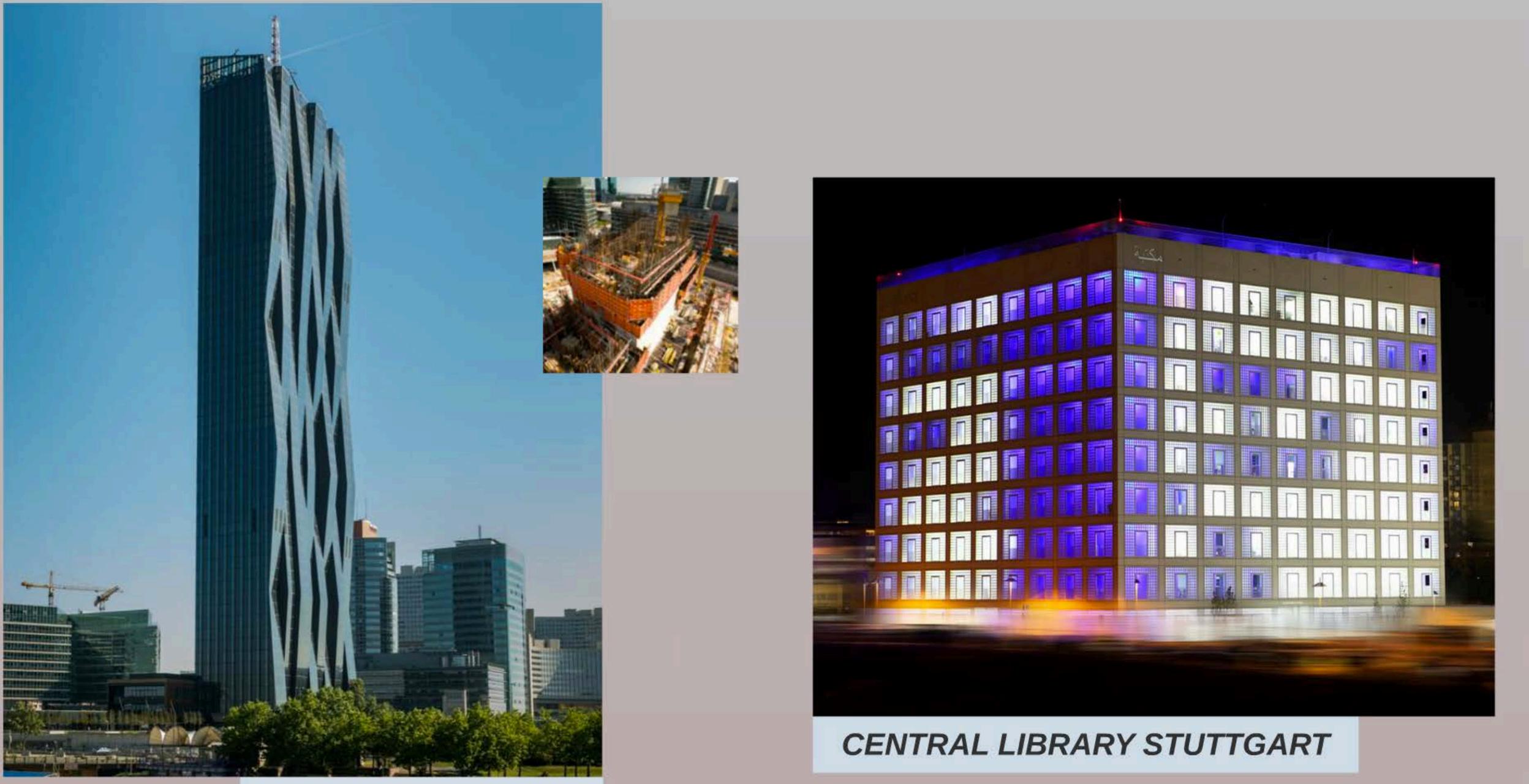
INNOVATION

PREFABRICATION



OPERATING AREAS





DC TOWER VIENNA



AEROSPACE COMPOSITE PLANT AL AIN, UAE



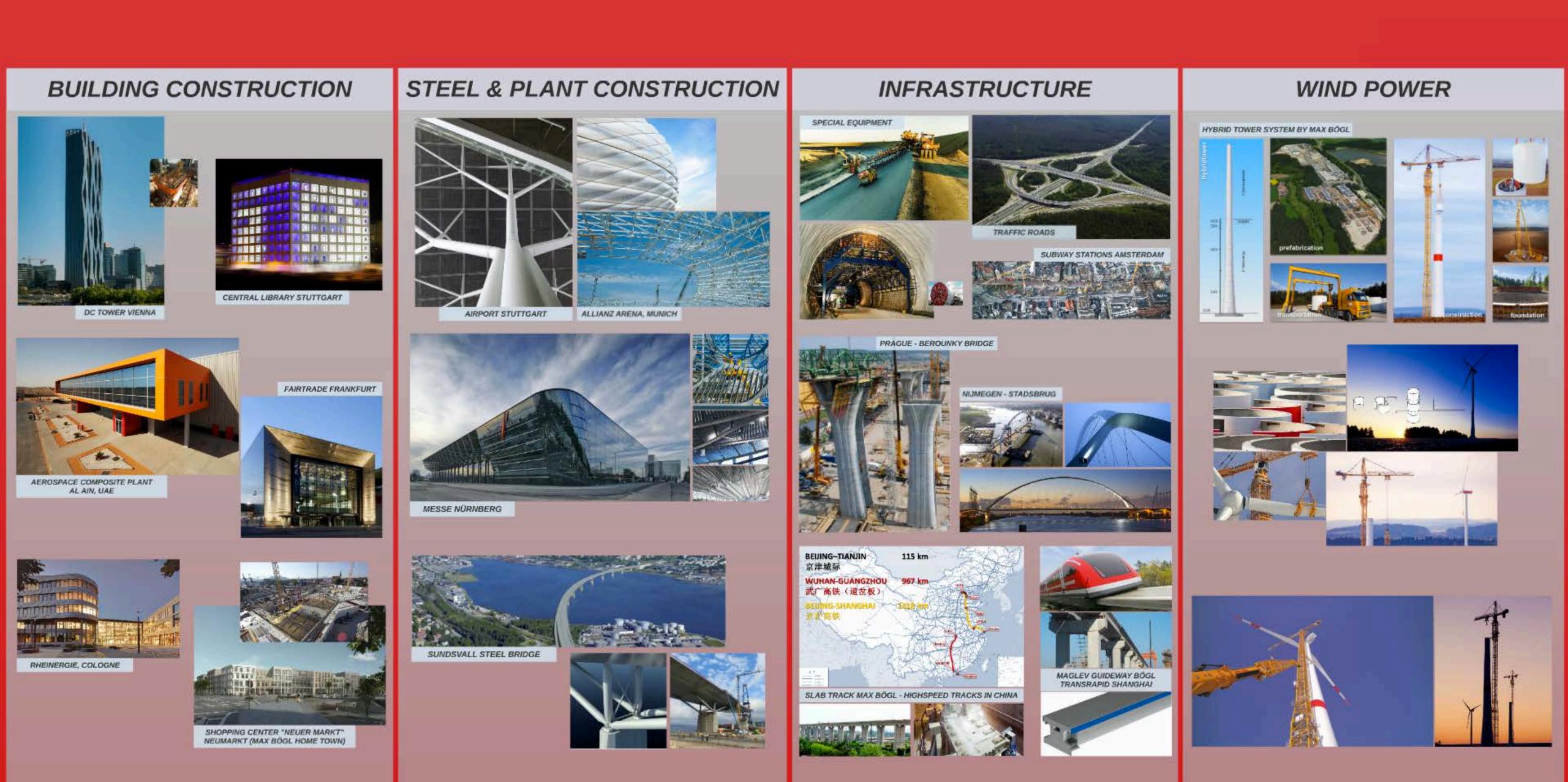


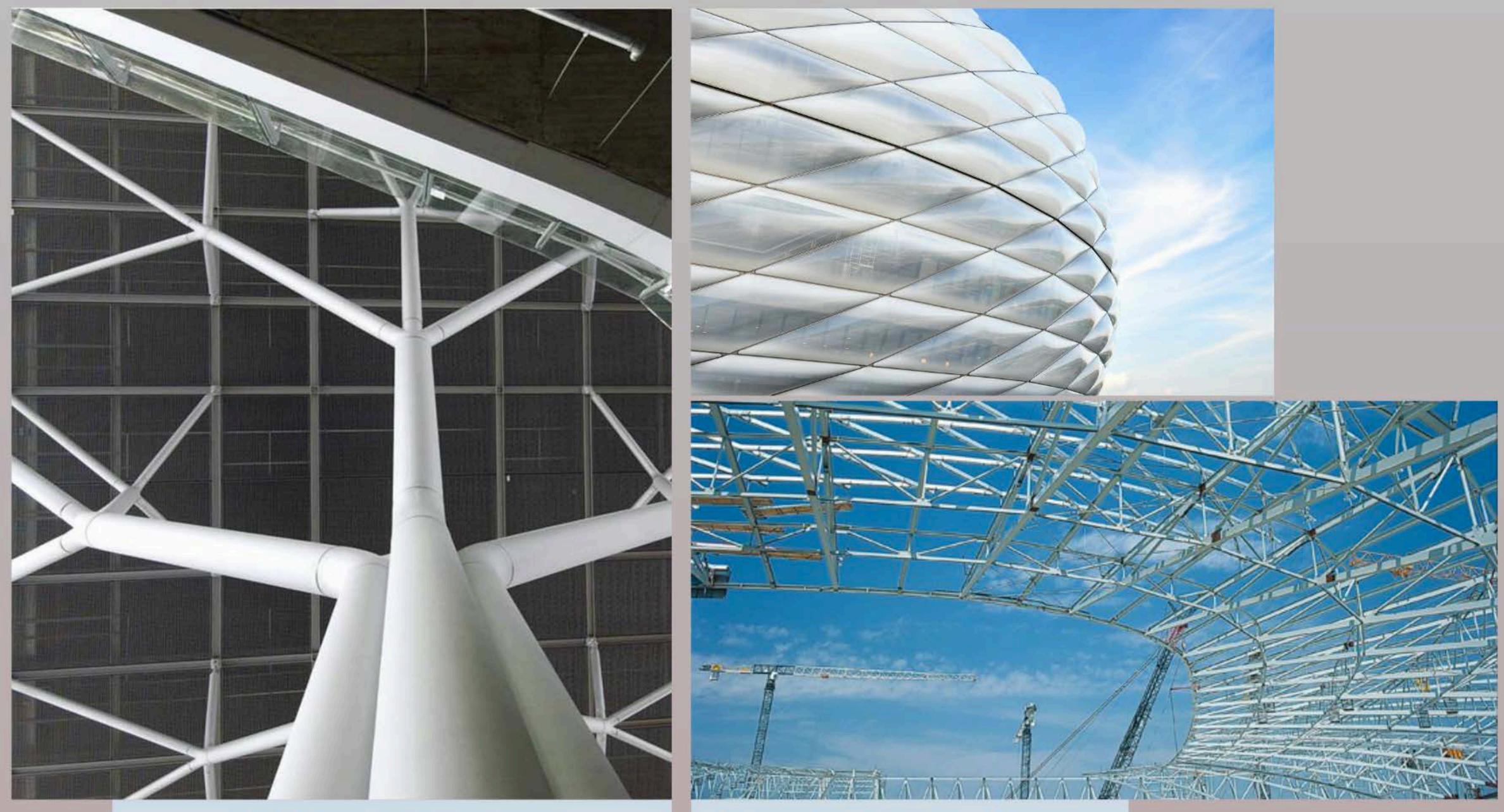
RHEINERGIE, COLOGNE



SHOPPING CENTER "NEUER MARKT" NEUMARKT (MAX BÖGL HOME TOWN)

OPERATING AREAS





AIRPORT STUTTGART

ALLIANZ ARENA, MUNICH



MESSE NÜRNBERG

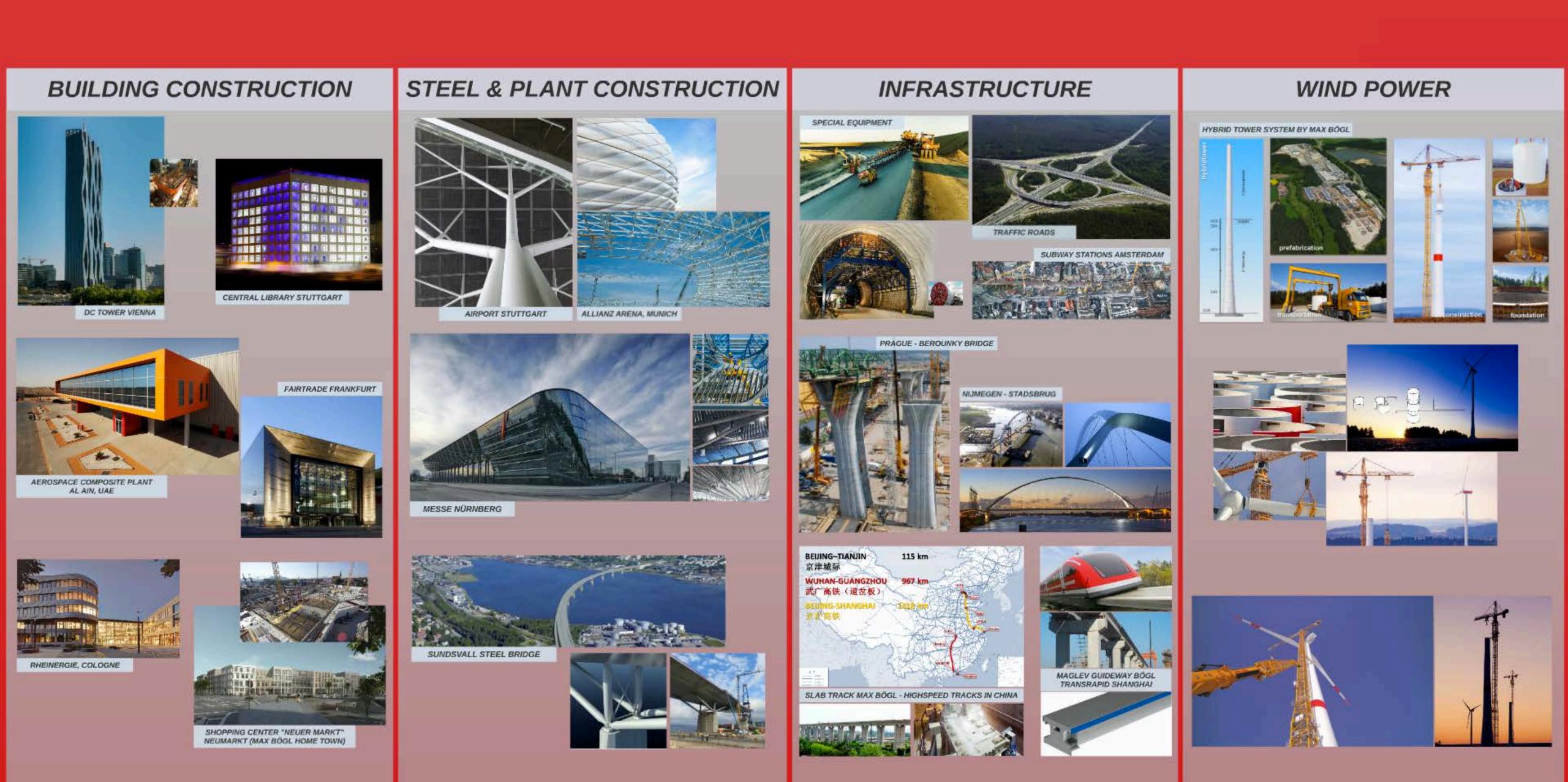


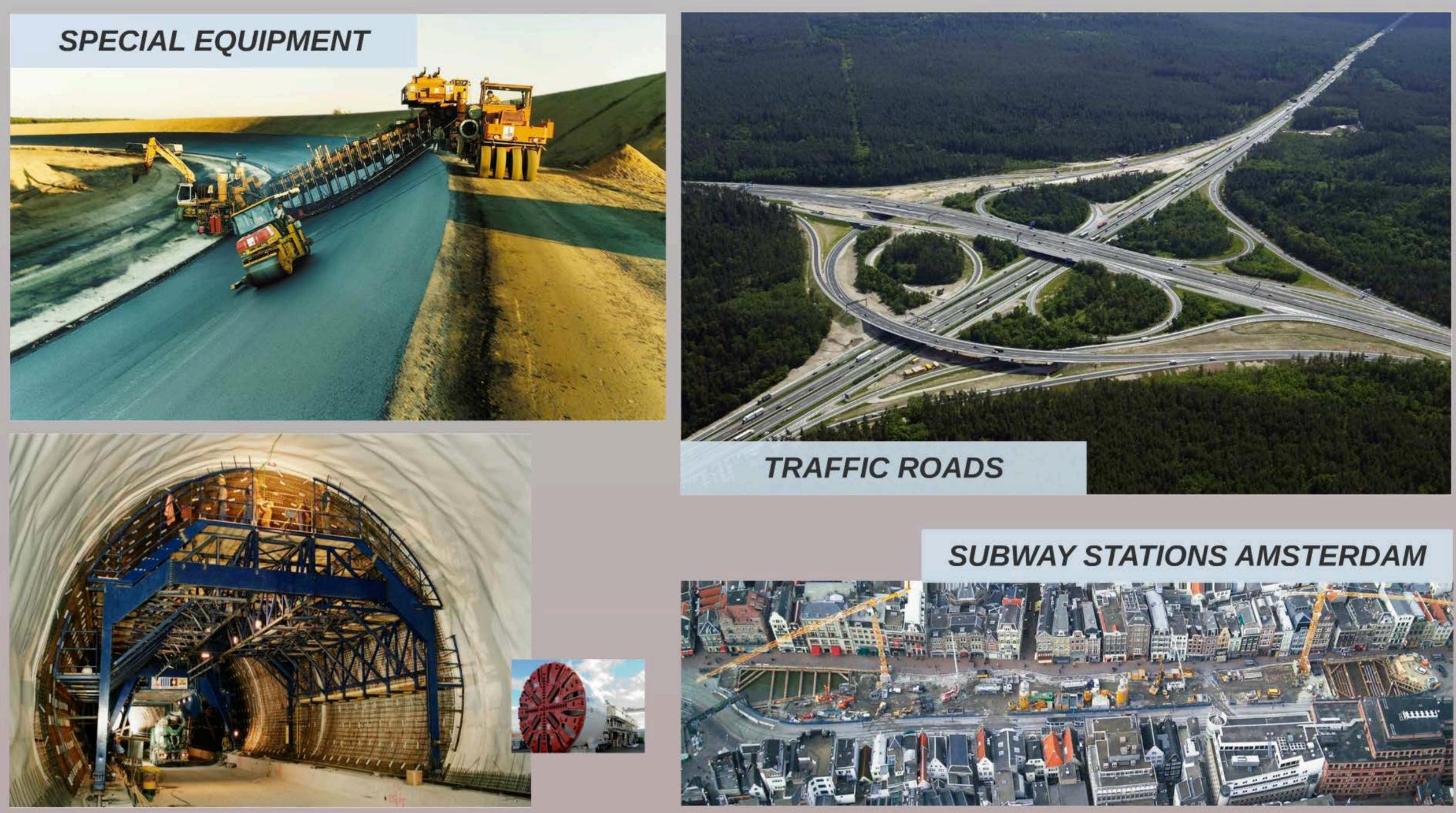
SUNDSVALL STEEL BRIDGE





OPERATING AREAS









SLAB TRACK MAX BÖGL - HIGHSPEED TRACKS IN CHINA





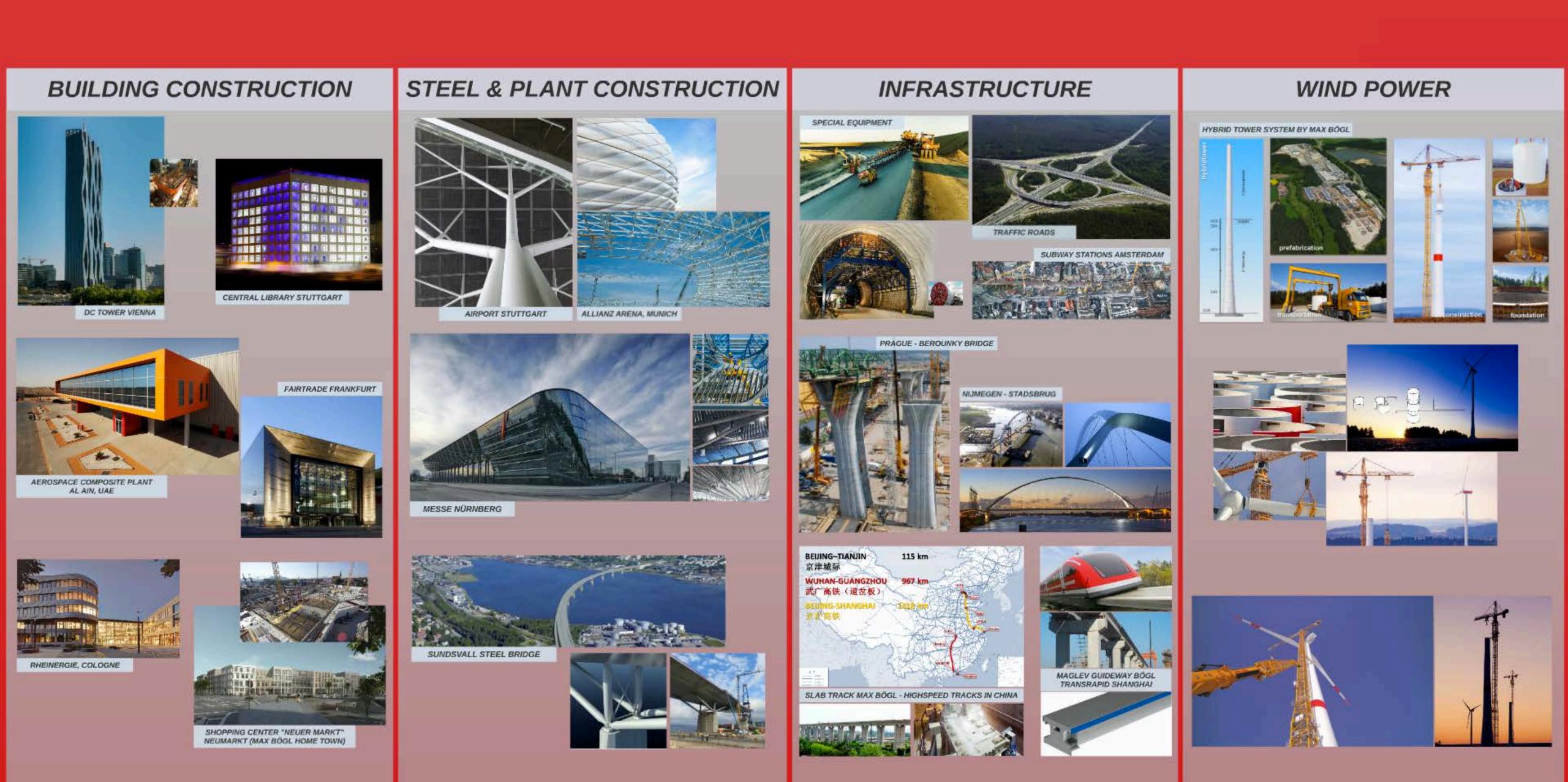


MAGLEV GUIDEWAY BÖGL TRANSRAPID SHANGHAI

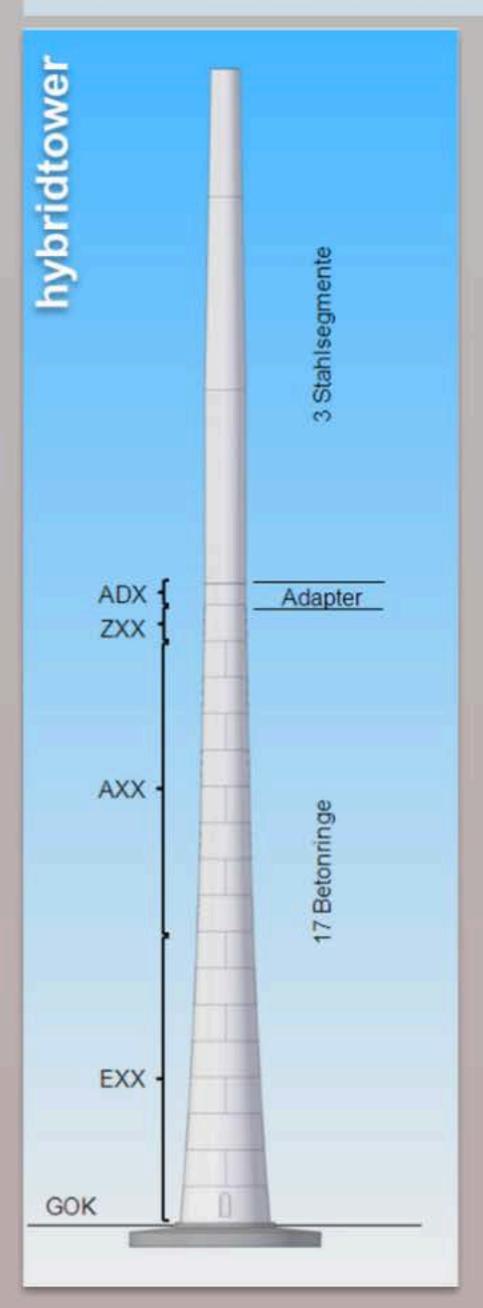




OPERATING AREAS



HYBRID TOWER SYSTEM BY MAX BÖGL









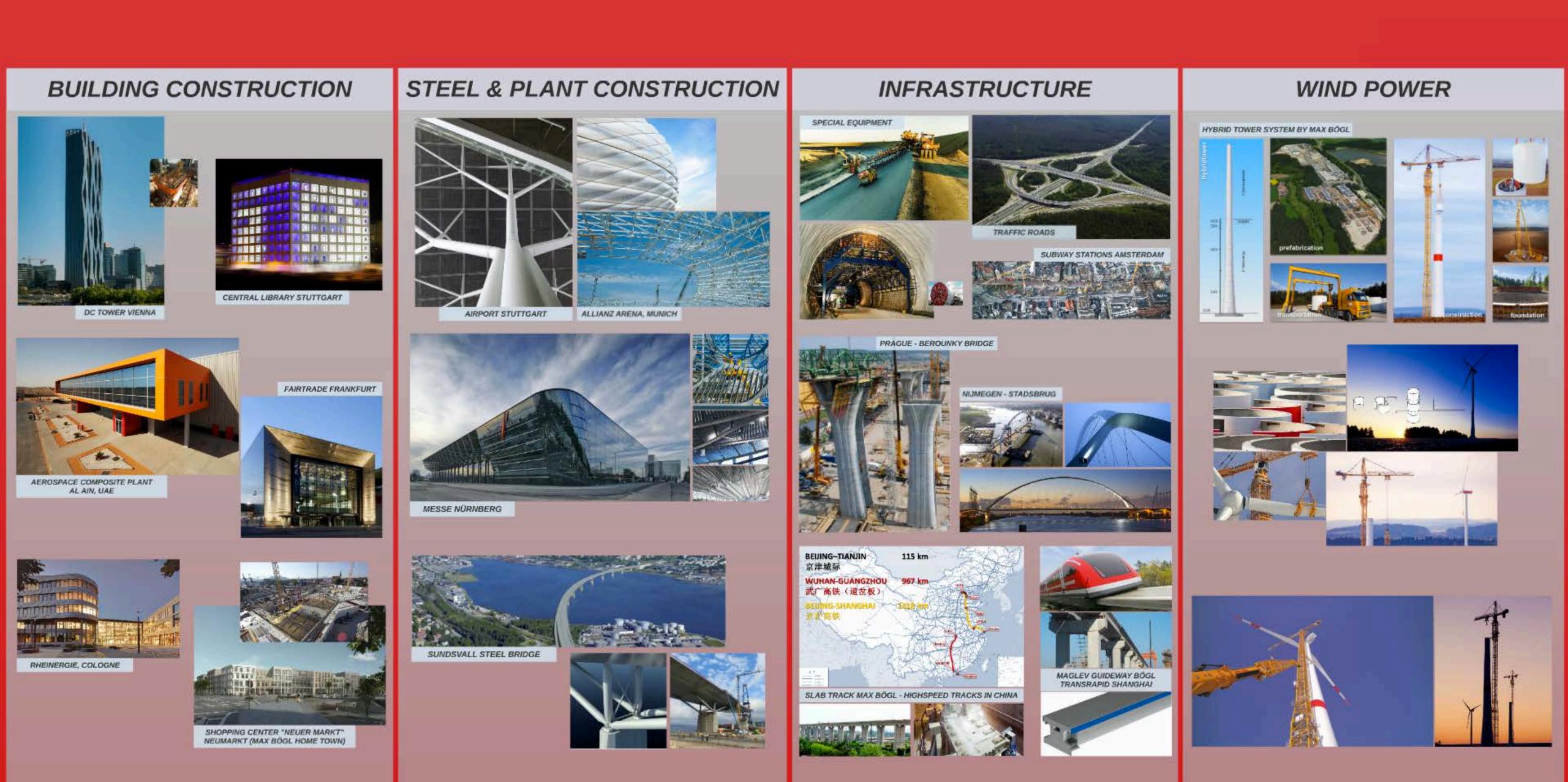








OPERATING AREAS



BIM DEVELOPMENT OVERVIEW



1995



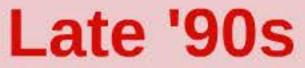
> 800 projects realized with BIM methods





Acquirement and modernisation of several prefabrication facilities





"The future of the building Industry" Visionary movie clip by Max Bögl & Fraunhofer Institute







First construction company to implement SAP



Century leap

Cooperations with educational instutions











Establising of the Max Bögl BIM TEAM

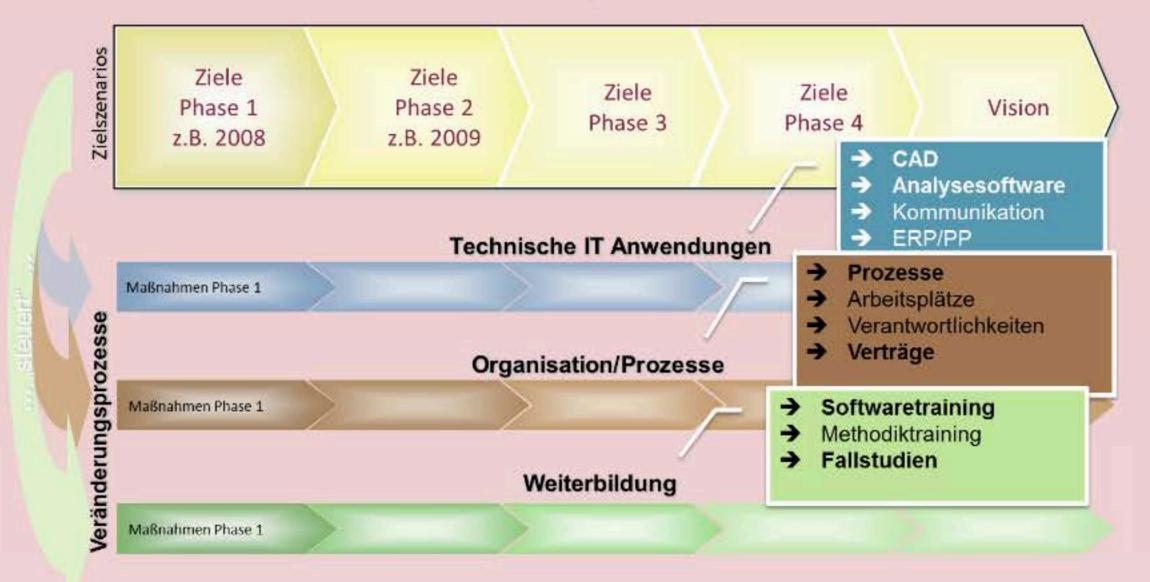




First 2k decade

BIM Change Management Concept

Veränderungsschritte







Evaluation and beginning of the Implementation of BIM software





SIEMENS **N**X



By the end of 2010...

Innovation Centre in the Headquarter Sengenthal serving as an inhouse BIM training centre





Research and Awards

Research Projects about BIM topics with renowned German institutions



BIM Awards



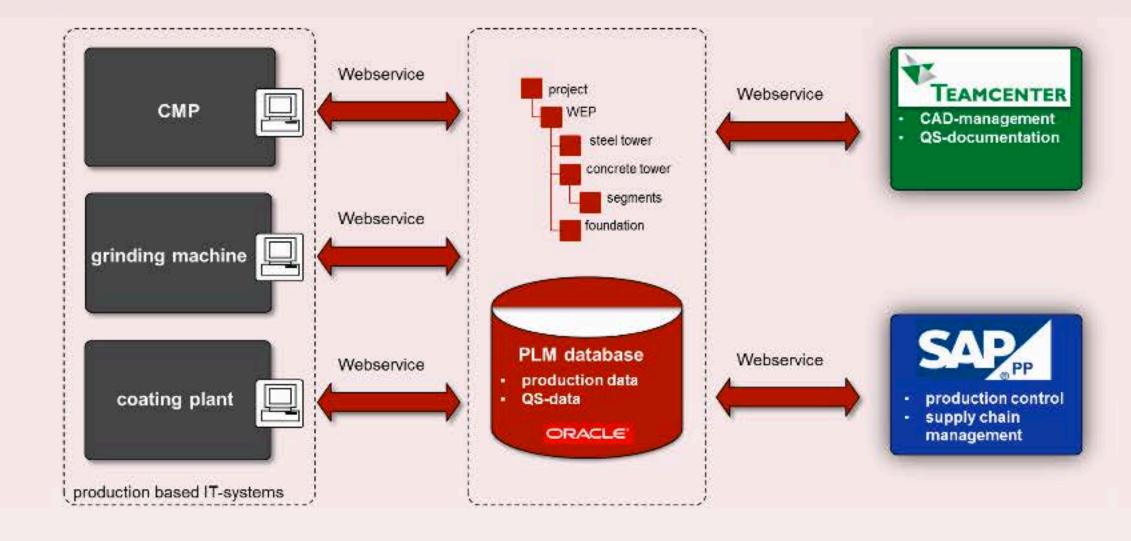






PLM @Wind Power since 2012

Current state: operational system





BIM @Facility Management since 2014

Current state: software evaluation





BIM DEVELOPMENT OVERVIEW



1995

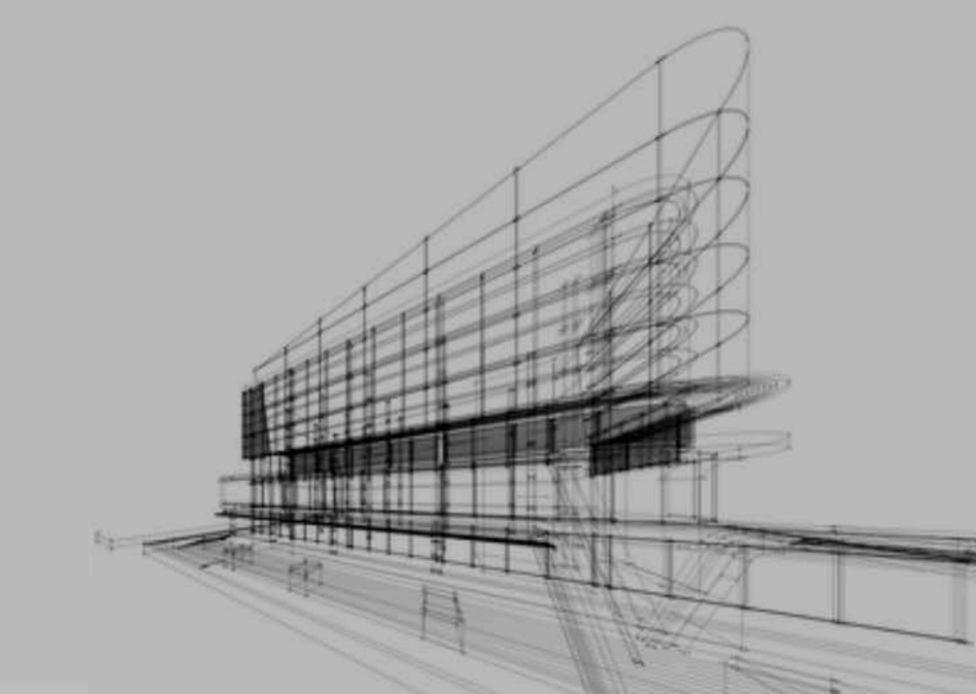


> 800 projects realized with BIM methods





BIM is not a software!



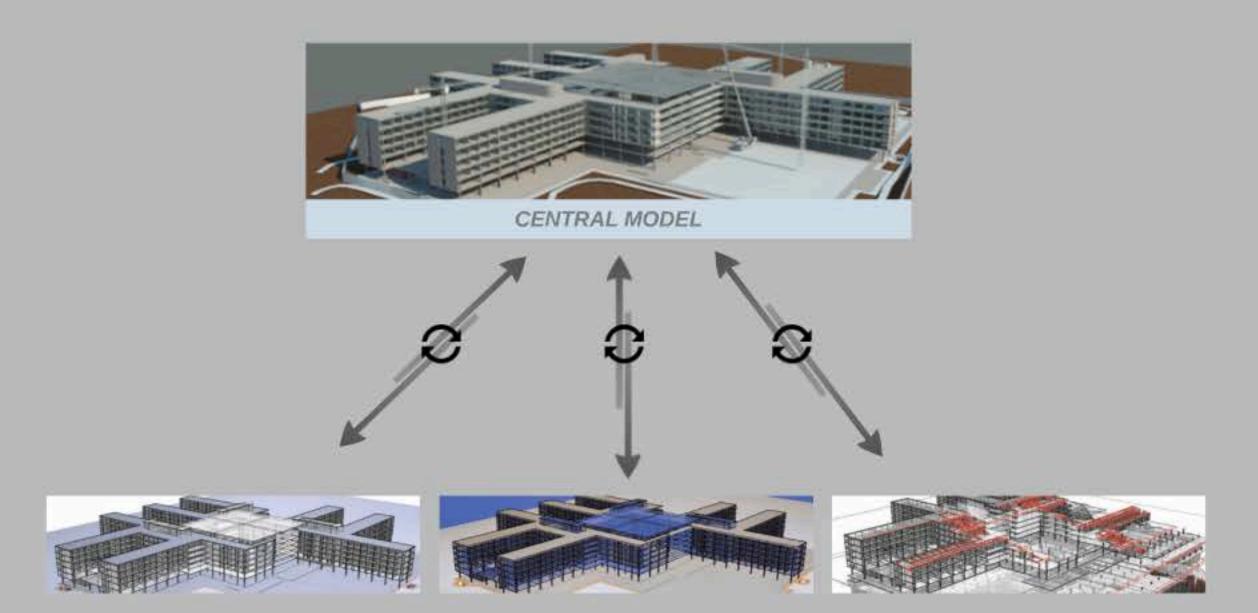
BIVI is not a software!

....but there is no BIM without software!



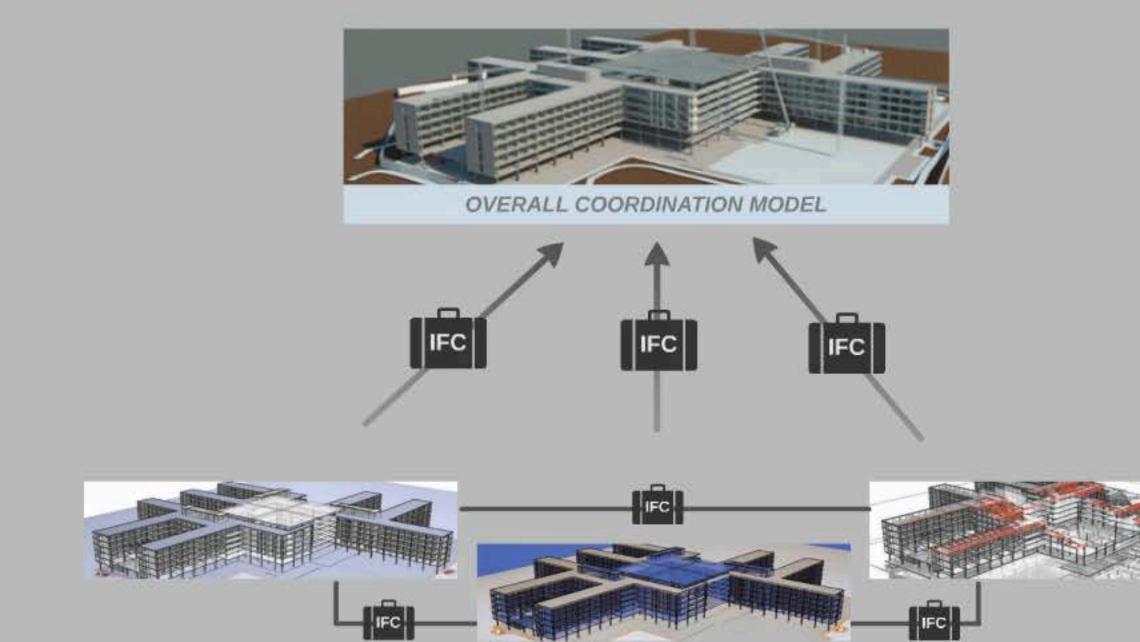
IT'S ALL ABOUT SOFTWARE (INTERFACES)

VISION



ALL PARTNERS USE THE SAME SOFTWARE PLATFORM
NO SOFTWARE INTERFACES NEEDED / AUTOMATIC SYNC
CHANGES ARE INSTANTLY VISIBLE TO EVERYONE

REALITY



MODELS FROM DIFFERENT SOFTWARE PLATFORMS
IFC AS THE MOST COMMON MODEL EXCHANGE FORMAT
SEPARATE MODEL FOR COORDINATION PURPOSES



MODELING SOFTWARE @MAX BÖGL











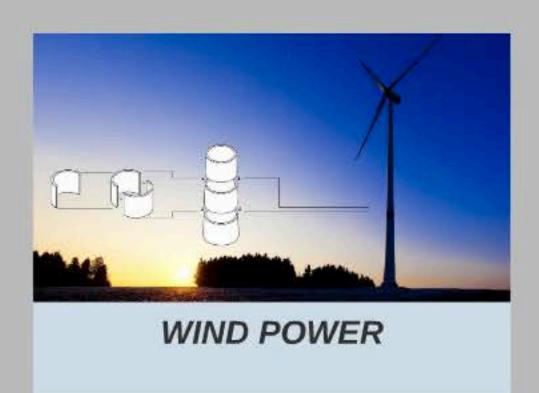


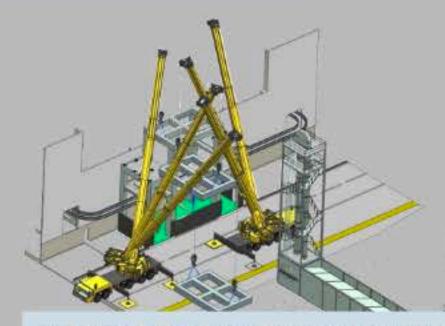






STEEL CONSTRUCTION

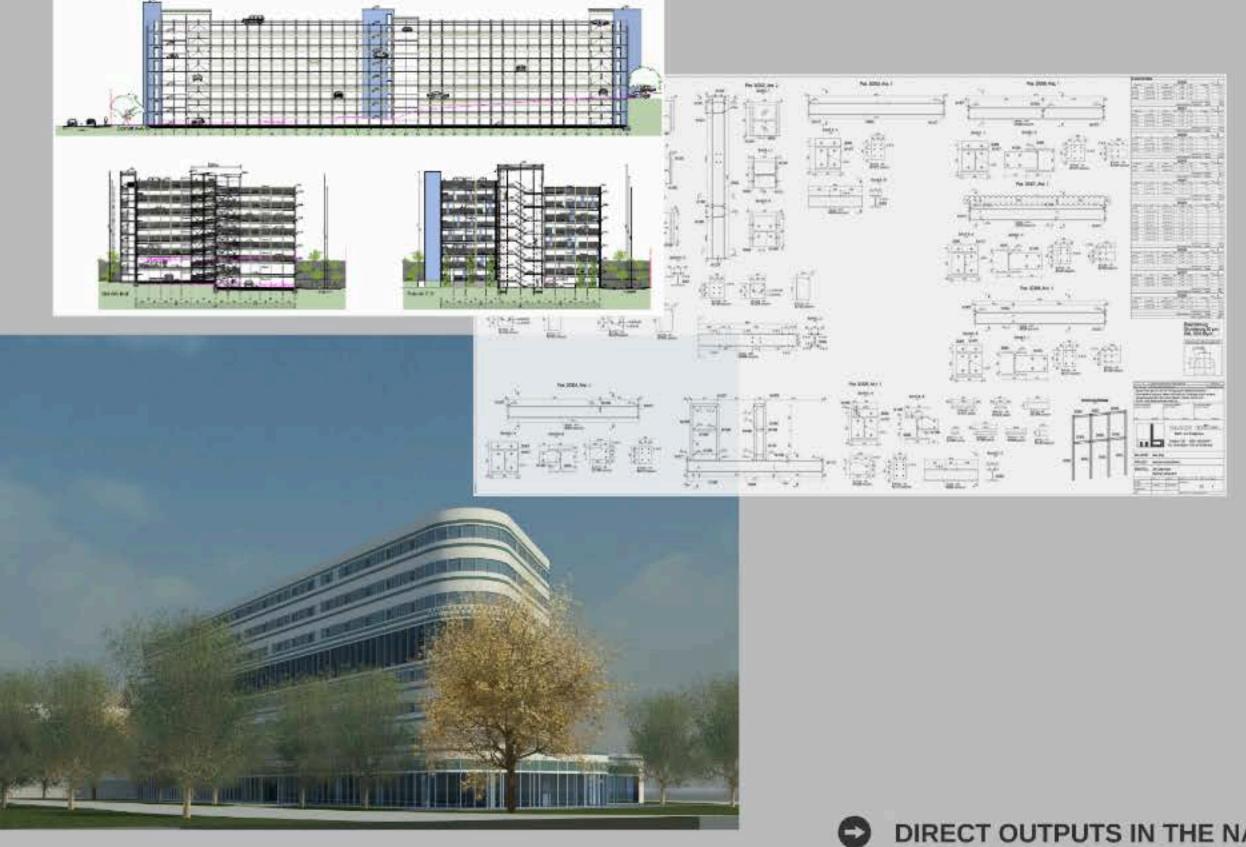




CONSTRUCTION MACHINES AND SITE EQUIPMENT

DIRECT MODEL OUTPUTS

DRAWINGS & VISUALISATIONS



DATA SHEETS & QUANTITIES

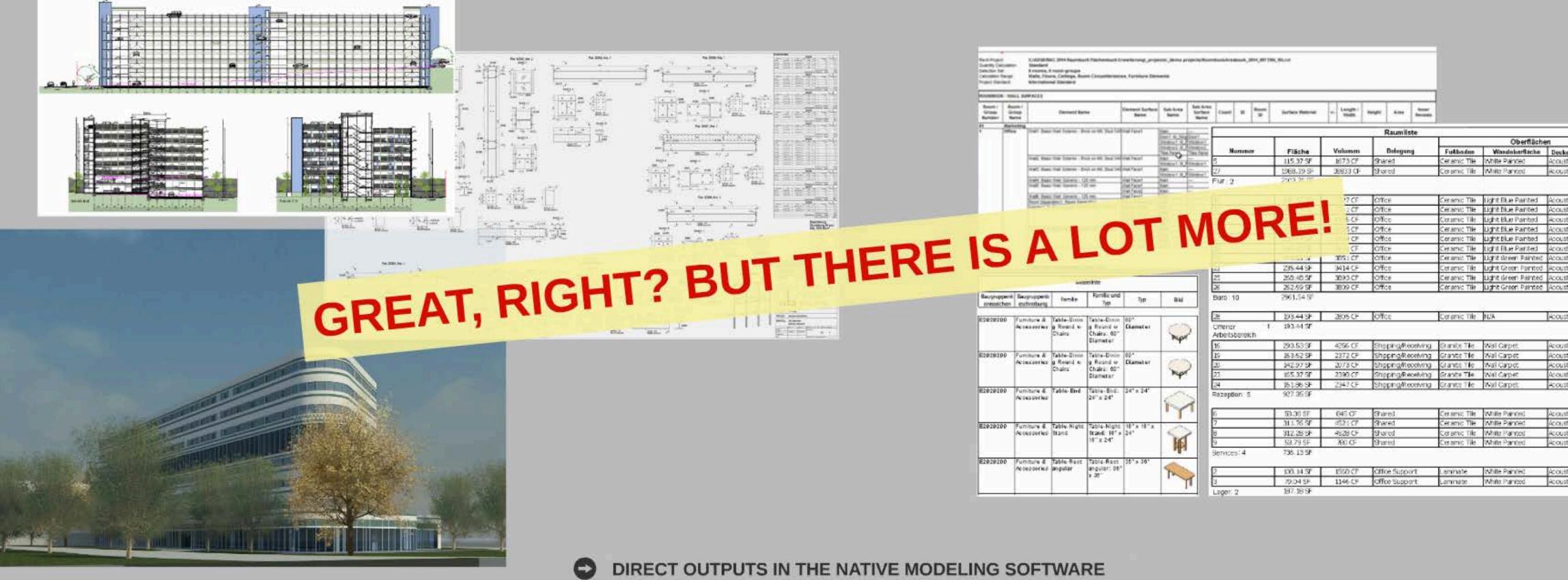
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DIRECT OUTPUTS IN THE NATIVE MODELING SOFTWARE

QUICK AND SIMPLE

DIRECT MODEL OUTPUTS

DRAWINGS & VISUALISATIONS



QUICK AND SIMPLE \mathbf{E}

DATA SHEETS & QUANTITIES

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GET THE MOST OUT OF YOUR MODEL!

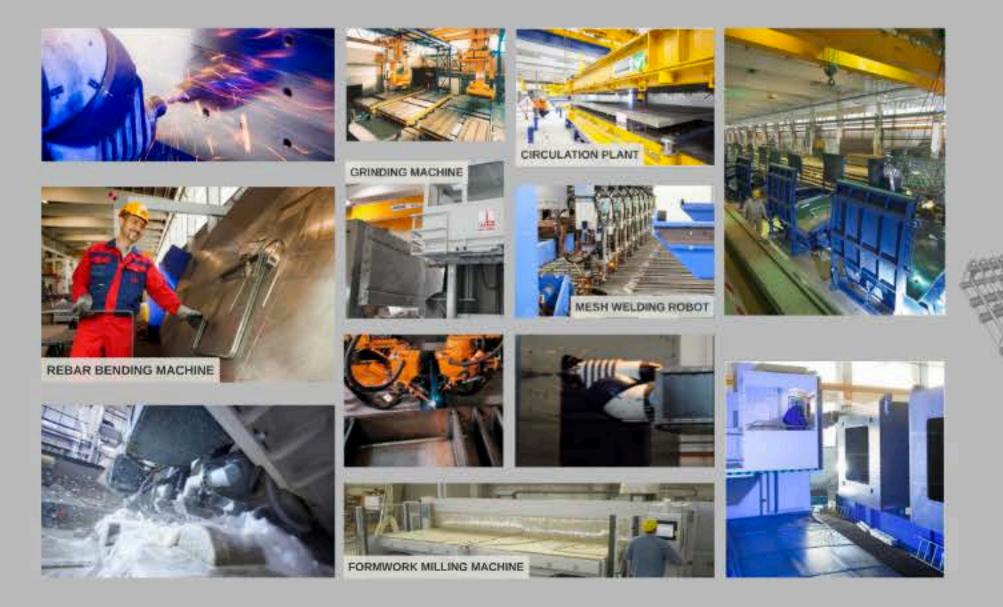
ANALYSIS, PM & COORDINATION SOFTWARE





THERE IS NO PLUG AND PLAY - OUR MODELS MUST SPEAK THE LANGUAGE OF ALL THESE TOOLS

PRODUCTION PROCESS









Collision checking Model coordination





Final quantity determination **Contract specifications 5D Project Management**

ceapoint desite MD **Building Information Modeling Solutions**

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 \Rightarrow

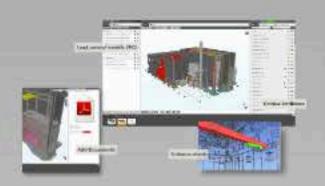
Assembly planning and simulation



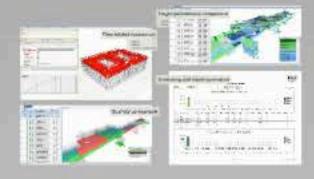
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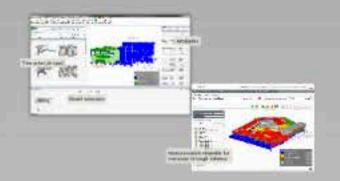
GLUE







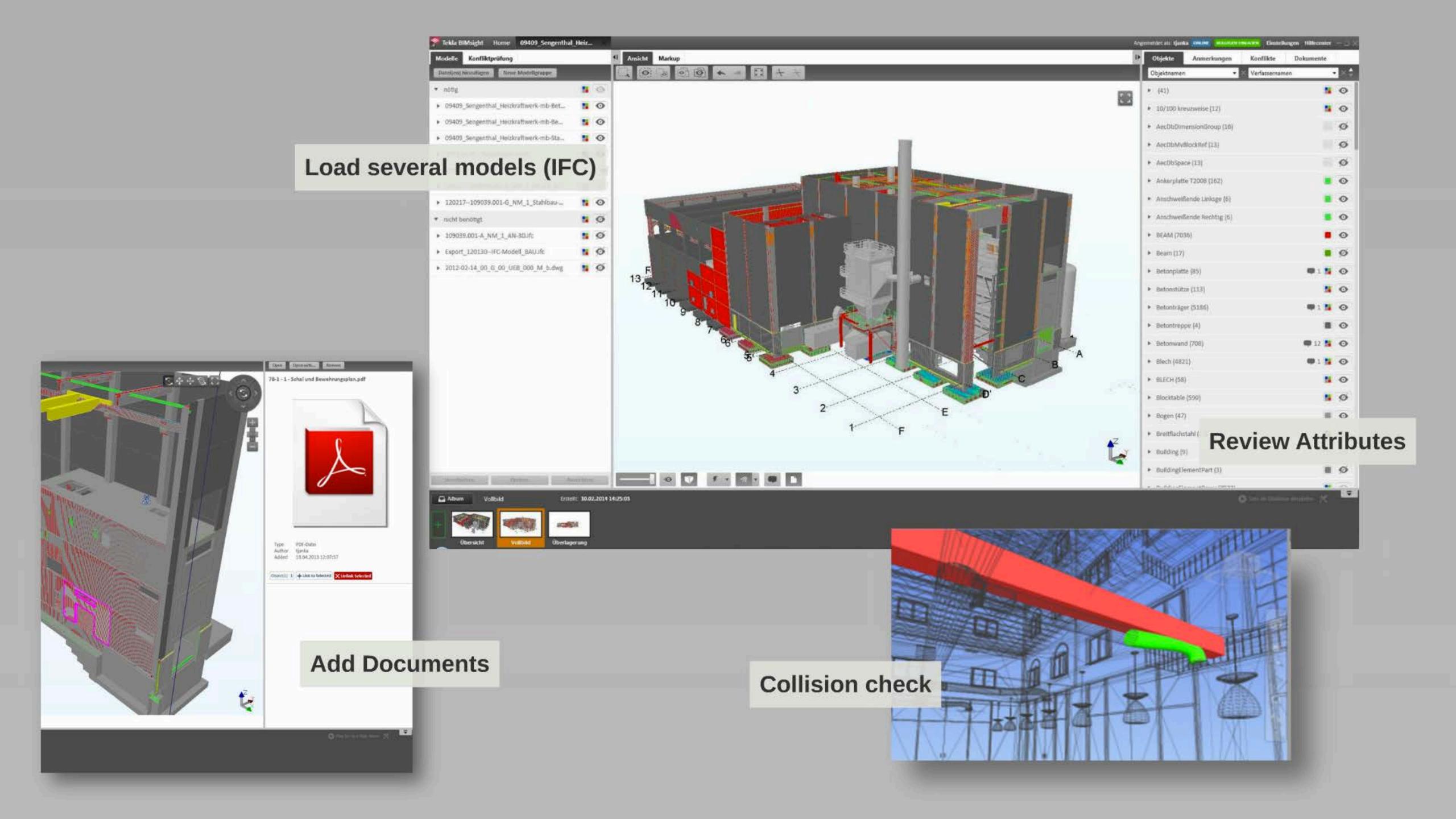
















Collision checking Model coordination





Final quantity determination **Contract specifications 5D Project Management**

ceapoint desite MD **Building Information Modeling Solutions**

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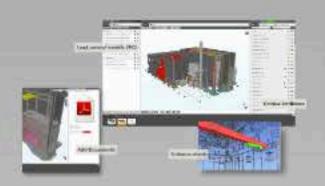
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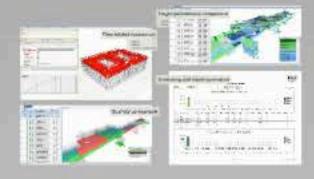
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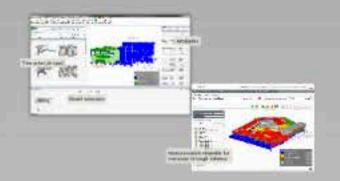
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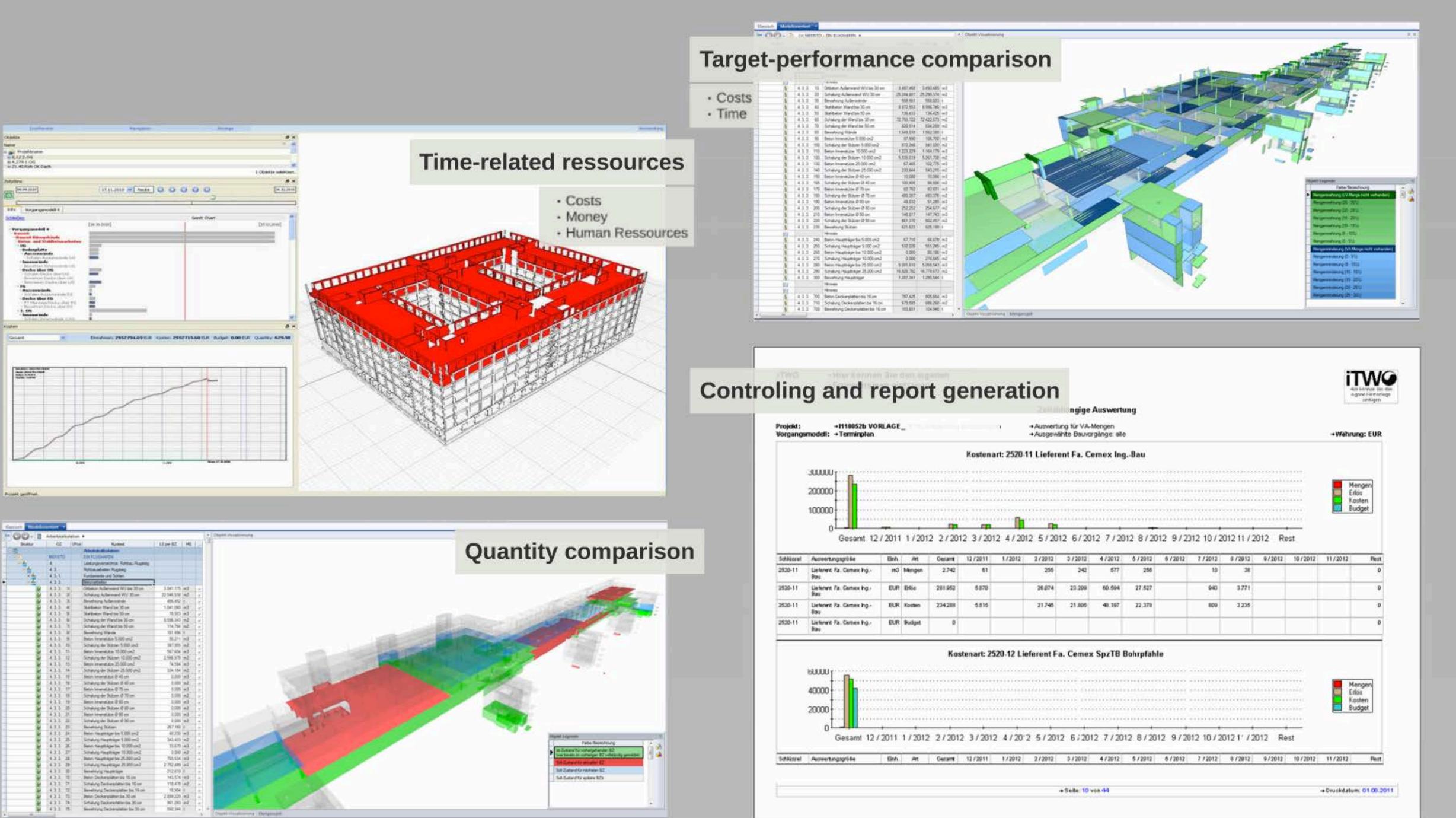












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	433 8 433 8 431 8 4318 431 8 431 8 441 8 4	Date: Invention & 20 es Schulung der Dolane & 20 es Beinertrag Schule Beinertrag Schule Undung Hauptrage 5000 m2 Schulung Hauptrage für 2000 un2 Schulung Hauptrage 10 2000 un2	1000 m3 + 1000 m2 + 2010 m + 4020 m2 + 300,400 m2 + 300,400 m2 + 50,504 m3 + 2000 m2 + 50,504 m3 + 200,000 m2 + 50,504 m3 + 200,000 m2 + 50,504 m3 + 200,000 m2 + 10,000 m2 + 10,0000 m2 + 10,000 m2 + 10,000 m2 + 10,0000 m2 + 10,0000 m	Fada. Texen/Forces M. Content for colorage/evolution R2 Texe Texent for colorage R2 collection of generations Texe Texent for colorage R2 Texe Texent for colorage R2 Texe Texent R2 Texe Texe Texe Texe Texe Texe Texe Texe Texe Texe Texe Texe Texe





Collision checking Model coordination





Final quantity determination **Contract specifications 5D Project Management**

ceapoint desite MD **Building Information Modeling Solutions**

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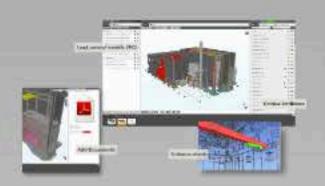
Assembly planning and simulation



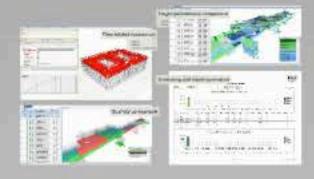
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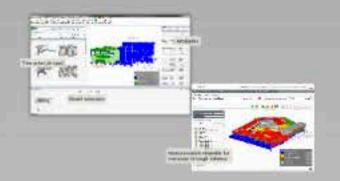
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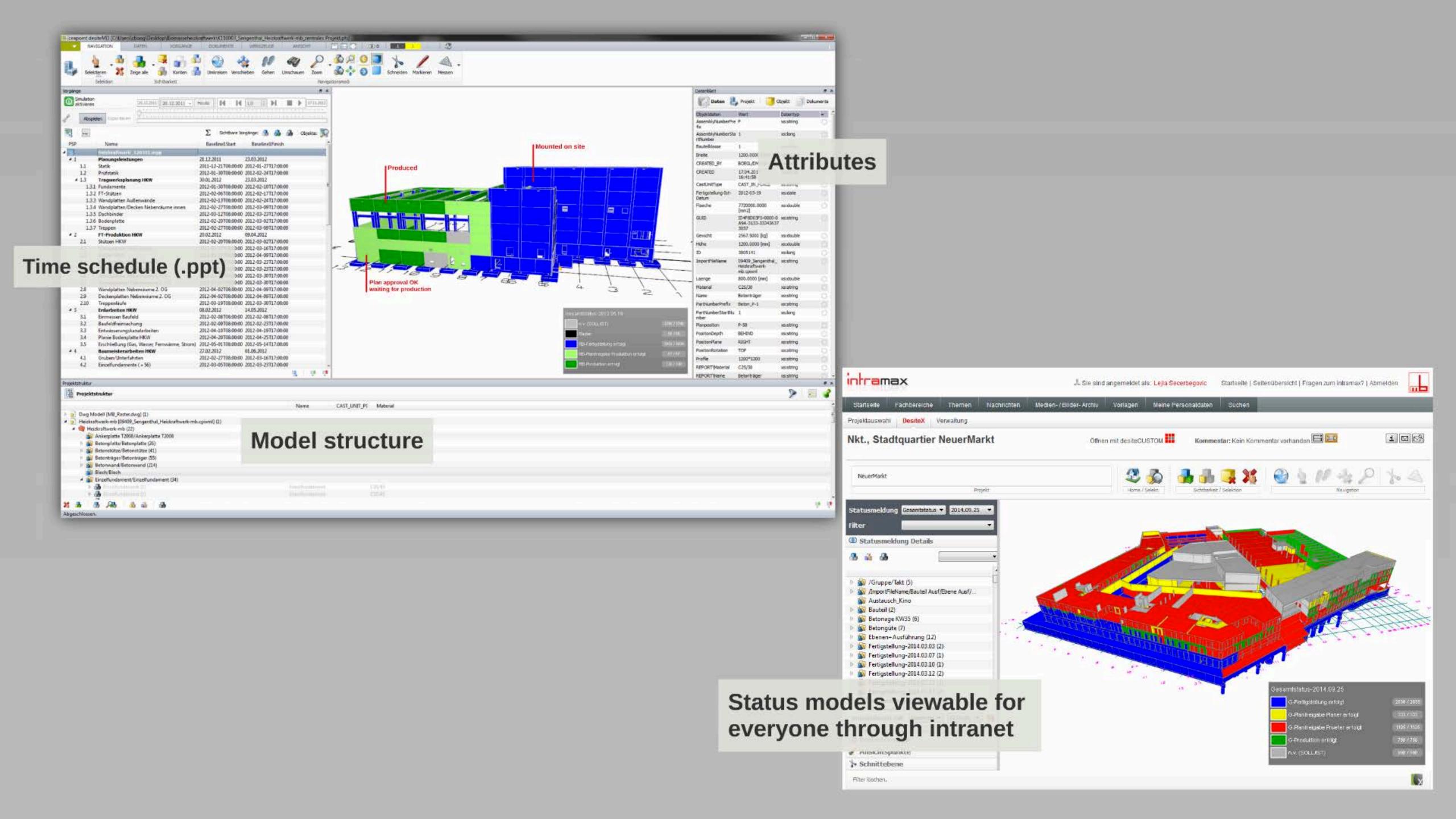
















Collision checking Model coordination





Final quantity determination **Contract specifications 5D Project Management**

ceapoint desite MD **Building Information Modeling Solutions**

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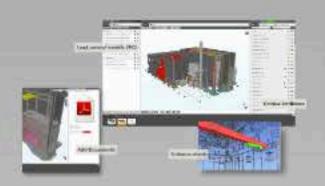
Assembly planning and simulation



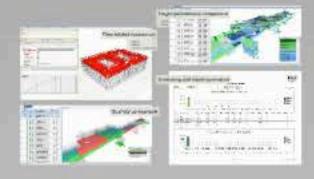
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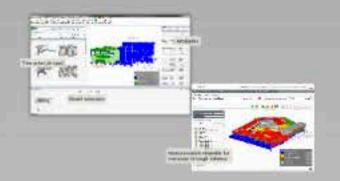
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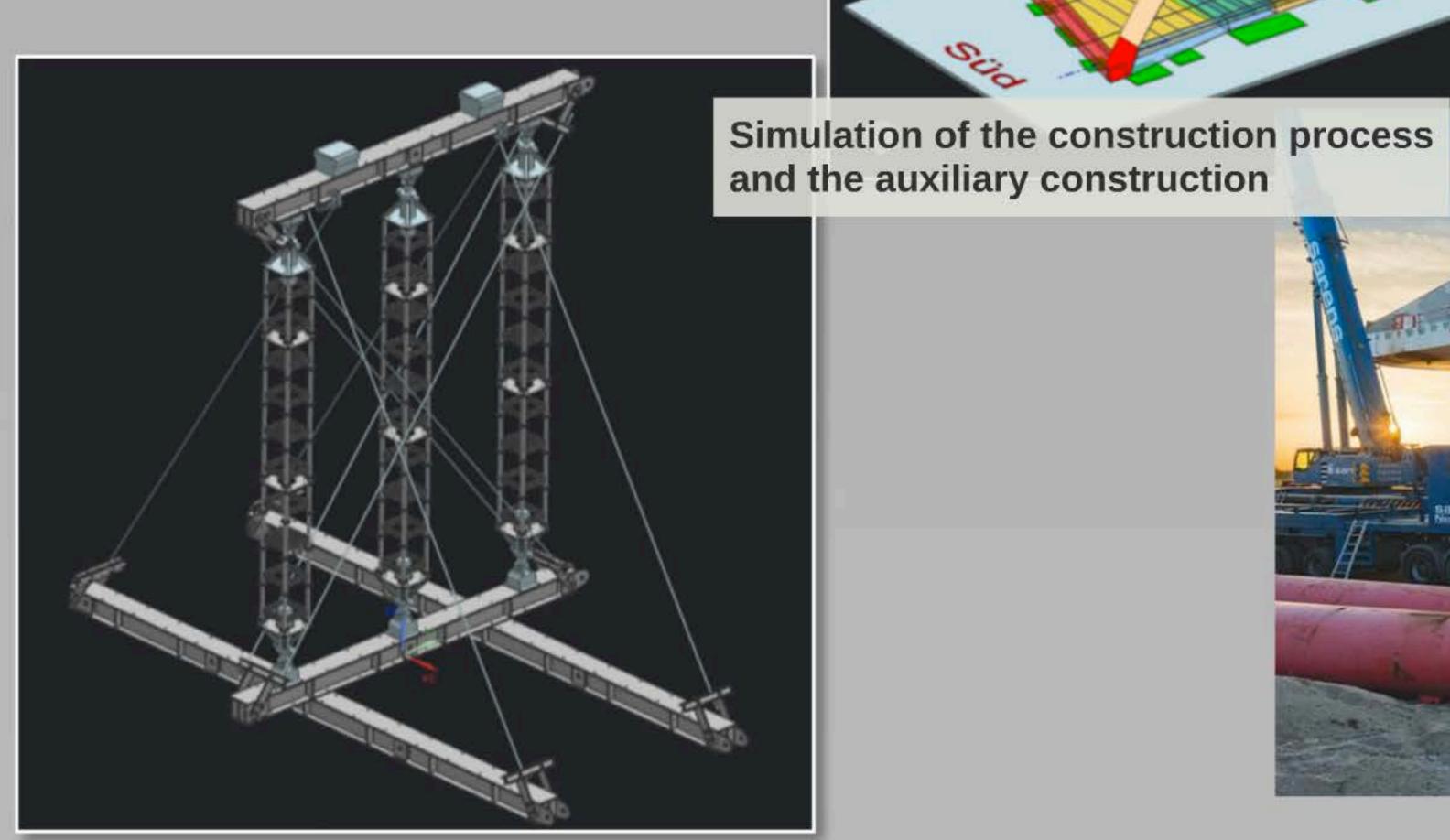


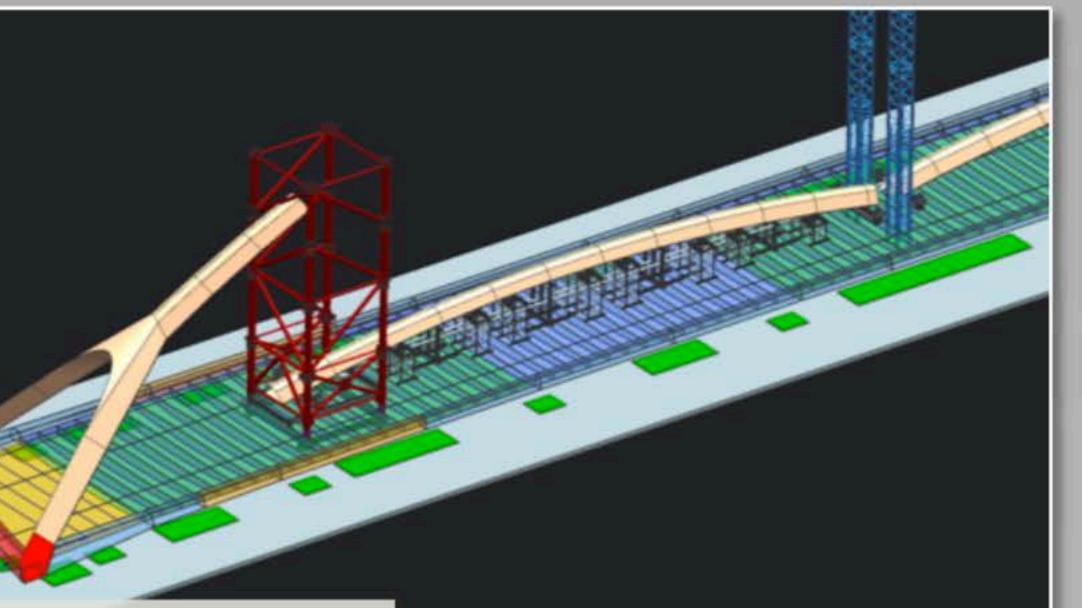


















Collision checking Model coordination





Final quantity determination **Contract specifications 5D Project Management**

ceapoint desite MD **Building Information Modeling Solutions**

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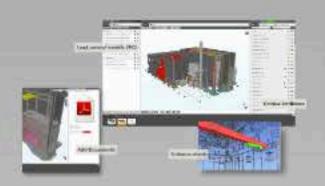
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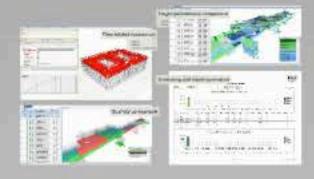
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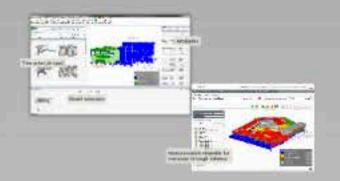
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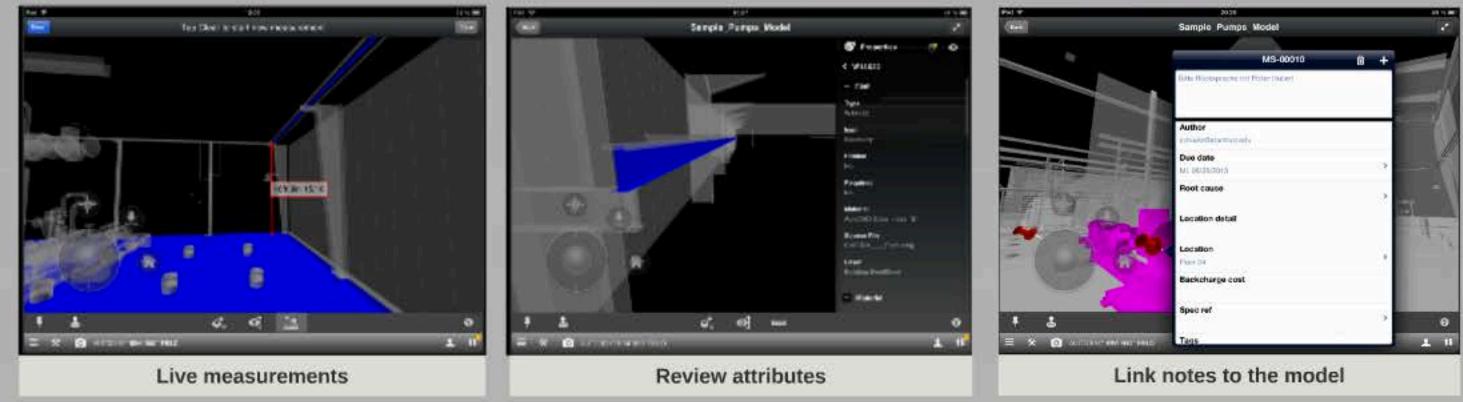




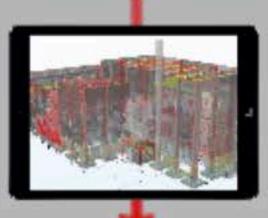


Construction site office

A computer is a great tool on your desk - but would you carry it around at the building site?







iPad adds the missing link between your desk and the construction site







GET THE MOST OUT OF YOUR MODEL!

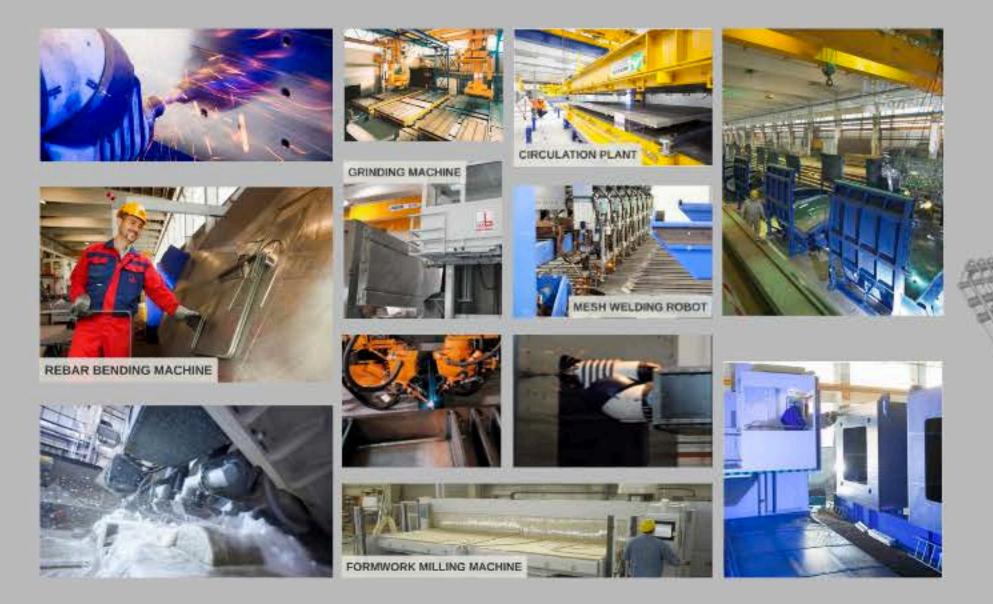
ANALYSIS, PM & COORDINATION SOFTWARE





THERE IS NO PLUG AND PLAY - OUR MODELS MUST SPEAK THE LANGUAGE OF ALL THESE TOOLS

PRODUCTION PROCESS



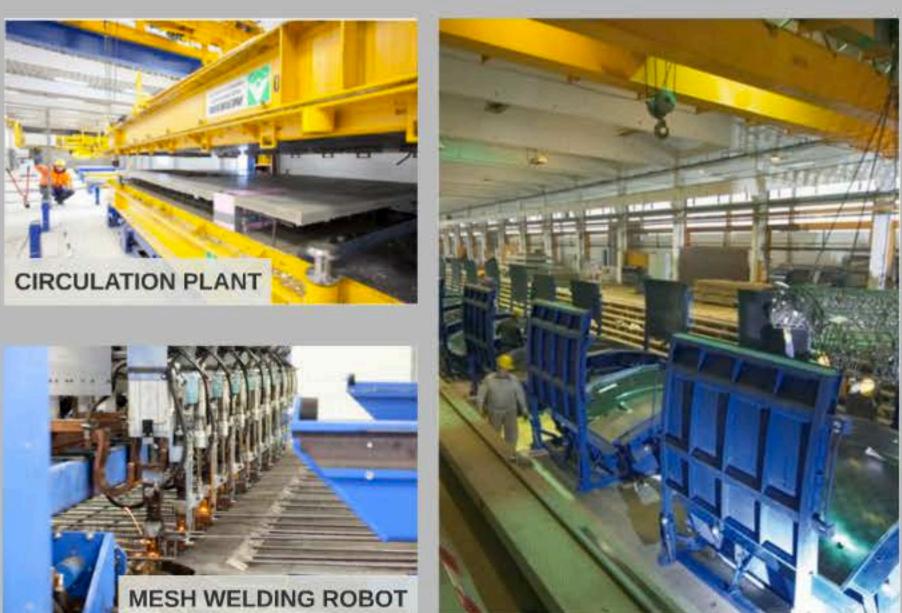


PRODUCTION PROCESS





GRINDING MACHINE

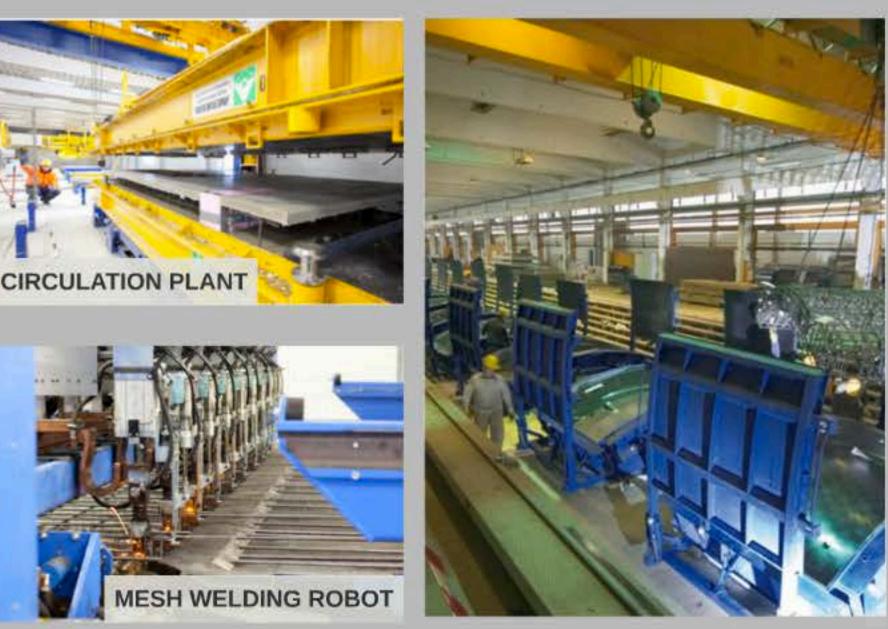




REBAR BENDING MACHINE



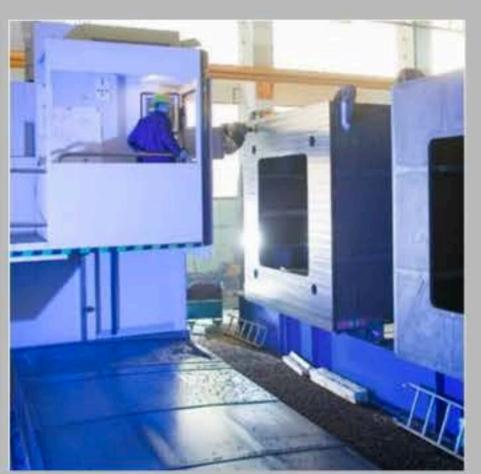


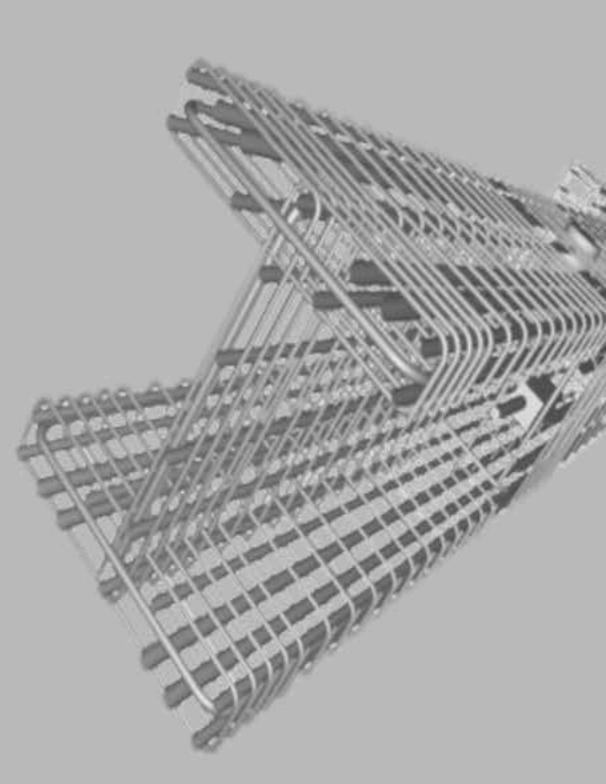












GET THE MOST OUT OF YOUR MODEL!

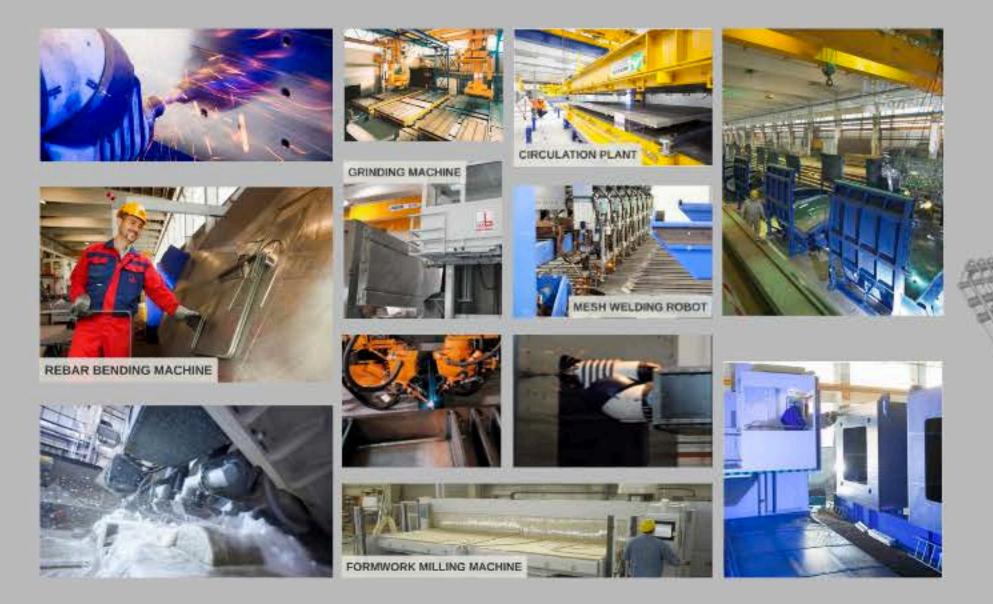
ANALYSIS, PM & COORDINATION SOFTWARE





THERE IS NO PLUG AND PLAY - OUR MODELS MUST SPEAK THE LANGUAGE OF ALL THESE TOOLS

PRODUCTION PROCESS





INHOUSE PLANNING TEAM



MB PLANNING TEAM 11 MAX BÖGL 5 (2) (3) (4)PARTNERING **SAME OUTPUT!**



SAME STANDARDS = SAME OUTPUT

NATIONAL STANDARDS



INHOUSE STANDARDS



Modeling guidelines

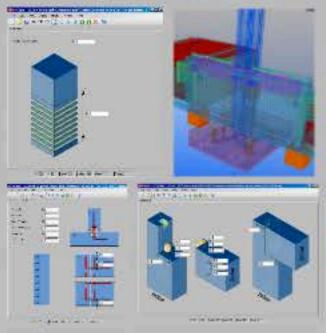




OpenBIM Wiki as a communication platform



Templates and object libraries



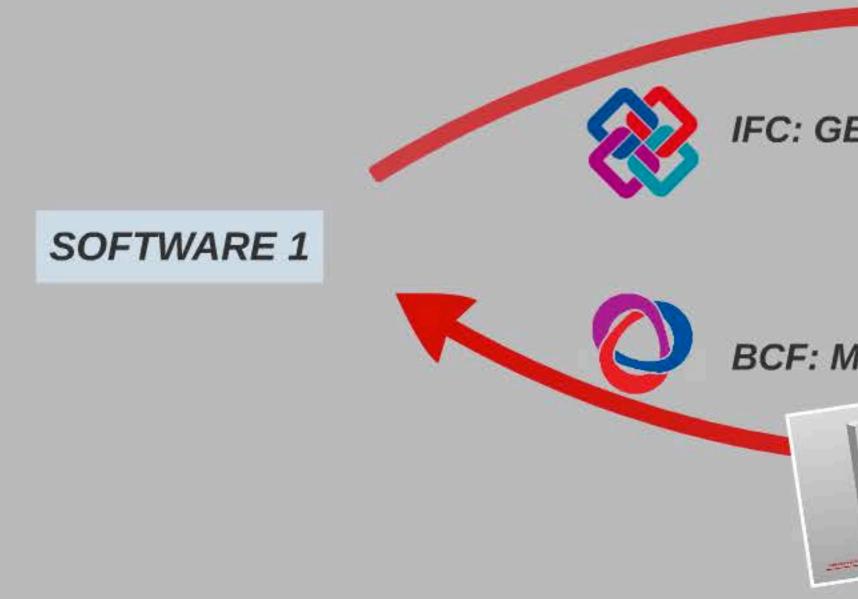
Trainings and workshops





MODELBASED COMMUNICATION

MORE AND MORE SOFTWARE SPEAKS BCF! BIM COLLABORATION FORMAT







Type: Column Height: 4m Material: C35/35 **IFC: GEOMETRY-RELATED DATA SOFTWARE 2** BCF: MESSAGE RELATED DATA Message: please move this column as noted Attachments: Image, Coordinates of the column





Android and iOS App for our current Project Shopping Center Neuer Markt including Virtual / Augmented Reality Features



















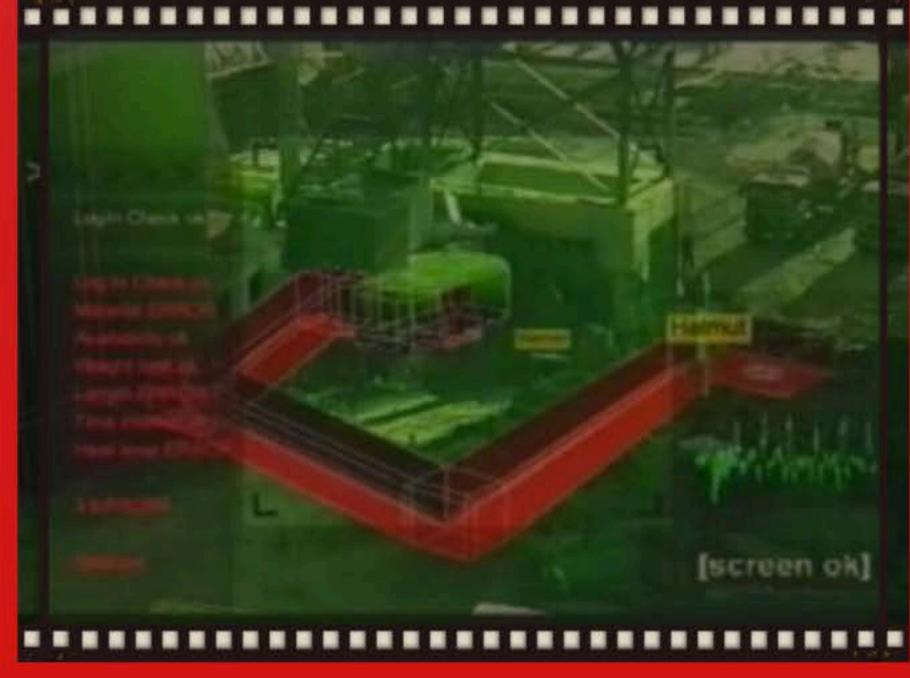
14th







14th









THE











