

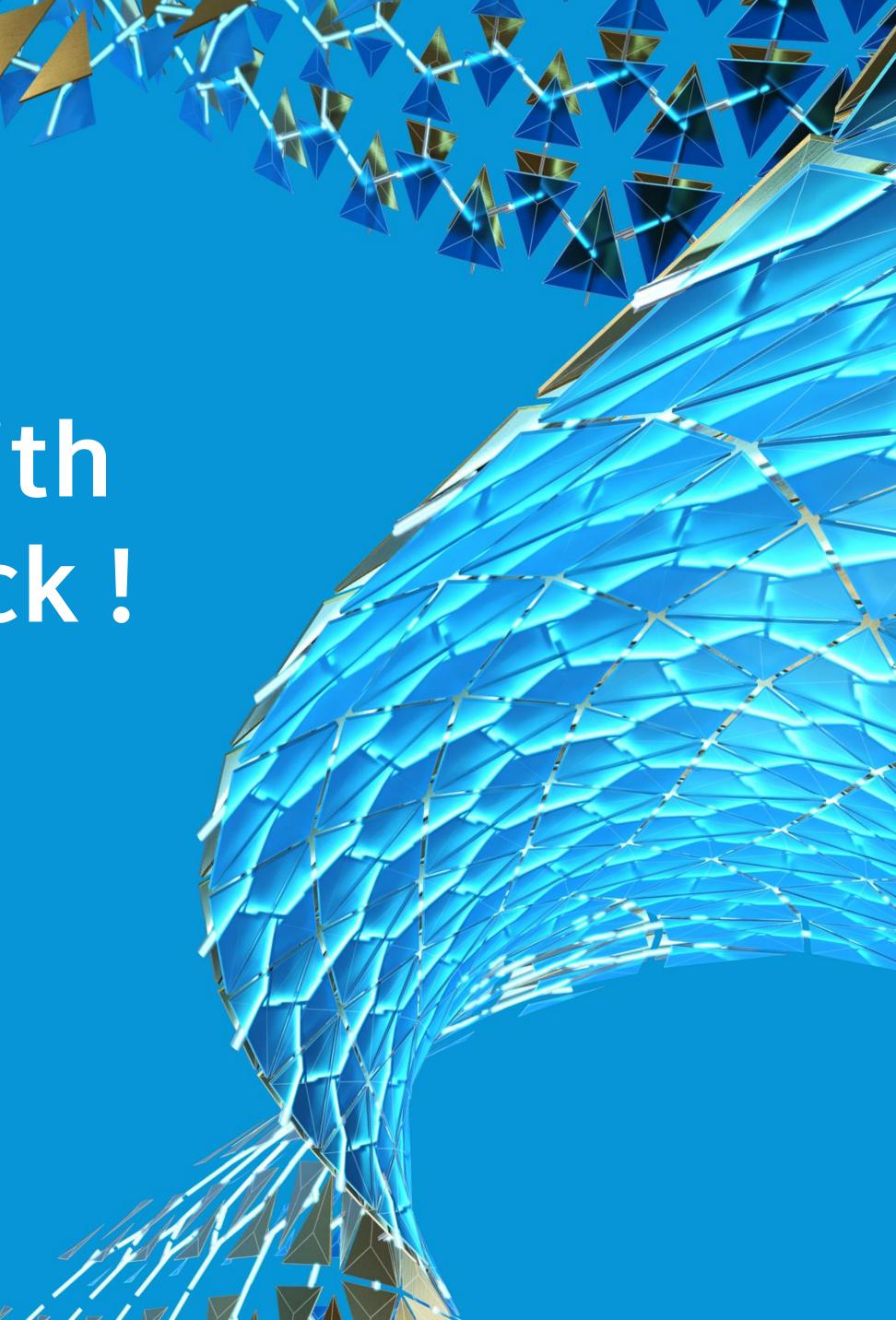
# Enhance Rebar detailing with Revit and Graitec Powerpack!

### Stevens CHEMISE

BIM Industry Manager | @stevens\_chemise

### Daniel GHEORGHE

Structural Specialist Engineer





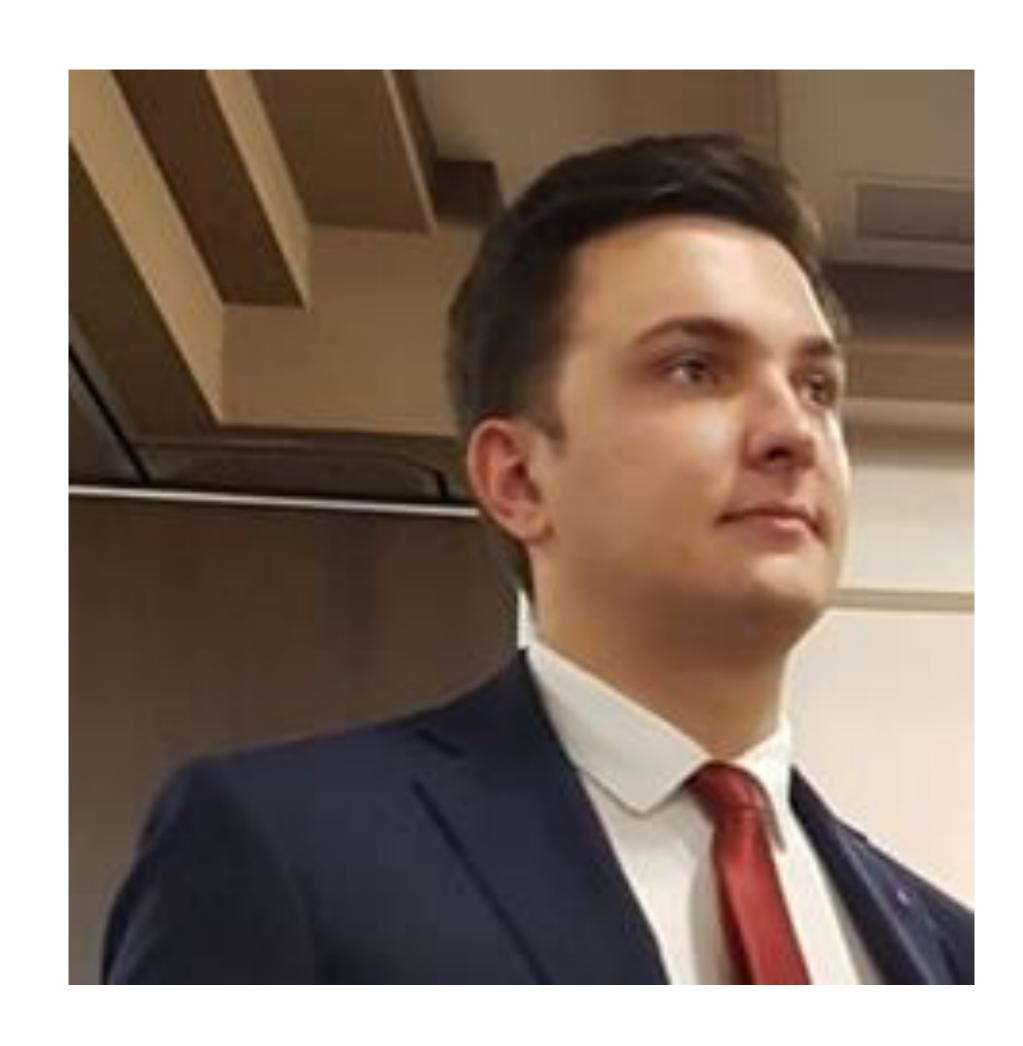
### About the speaker

### Stevens CHEMISE

Structural Engineer

BIM Industry Manager at Graitec Innovation, part of the Graitec Product Management Team

15 Years experience in several BIM Software companies Main technical expertise on Revit, Navisworks, BIM 360 for Architects or structural engineer, workflow between Autodesk products and Graitec design software.



### About the speaker

### Daniel GHEORGHE

Structural Engineer

Technical solutions consultant at Graitec Romania

Part of the R&D and Sales departments

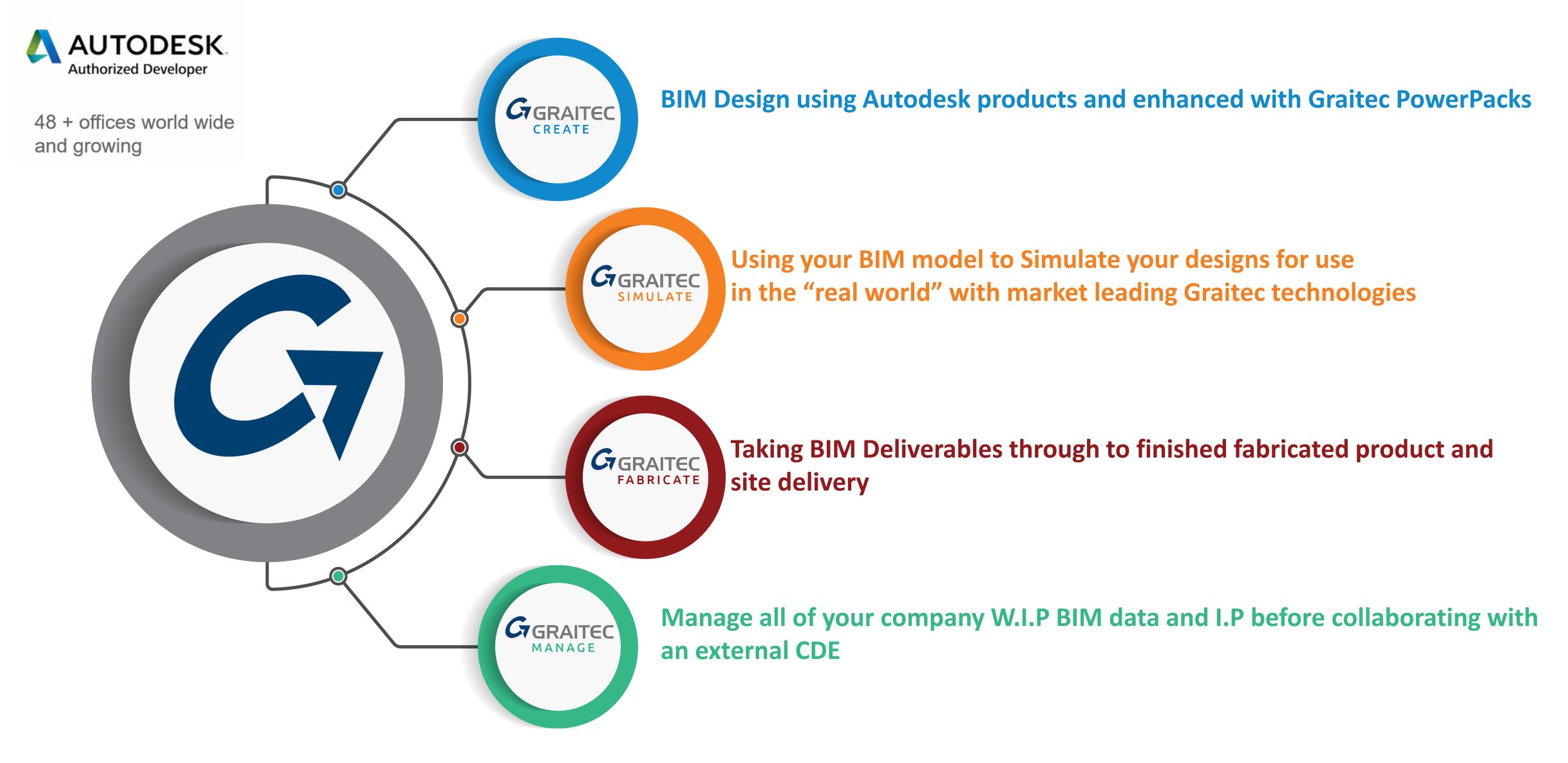
7 years experience with Revit Structure

**Certified Professional and ATC Instructor** 

I use my structural engineering experience to develop and improve our solutions. Proficient with BIM 360, Dynamo for Revit, Advance Steel,

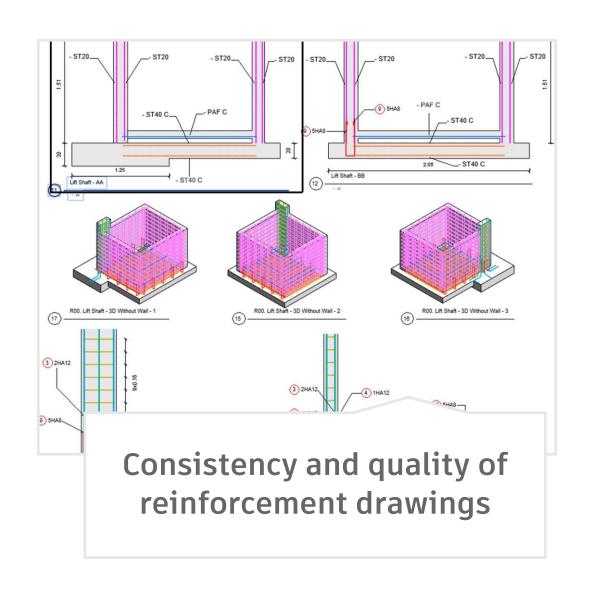
**Navisworks** 

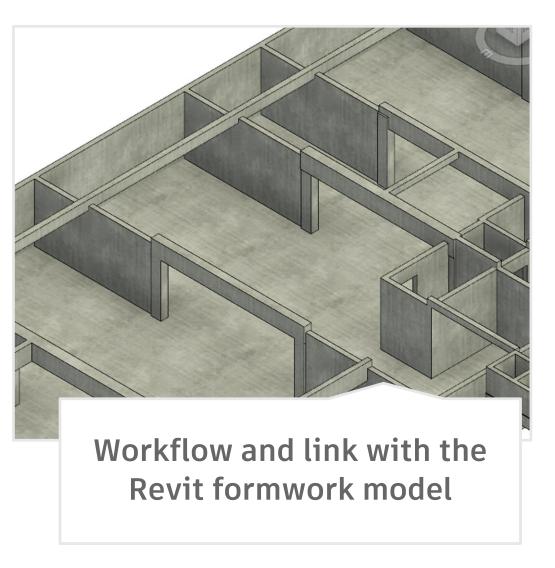




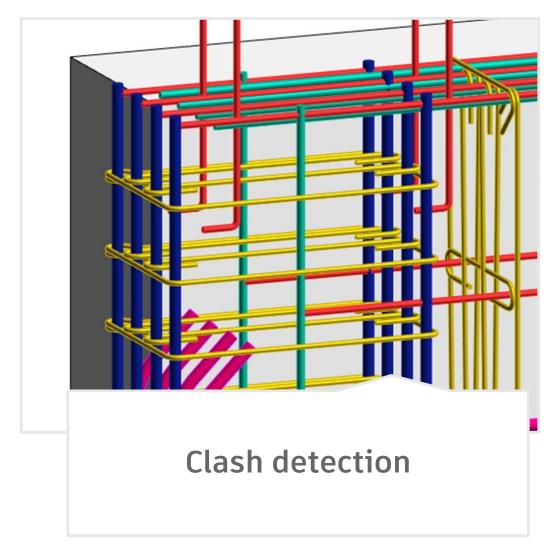
# Class Description

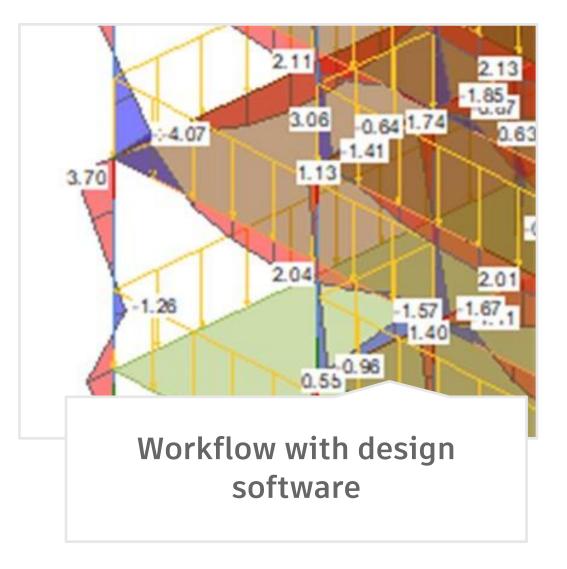
# 3D Reinforcement, why?

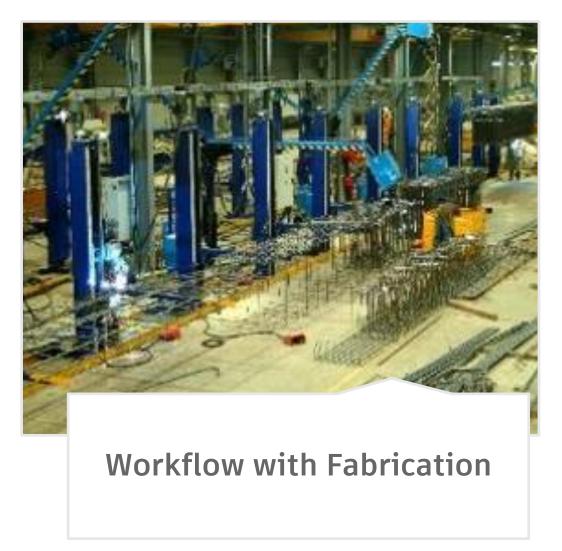












In this class, you will discover a set of effective tools to address rebar detailing topics within Revit using the PowerPack add-on.

First, you will measure added value of using wizard for **3D cage generation**, applied for usual linear elements such as **beams**, **columns and footings**, respecting common constructive disposal rules. Complementary tools to manage rebars during creation phase will be presented such as controlling rebar visibility or manipulating bars (trim, extend, copy or split bars...).

Then, standards reinforcement will be completed with additional bars placed around **openings and edges** for planar elements (**walls and slabs**). Automatic schedules will be created thanks to flexible and configurable templates.

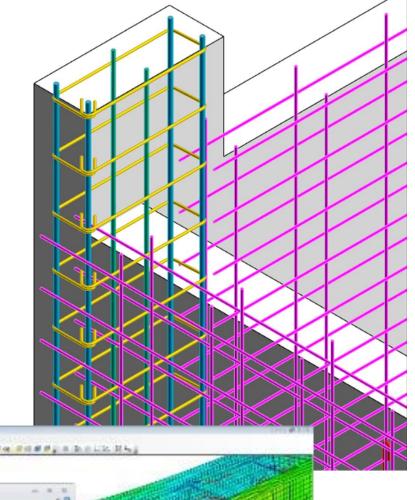
To conclude, **reinforcement drawings** will be generated with specific commands, assisting users to choose right tittle blocks, to place views or schedules in final sheets. Drawings will be tuned with **bending details**, **automatic schemas** completing schedules and **end bar symbol**.

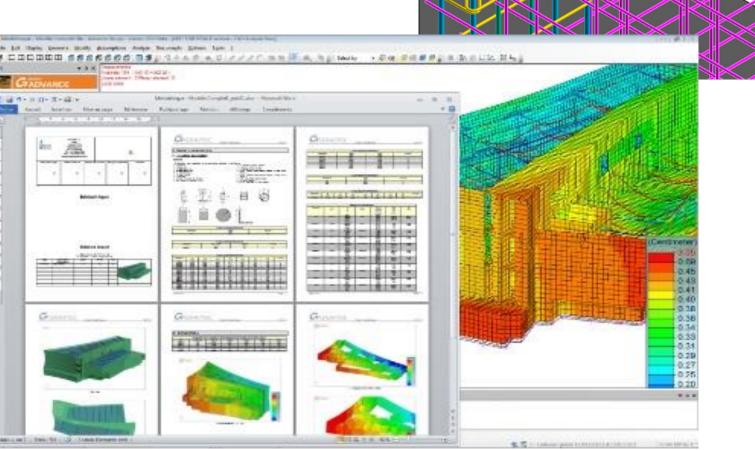
## Learning Objectives

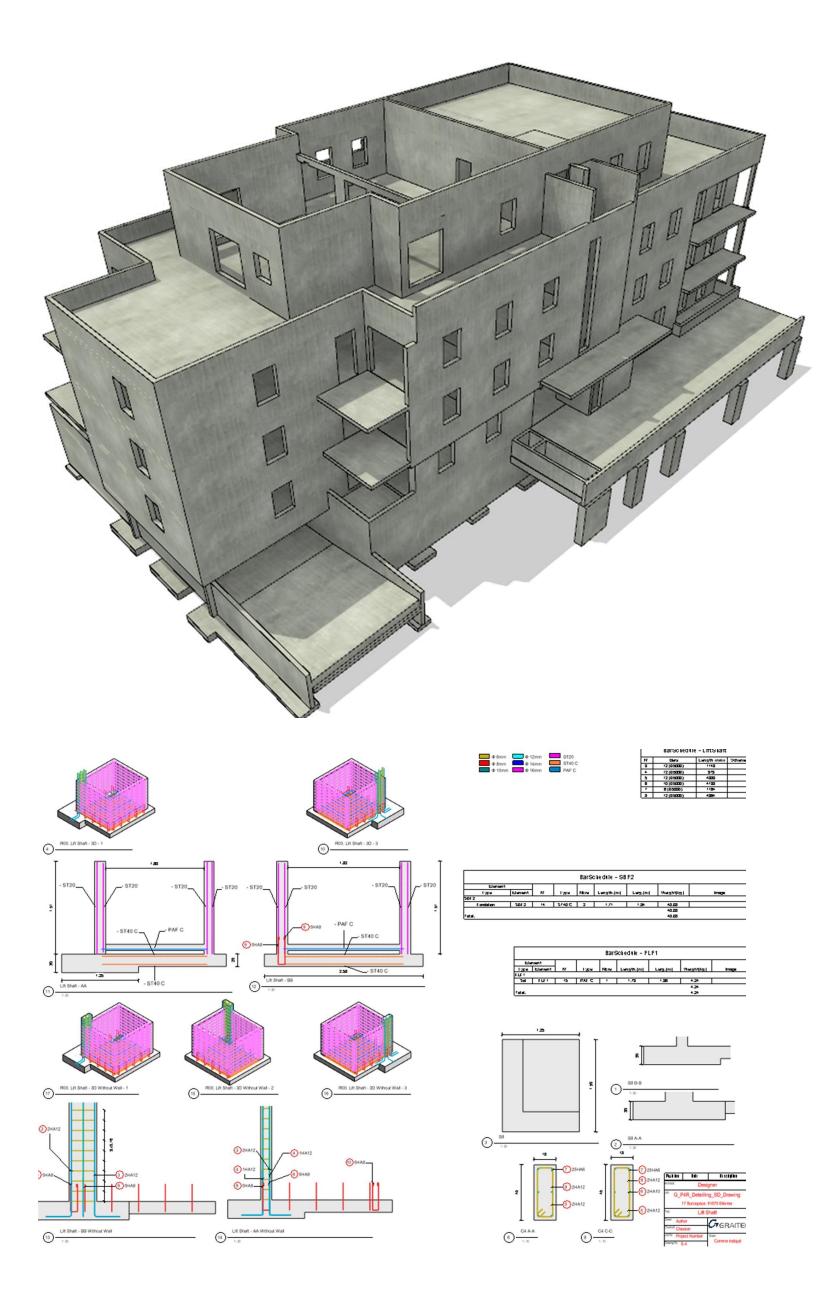
- Generate parametric rebar cages for RC members, including automatic constructive disposals.
- Generate bars and fabrics schedules and get quantity takeoff in few clicks!
- Edit Rebar in your Revit Model: split, crank, copy rebar, visibility ...
- Custom and tune final rebar drawings with dedicated detailing tools.

# Typical personas

- Rebar Draftsmen
- Rebar detailers
- Structural engineers
- BIM Modeler
- BIM Manager for structural project



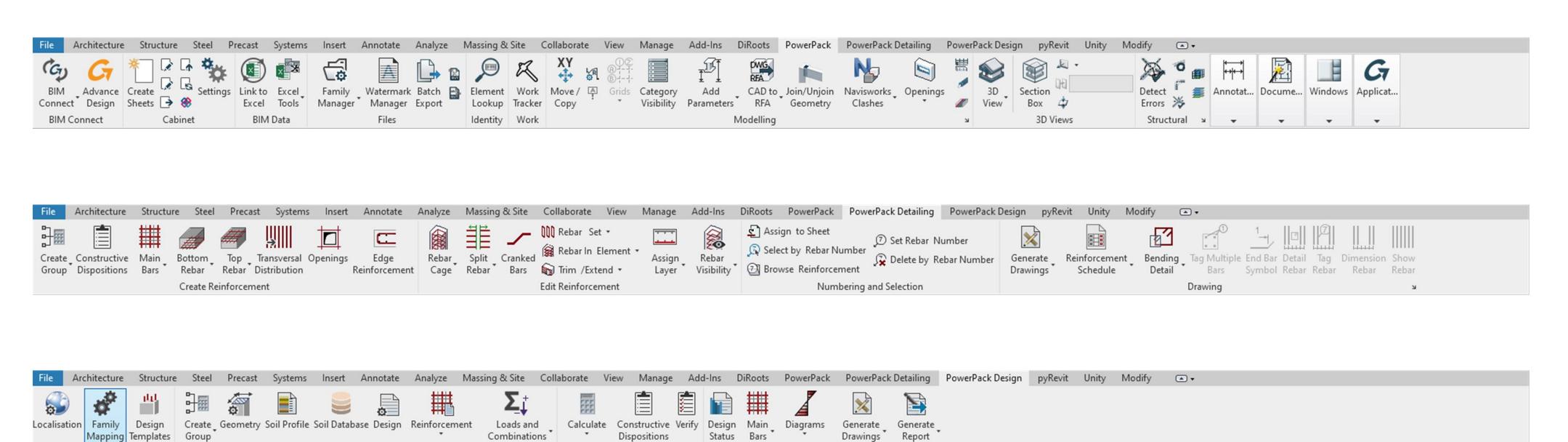




### WHAT IS POWERPACK FOR REVIT?

• The GRAITEC PowerPack provides a broad suite of unique commands and functionality to significantly increase productivity when working with Autodesk® Revit®





Calculations

Manage Project ▼

Assumptions

### WHAT IS POWERPACK FOR REVIT?

8 LANGUAGES

+80
TOOLS FOR ALL REVIT USERS

+50
DEDICATED TOOLS FOR REBAR DETAILING

+20000 USERS

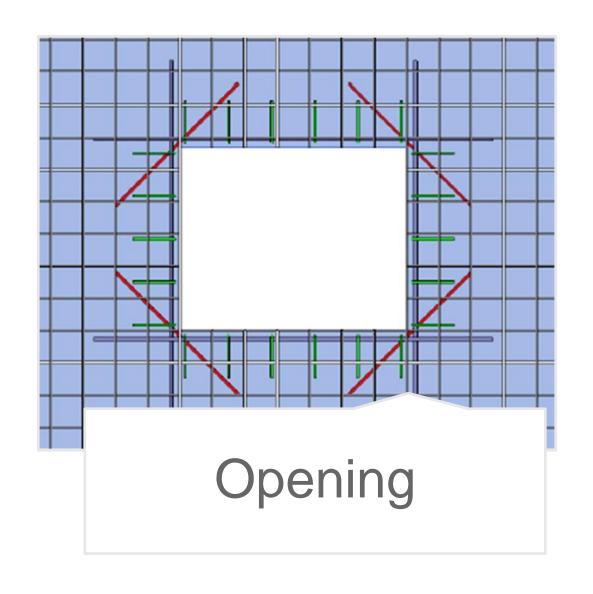
Constructive
Dispositions, Design
codes ....

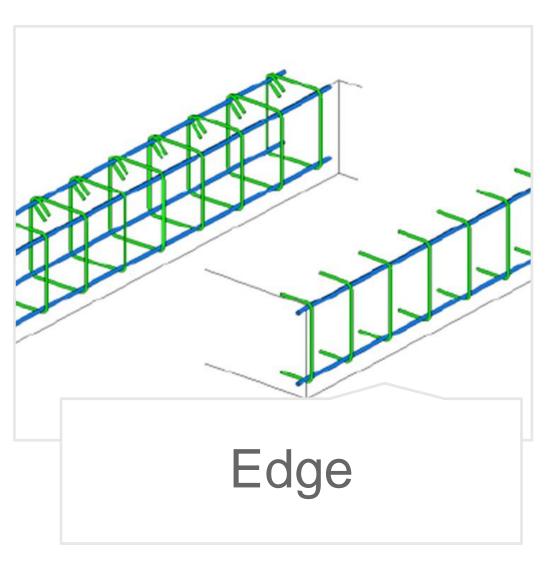
For Architects, MEP,
Structural users (Link To
Excel, Family Manager,
Element lookup...)

Features to speed up rebar cages generation and detailing drawings

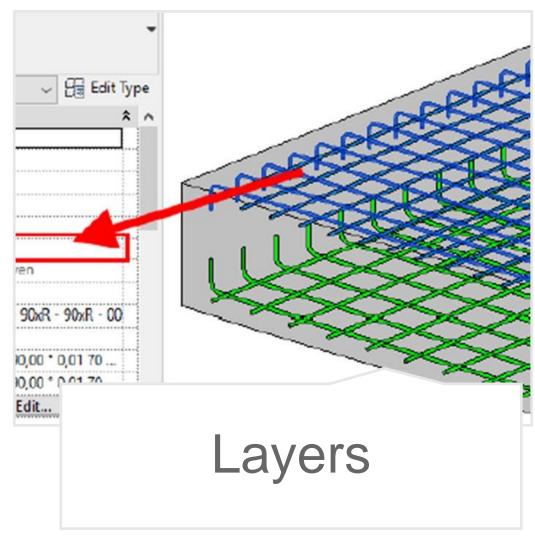
Revit users around the globe

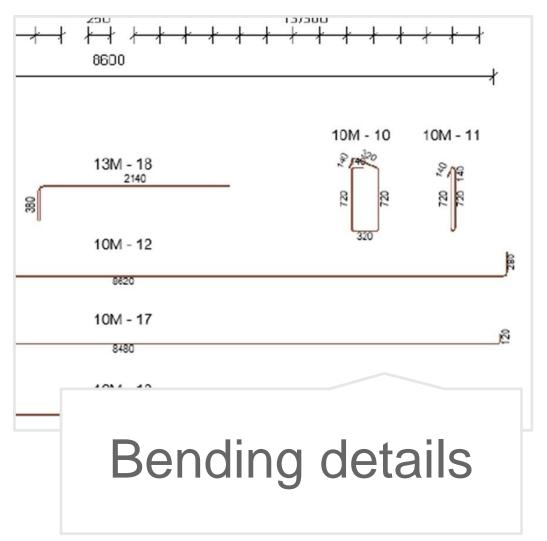
### NEW FEATURES

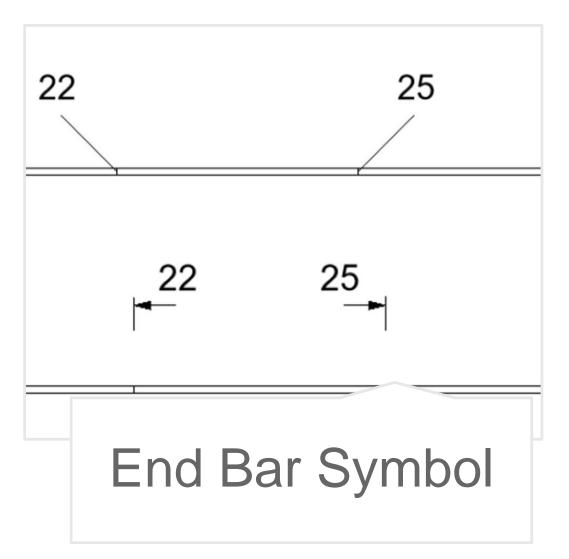




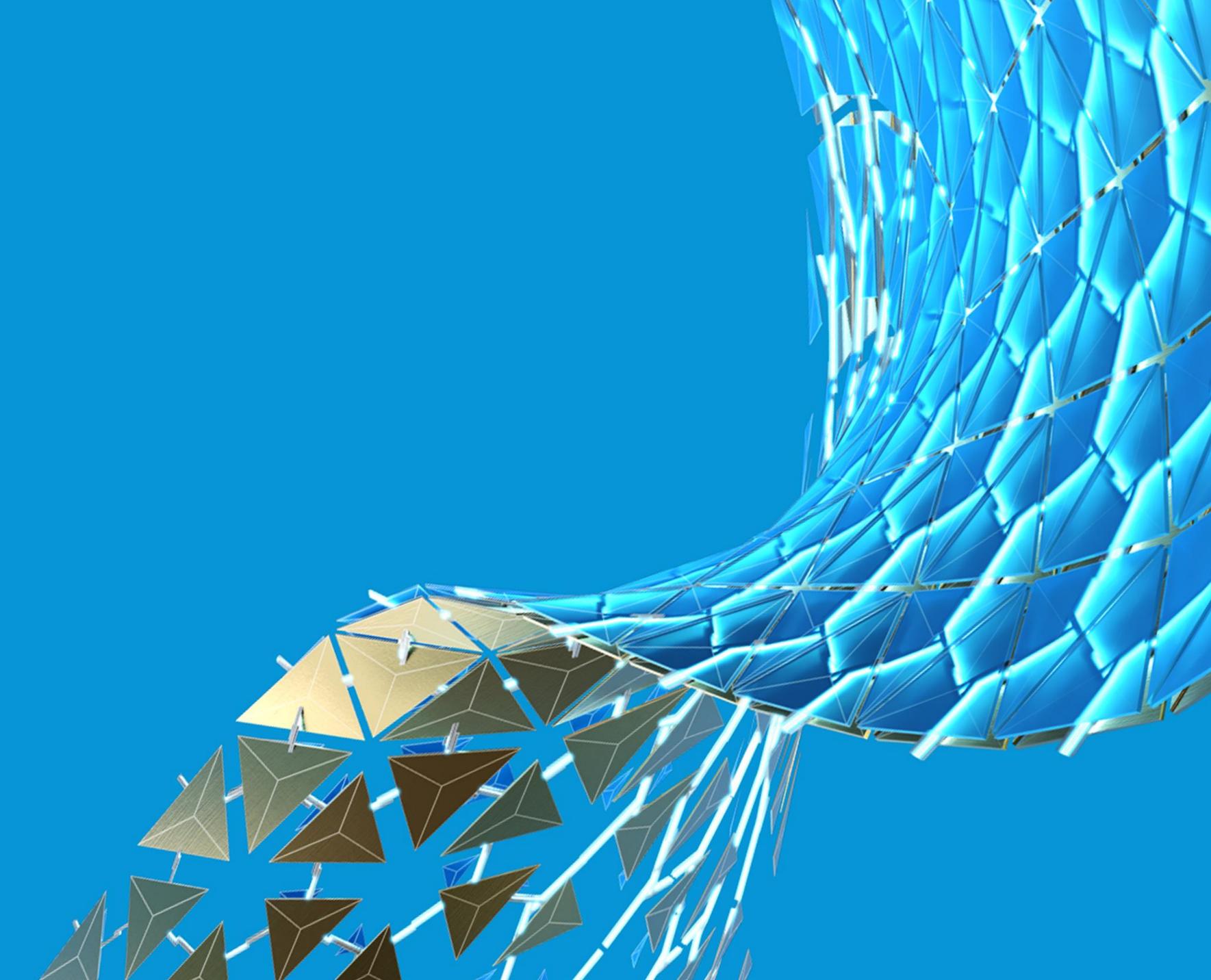




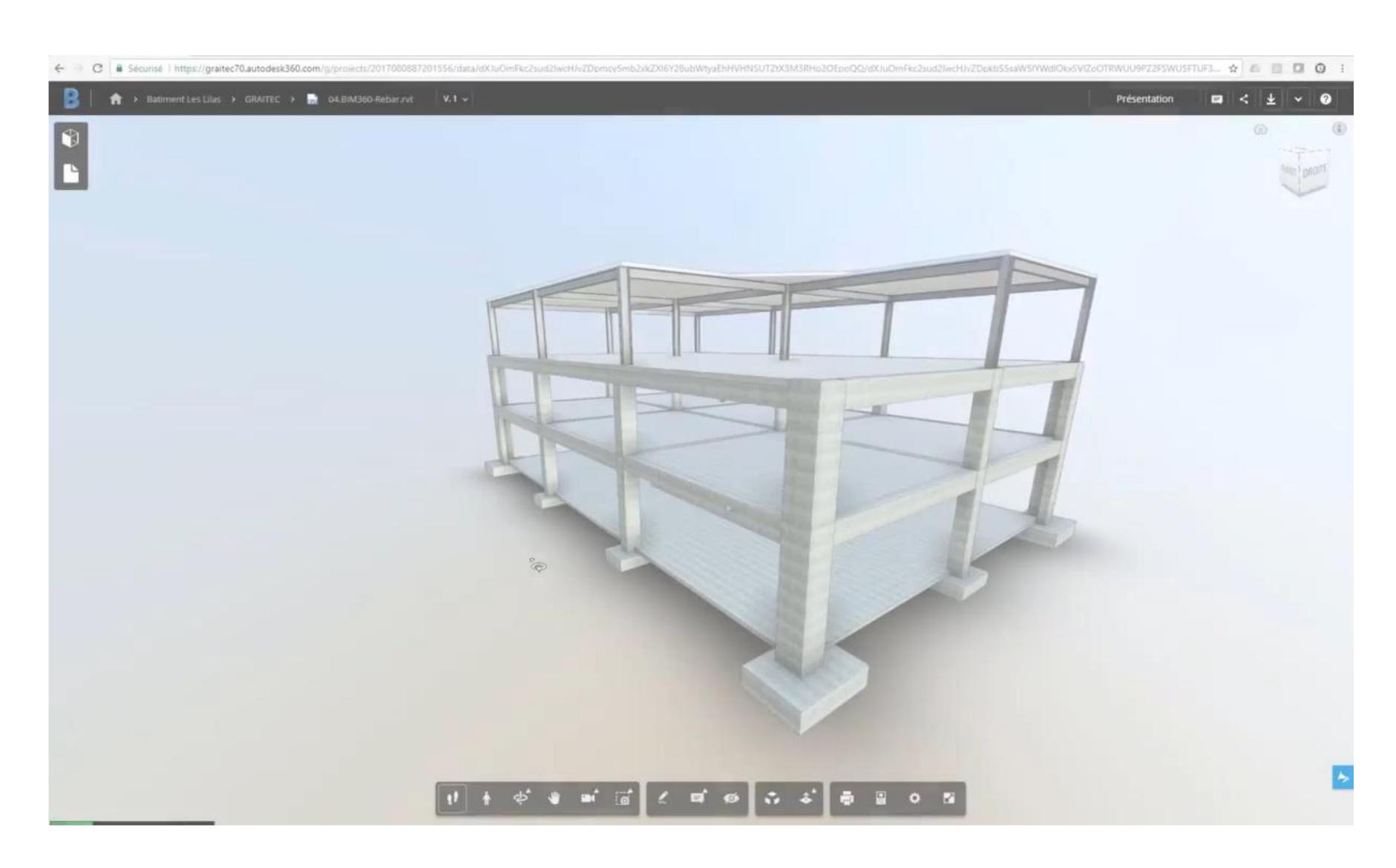




# LIVE DEMO



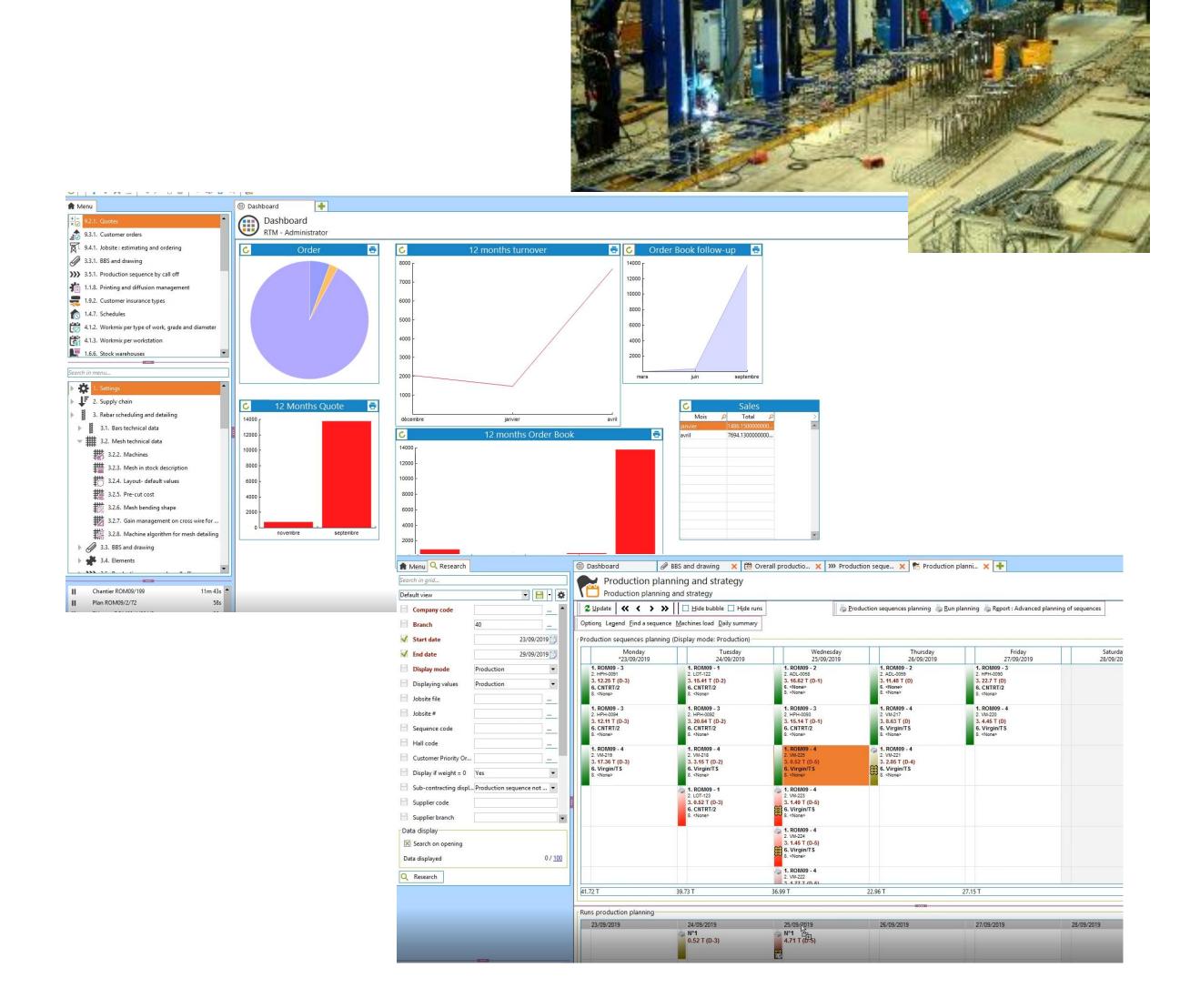
### PUBLISH MODEL WITH BIM 360



### Link to Fabrication

Arma+ is a full integrated Rebar and Steel Workshop
Management system (MIS), existing since more than 30
years, able to complete production control

- Automated allocation and routing of jobs
- Optimization of the rebar cages for fabrication
- Time assessment and workload calculation
- Stock management
- Material traceability and optimization
- Material optimization
- Project and delivery planning management



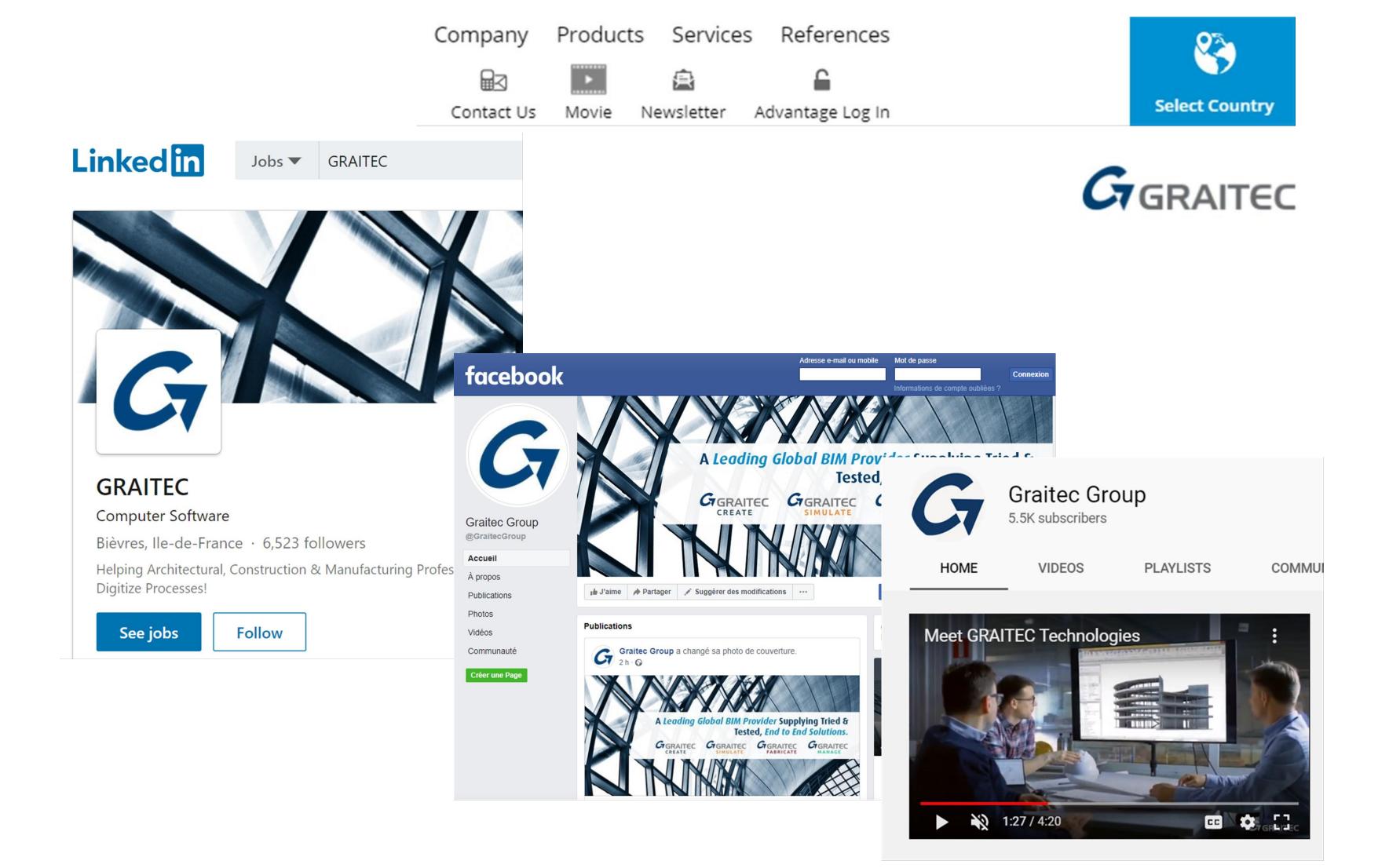
### Additional ressources @Graitec\_group

WWW.GRAITEC.COM

• LINKEDIN

YOUTUBE

FACEBOOK





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