



## Doka – a company of Umdasch Group

Formwork technology,
 shop fitting & innovation
 think tank under one roof



## Doka Headquarters in Austria

Research & Development,Production & Operations



## The Doka Group – at a glance

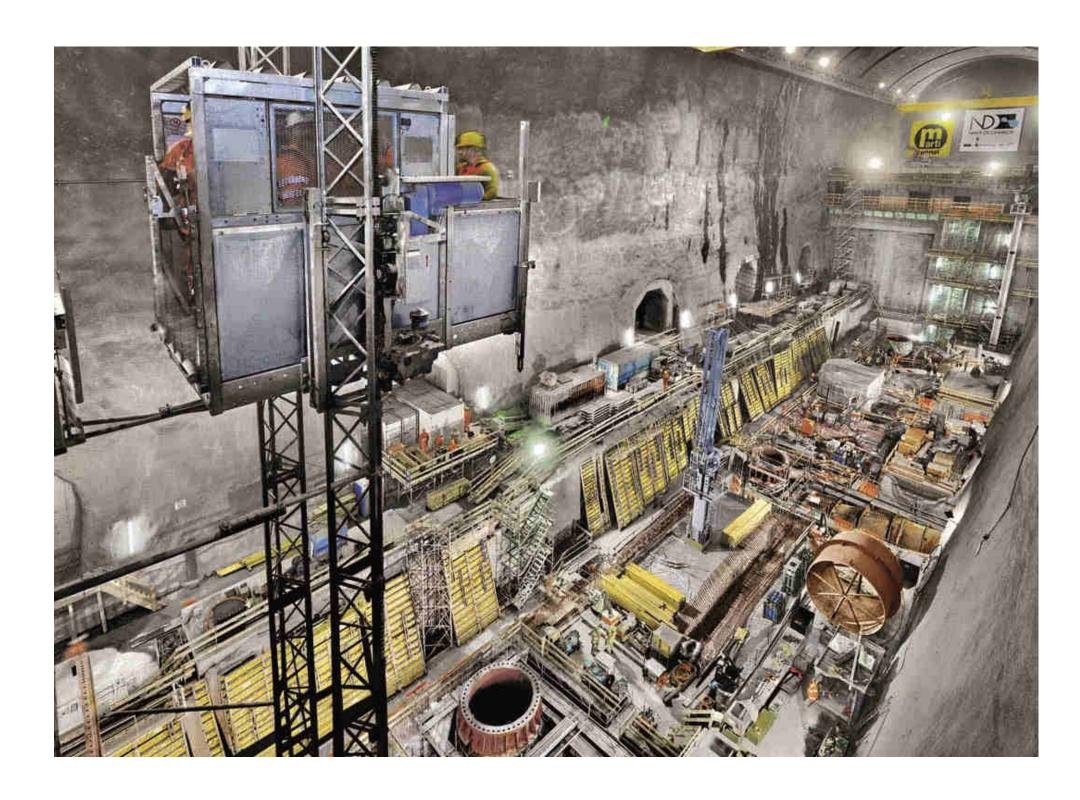


## Formwork systems

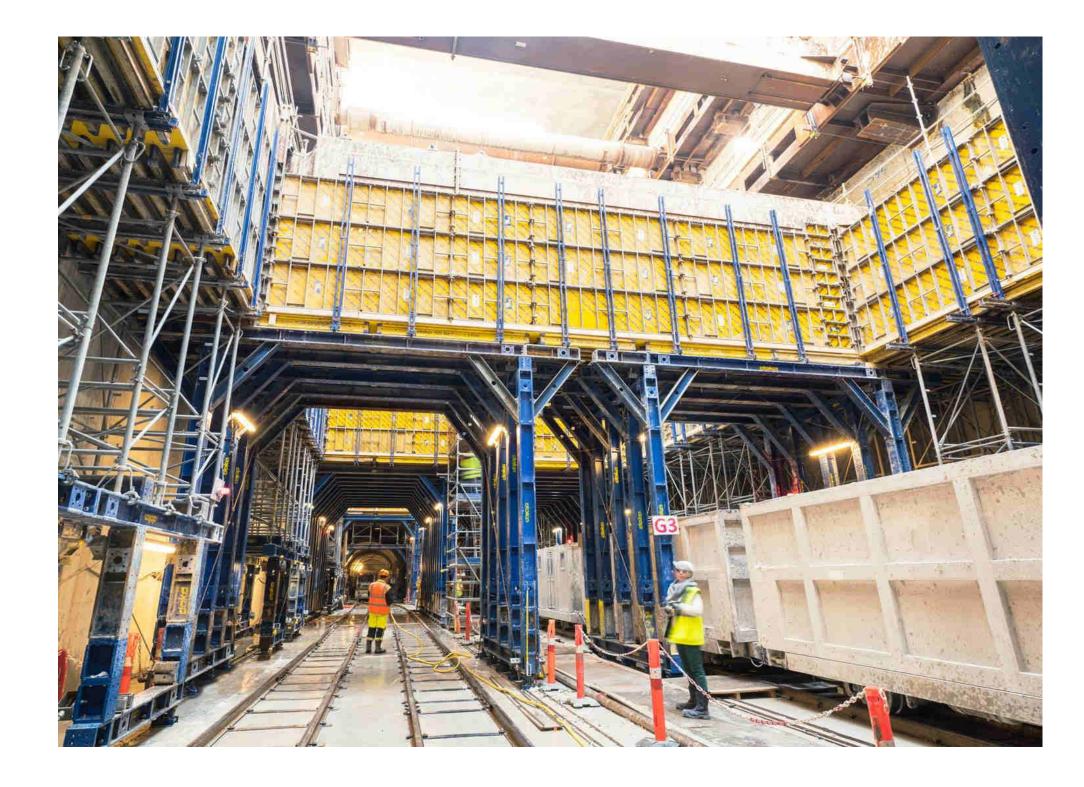
Framed formwork for wallsFramax Xlife plus



Nant de DranceWallis, Switzerland



CityringenKopenhagen, Denmark



MS-3 OstródaOstróda, Poland



The Exchange 106 Tower
 Kuala Lumpur, Malaysia

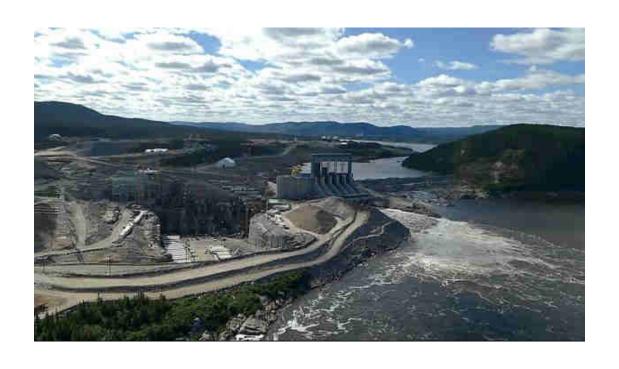


## **Doka The Formwork Experts**





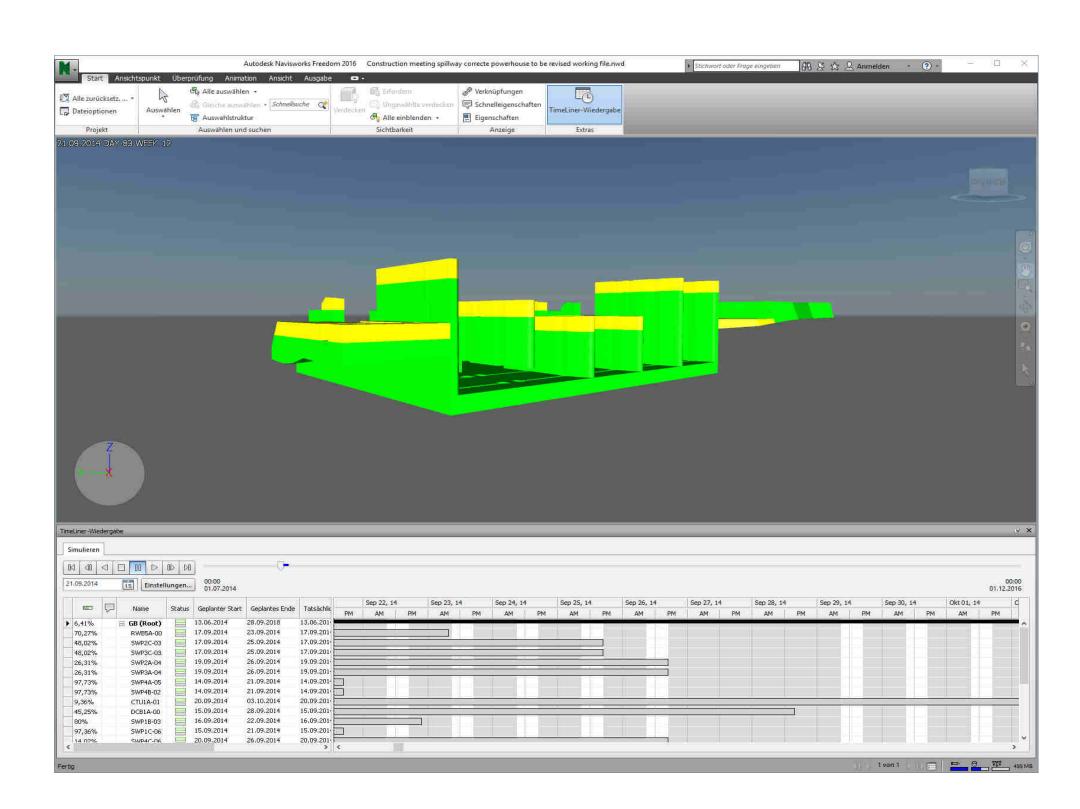
Muskrat FallsLabrador, Canada





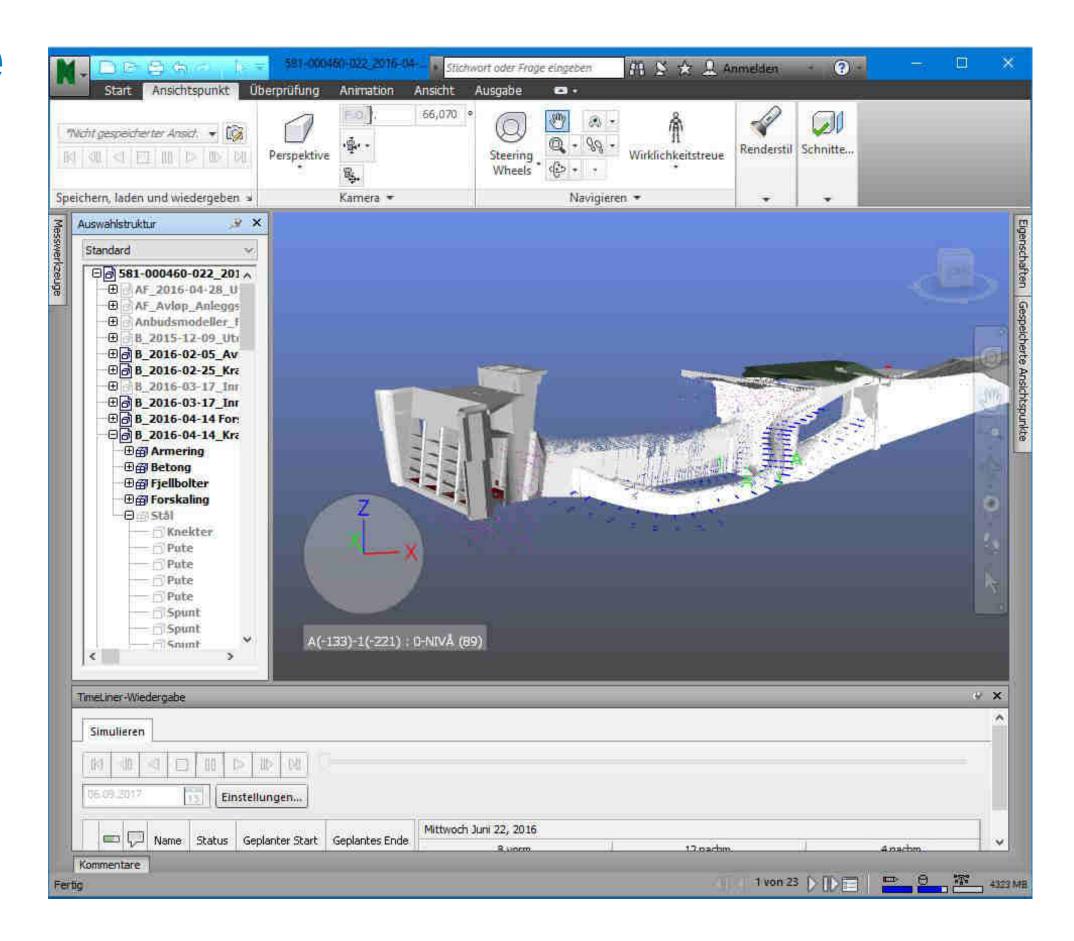
Muskrat Falls
 Labrador, Canada

model in Navisworks
 (used in design phase,
 not further maintained
 in construction phase)

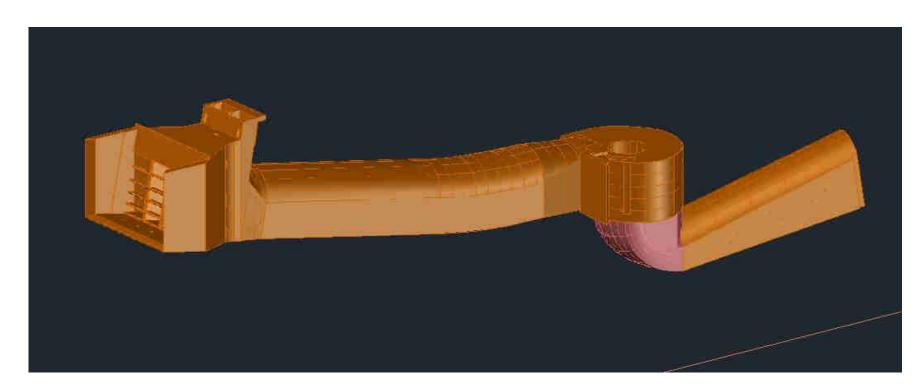


Vamma Hydroelectric
 Power Station, Norway

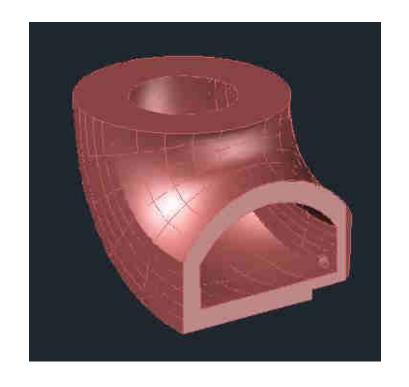
model in Navisworks for visualization

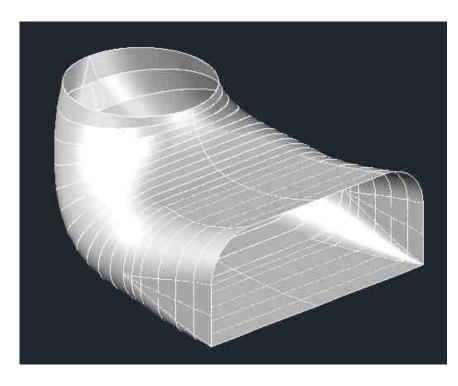


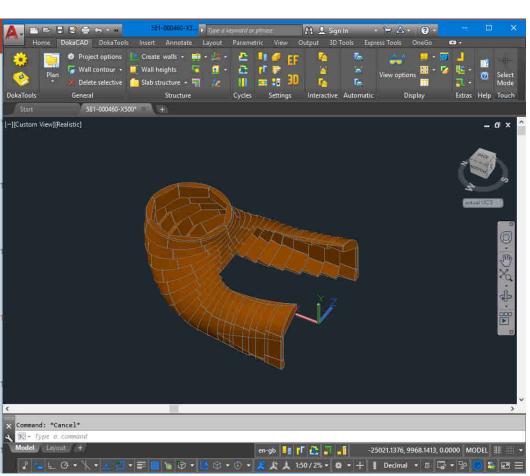
Vamma Hydroelectric
 Power Station, Norway



from model to formwork (via \*.sat data file)

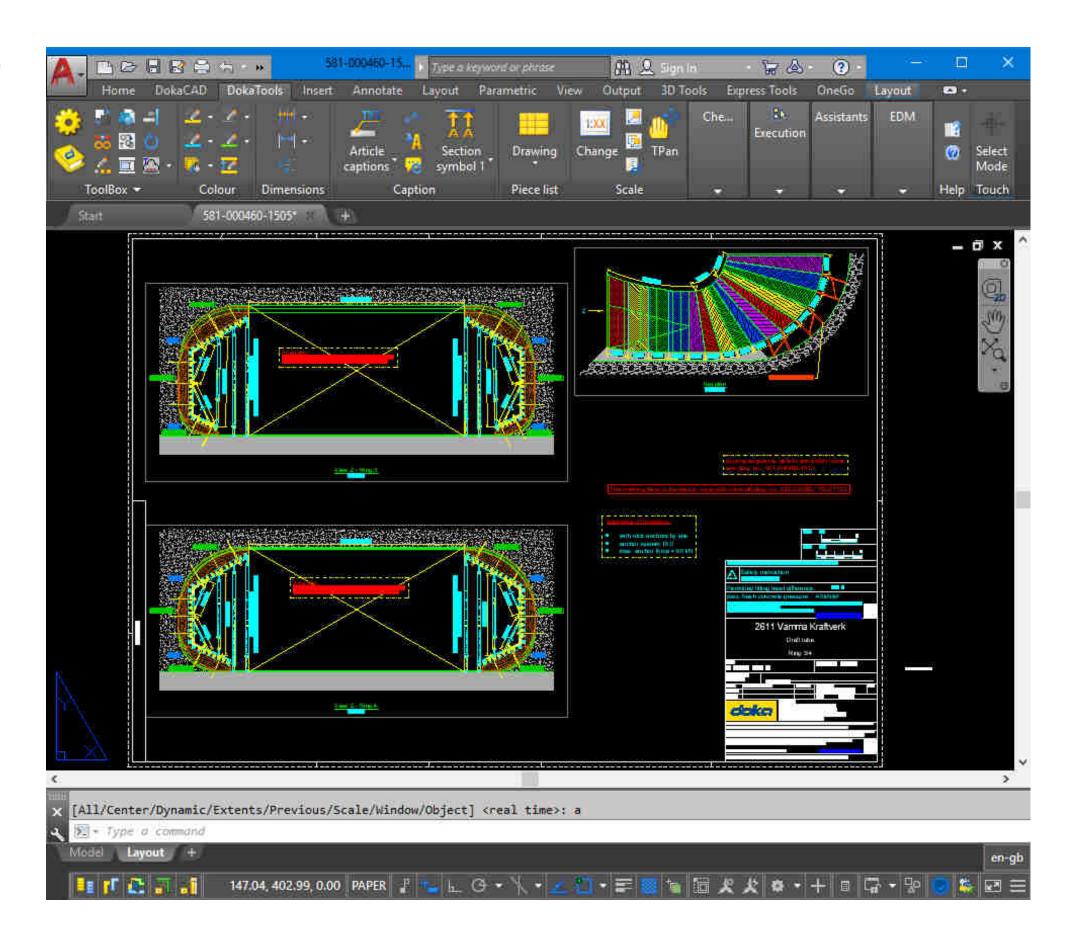






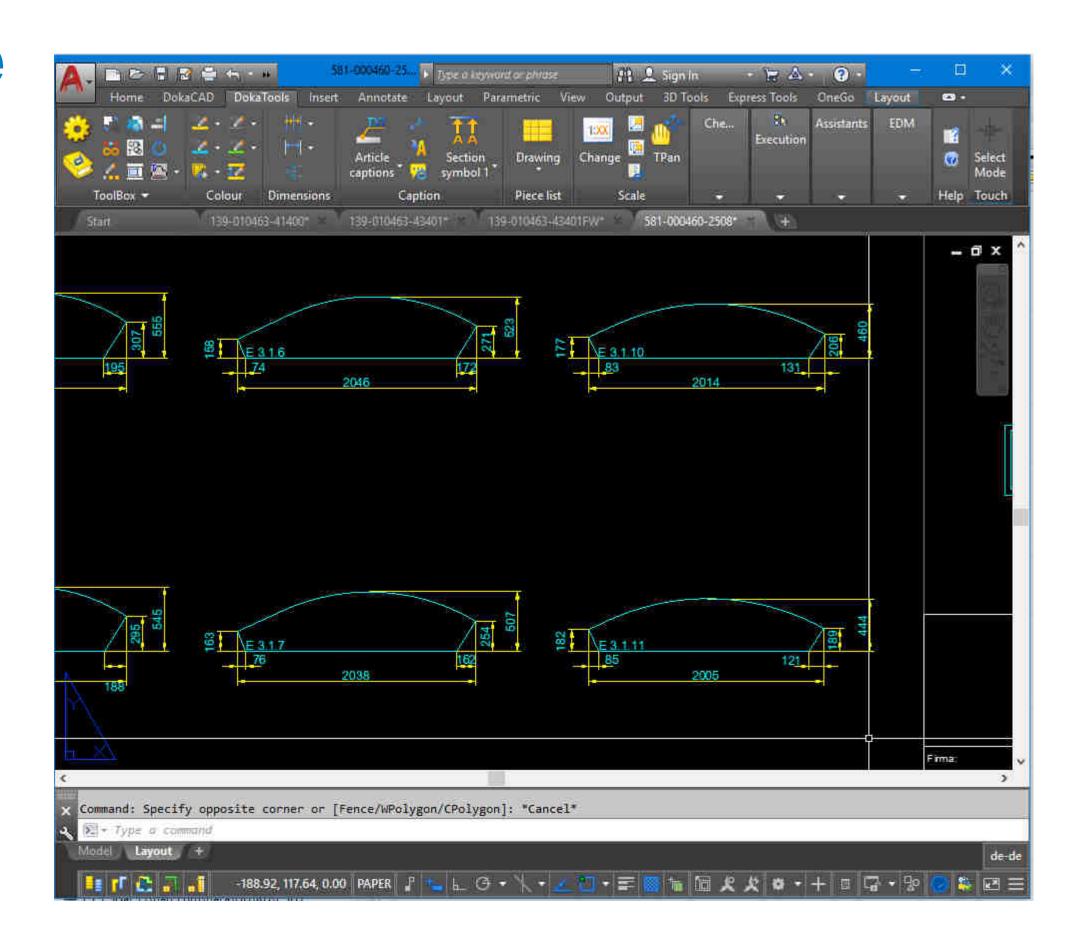
Vamma Hydroelectric
 Power Station, Norway

from model to formwork



Vamma Hydroelectric
 Power Station, Norway

 from model to formwork, mainly manual formwork planning

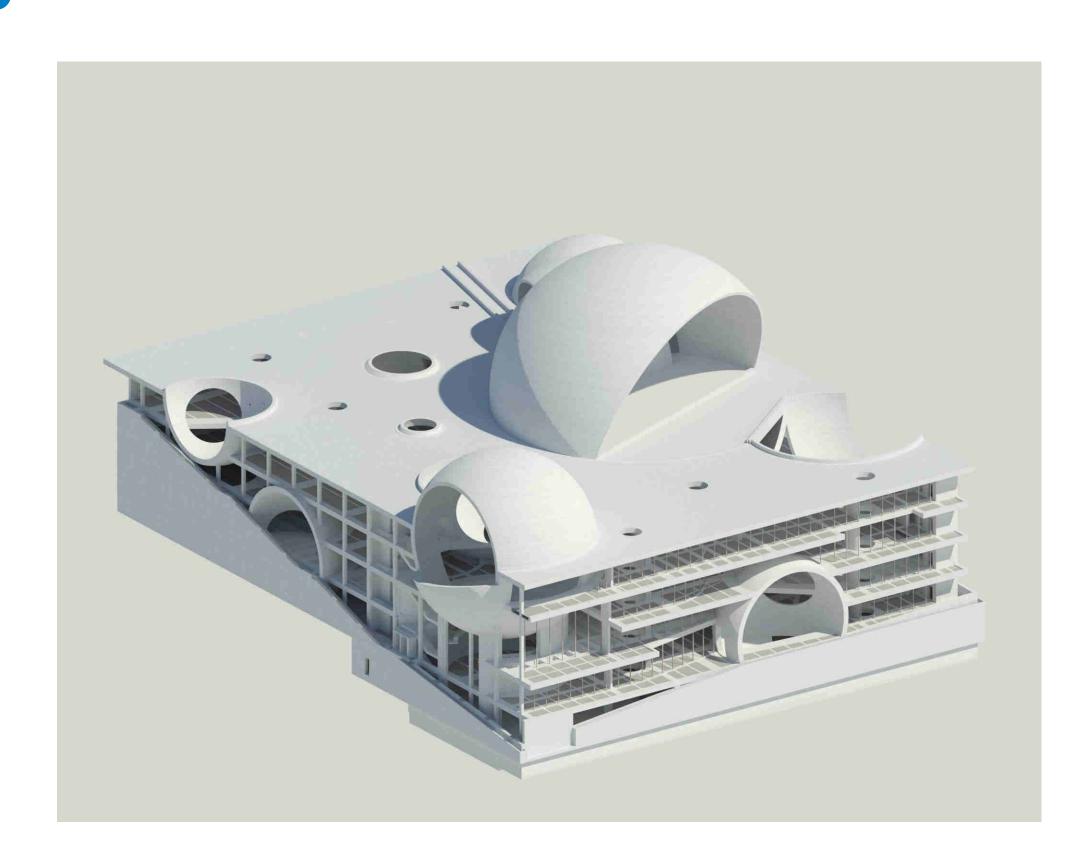


Vamma Hydroelectric
 Power Station, Norway

assembly and use

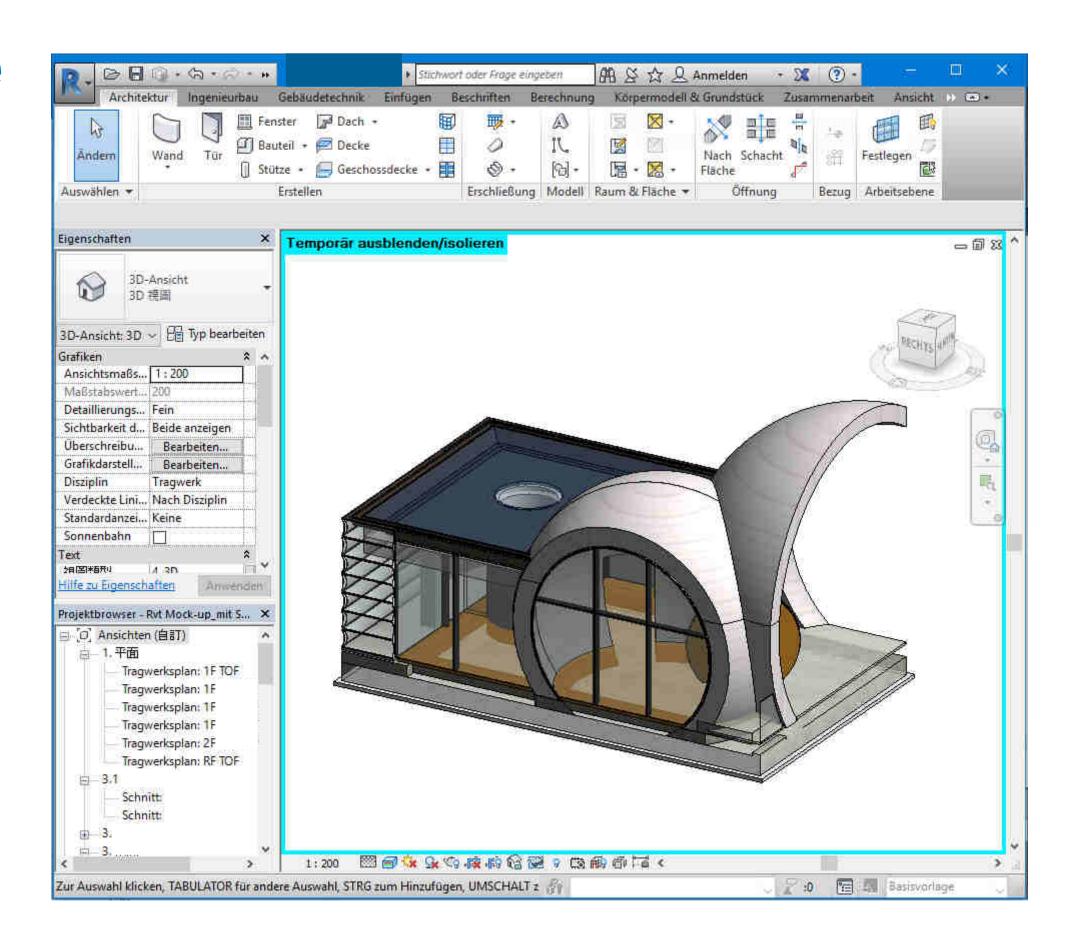






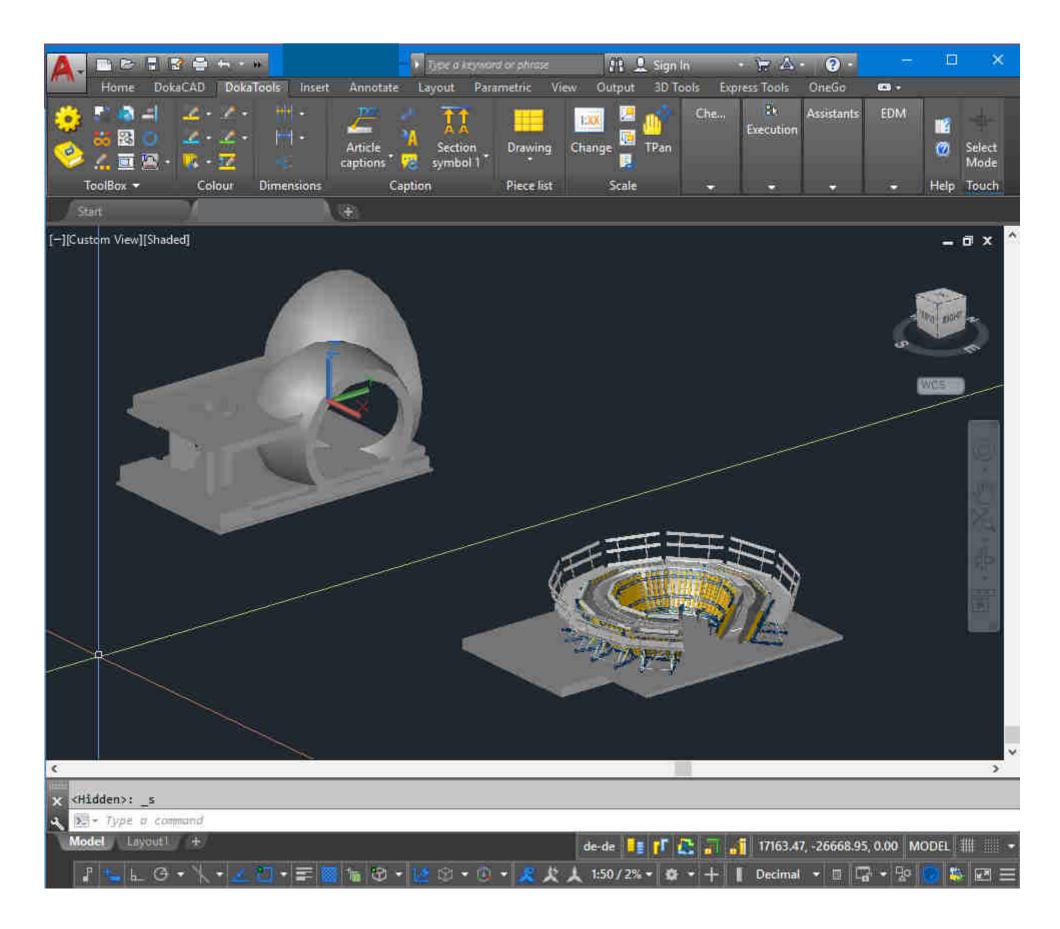
current project in Asia

from model to formwork



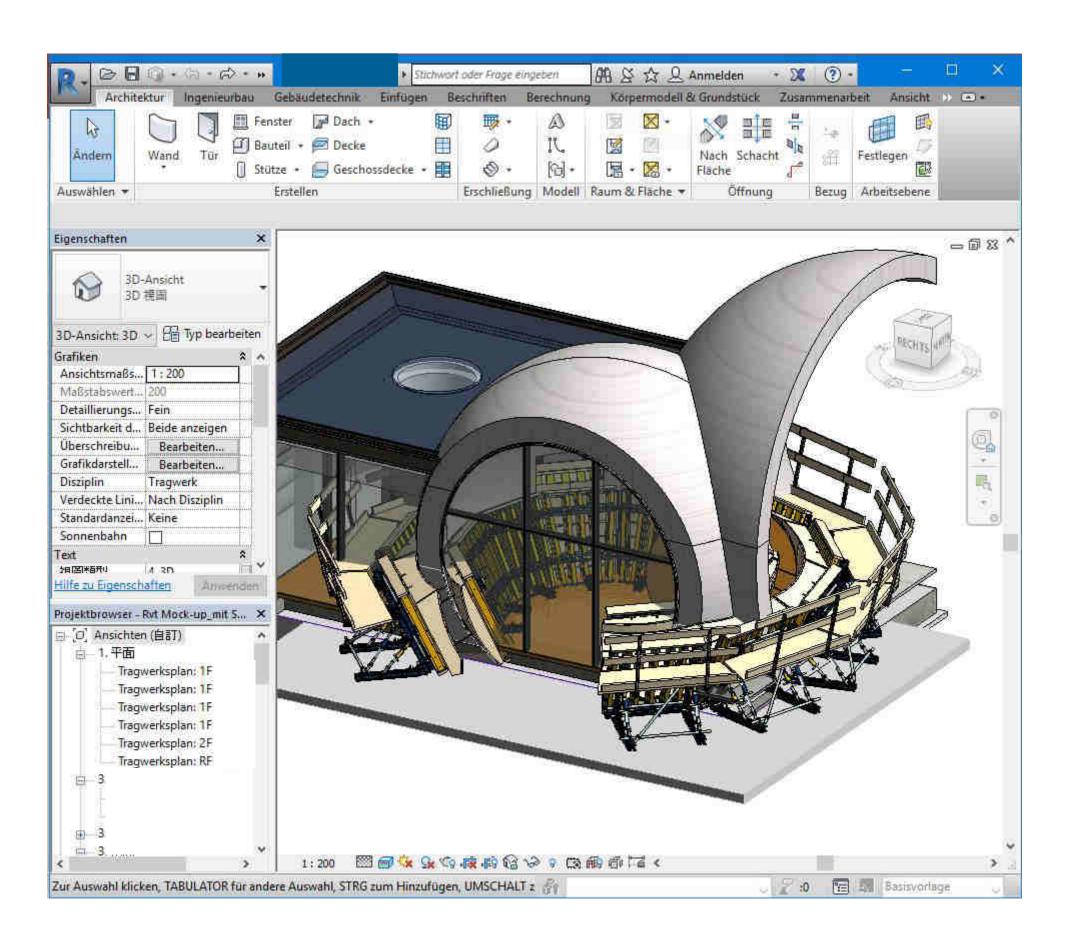
current project in Asia

 from model to formwork (via \*.dwg data file, volume model)



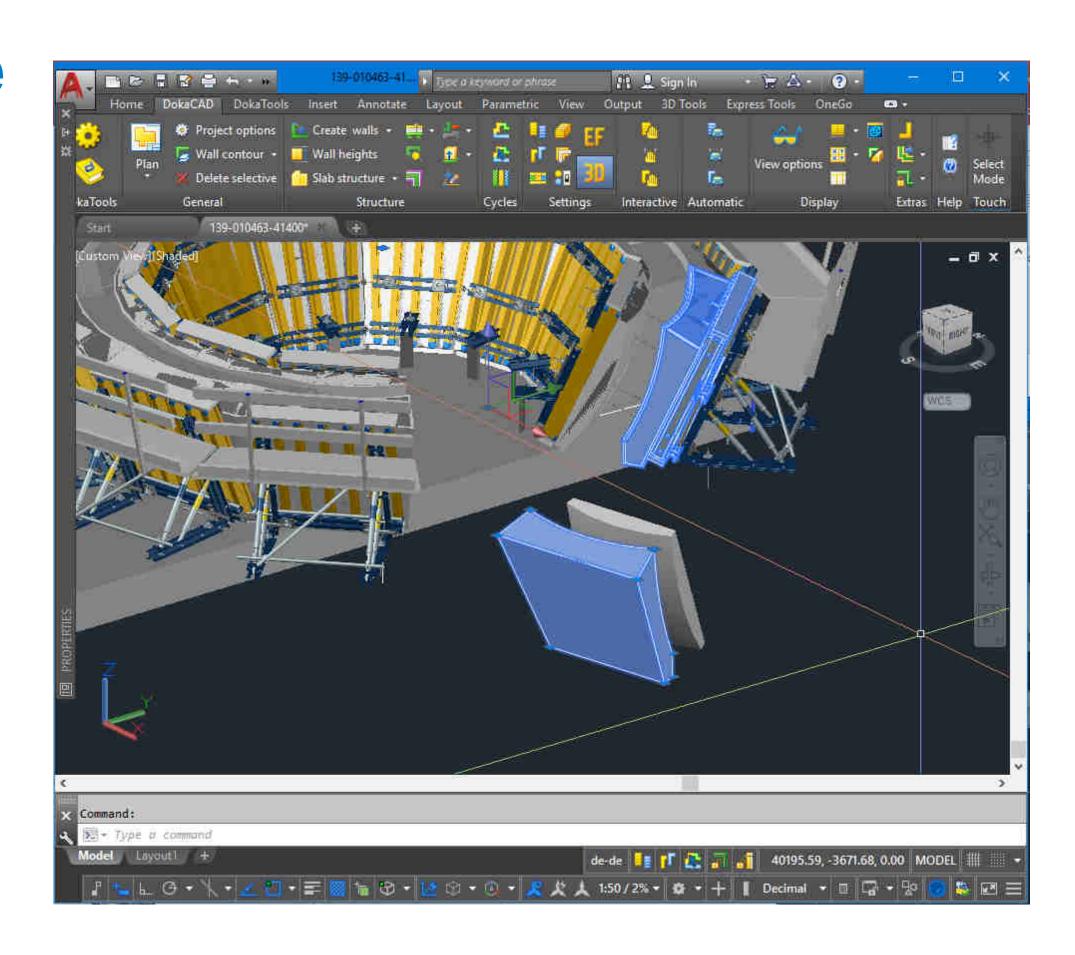
current project in Asia

from model to formwork

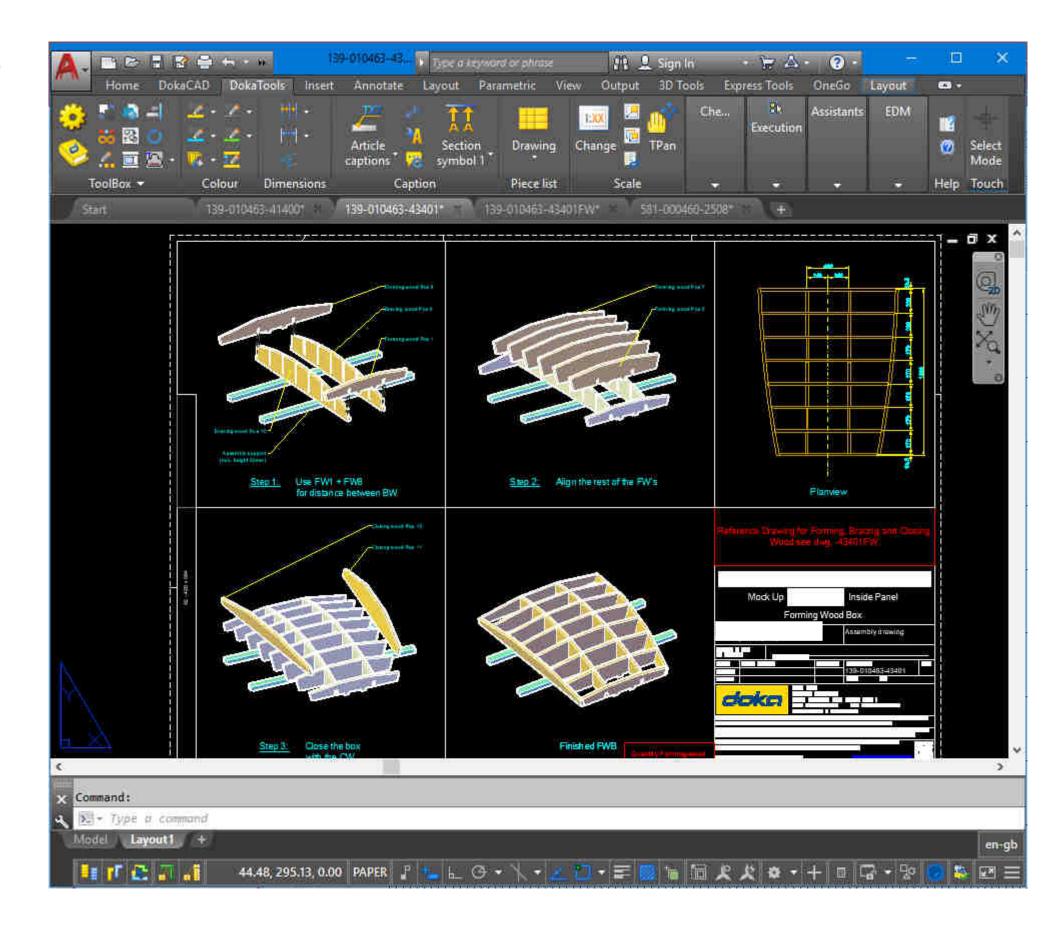


current project in Asia

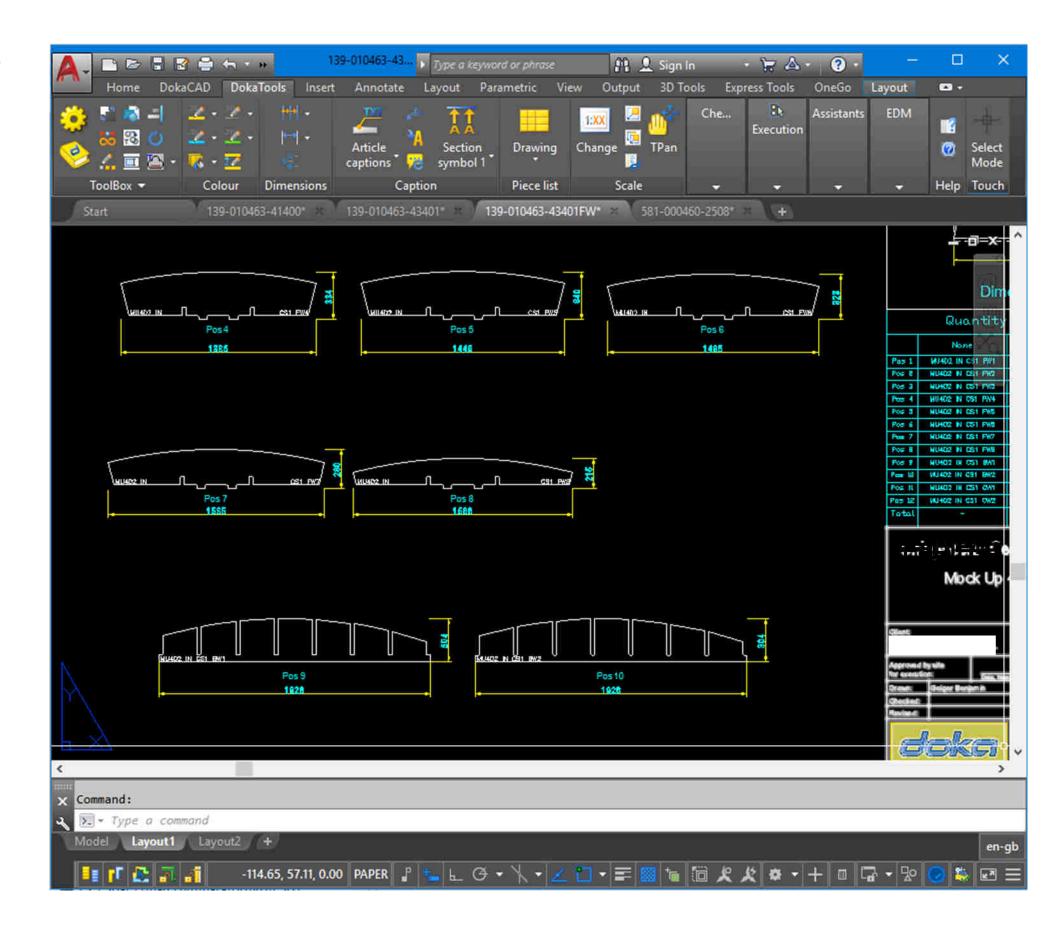
from model to formwork



- from model to formwork
- interlockingplug connection
- connect instead scale



- from model to formwork
- Automatic generation of forming woods
  - out of solid planks



- from model to formwork
- transfer of geometry toCNC-milling machine





- from model to formwork
- assembly Mock-up



- from model to formwork
- assembly Mock-up

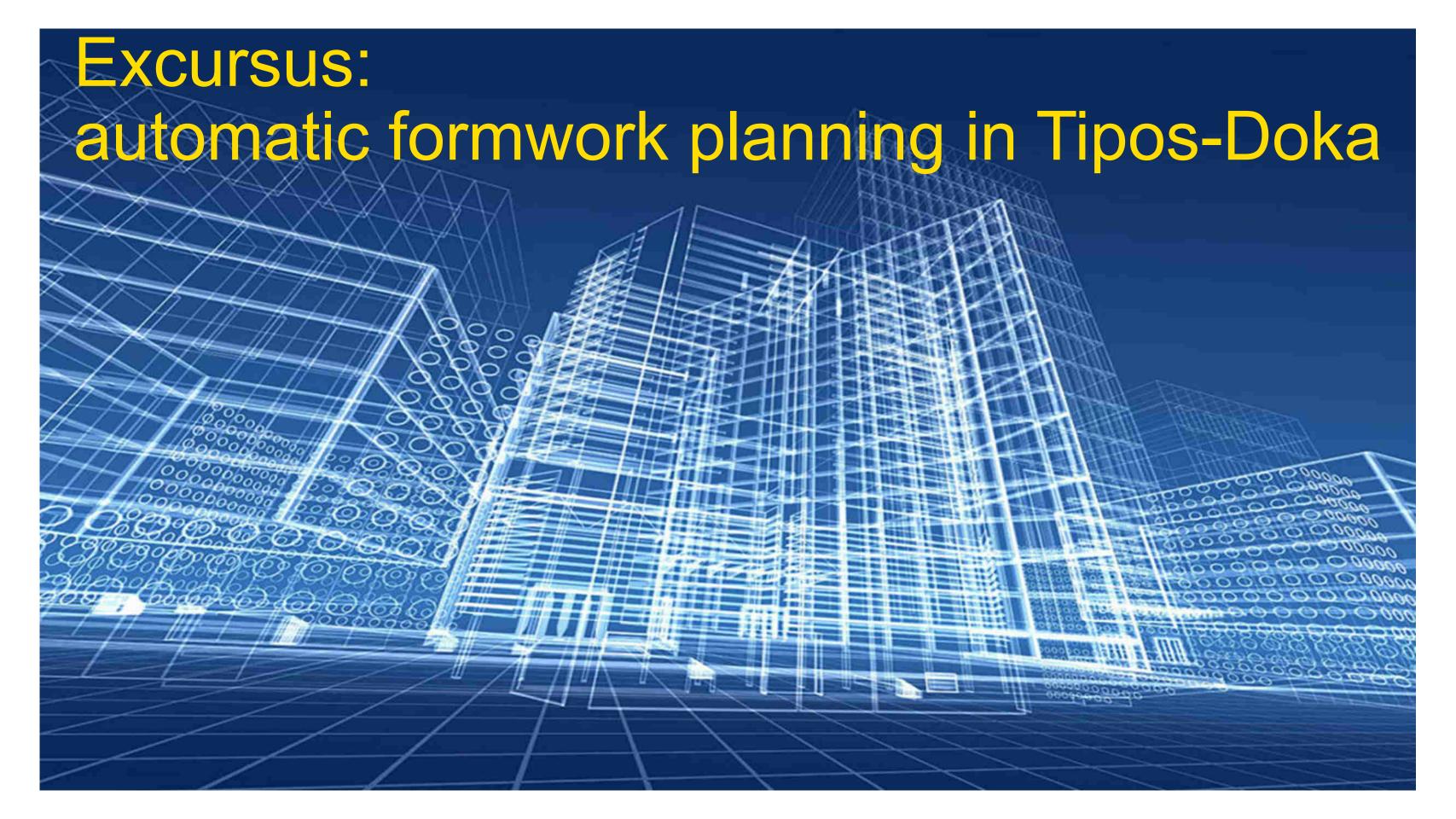


#### Doka BIM services

- Tipos-Doka and DokaCAD free of charge
- transfer BIM models for formwork planning, support of Autodesk Revit, Tekla Structures, Rhino and IFC
- 3D visualization of complex formwork sequences (on base of renderings)
- miniaturized models in 3D-print
- BIM library for Tekla
- BIM library for Revit



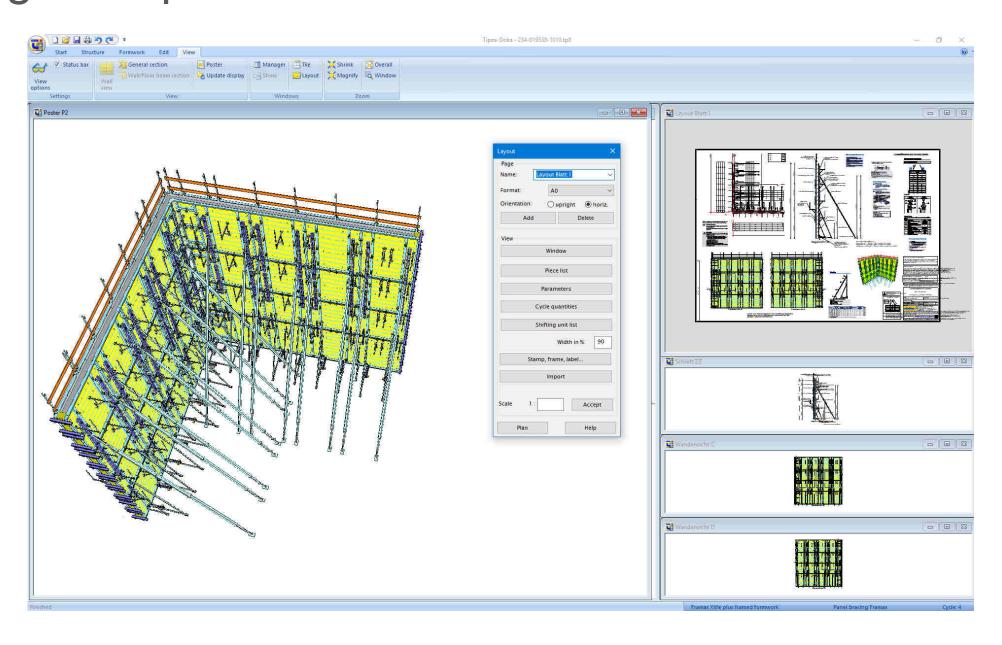




## Whereto with Business-Logic?

#### high professional knowledge in Tipos-Doka and DokaCAD

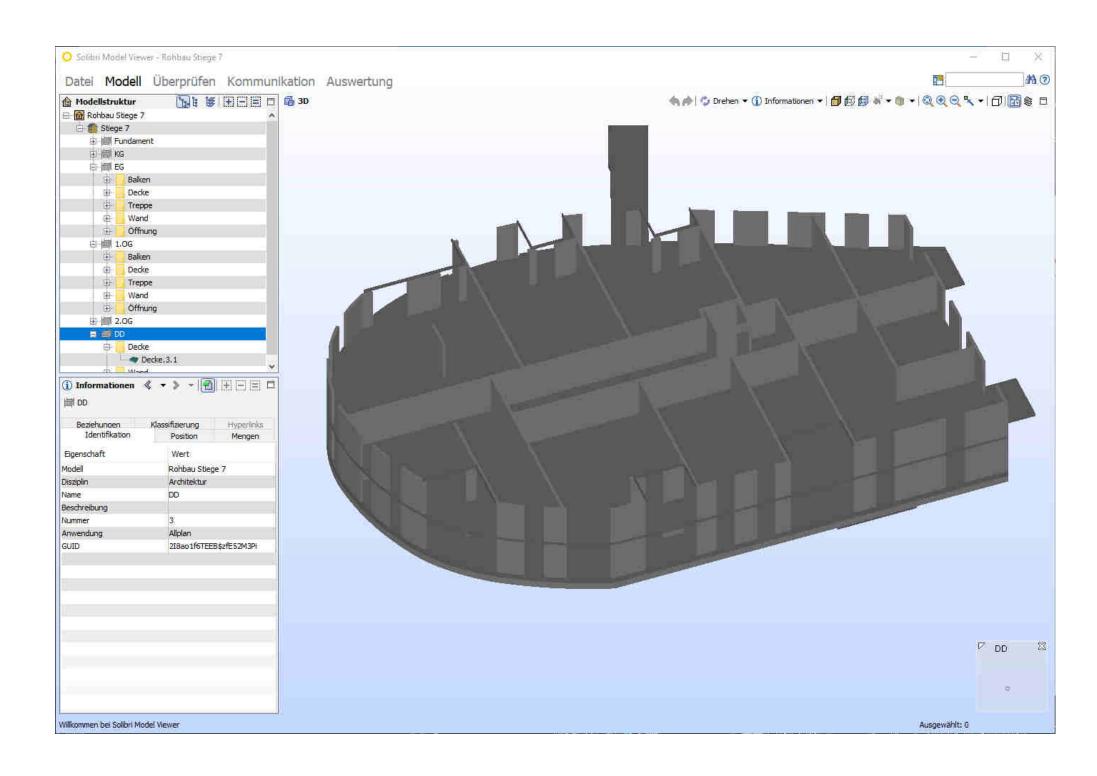
- formwork know-how
- construction rules
- Static
- Logistics
- ...





## BIM – formwork is geometry

 IFC-model in Solibri Model Viewer



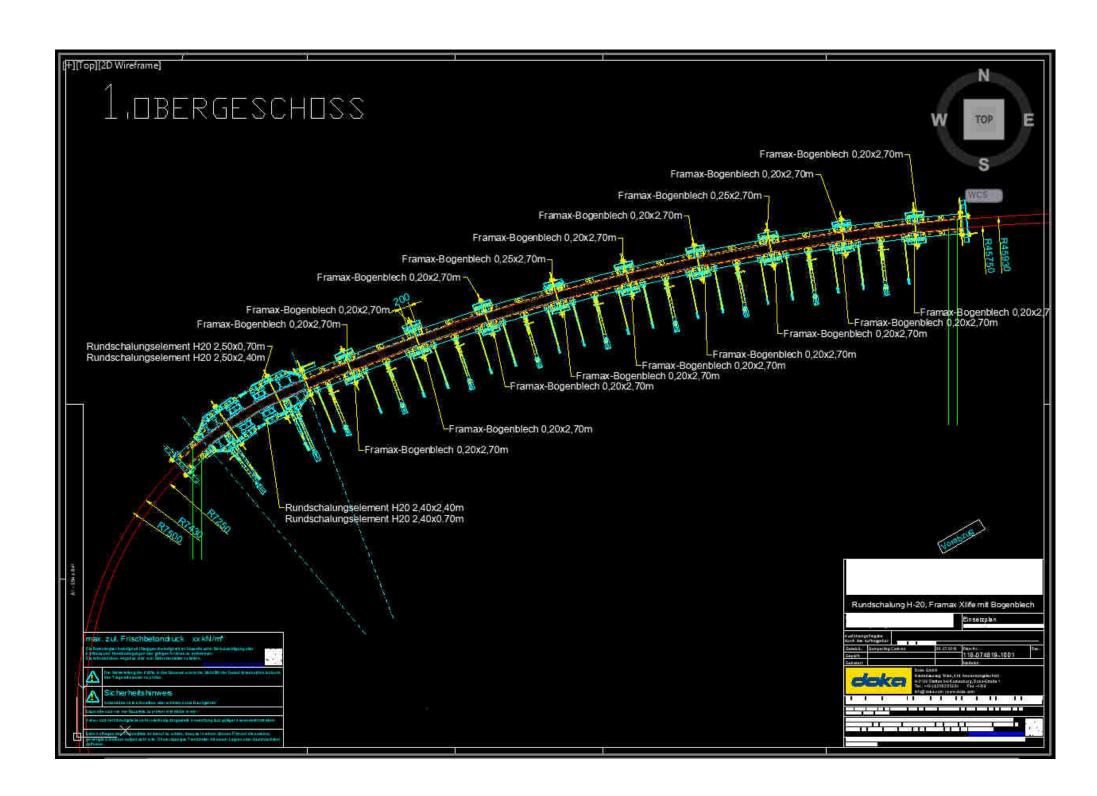
## BIM – formwork is geometry

for initial thoughts often
 a 2D drawing is enough



## BIM – formwork is geometry

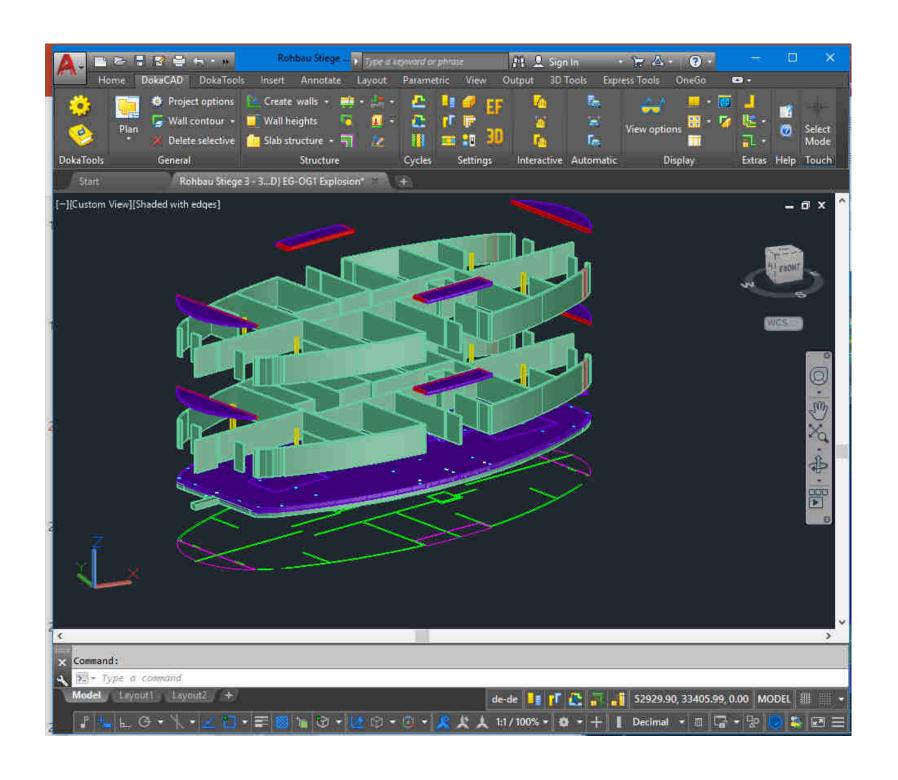
also for planninga 2D drawingis often enough



## BIM – formwork is geometry – new ways

import of IFC-model via
 Revit to AutoCAD

layout automatically diverted for formwork planning

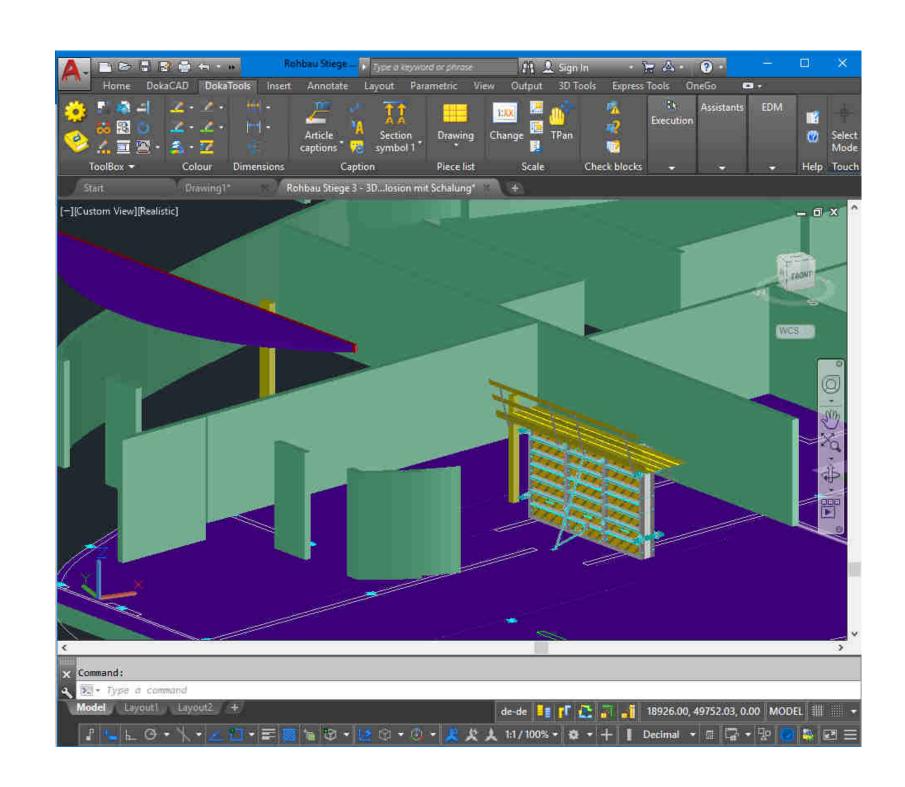


## BIM – formwork is geometry – new ways

import of IFC-model via
 Revit to AutoCAD

layout automatically diverted for formwork planning

 formwork for walls automatically planned



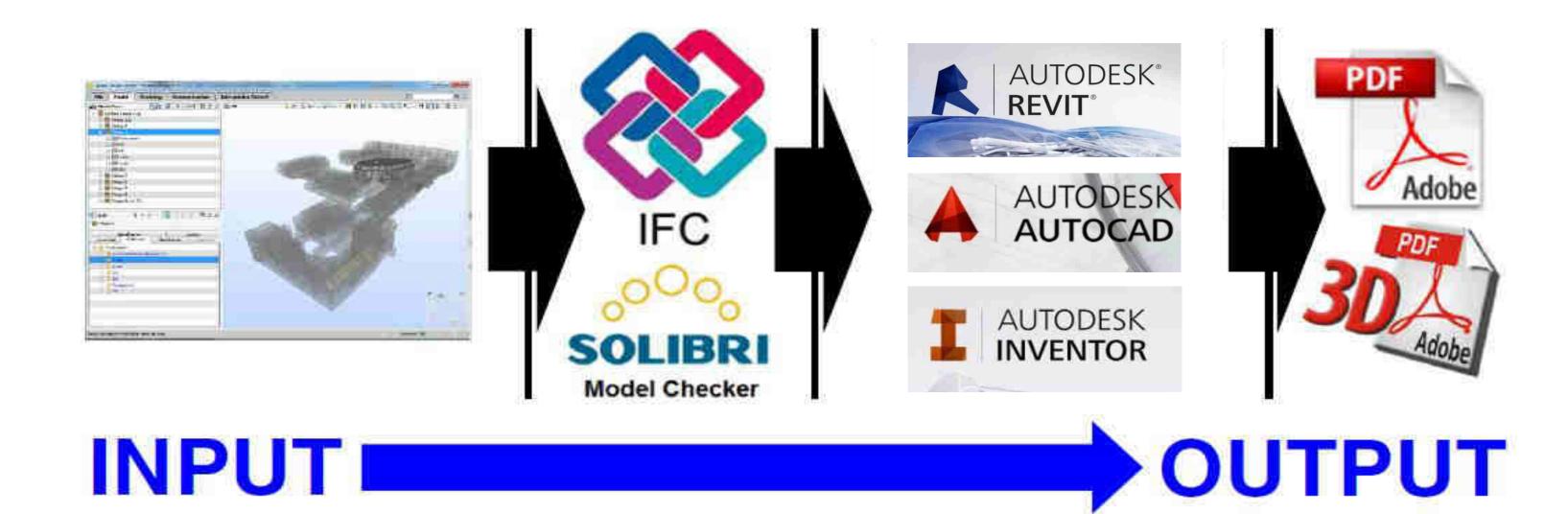


## BIM along the lifecycle of a building



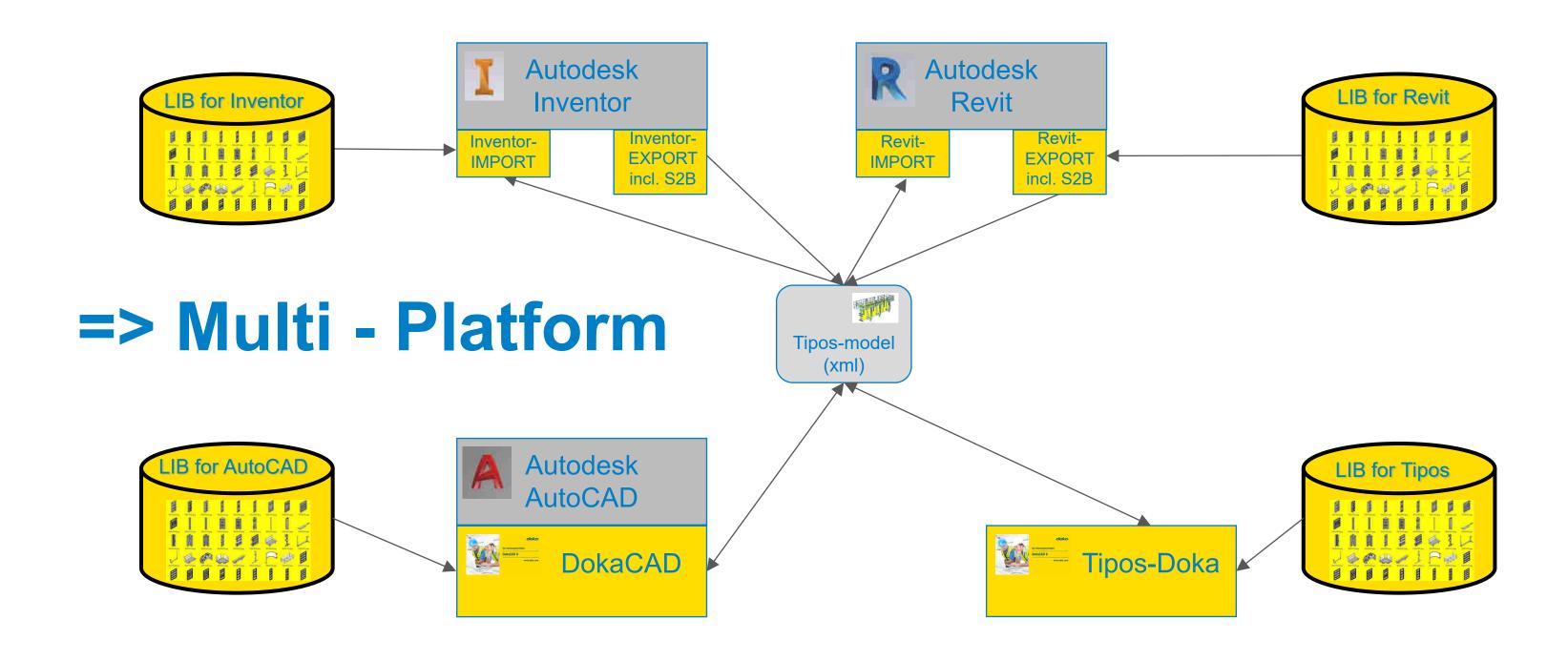
#### **BIM current situation at Doka**

process between Doka and contractors mainly linear





# Tipos-model import and export in Revit / Inventor / ...



#### **Smooth transition from CAD to BIM**



## Thanks for your attention!

