

Revit, Forge, ERP - Smart solution for medium sized construction companies

Presenter Name

Julius Grimm | [@linkedin.com/in/juliusgrimm](https://www.linkedin.com/in/juliusgrimm)

Matthias Fuchs | [@linkedin.com/in/fuchs-matthias](https://www.linkedin.com/in/fuchs-matthias)

Martin Loucka | [@linkedin.com/in/martin-loucka-20b585183](https://www.linkedin.com/in/martin-loucka-20b585183)



About the speaker

Julius Grimm

Julius is 26 years old, a BIM enthusiast and represents the third generation of the family-run, medium-sized construction company Grimm GmbH in Southern Germany. After his bachelor's degree, he was responsible for the company's first BIM project, the turnkey construction of a radiology practice. This was also part of his bachelor thesis. As managing director he is responsible for business development, digital transformation and strategy. His focus is on BIM implementation and the development of innovative BIM processes up to digital fabrication. In addition, Julius gives guest lectures at the Biberach University of Applied Sciences on the subject BIM and he is currently completing an MBA in business management in the construction industry at the academy of the University Biberach.

Julius.Grimm@grimm-bau.de



About the speaker

Matthias Fuchs

Matthias Fuchs studied project management/construction at the University of Applied Sciences in Biberach. During his master studies he worked as a research assistant on various digitization projects for the construction industry and investigated, among other things, the use of BIM in factory planning at the world market leader KNOLL Maschinenbau at its site in China. After his master's degree in 2019, he joined Grimm GmbH as a digitization and technology expert. His responsibilities include business development, BIM implementation, software development and the optimization and implementation of BIM workflows. Matthias is a technology enthusiast through and through. He is passionate about technology and its ability to empower people to develop new solutions, services and business models.

Matthias.Fuchs@grimm-bau.de



About the speaker

Martin Loucka

Martin Loucka is development engineer and managing director of a Swiss software company ioLabs Swiss GmbH. His focus is BIM, digital planning and manufacturing. He and his team is currently focusing on Autodesk Forge based solutions. Before that, he worked for the as a developer and as a research assistant at the University of Stuttgart.

ml@iolabs.ch

Agenda

COMPANY PROFILES

THE IDEA OF ZAPPER

ZAPPER

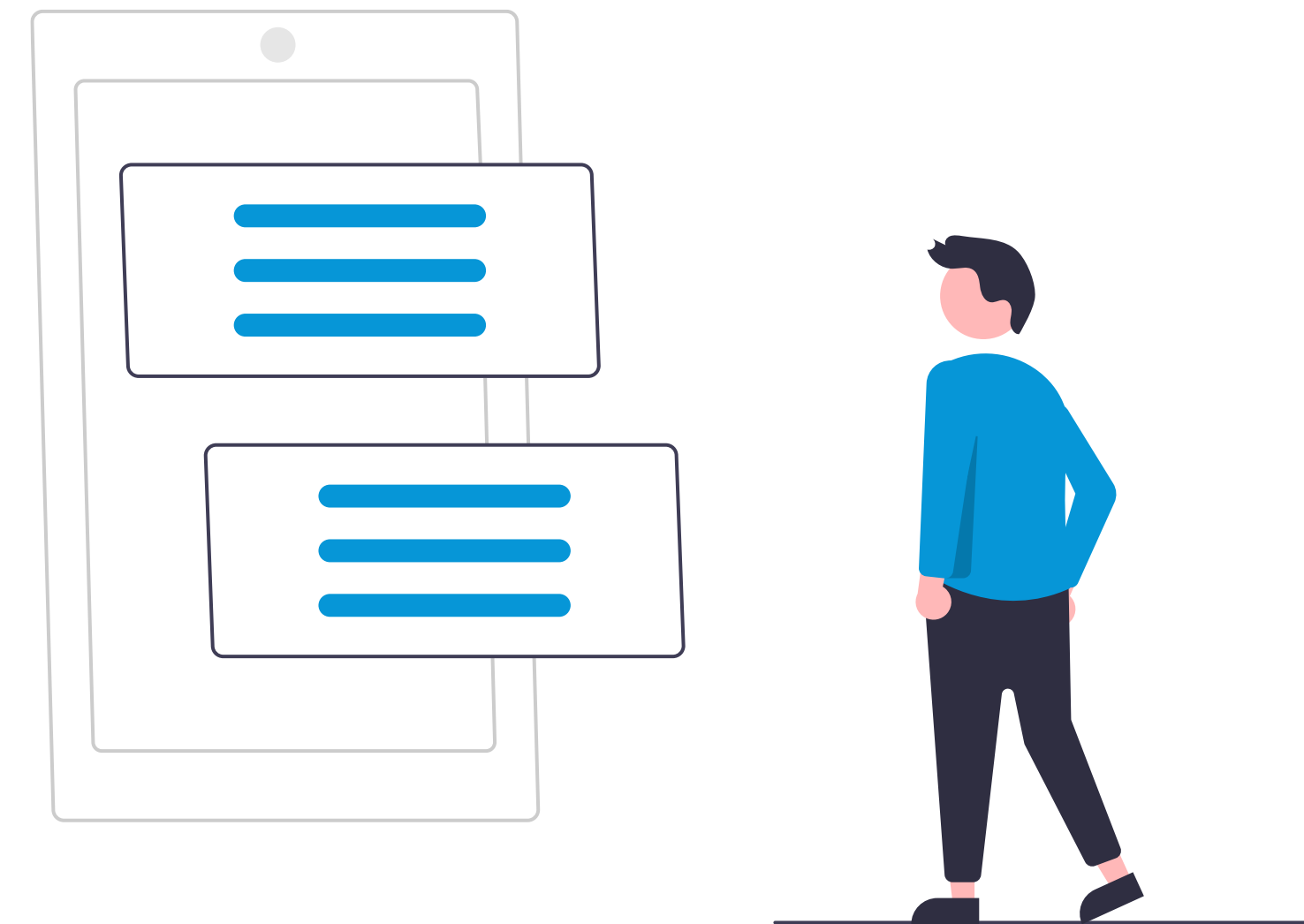
DEEP DIVE INTO ZAPPER

TECHNOLOGY BEHIND ZAPPER

SMART LINKING WITH EBKP-H

ERP INTERFACE

LIVE DEMO OF ZAPPER



G R I M M

Grimm GmbH

Who we are

We are a family-run construction company in south Germany, which plans, supervises and realizes turnkey construction projects for private and commercial customers. It does not matter whether we build new buildings or renovate existing ones, every customer is competently supported and advised by us from the first meeting to the handing over of the keys. Our team, with different skills, works with great commitment and passion on a joint project success.



HISTORY

1962
Foundation of the company.
Desire for independence.

1981
Werner Grimm joins as a
plasterer. Further education
to the master craftsman

1982
Paul Grimm joins as a
bricklayer. Then studied
civil engineering

since 1993
Turnkey construction as
complete service for
SFH an apartment
buildings.

1994
Foundation of Grimm
Bauen und Verputzen

1998
Paul u. Werner
Grimm take over the
management

Since 2009
Project development
of
residential real estat
e

2018
Julius Grimm joins as
the 3rd Generation.
And starts with the
introduction of BIM.

2019
Grimm Bauen und
Verputzen GmbH
became Grimm GmbH

2019
Implementation of a
planning department

Since 2020
Construction software
development based on
Autodesk Forge.

Implementation of the BIM
process chain across the
entire value chain.

Future

WHAT WE BELIEVE IN

In our innovative strength, and the common goal of planning, building and renovating the best and most innovative buildings. With new technologies, agile cooperation and a start-up culture, we are already one step ahead in the construction industry. Each of our projects has a digital twin – the BIM model. We pursue the goal of digitizing and optimizing the entire lifecycle through the use of craftsmanship, data and technology. We increase productivity and reduce project costs. Finally, we see it as our responsibility to help shape the economic, ecological and social future of our society – to reduce our ecological footprint. And not only through prefabrication and digital planning, but also through highly efficient structures and building technology.

OUR CULTURE



Yes we can

We are a highly motivated team and want to make a difference. We think in solutions, not in problems



No Risk = No Success

Not to risk anything is the biggest risk of all. If we suffer setbacks, we stand up, learn and continue to grow.



Stay focused

We work together for the success of the project: efficiently, sustainably and conscientiously



Open minded

We live new trends and developments. That's how we fulfill individual customer wishes



Be passionate

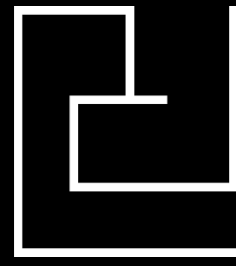
We don't just want to be hip. Much more important to us are curiosity, creativity and the desire for change. We burn for what we do.



BUSINESS UNITS



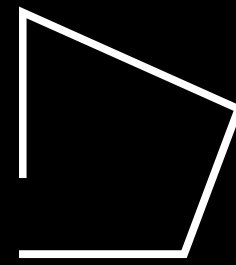
Project
Development



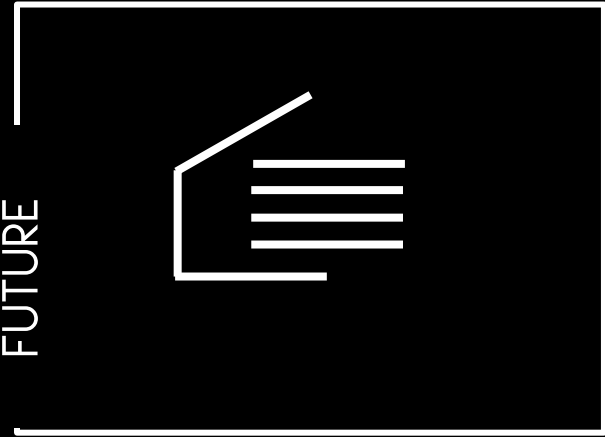
Design



Build



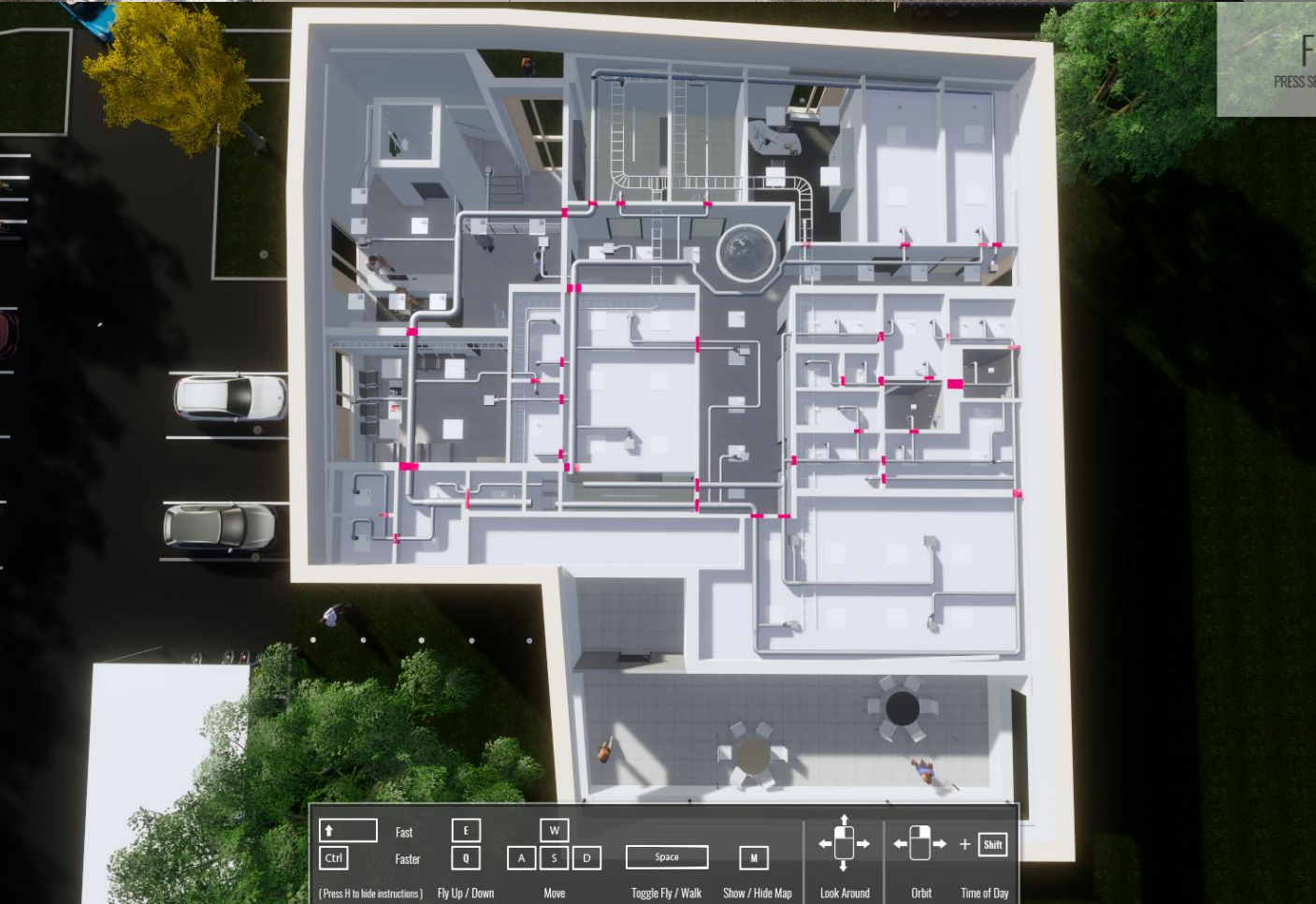
Renovation



Facility
Management



Sumoo
Software development



HEALTHCARE

Radiology

Biberach



INDUSTRY

BayWa
Biberach



Multi-Storey Residential Construction

Jersayweg

Biberach



Detached House

Biberach

Facts & Number

About Grimm GmbH

60

Employees

1962

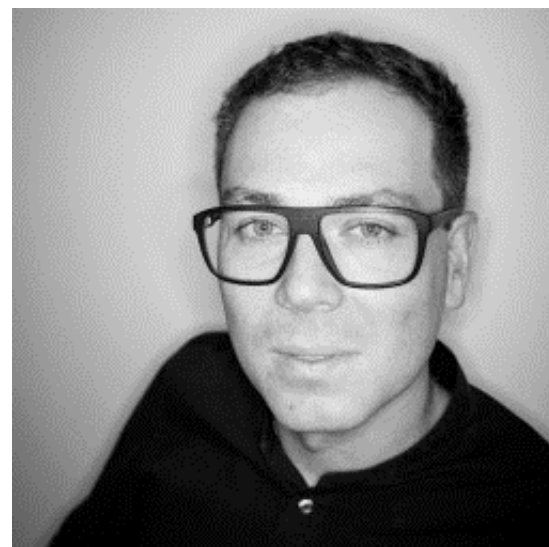
Founding

11

Mio.

2018

BIM



Martin Loucka
M.Sc. (Uni.) ITECH,
Bc. (Uni.) Economics

Development Engineer
Digital Planning

CEO, Founder



Petr Stefan
Dipl. Ing., Information
Technologies

Software engineer
Full stack developer

CTO, Founder

Team ioLabs



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M.Sc. (Uni.) ITECH,
Bc. (Uni.) Economics

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Technologies

Software engineer
Full stack developer

CTO, Founder

Team ioLabs



Günther Patzak
Certified accountant

COO Finance
Accountant



Dr. Miroslav Simko
Dipl. Ing. Phd.,
Nuclear Physics

Software engineer
Mathematician,
physicist



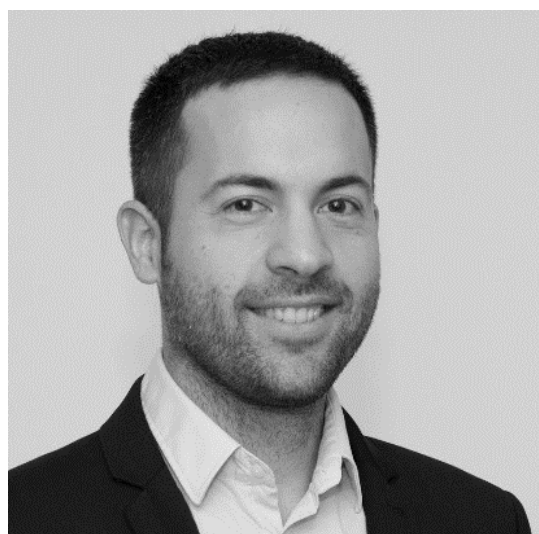
Michal Gabas
Dipl. Ing. arch.,
Architecture

CAD Expert



Tana Balatkova
MSc. (Economics),
Dipl- Ing. (Media)

Marketing
Public relations



Stefan Lai
Certified accountant
Eidg. Fachausweis, 5.4

Trustee (Treuhänder)
Accountant



Jakub Jirous
B.Sc., Information
Technologies

Software engineer
Frontend developer



Jaroslav Danicek
B.Sc., Information
Technologies

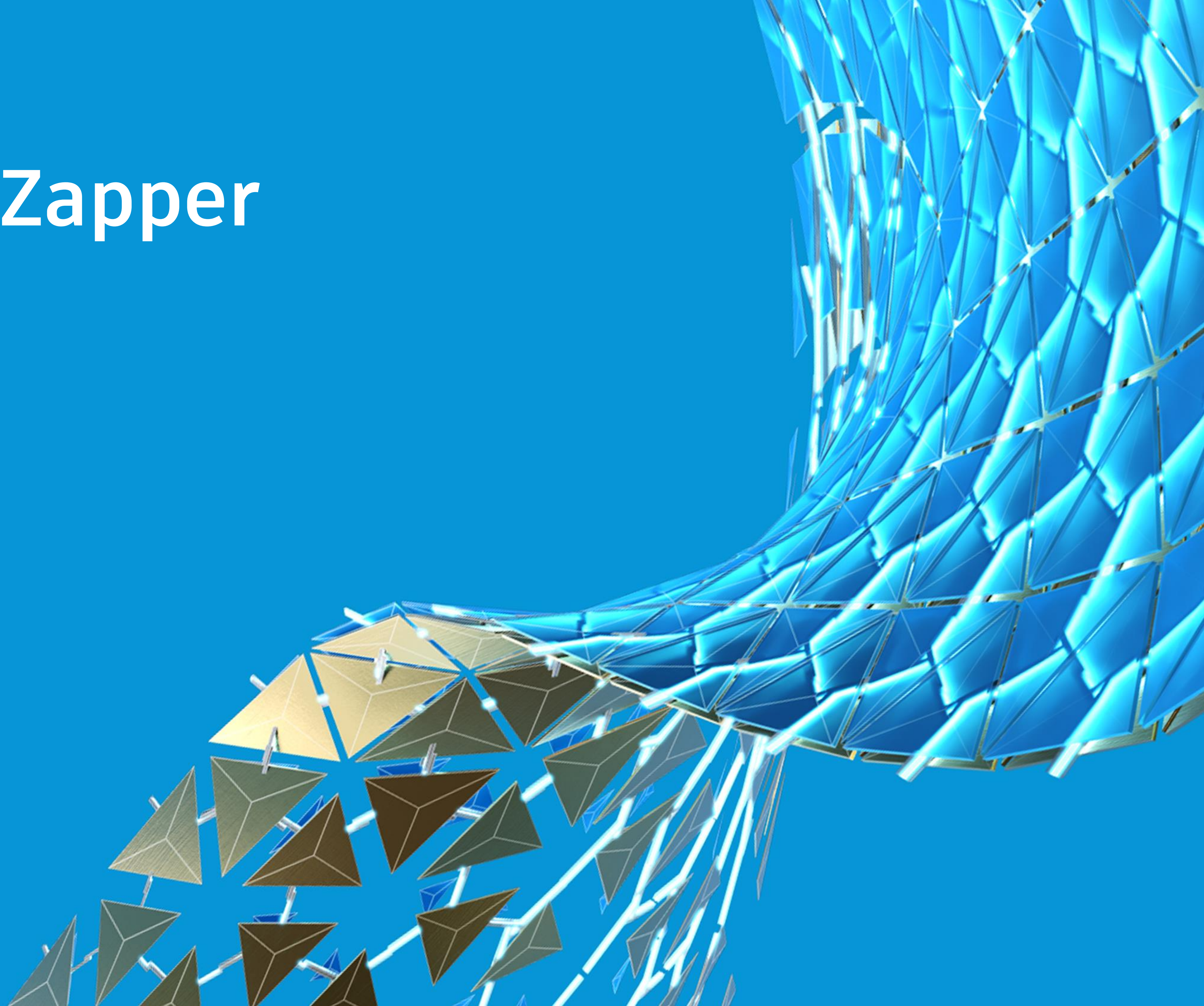
Software engineer
Backend developer

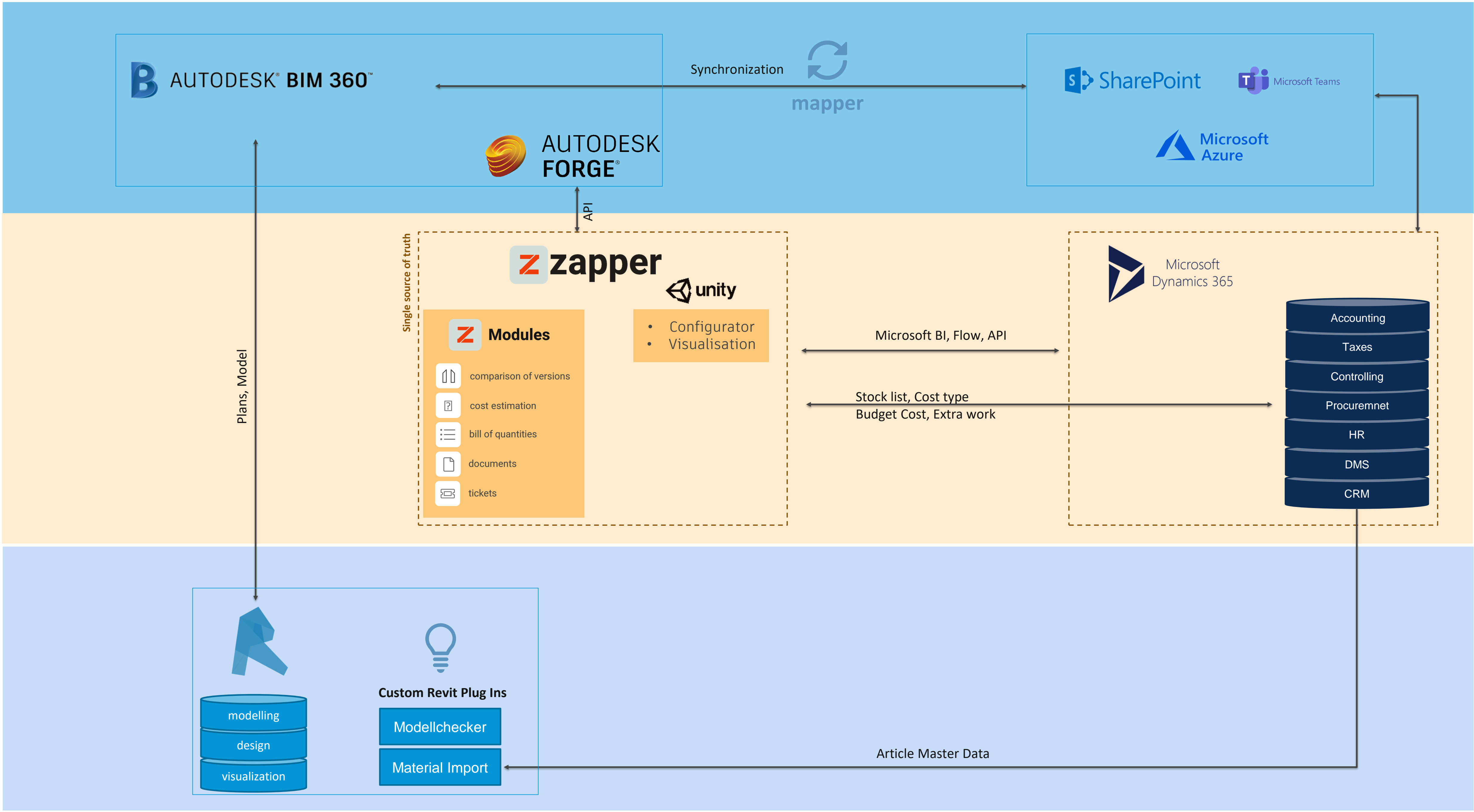


Katerina Skublova

Office Manager
Assistant

The Idea of Zapper





Why doing software development?

OUR REQUIREMENTS

We were looking for a modern, innovative construction software solution that supports our entire process chain and picks up the user of today.

ISOLATED APPLICATIONS

We have looked for an alternative and there was the possibility to use isolated applications. But for us, no external solution came into question.

THE MARKET

We examined existing construction software solutions on the market but have not found a suitable solution with regard to our requirements. Nevertheless we want a solution that meets our expectations.

THE SOLUTION

We finally decided to develop an eco system with own sources. We want to follow the principle of the single source of truth and wanted to control the entire digital process on ourselves.

The biggest hurdle

Uncertainty/risk

Large investments, undefined duration, not measurable

Setbacks – “One does not buy the cat in a bag”

Explain the process / take employees and GF with you



Zapper

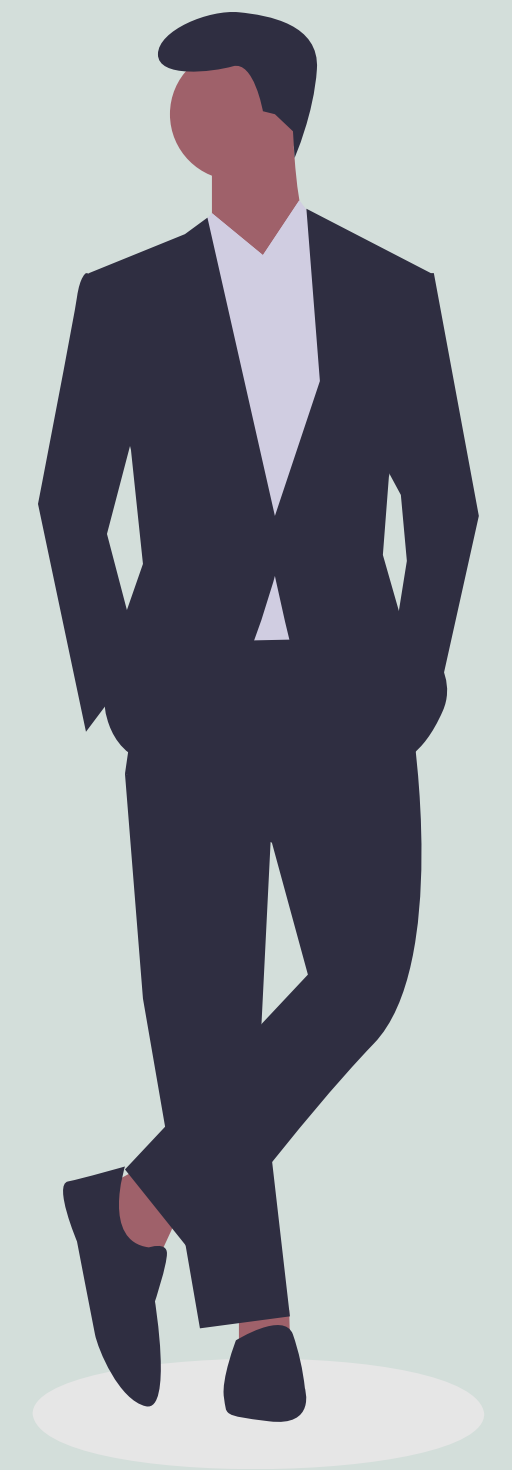
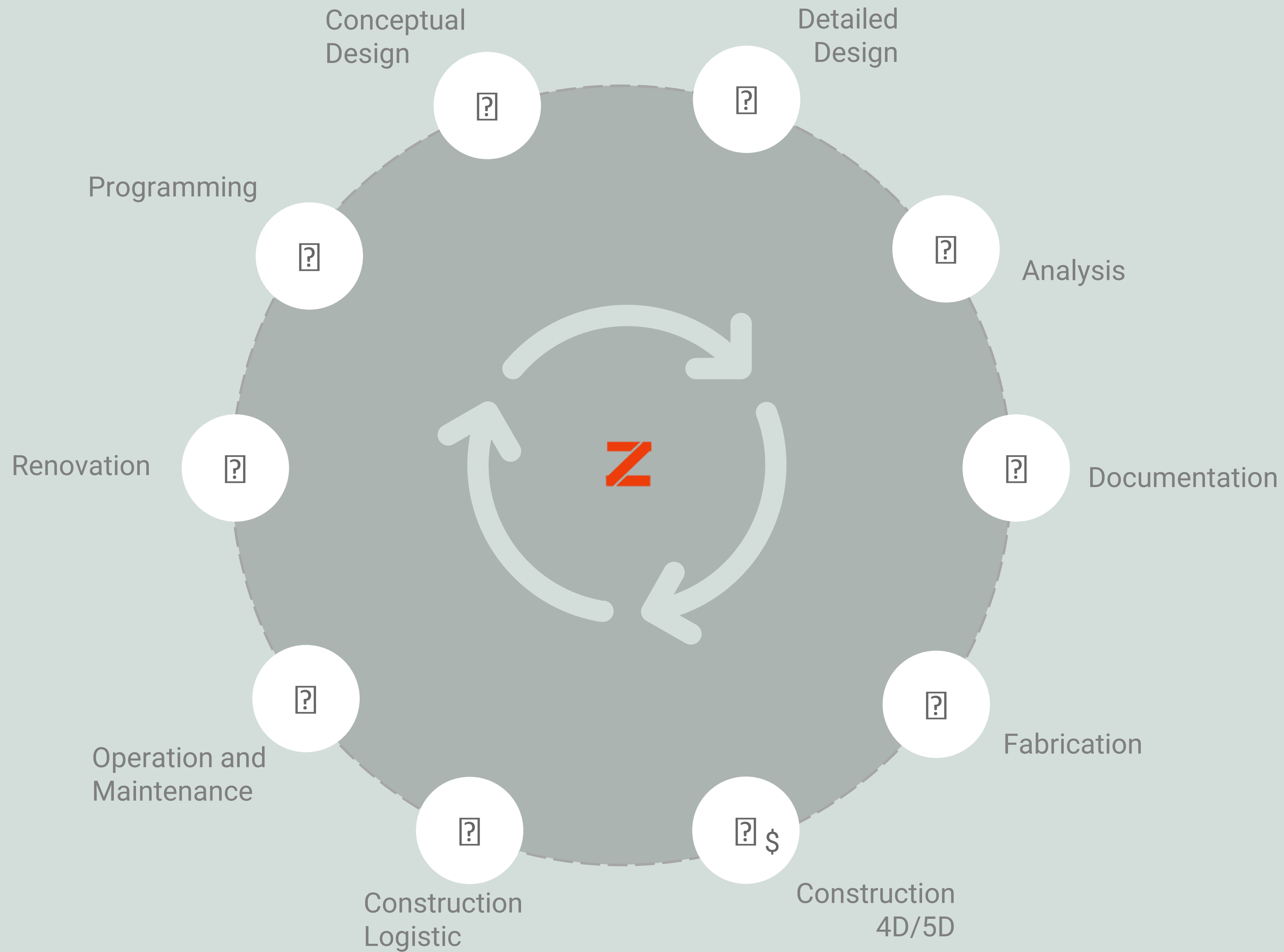


*“People should not be afraid to
use construction software.”*

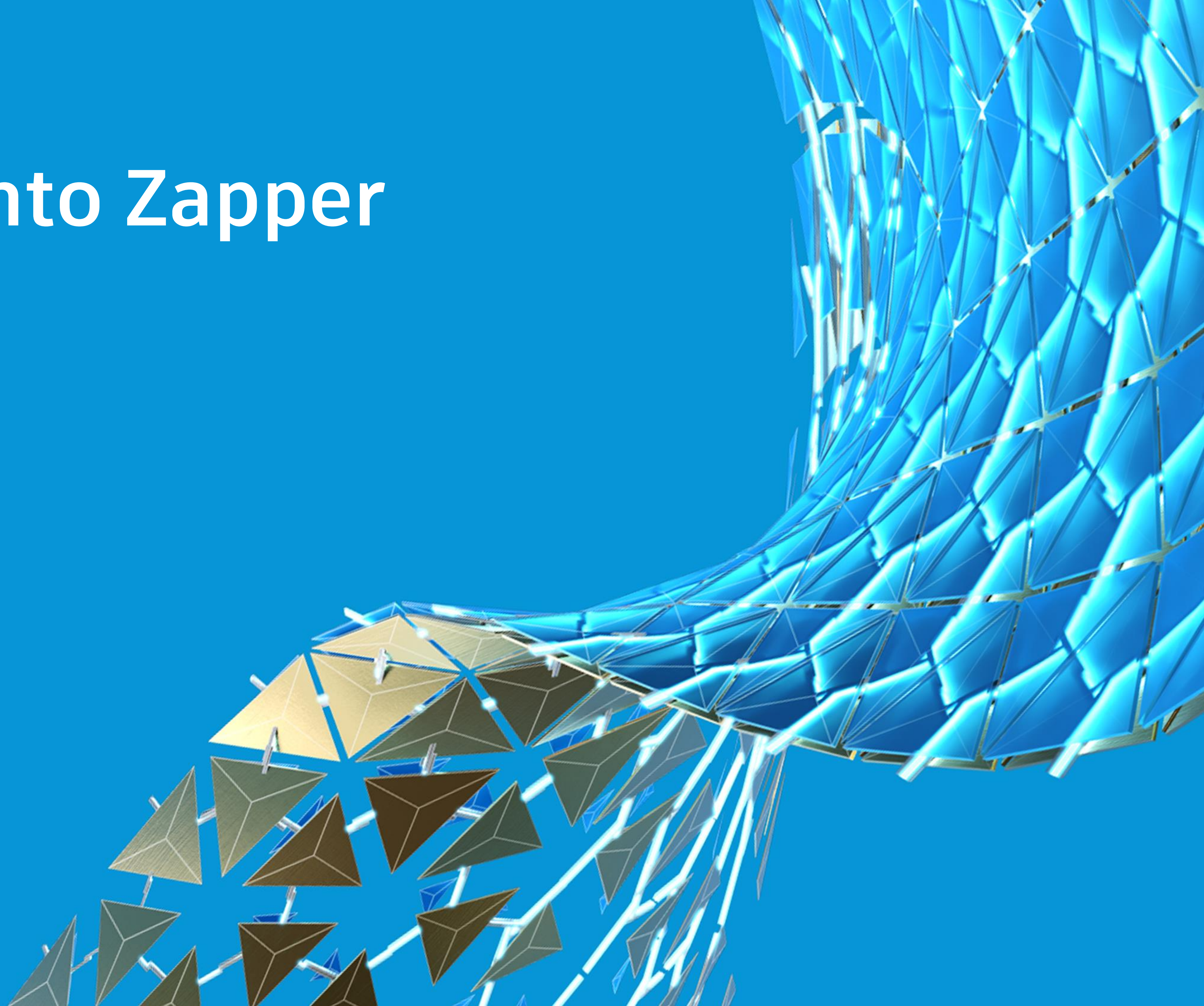
“They should love it.”



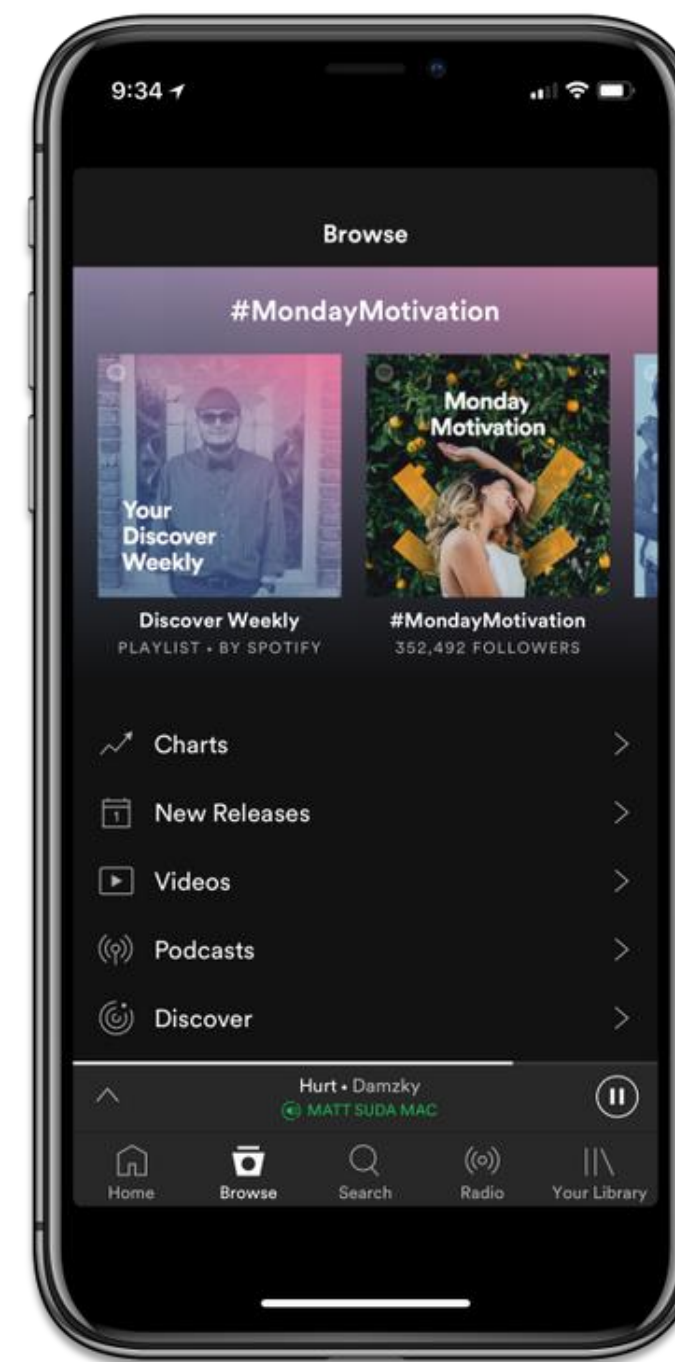
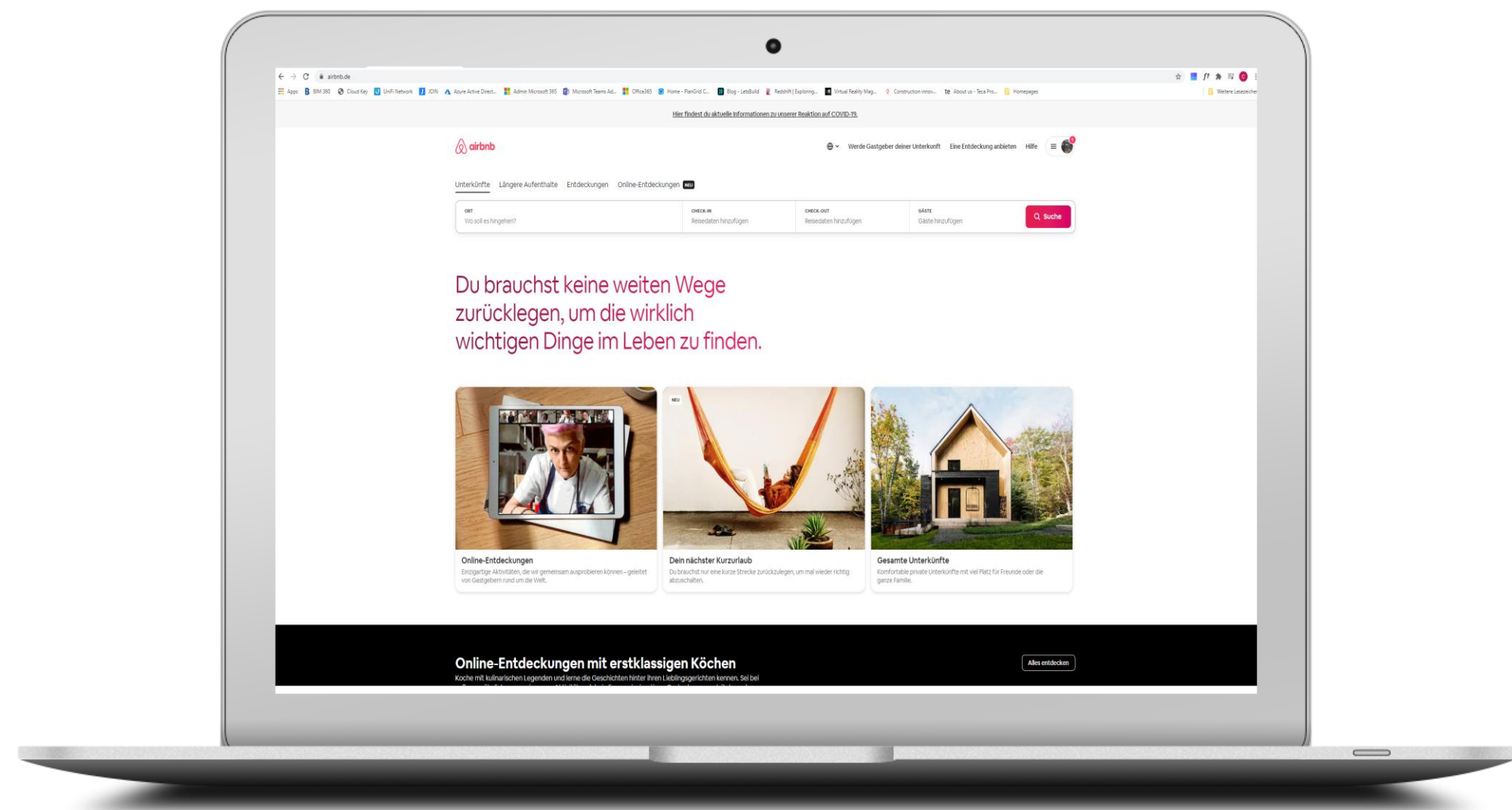
Z zipper



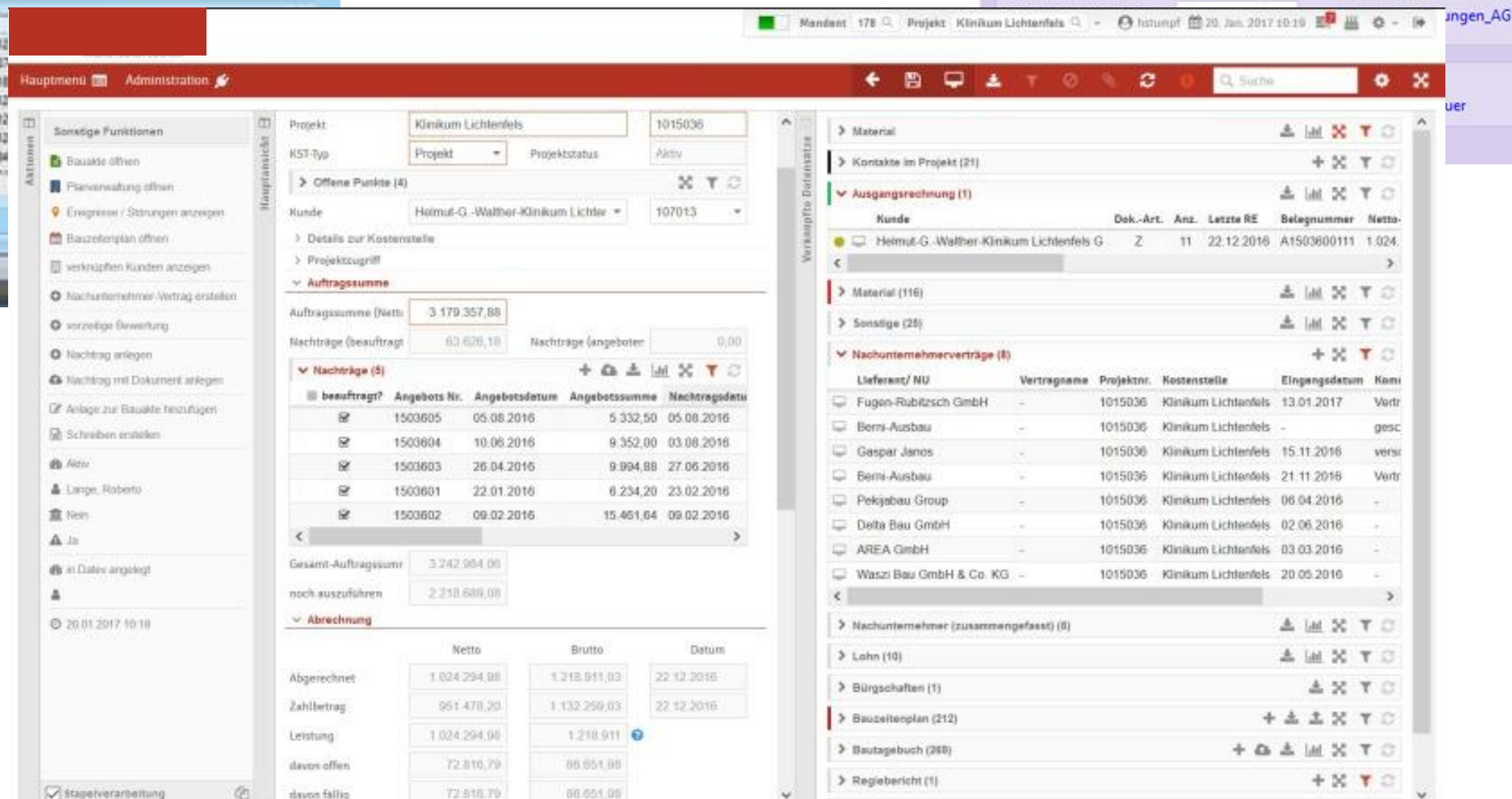
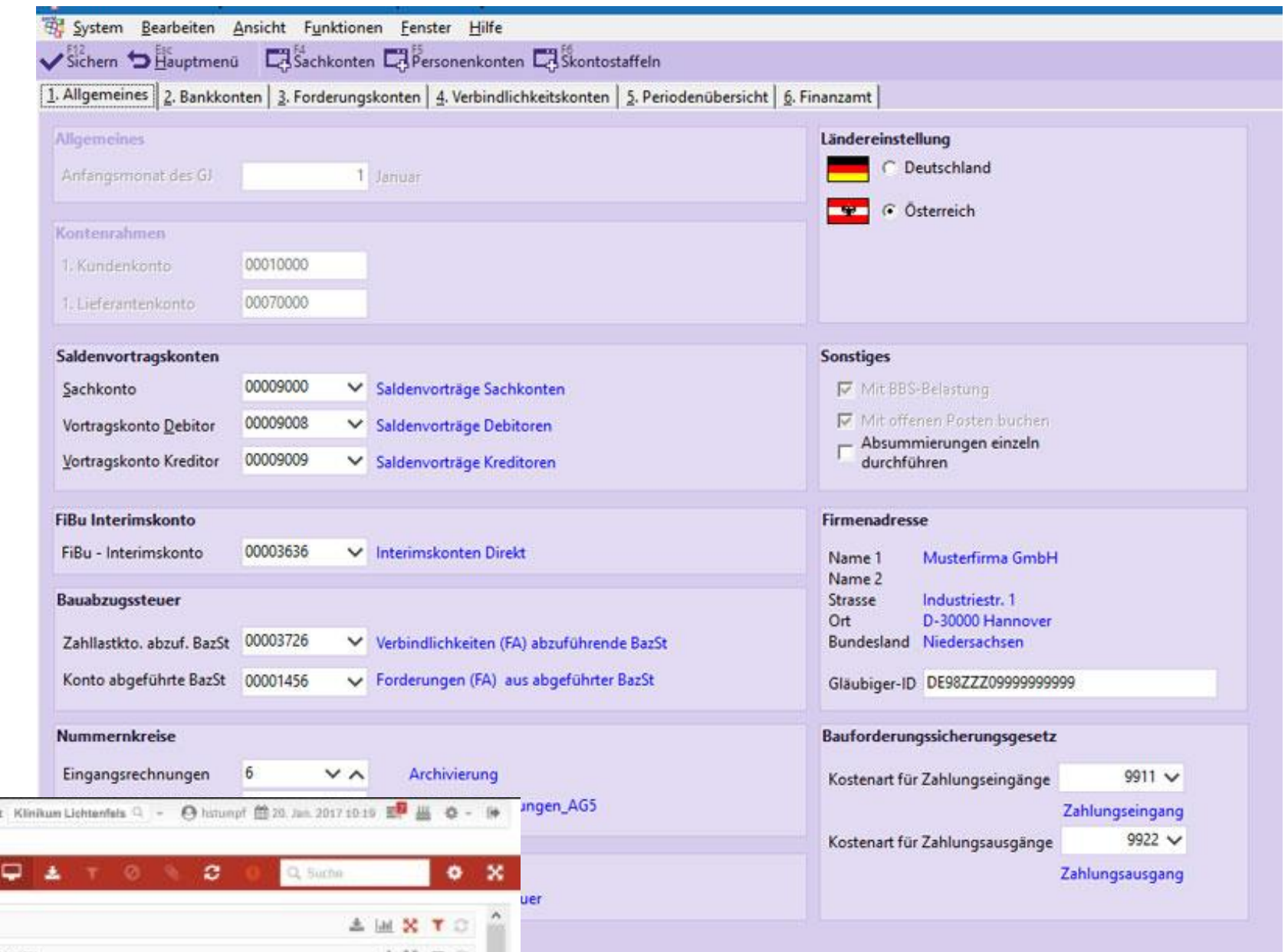
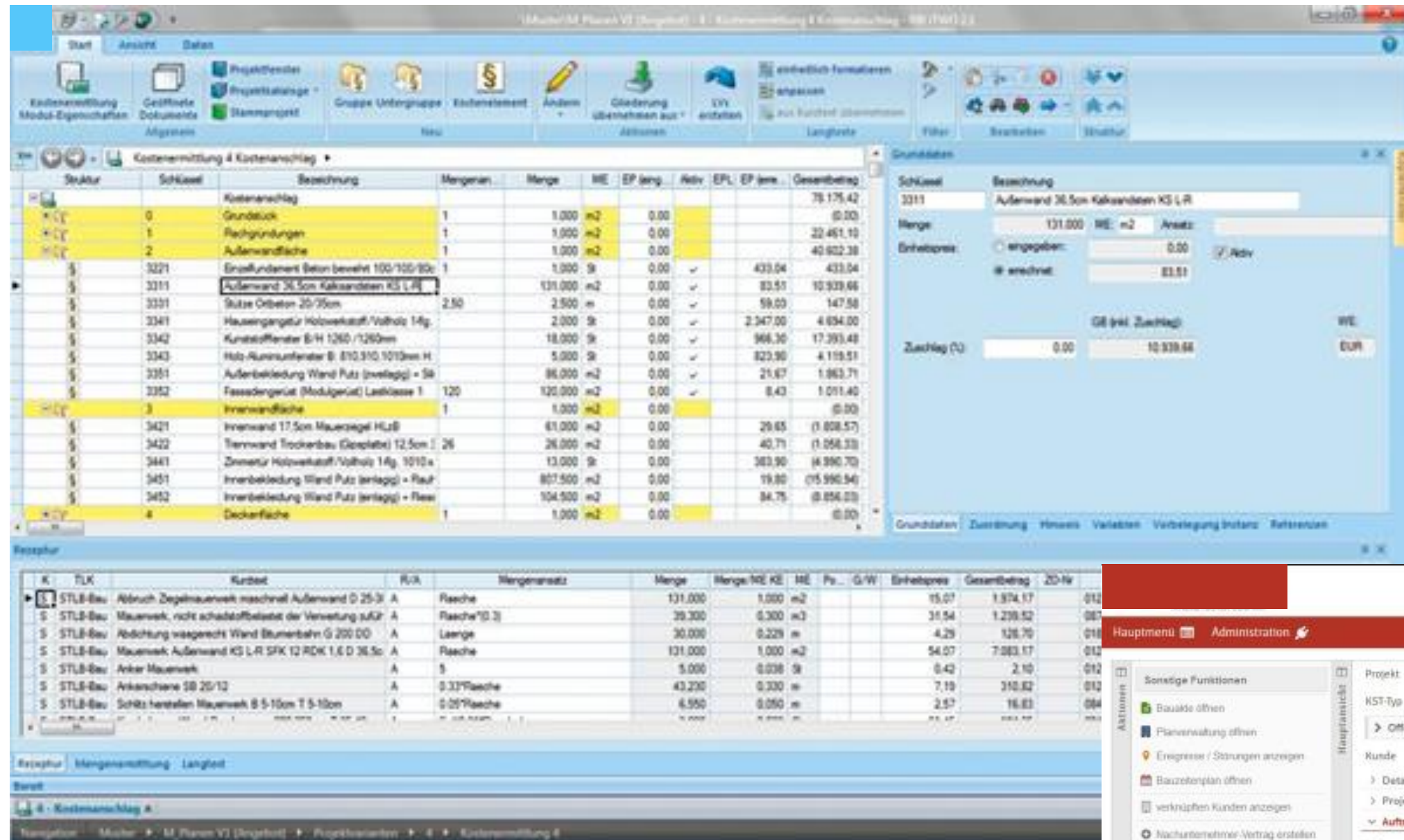
Deep Dive into Zapper



User experience is the key



Today's construction software



④

Z

1





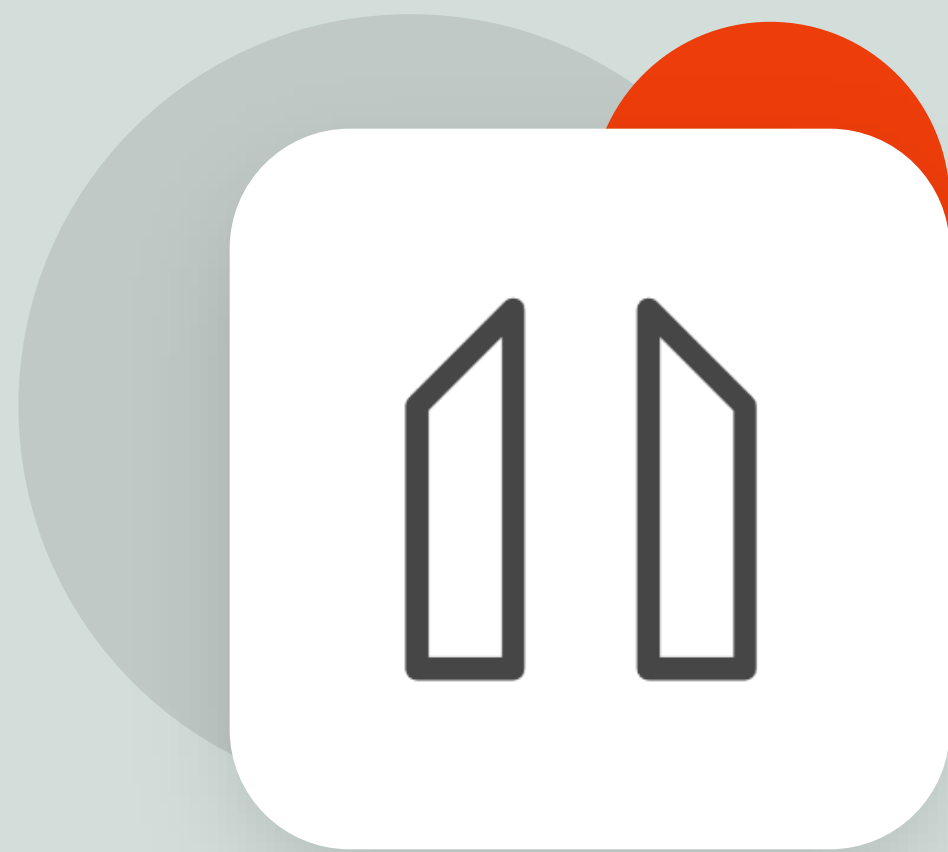
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Model-based

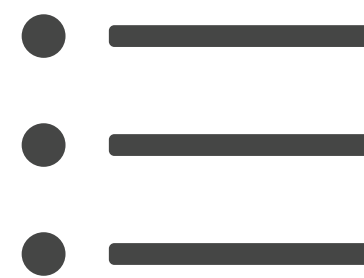
Cost estimation

Cost estimation based on comparison projects and model-based conceptual designs



Comparison of versions

Compare design drafts and planning options



Tendering



Call for Tenders/
Submissions



Assignment



Status Quo
Analysis



Controlling



Billing



Documents

Linked and current documents



Documents

Grimm - BC

MacBook Air - Apple (DE)

grimm.iolabs.ch/projects/01/cost-calculator

Pilotprojekt

2

Dokumente

Politprojekt > Ordner 1 > Ordner 1.1

Pilotprojekt

Ordner 1

Ordner 1

Ordner 1.1

Ordner 1.1

Ordner 1

Ordner 1

Ordner 1

Suche

Upload

Format

Größe

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Windows

Google

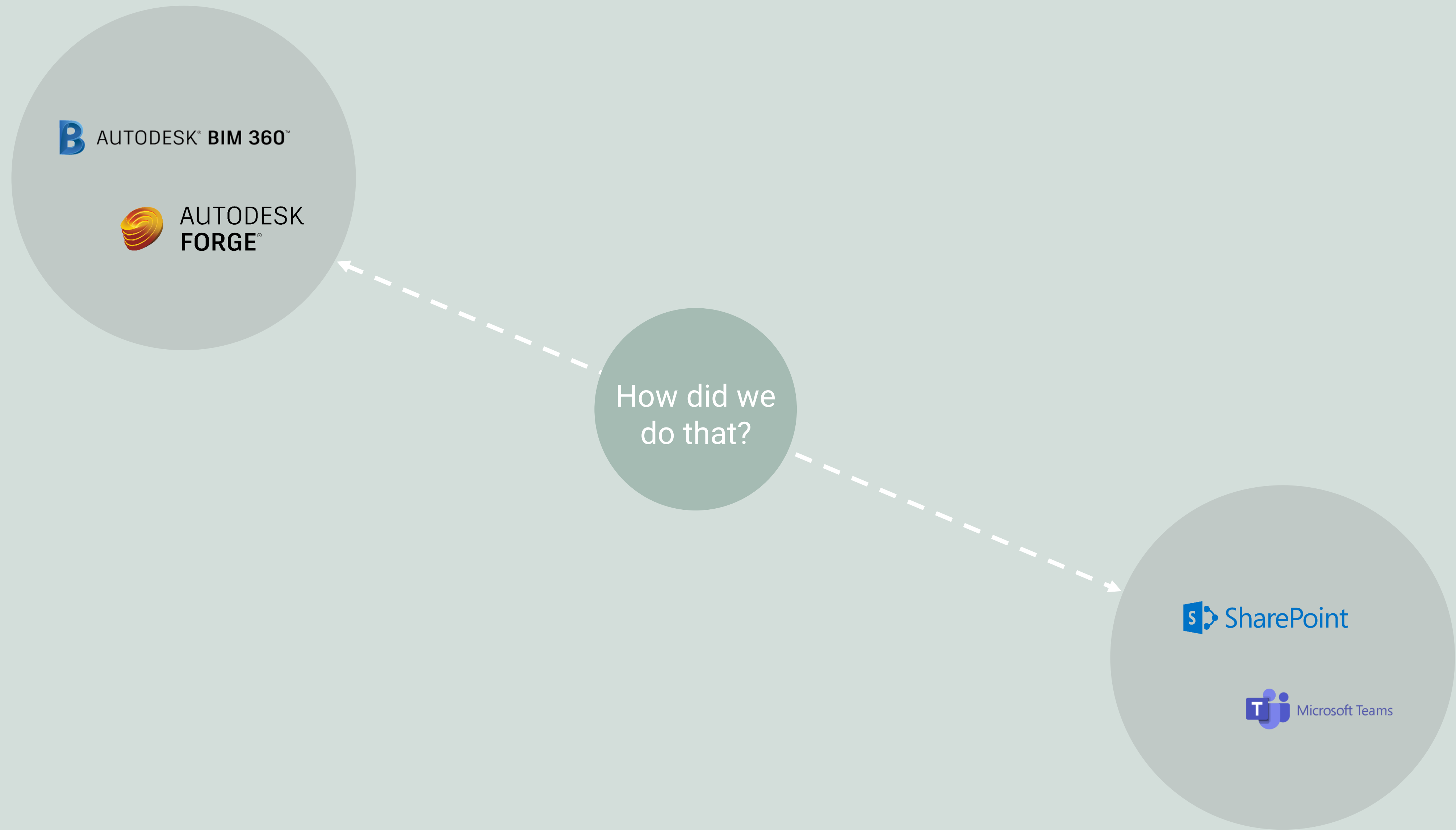
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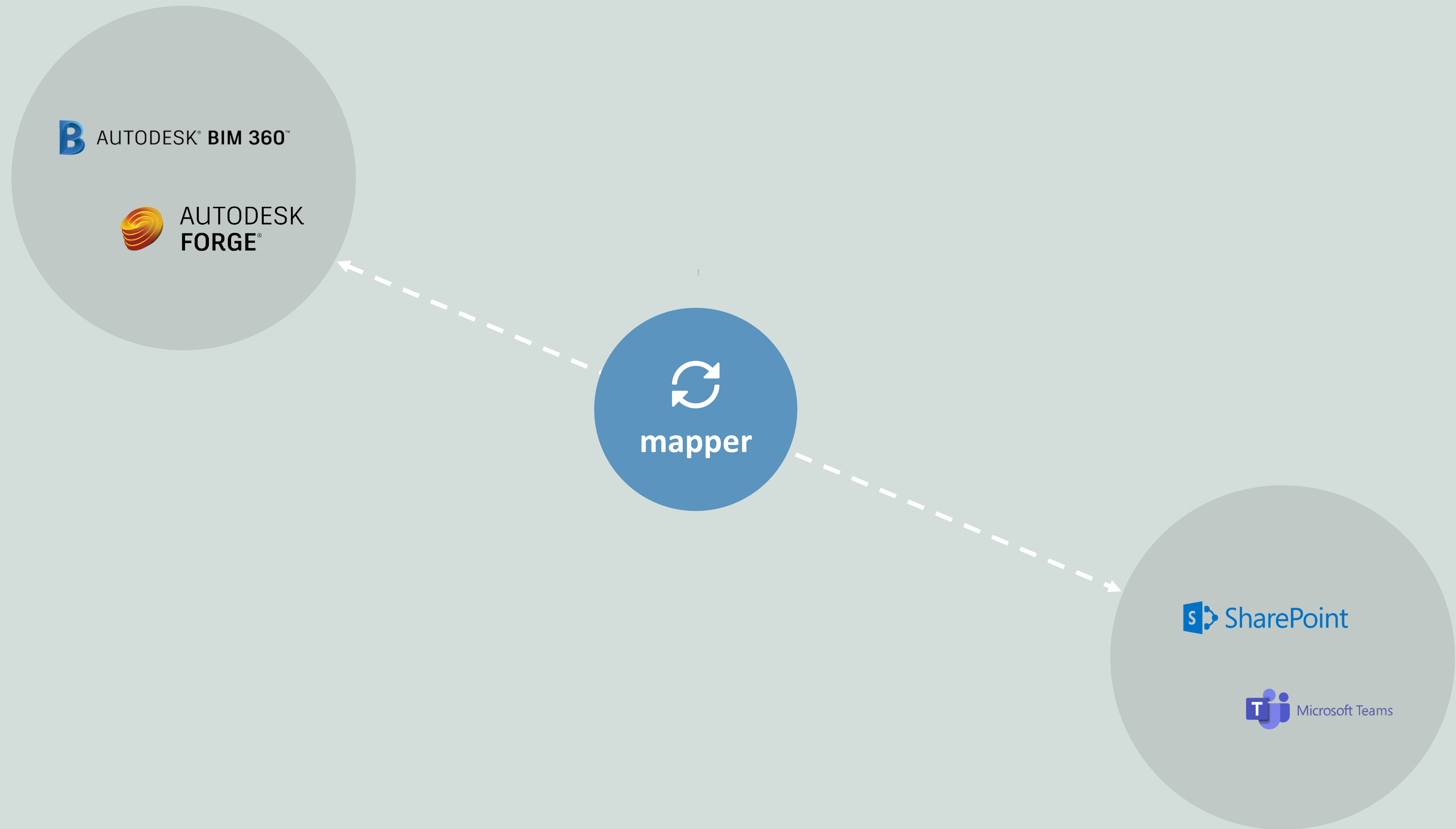
Google Drive

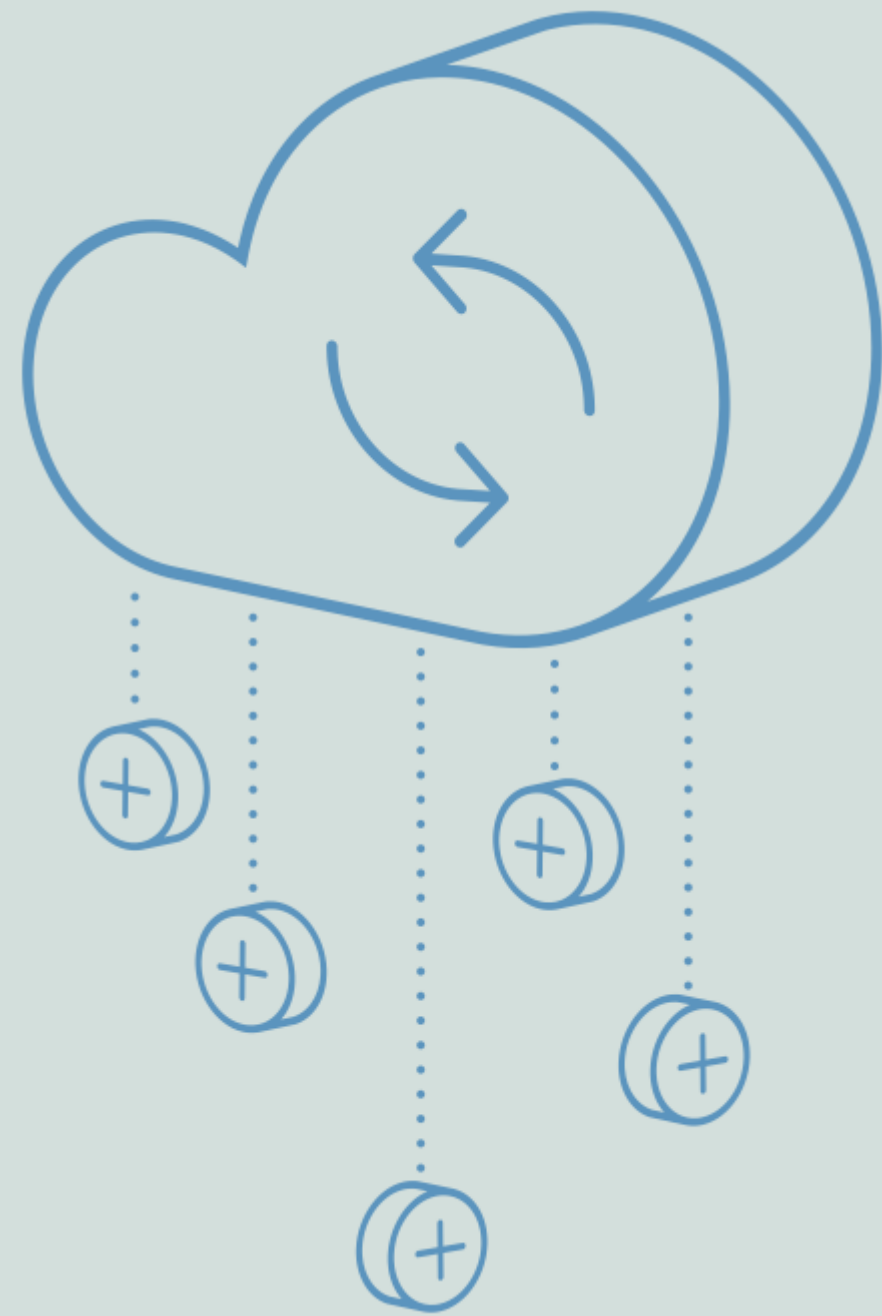
YouTube

12:32 PM

Video mit zwei Personen die Documents nutzen am Surface















Two apps. Different projects. **One updated database.**


mapper synchronizes data between Sharepoint and BIM360 in real time. So everyone is up to date. Always. Automatically.



My Mappings

Delete

+ Create

	Name	Master	Slave	Status	
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<input type="checkbox"/>	Test2_16102020	 Project Files	 Test	<input checked="" type="checkbox"/>	▼
<input type="checkbox"/>	Test02	 Project Files	 Test	<input type="checkbox"/>	▼



mapper

Suche

grimm GmbH

Organisation

1 Gast

Besprechung

Teams

EX Test

Beiträge

Dateien

Wiki

Ihre Teams

Test_Synchtool

Allgemein

Kommunikation

Test

Ausgeblendete Teams

Beginnen wir die Unterhaltung

Sie können Personen @erwähnen, mit denen Sie zusammenarbeiten möchten, oder einige Registerkarten hinzufügen, um Ihren B

Planner

OneNote

Website

Registe..

Neue Unterhaltung

BIM 360 Document Management

docs.b360.autodesk.com/projects/295c1291-7813-4b78-be03-412edd2b1f50/folders/urn:adsk.wipprod:fs.folder:co.j57hjqqsQteMJ_qBWt6Blw/detail

AUTODESK BIM 360 | ioLabs Swiss GmbH - Test environment - Test Project

Document Management

ORDNER

ÜBERPRÜFUNGEN

ÜBERTRAGUNGEN

AUFGABEN

Ansicht nach

Ordner

Sätze

Dateien hochladen

10 Elemente werden angezeigt

Nach Dokumenten suchen

Name	Beschreibung	Version	Größe	Zuletzt aktualisiert	Aktualisiert von
00 Koordination	--	--	--	1. Sep. 2020 06:37	Julius Grimm
01 Grundlagenermittlung	--	--	--	1. Sep. 2020 06:37	Julius Grimm
02 Vorentwurf	--	--	--	1. Sep. 2020 06:37	Julius Grimm
03 Entwurf	--	--	--	1. Sep. 2020 06:37	Julius Grimm
04 Baugesuch	--	--	--	1. Sep. 2020 06:37	Julius Grimm
05 Ausführungsplanung	--	--	--	1. Sep. 2020 06:38	Julius Grimm
06 Bauvertrag	--	--	--	1. Sep. 2020 06:38	Julius Grimm
07 Abrechnung	--	--	--	1. Sep. 2020 06:38	Julius Grimm
08 Fotos	--	--	--	1. Sep. 2020 06:38	Julius Grimm
09 Protokolle	--	--	--	1. Sep. 2020 06:38	Julius Grimm

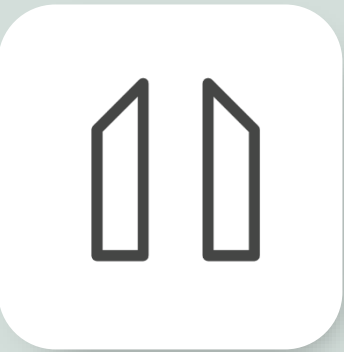
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16.10.2020



Tickets

Support plattform for all stakeholders



Comparison Of Versions

Cost Estimation

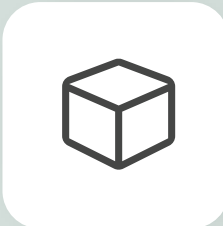
Bill Of Quantities

Documents

Tickets



Referenced



Model-Related



Tendering



Call for Tenders/
Submissions



Assignment



Leistung/Aufmaß

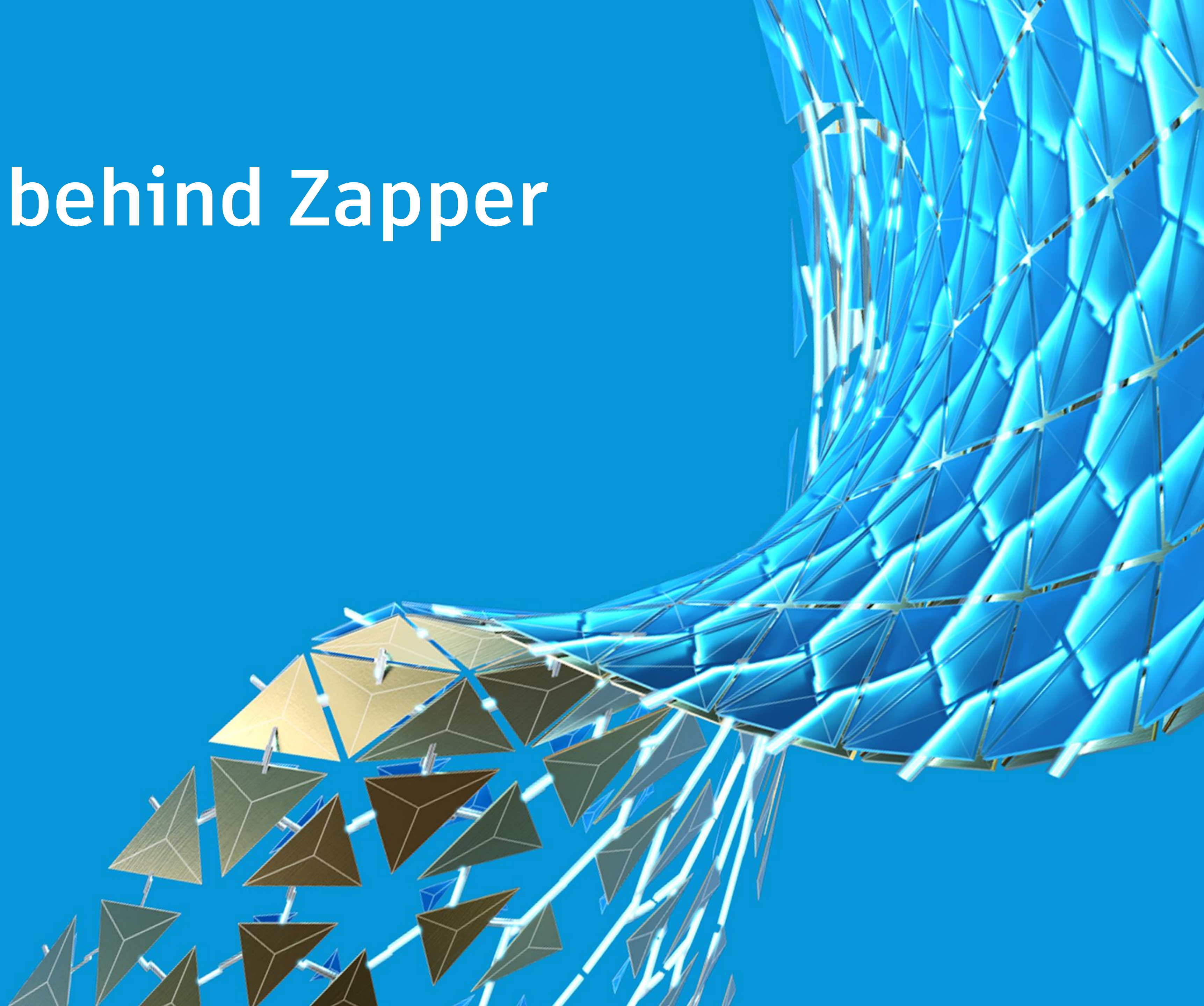


Controlling



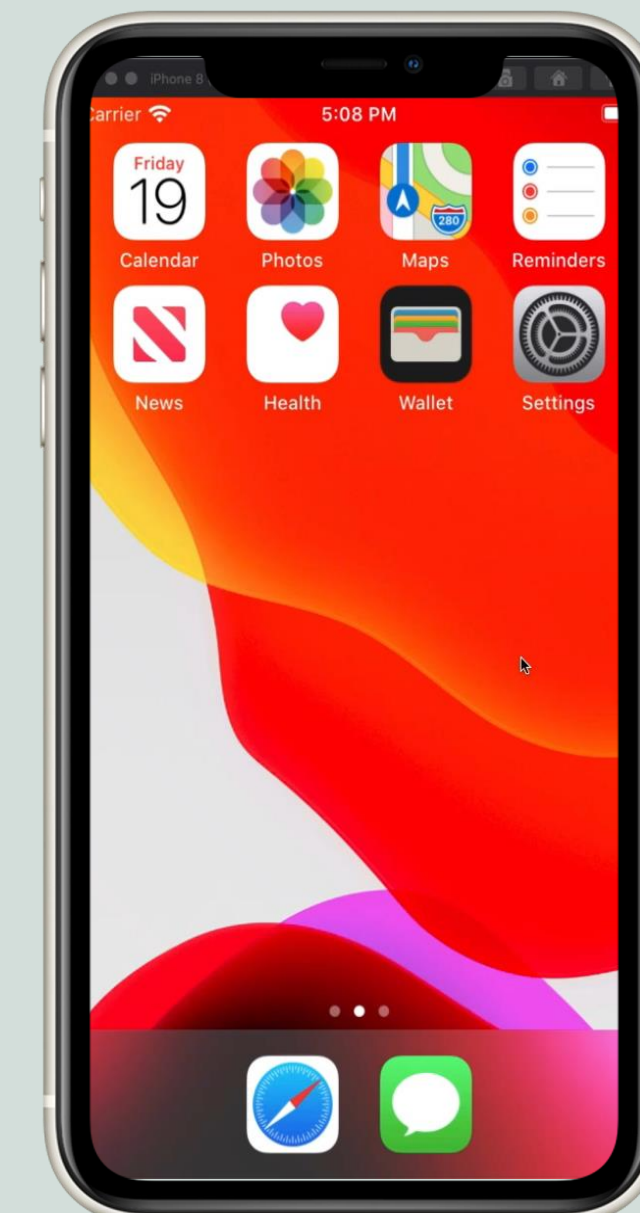
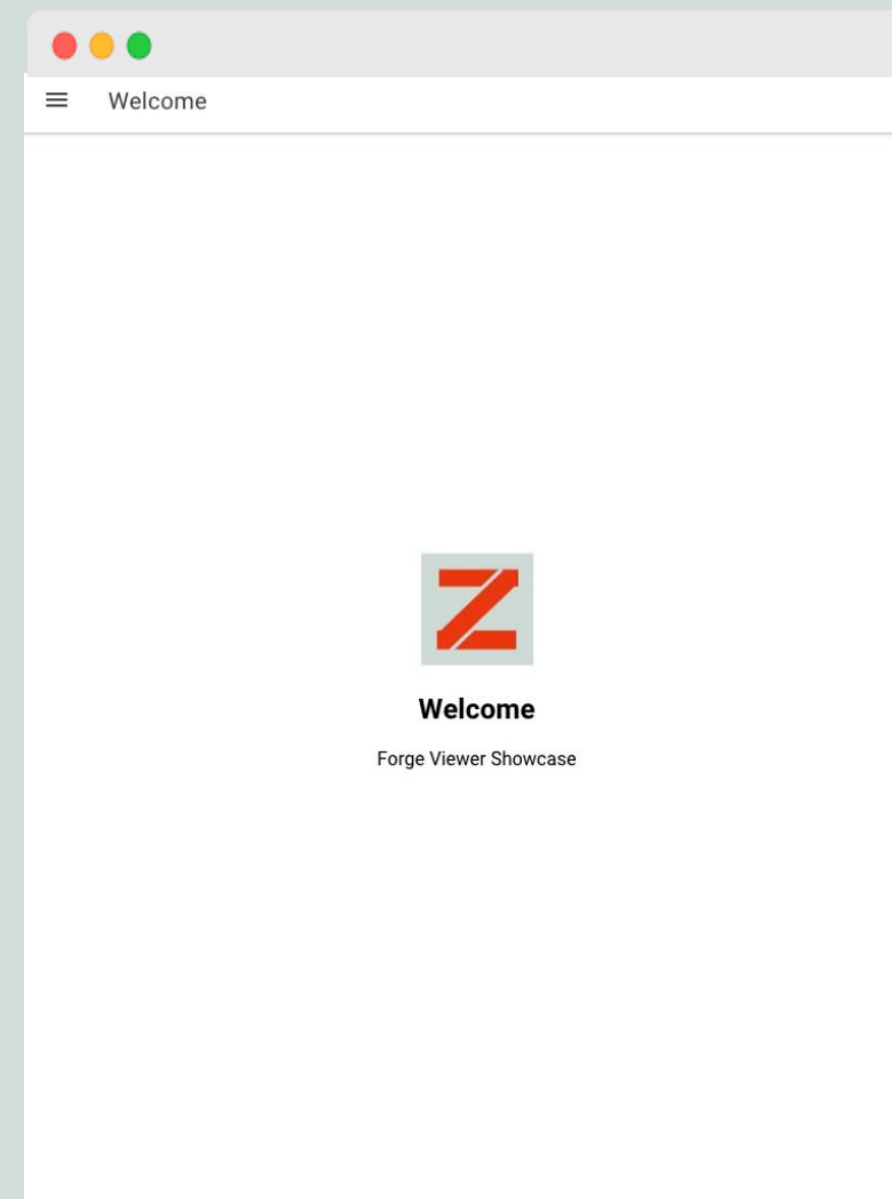
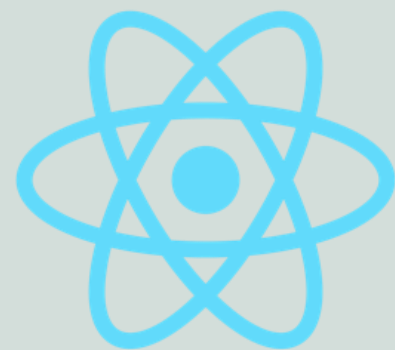
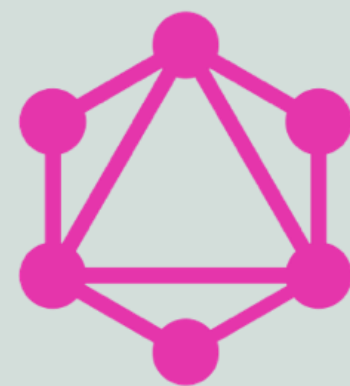
Billing

Technology behind Zapper



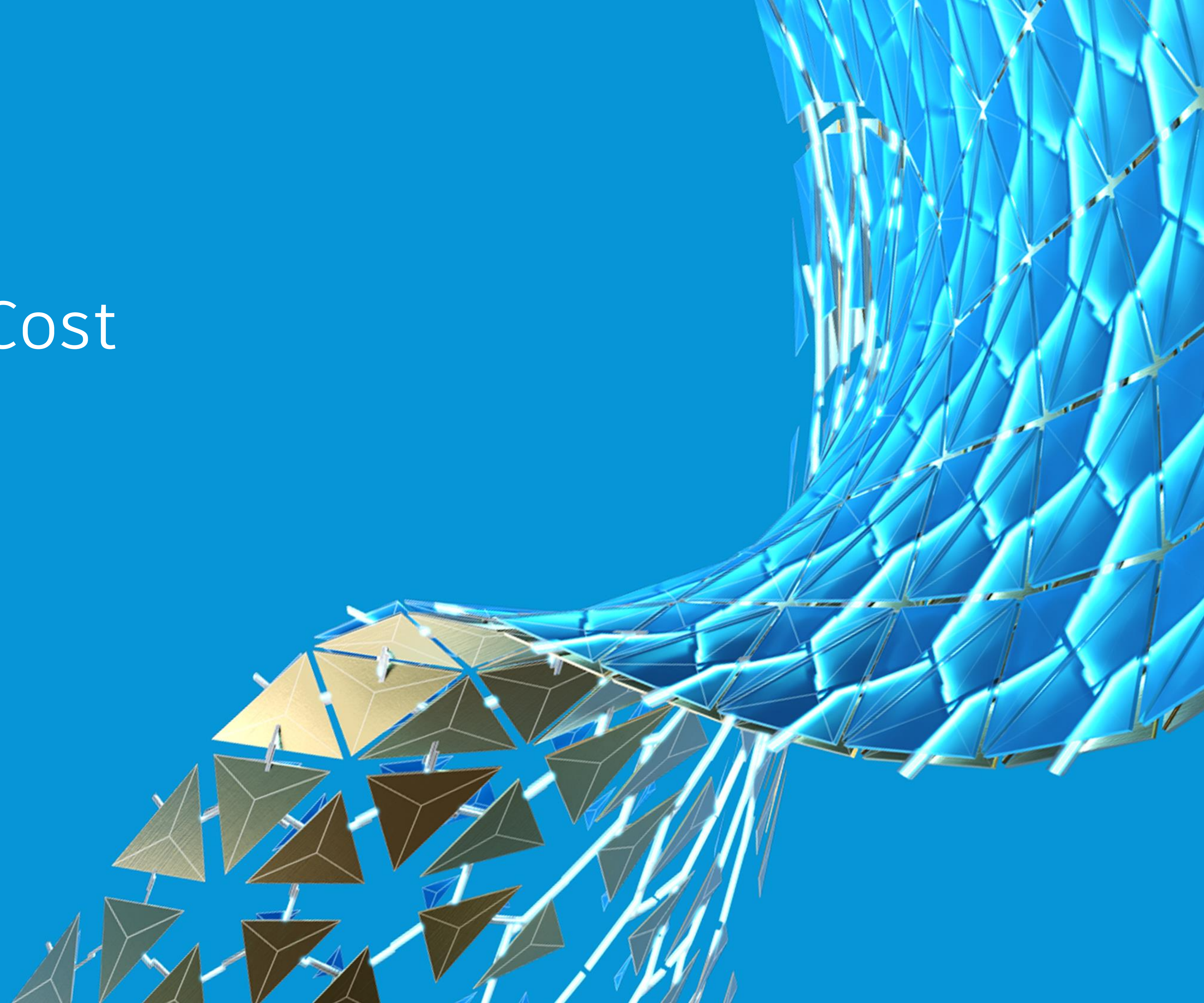
Technology behind zipper

Database	MSSQL
UI	nativ iOS, nativ Windows, Web-based, React, Redux, TypeScript
API	.NET core, Entity Framework, GraphQL
CAD	Autodesk Forge + BIM 360 Docs
ERP	Microsoft Dynamics 365



eBKP-h

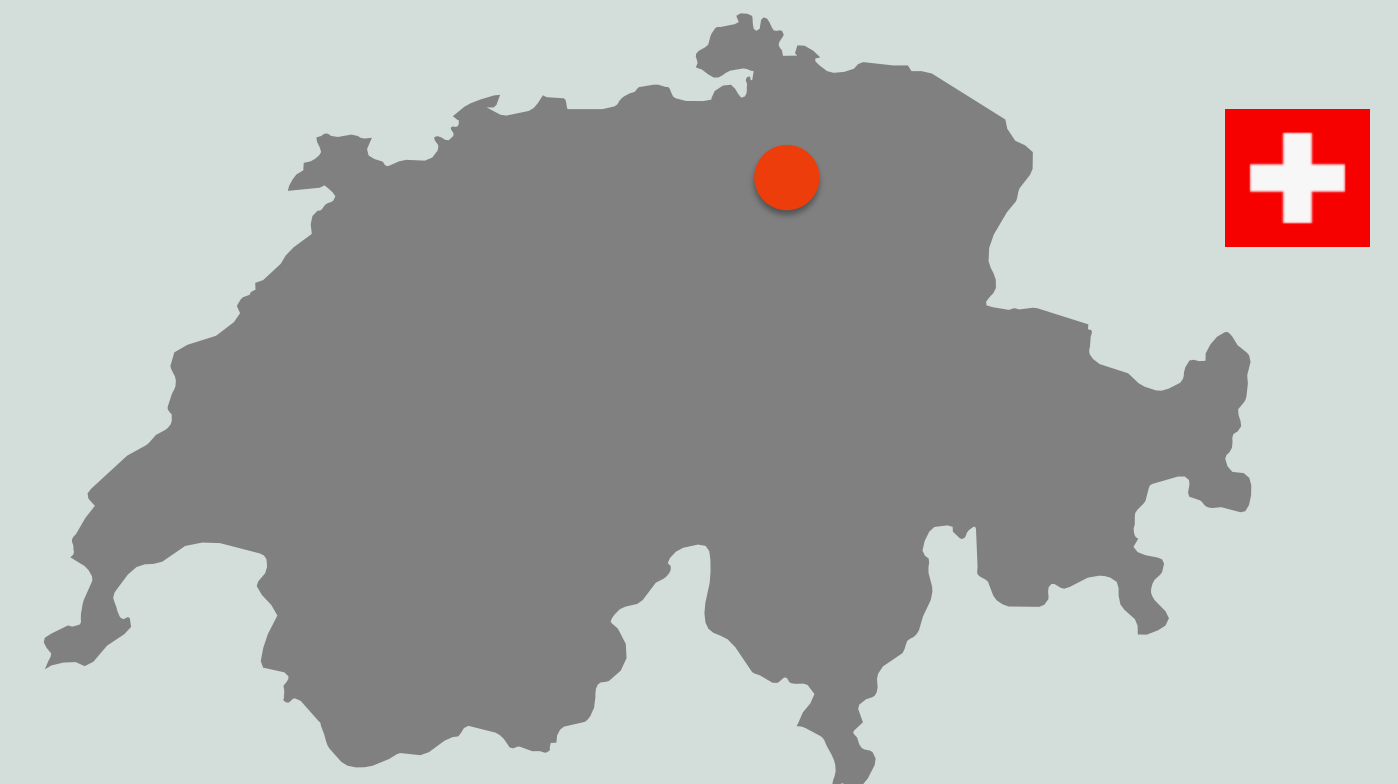
Construction Cost Classification



CRB + eBKP-H Gate



CRB – Standards für Bauwesen
Steinstrasse 21
Postfach, 8036 Zürich
T +41 44 456 45 45
M info@crb.ch



Construction Cost Classification eBKP-H

ANLAGEKOSTEN	ERSTELLUNGSKOSTEN	BAUWERKSKOSTEN	A									
			Grundstück	A1 Grundstück, Baurecht	A2 Nebenkosten zu Grundstück, Baurecht							
			B									
			Vorbereitung	B1 Untersuchung, Aufnahme, Messung	B2 Baustelleneinrichtung	B3 Provisorium	B4 Erschliessung durch Werkleitungen	B5 Rückbau Bauwerk	B6 Baugrube	B7 Baugrundverbesserung, Bauwerks-sicherung	B8 Gerüst	
			C									
			Konstruktion Gebäude	C1 Bodenplatte, Fundament	C2 Wand-konstruktion	C3 Stützen-konstruktion	C4 Decken-konstruktion, Dach-konstruktion	C5 Ergänzende Leistung zu Konstruktion				
			D									
			Technik Gebäude	D1 Elektroanlage	D2 Gebäude-automation	D3 Sicherheits-anlage	D4 Technische Brandschutz-anlage	D5 Wärmeanlage	D6 Kälteanlage	D7 Lufttechnische Anlage	D8 Wasser-, Gas-, Druck-luftanlage	D9 Transport-anlage
			E									
			Äussere Wand-bekleidung Gebäude	E1 Äussere Wand-bekleidung unter Terrain	E2 Äussere Wand-bekleidung über Terrain	E3 Einbaute zu Aussenwand						
			F									
			Bedachung Gebäude	F1 Dachhaut	F2 Einbaute zu Dach							
			G									
			Ausbau Gebäude	G1 Trennwand, Tür, Tor	G2 Bodenbelag	G3 Wand-bekleidung	G4 Decken-bekleidung	G5 Einbaute, Schutz-einrichtung zu Ausbau	G6 Ergänzende Leistung zu Ausbau			
			H									
			Nutzungs-spezifische Anlage Gebäude	H1 Produktions-anlage, Laboranlage	H2 Grossküche	H3 Wäscherei-anlage, Reinigungs-anlage	H4 Spitalanlage	H5 Anlage für Bildung, Kultur	H6 Sportanlage, Freizeitanlage	H7 Weitere nutzungs-spezifische Anlage		
			I									
			Umgebung Gebäude	I1 Umgebungs-gestaltung	I2 Umgebungs-bauwerk	I3 Grünfläche	I4 Hartfläche	I5 Schutz-einrichtung Umgebung	I6 Technik Umgebung	I7 Ausstattung Umgebung		
			J									
			Ausstattung Gebäude	J1 Mobiliar	J2 Kleininventar	J3 Textilien	J4 Kunst am Bau					
V												
Planungs-kosten	V1 Planer	V2 Unternehmer	V3 Auftraggeber									
W												
Nebenkosten zu Erstellung	W1 Bewilligung, Gebühr	W2 Versicherung, Garantie	W3 Kapitalkosten	W4 Bewirtung, Öffentlichkeits-arbeit, Entschädigung	W5 Inbetriebnahme	W6 Vermietung, Verkauf	W7 Betriebserfolg					
Y												
Reserve, Teuerung	Y1 Reserve	Y2 Teuerung										
Z												
Mehrwert-steuer	Z1 Mehrwert-steuer											

Cost calculation for building construction eBKP-H Swiss Standard

Main group
C Building structure

Strategical Planning
Estimate of financial requirements

Element group
C 2 Structural wall

Pre-studies
Rough cost estimate

Element
C 2.1 External wall

Pre-project
Estimate of costs

eBKP-Gate BIM CRB Standard

Subelement
C 2.1.001 Concrete wall

Construction project
Quantity Take-off
Cost calculation
Model-Based tendering
Model-Based offering

Component
C 2.1.001.007 Concrete wall; thickness; 0,25; m

Construction Cost Classification eBKP-H

ANLAGEKOSTEN	ERSTELLUNGSKOSTEN	BAUWERKSKOSTEN	A	Grundstück																
			A1	Grundstück, Baurecht	A2	Nebenkosten zu Grundstück, Baurecht														
			B	Vorbereitung																
			B1	Untersuchung, Aufnahme, Messung	B2	Baustellen-einrichtung	B3	Provisorium	B4	Erschliessung durch Werkleitungen	B5	Rückbau Bauwerk	B6	Baugrube	B7	Baugrund-verbesserung, Bauwerks-sicherung	B8	Gerüst		
			C	Konstruktion Gebäude																
			C1	Bodenplatte, Fundament	C2	Wand-konstruktion	C3	Stützen-konstruktion	C4	Decken-konstruktion, Dach-konstruktion	C5	Ergänzende Leistung zu Konstruktion								
			D	Technik Gebäude																
			D1	Elektroanlage	D2	Gebäude-automation	D3	Sicherheits-anlage	D4	Technische Brandschutz-anlage	D5	Wärmeanlage	D6	Kälteanlage	D7	Lufttechnische Anlage	D8	Wasser-, Gas-, Druck-luftanlage	D9	Transport-anlage
			E	Äussere Wand-bekleidung Gebäude																
			E1	Äussere Wand-bekleidung unter Terrain	E2	Äussere Wand-bekleidung über Terrain	E3	Einbaute zu Aussenwand												
			F	Bedachung Gebäude																
			F1	Dachhaut	F2	Einbaute zu Dach														
			G	Ausbau Gebäude																
			G1	Trennwand, Tür, Tor	G2	Bodenbelag	G3	Wand-bekleidung	G4	Decken-bekleidung	G5	Einbaute, Schutz-einrichtung zu Ausbau	G6	Ergänzende Leistung zu Ausbau						
			H	Nutzungs-spezifische Anlage Gebäude																
			H1	Produktions-anlage, Laboranlage	H2	Grossküche	H3	Wäscherei-anlage, Reinigungs-anlage	H4	Spitalanlage	H5	Anlage für Bildung, Kultur	H6	Sportanlage, Freizeitanlage	H7	Weitere nutzungs-spezifische Anlage				
			I	Umgebung Gebäude																
			I1	Umgebungs-gestaltung	I2	Umgebungs-bauwerk	I3	Grünfläche	I4	Hartfläche	I5	Schutz-einrichtung Umgebung	I6	Technik Umgebung	I7	Ausstattung Umgebung				
			J	Ausstattung Gebäude																
			J1	Möbilar	J2	Kleininventar	J3	Textilien	J4	Kunst am Bau										
			V	Planungs-kosten																
V1	Planer	V2	Unternehmer	V3	Auftraggeber															
W	Nebenkosten zu Erstellung																			
W1	Bewilligung, Gebühr	W2	Versicherung, Garantie	W3	Kapitalkosten	W4	Bewirtung, Öffentlichkeits-arbeit, Entschädigung	W5	Inbetriebnahme	W6	Vermietung, Verkauf	W7	Betriebserfolg							
Y	Reserve, Teuerung																			
Y1	Reserve	Y2	Teuerung																	
Z	Mehrwert-steuer																			
Z1	Mehrwert-steuer																			

Cost calculation for building construction eBKP-H Swiss Standard

Main group
C Building structure

Element group
C 2 Structural wall

Element
C 2.1 External wall

Strategical Planning
Estimate of financial requirements

Pre-studies
Rough cost estimate

Pre-project
Estimate of costs

eBKP-Gate BIM CRB Standard

Subelement
C 2.1.001 Concrete wall

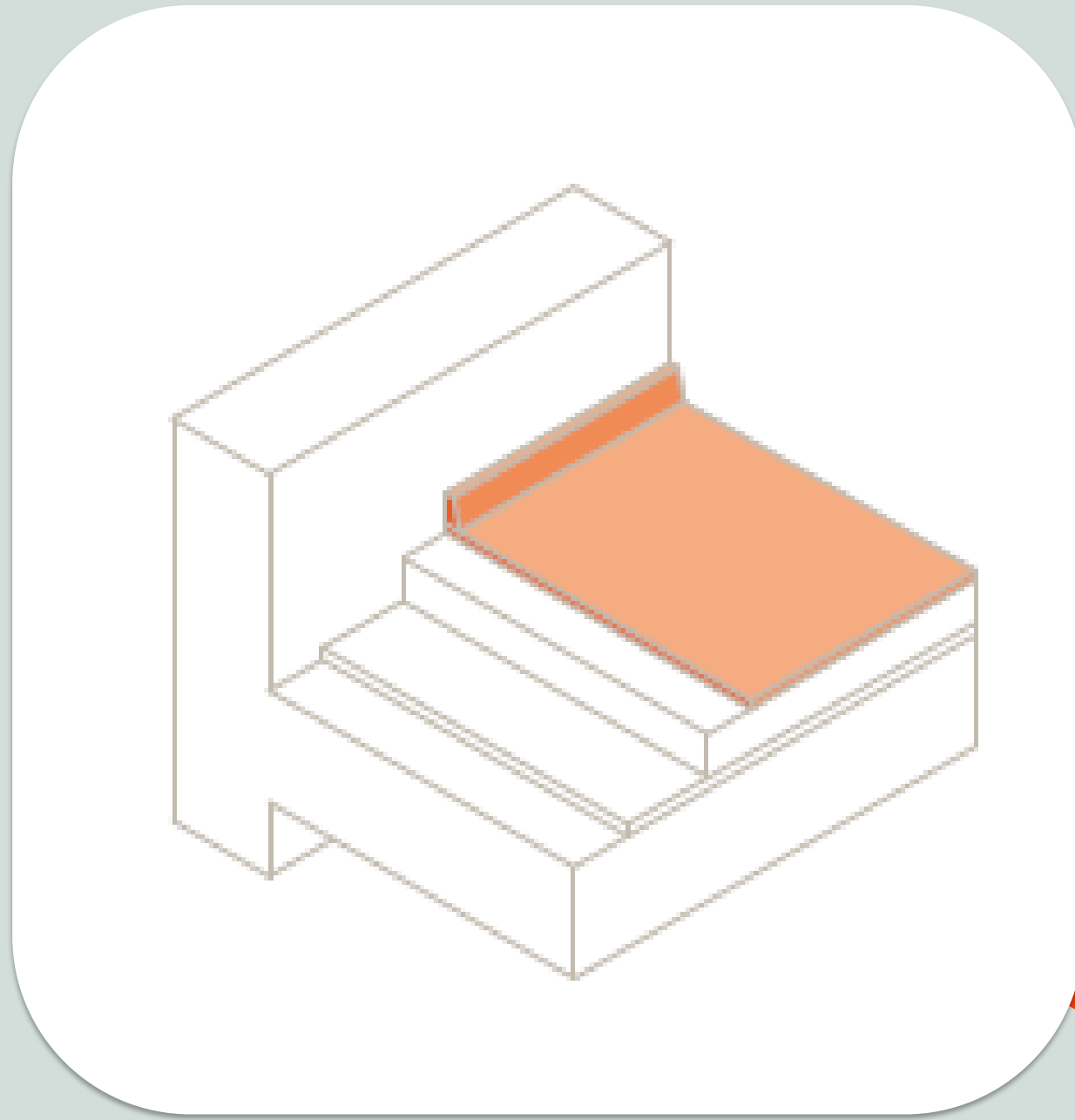
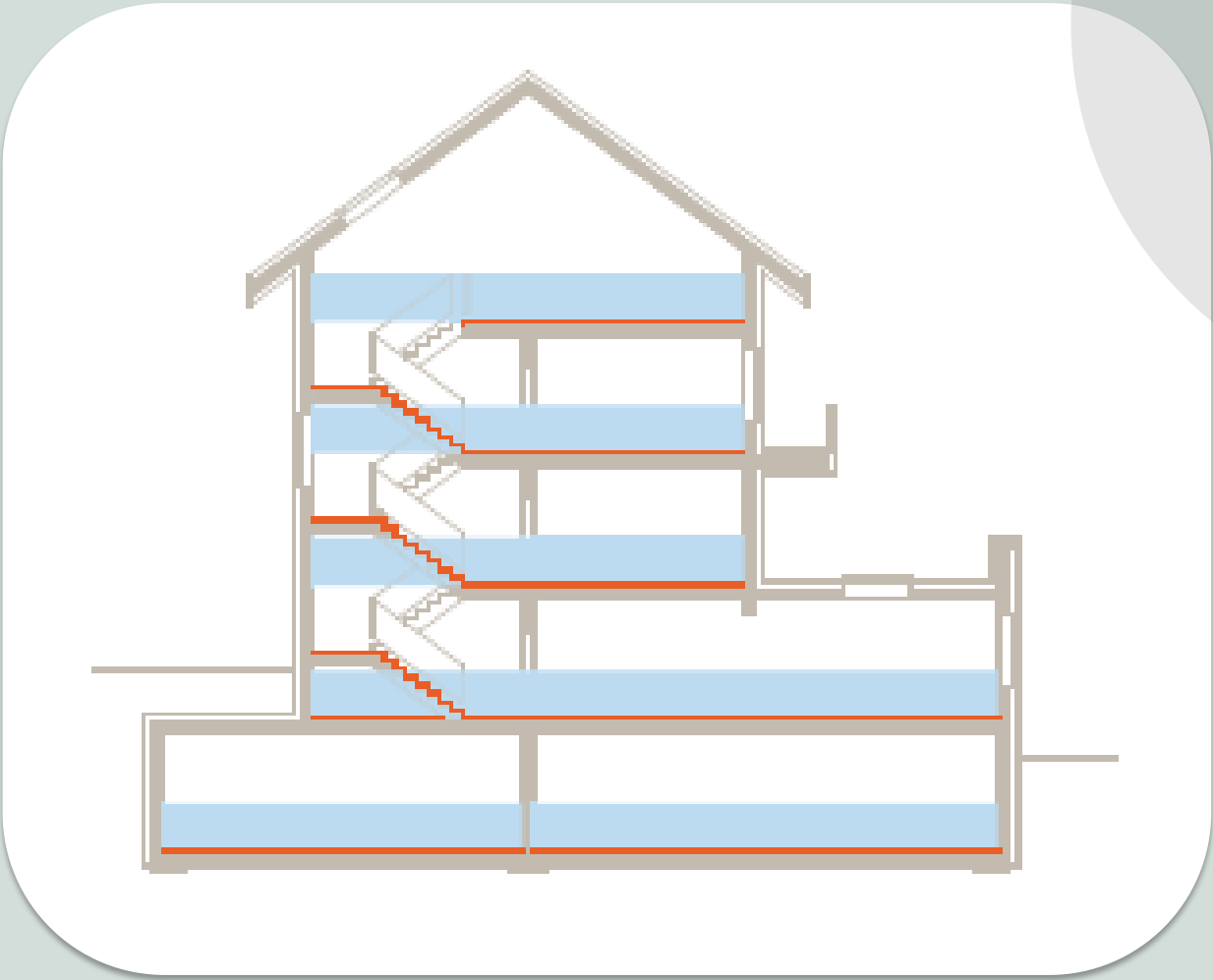
Component
C 2.1.001.007 Concrete wall; thickness; 0,25; m

Construction project
Quantity Take-off
Cost calculation
Model-Based tendering
Model-Based offering

eBKP in CAD

G 2.2 Floor finish

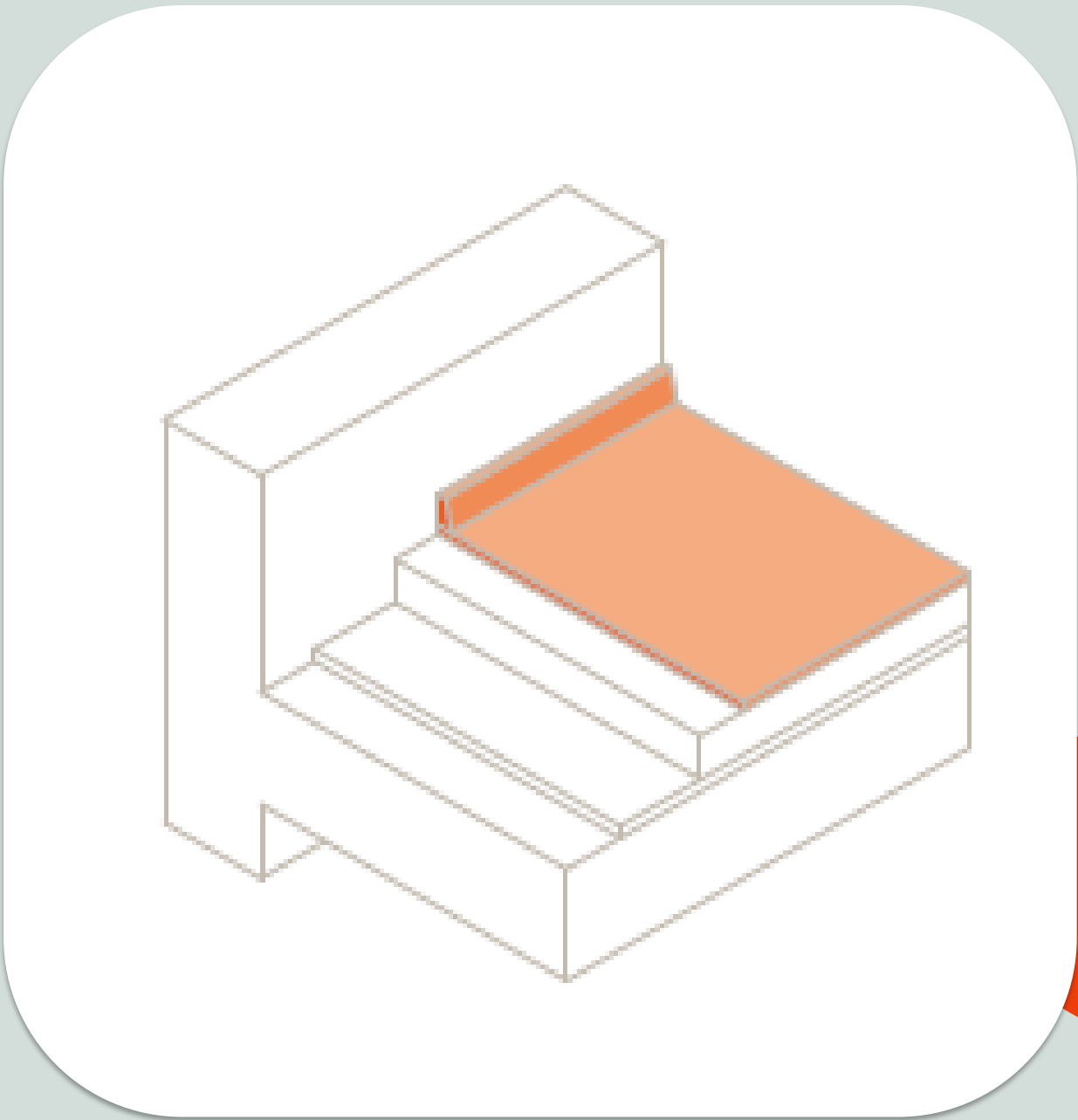
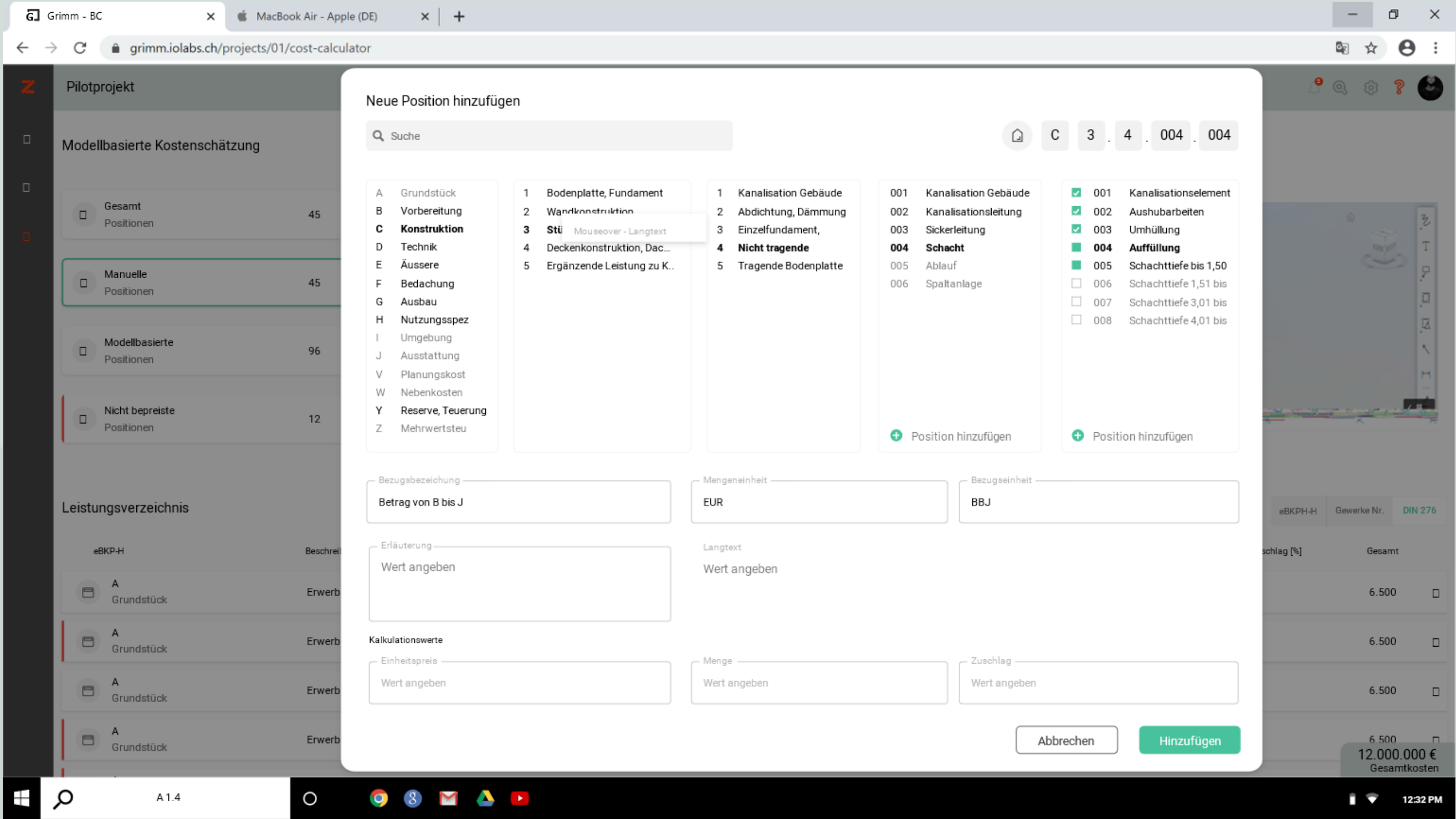
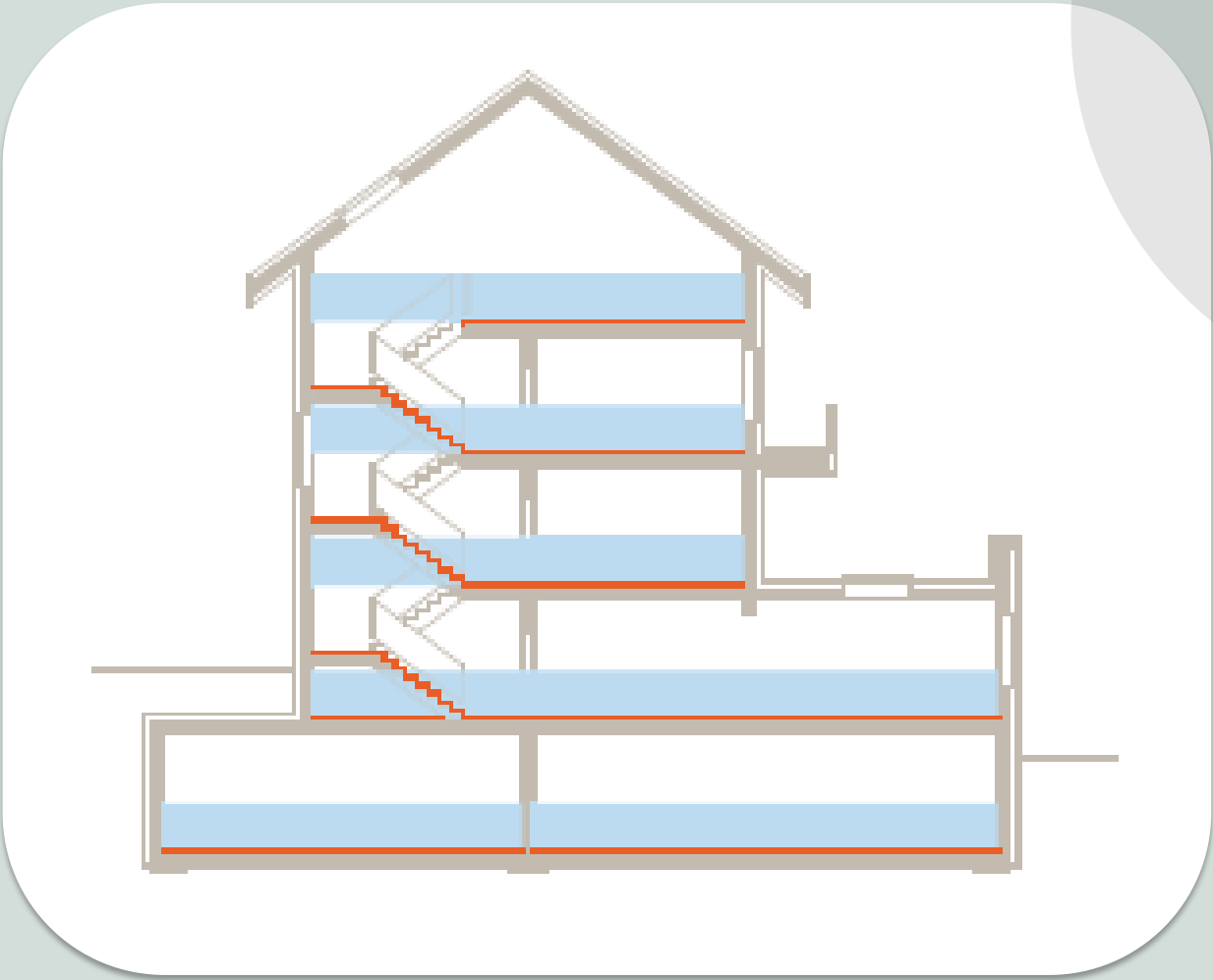
ifcEntity	ifcSpace
PredefinedType	INTERNAL
Qto_Set	Qto_SpaceBaseQuantities
Property	NetFloorArea
ifcEntity	ifc Covering
PredefinedType	FLOORING
MaterialLayer.Category	FINISH



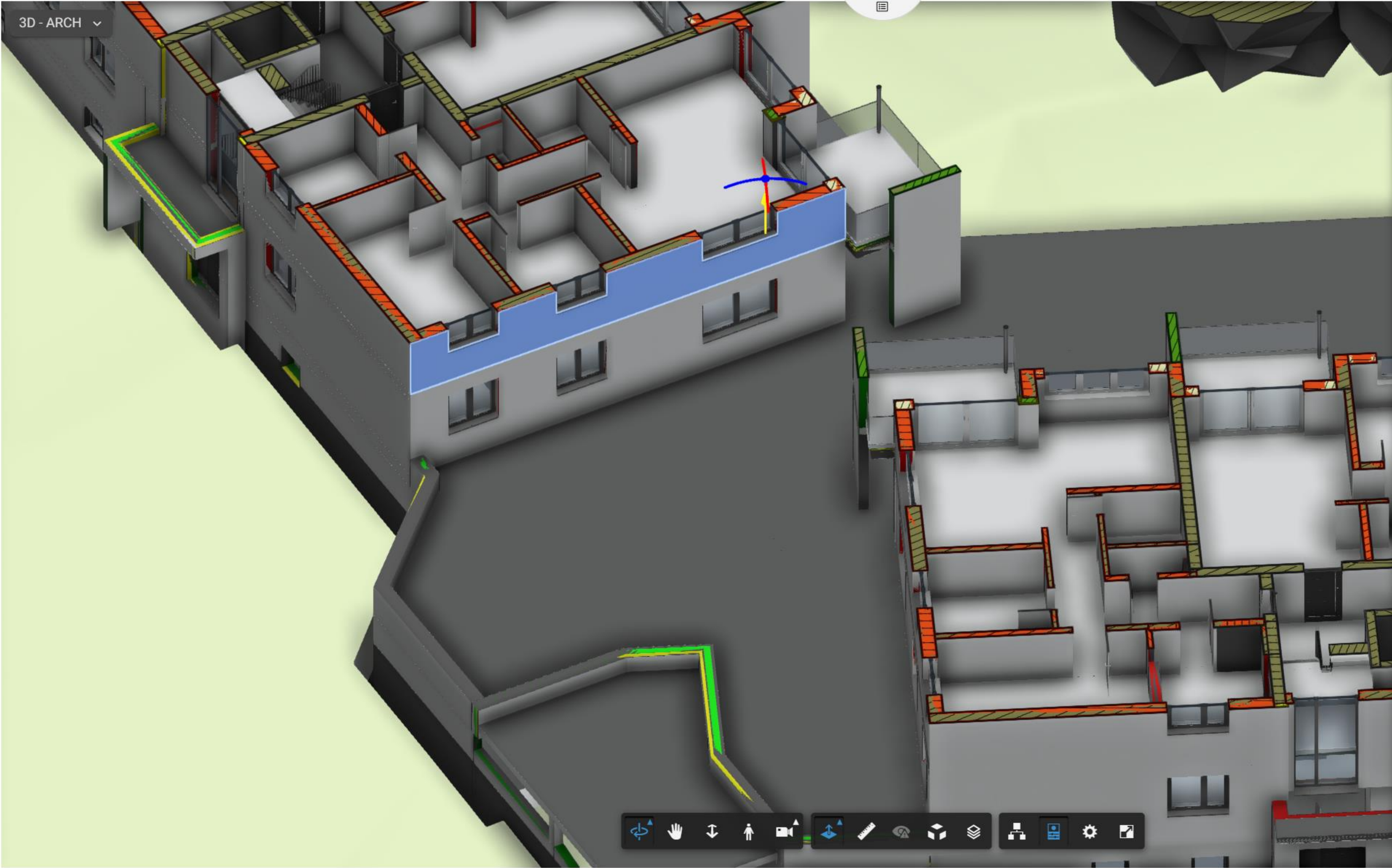
eBKP in CAD

G 2.2 Floor finish

ifcEntity	ifcSpace
PredefinedType	INTERNAL
Qto_Set	Qto_SpaceBaseQuantities
Property	NetFloorArea
ifcEntity	ifc Covering
PredefinedType	FLOORING
MaterialLayer.Category	FINISH



3D - ARCH ▾



Teilelement [4908720] ✕

FM_CLT_Unit Number

CNC Part Position

▼ Abmessungen

Volumen	0.03 m ³
Fläche	27.42 m ²
Länge	13.030 m
Höhe	2.645 m
Dicke	0.001 m

Ausgeschlossen	No
Form geändert	No

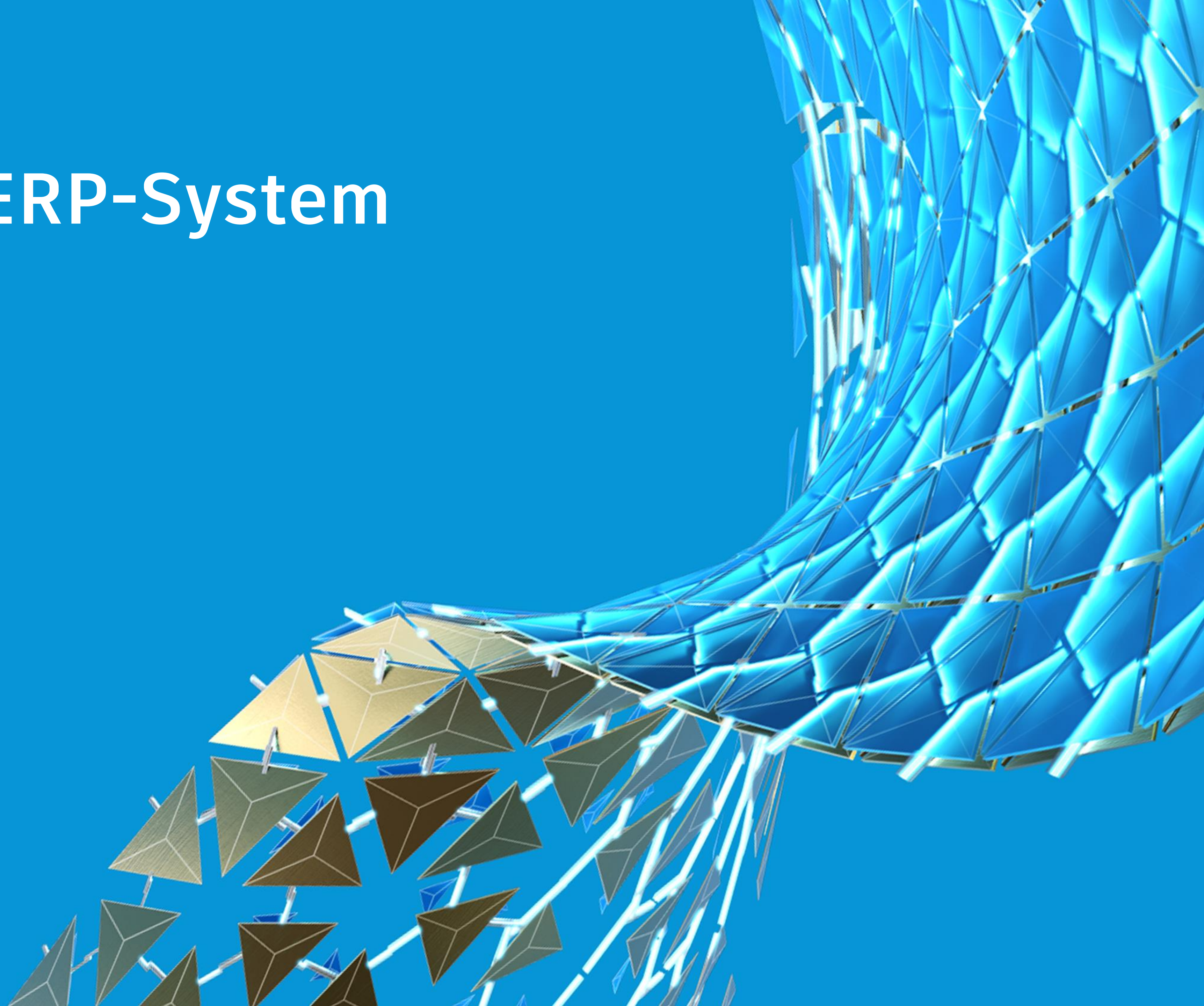
▼ ID-Daten

Bild	
Kommentare	
Kennzeichen	
Formgriffe anzeigen	No
Originalkategorie	Wände
Originalfamilie	Basiswand
Originaltyp	MW-Außenmauerwerk, d=36.5 cm, AP+KP
Material nach Origin...	Yes
Material	E 2.1.001.110 - Silikatische Fassadenfarbe Preisgruppe 1
Konstruktion	Nichttragende Schicht

▼ Phasen

Phase erstellt	Phase Neu
Phase abgebrochen	Keine

Interface to ERP-System



Microsoft Cloud

Marketing
Sales
Commerce
Service
Operations
Finance
Talent

 Microsoft Dynamics 365

 Microsoft Azure

 Microsoft 365

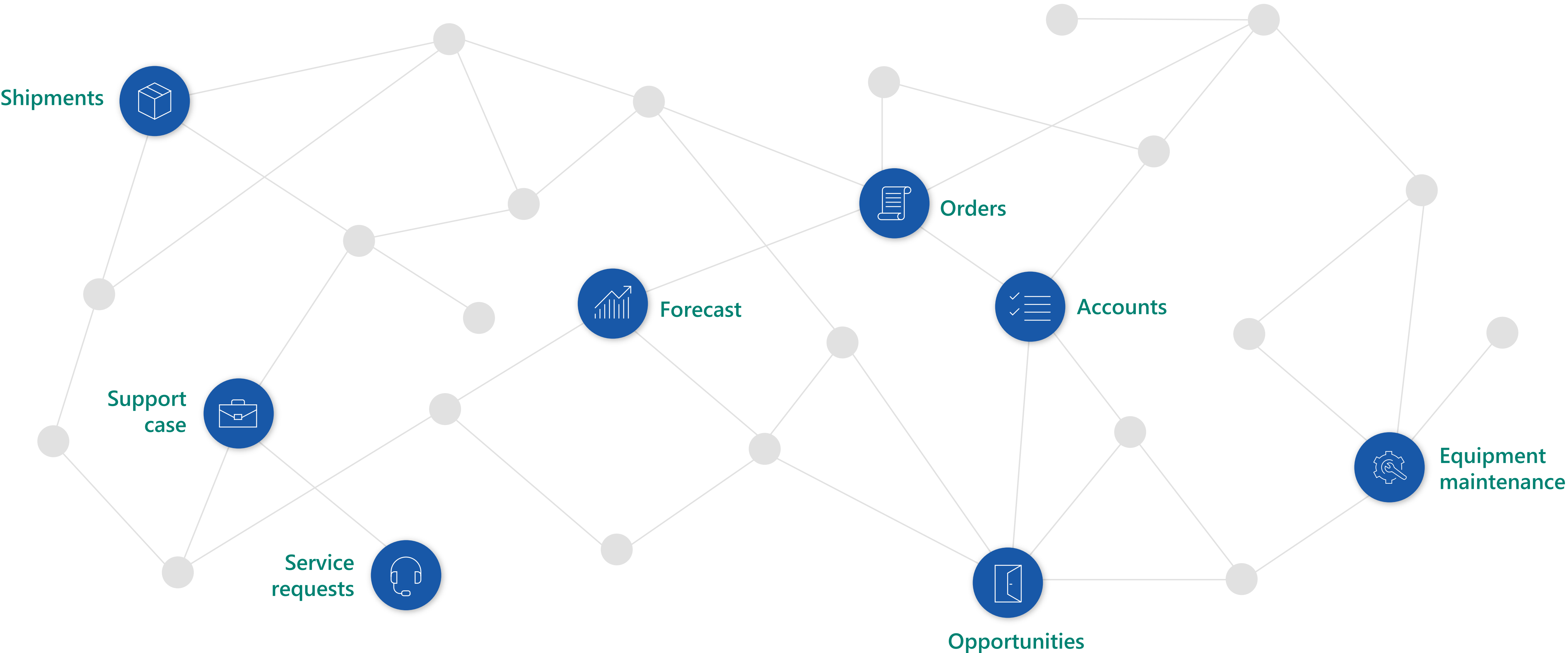
AI + Machine Learning
IoT
Analytics
Developer tools
Databases
Virtual server
Compute
Cognitive Services

Windows 10
Office 365

UNIFIED PROCESSES AND DATA



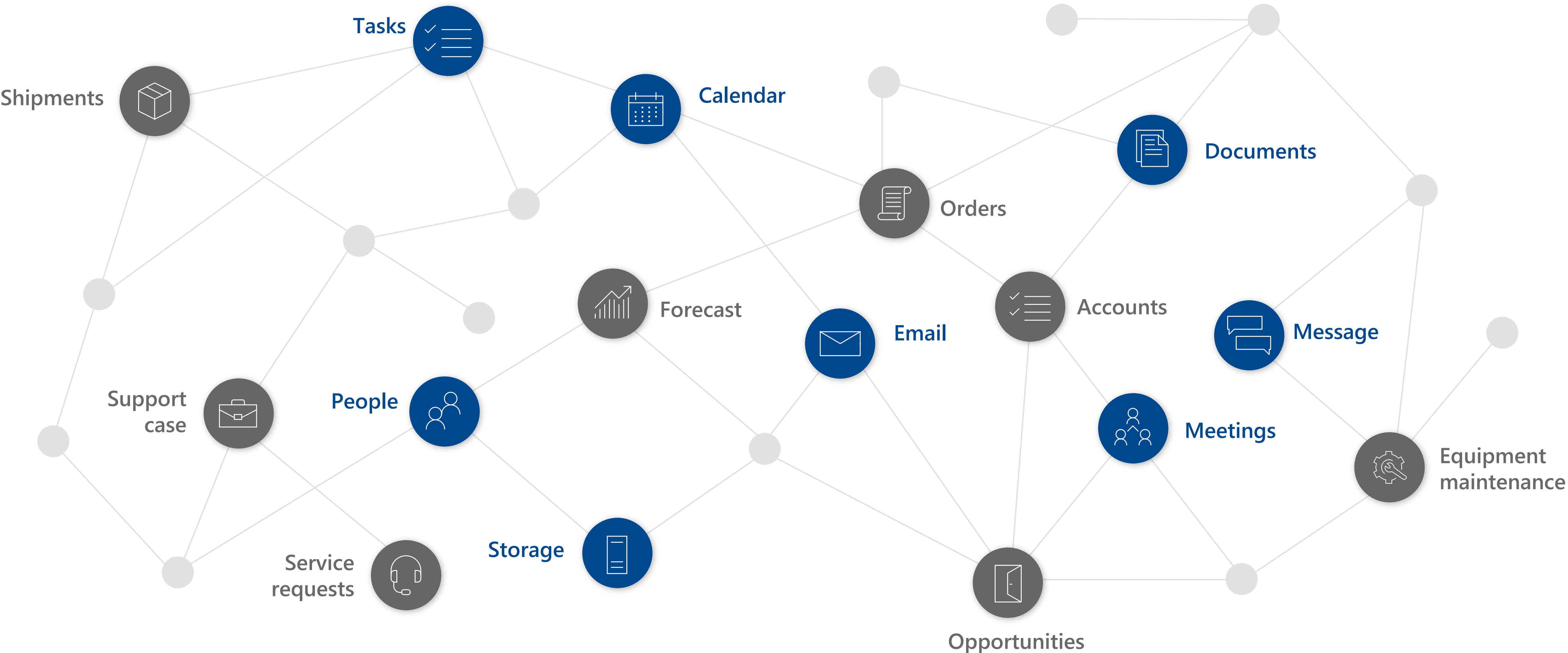
Dynamics 365



UNIFIED PROCESSES AND DATA



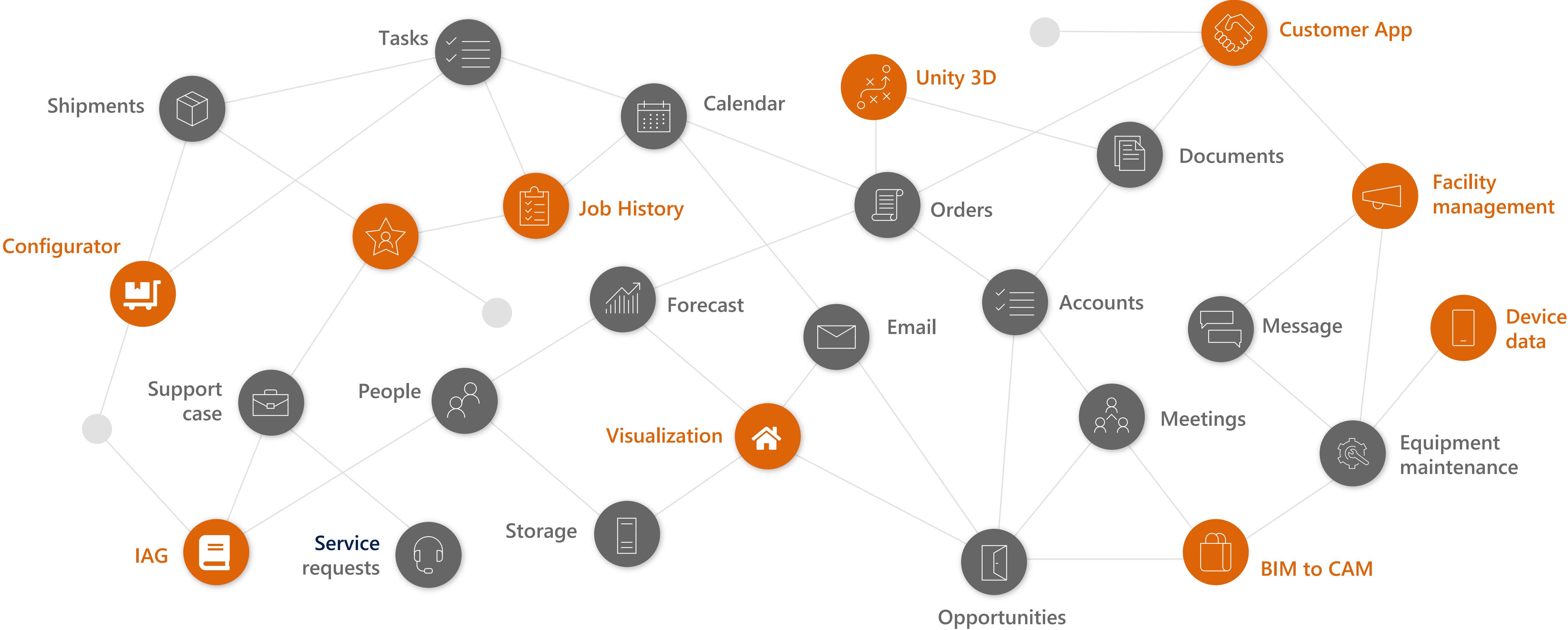
Dynamics 365 + Office 365

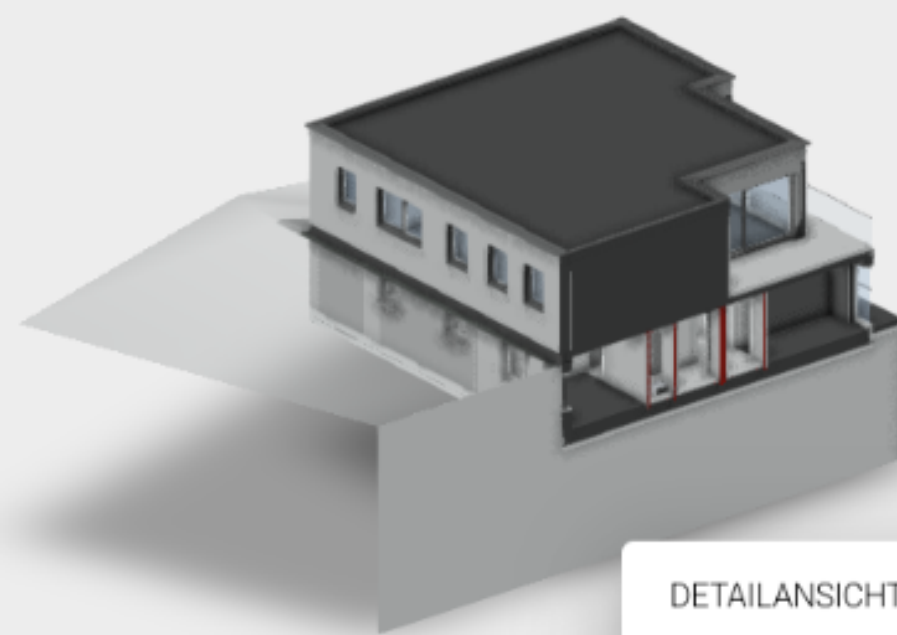


UNIFIED PROCESSES AND DATA

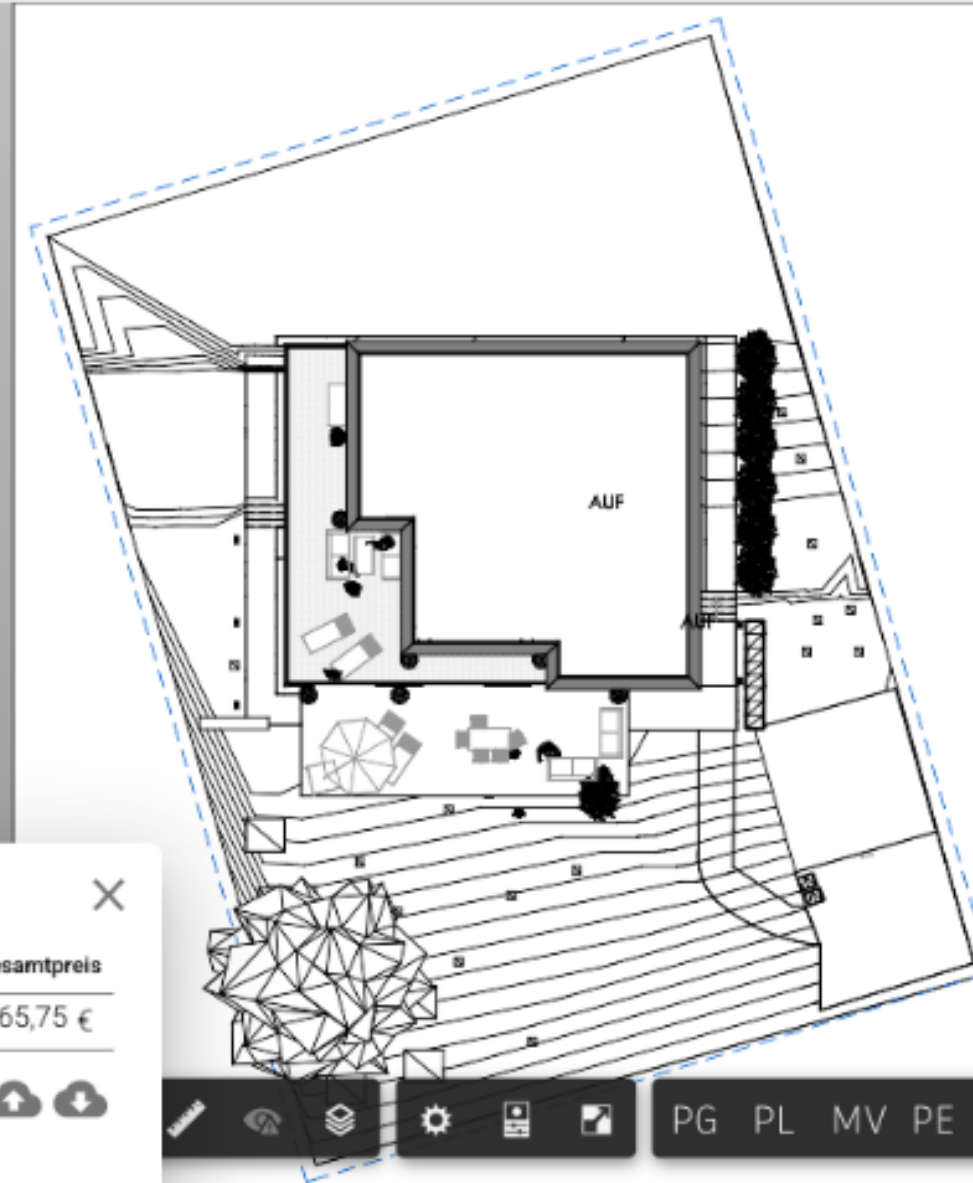


Dynamics 365 + Office 365 + Zapper





EP-3.00 - Lageplan 



Bezugseinheit
1 m3

	Preis	GewerkNr	Preis	Zuschlag	Gesamtpreis	
-	/		0 €	1 €	1 €	>
-	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		452.82 €	1 €	453.82 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		36.69 €	1 €	37.69 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		179.64 €	1 €	180.64 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	>
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	>
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<
1 €	/		0 €	1 €	1 €	<

Current

Data

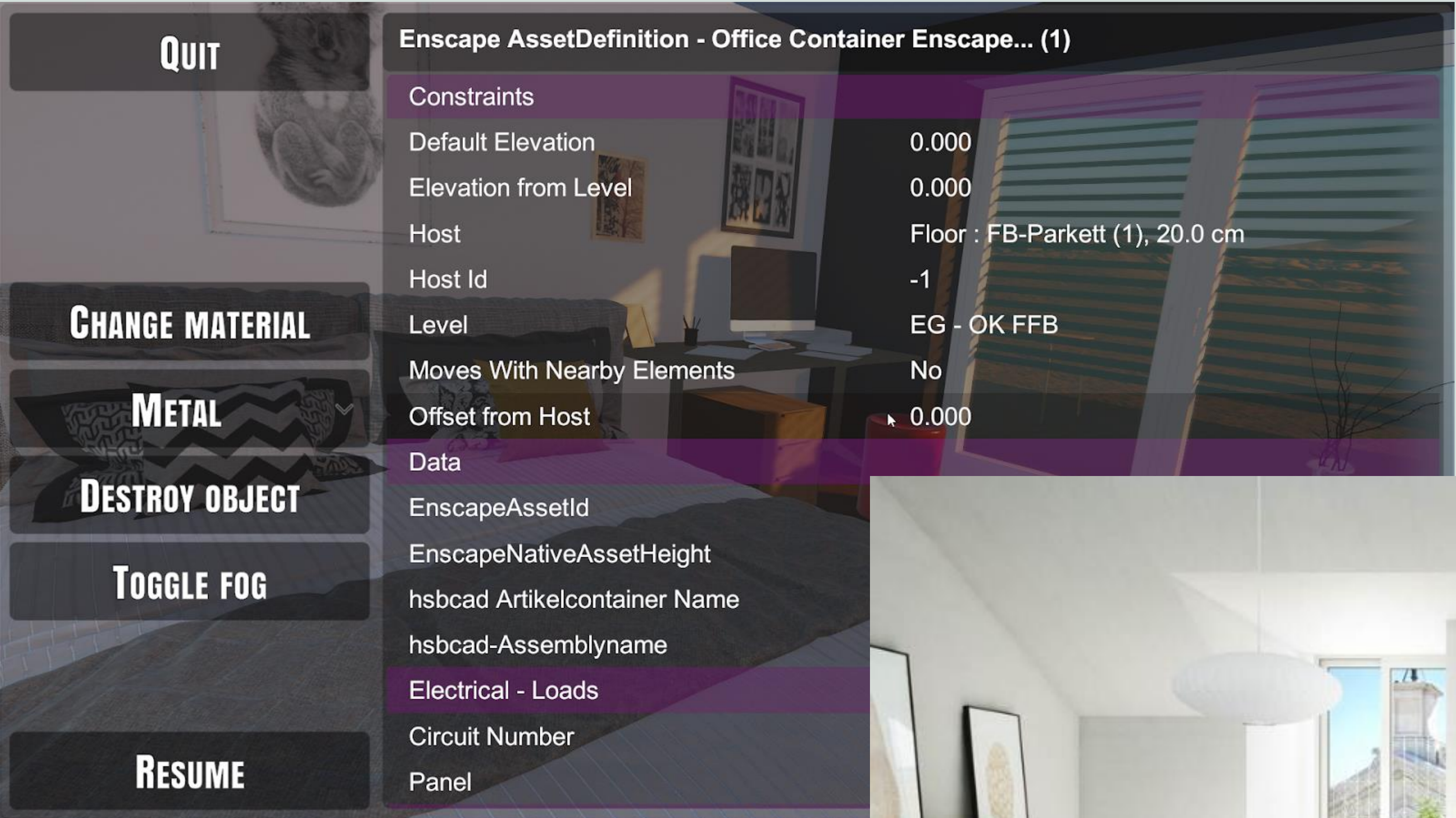
One Click

Experience

Intuitive

Interface





Unity - Revit

Zapper merges visual quality of Unity game engine with high CAD performance of Revit

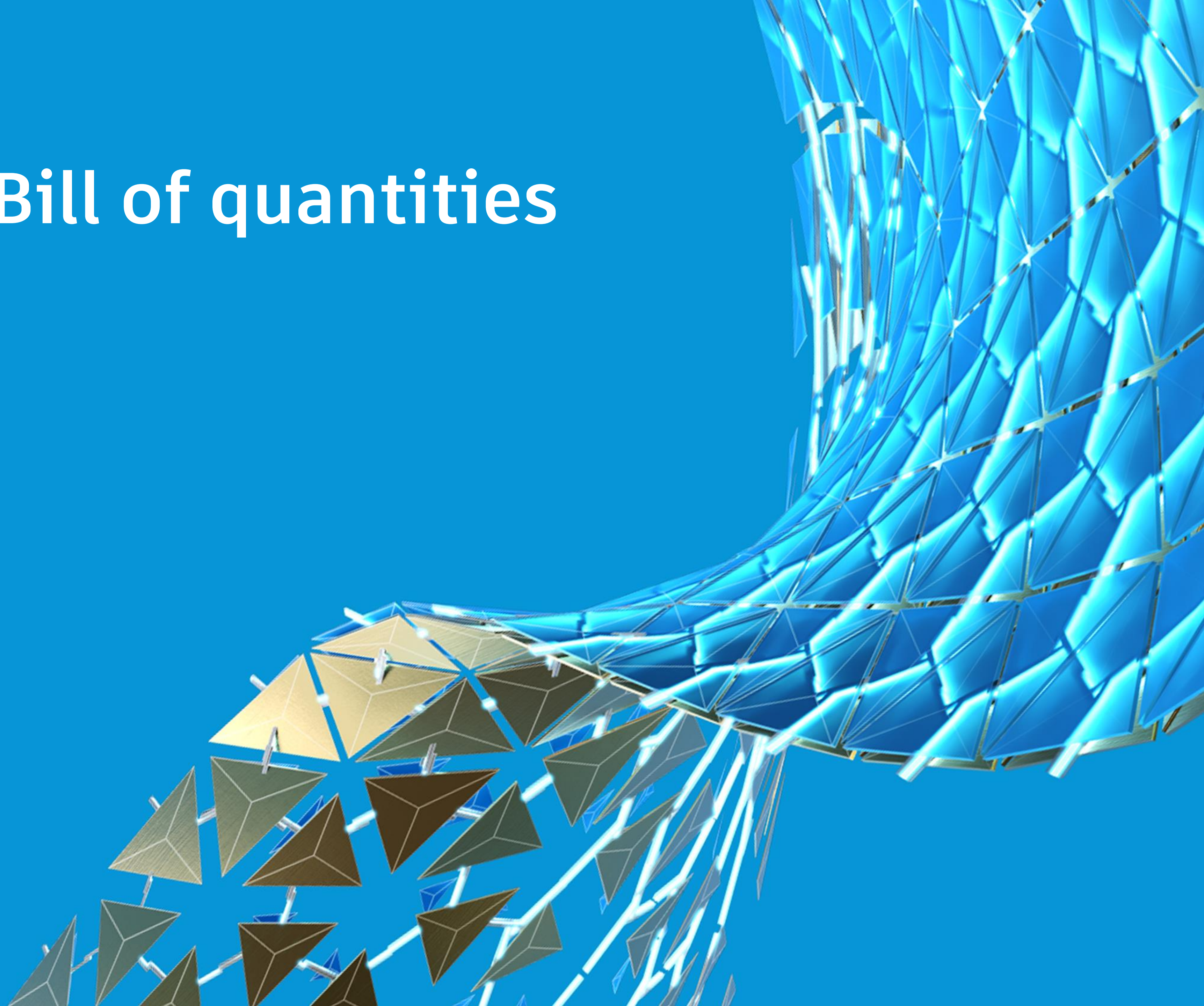




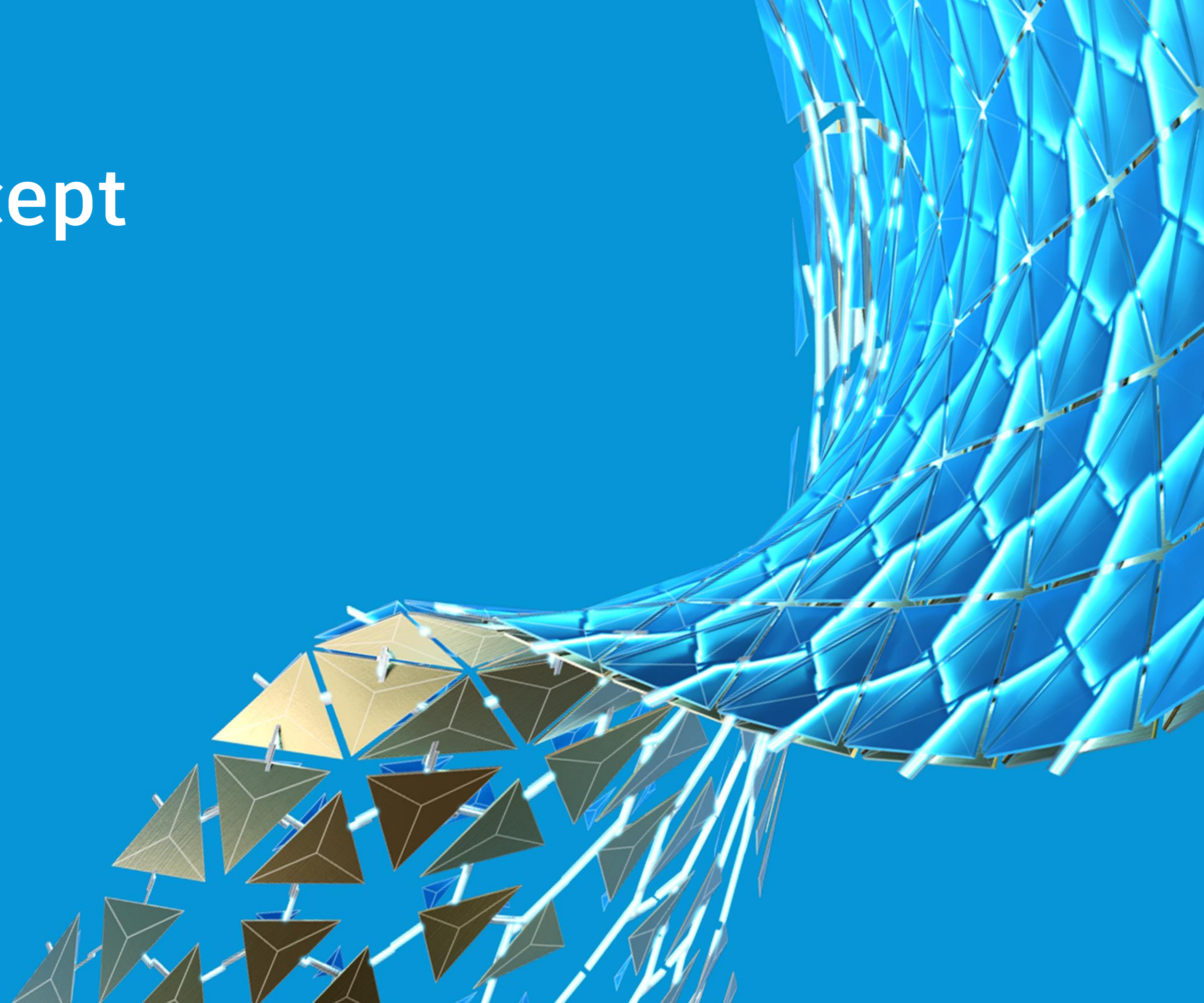
Customer Experience



Live Demo – Bill of quantities

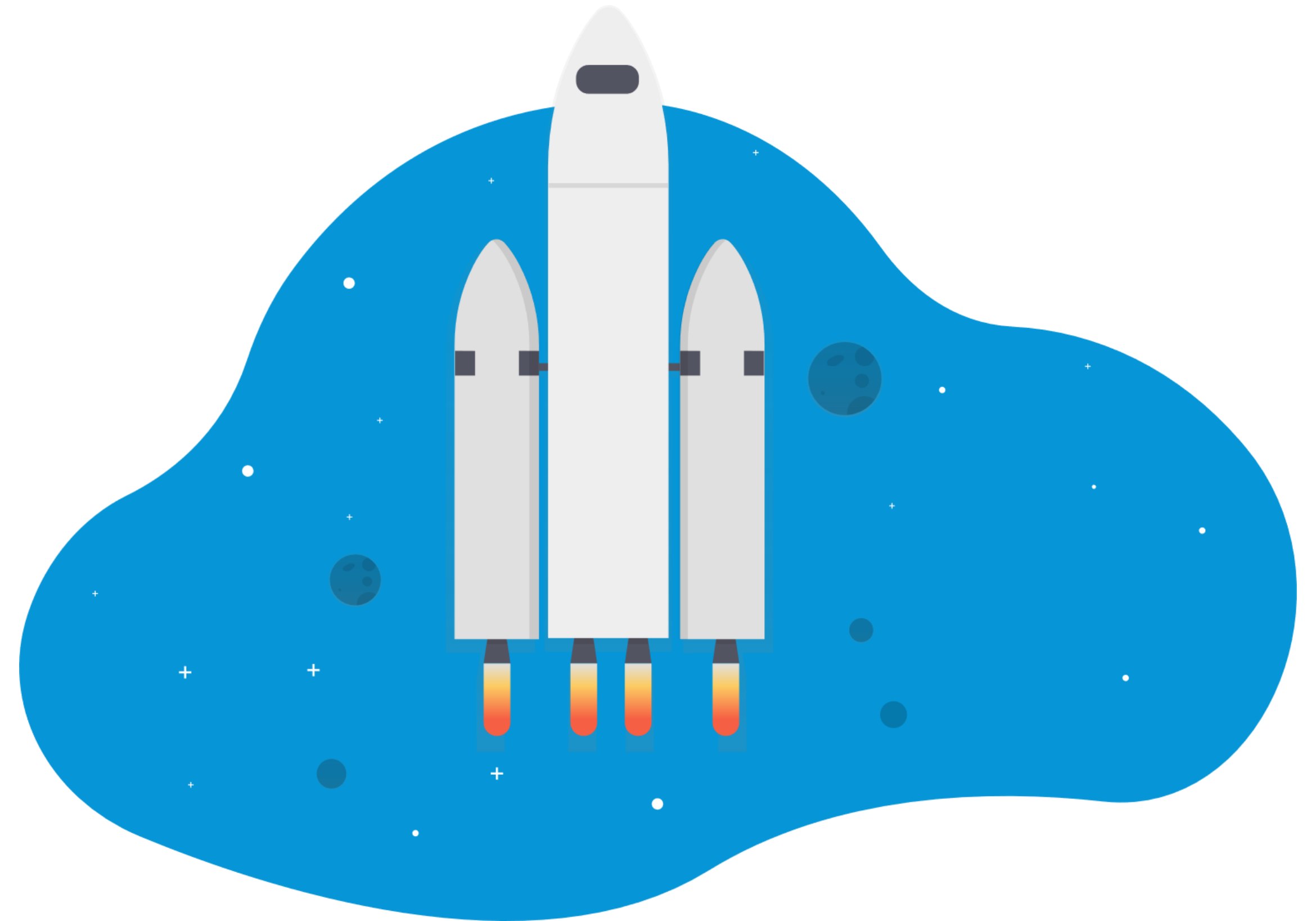


Future Concept



Future Concept

- Algorithmic property search
- Tools for Facility Management with Zapper App
- Prefabrication BIM to CAM
- Construction management
- Configurator (Unity -> Revit)
- IoT service
- Algorithmic property search
- Model Checker
- sUmo
-





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