

AS469144

Virtual Design Collaboration using Arkio and Forge

Michael Beale

Autodesk | Software Engineer | @micbeale

Johan Hanegraaf

Arkio | VP of Product | @johan_hanegraaf

Hilmar Gunnarsson

Arkio | Founder and CEO | @hilmarg

About the speakers



Hilmar Gunnarsson

Founder and CEO of Arkio

Hilmar is fascinated with using new mediums to unleash creativity. Prior to Arkio he founded Modio, a startup that developed a creative toy design and 3D printing app that was acquired by Autodesk.



Johan Hanegraaf

VP Product at Arkio

Johan is an architect and engineer with 10+ years of experience in the industry and has been speaking at conferences worldwide on topics ranging from Revit, Dynamo and Unity VR development.

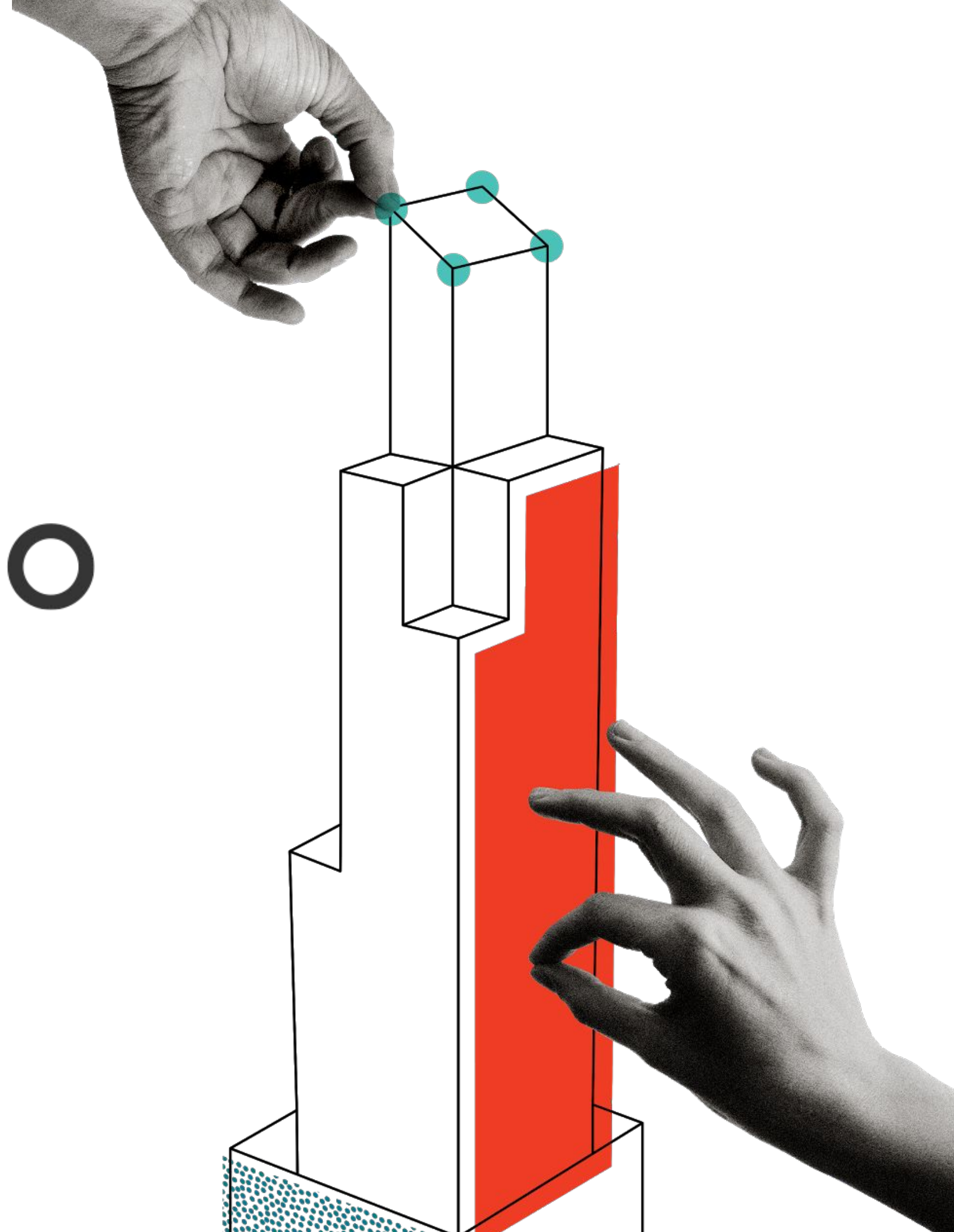


Michael Beale

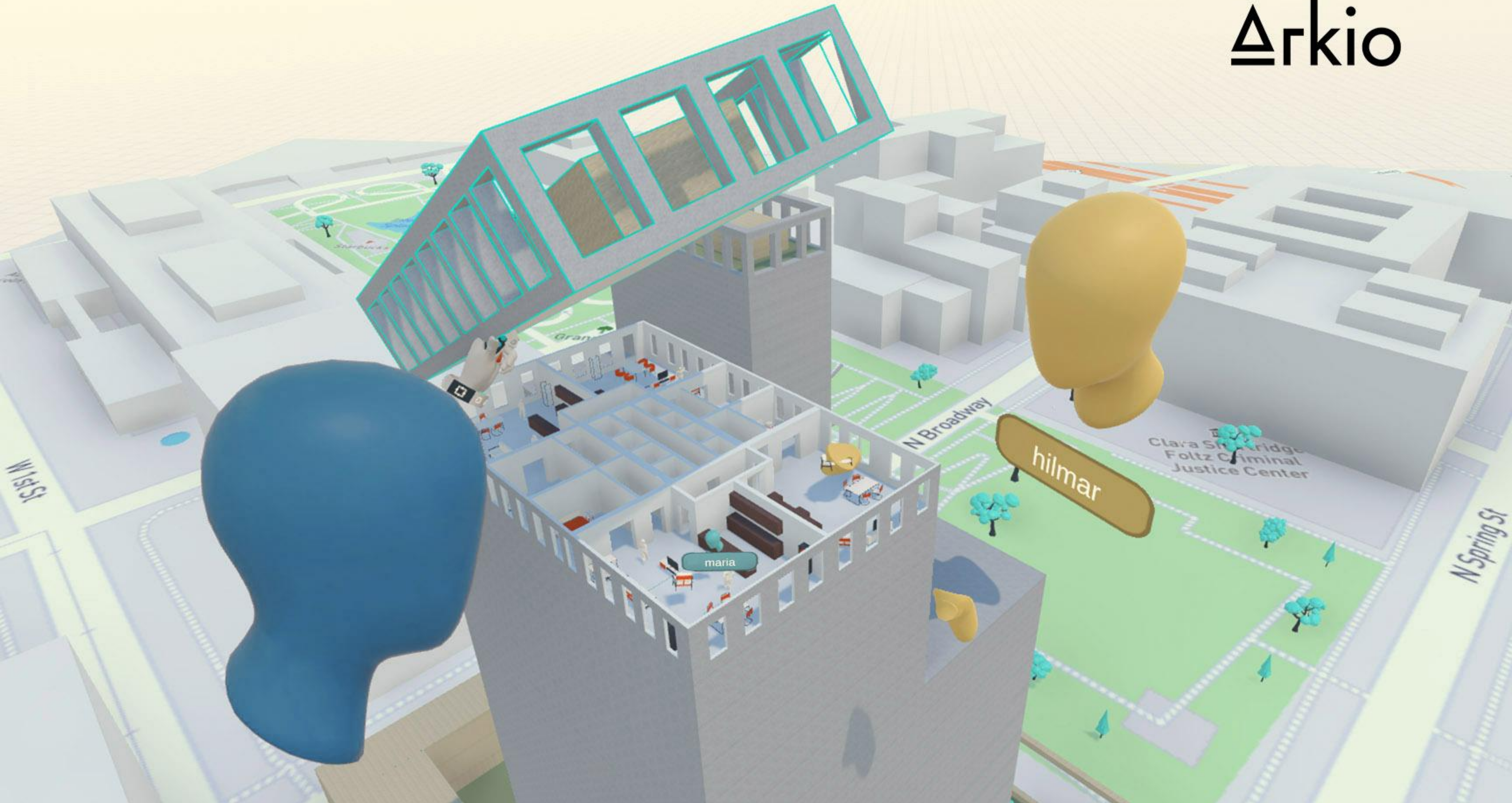
Developer Advocate at Autodesk

I joined the Forge Team about 2 years ago, and I help Developers get started on Forge APIs and help them build their first Proof-of-Concept. Before that, I worked on Forge Viewer, Autodesk Homestyler, Proof-Lab and Stereo-Panorama's.

Δrkio

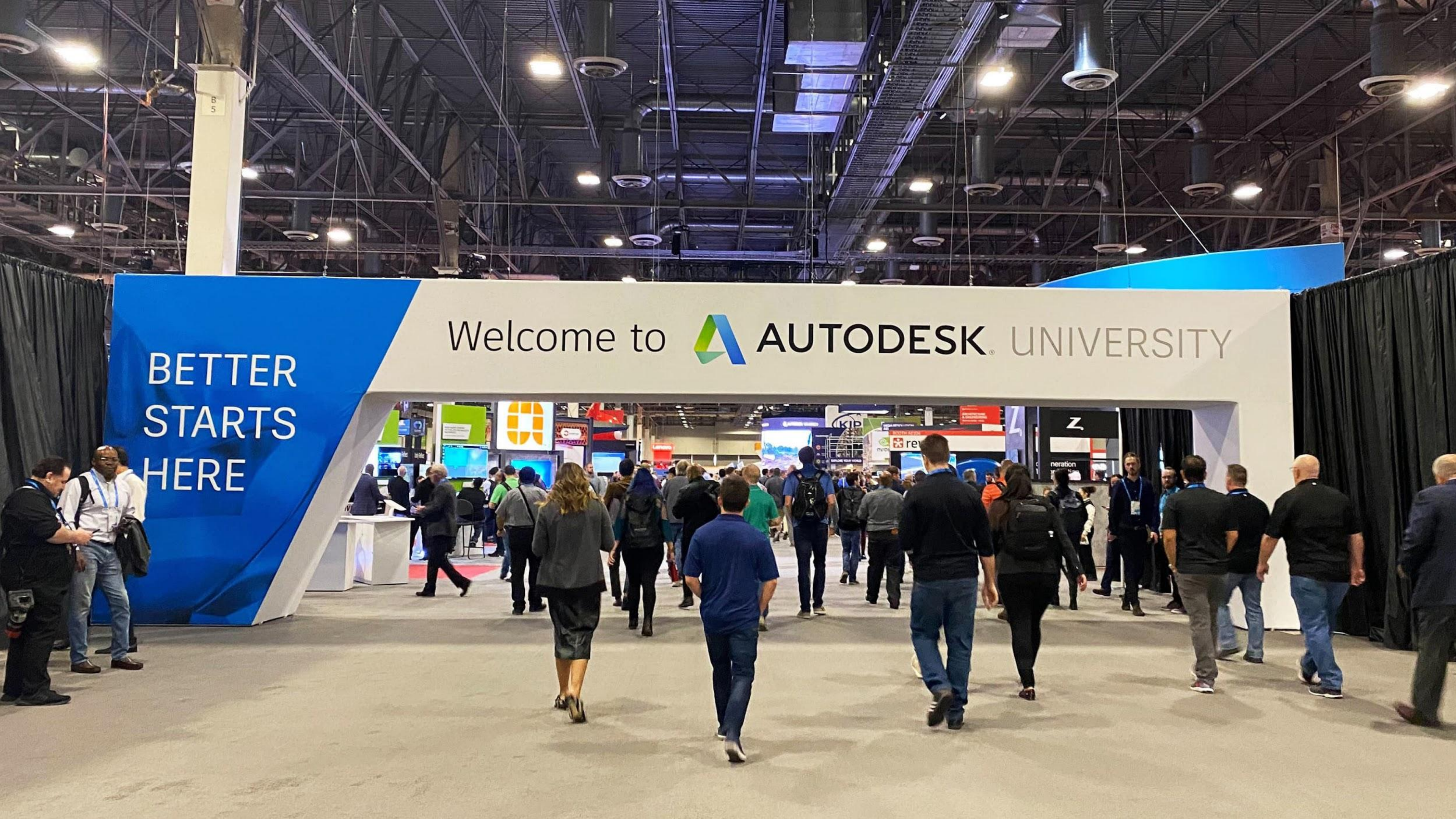


Arkio



BETTER
STARTS
HERE

Welcome to  AUTODESK UNIVERSITY



Simplifying the design process

Collaborate easily

Brainstorm new ideas or sketch on existing 3D models

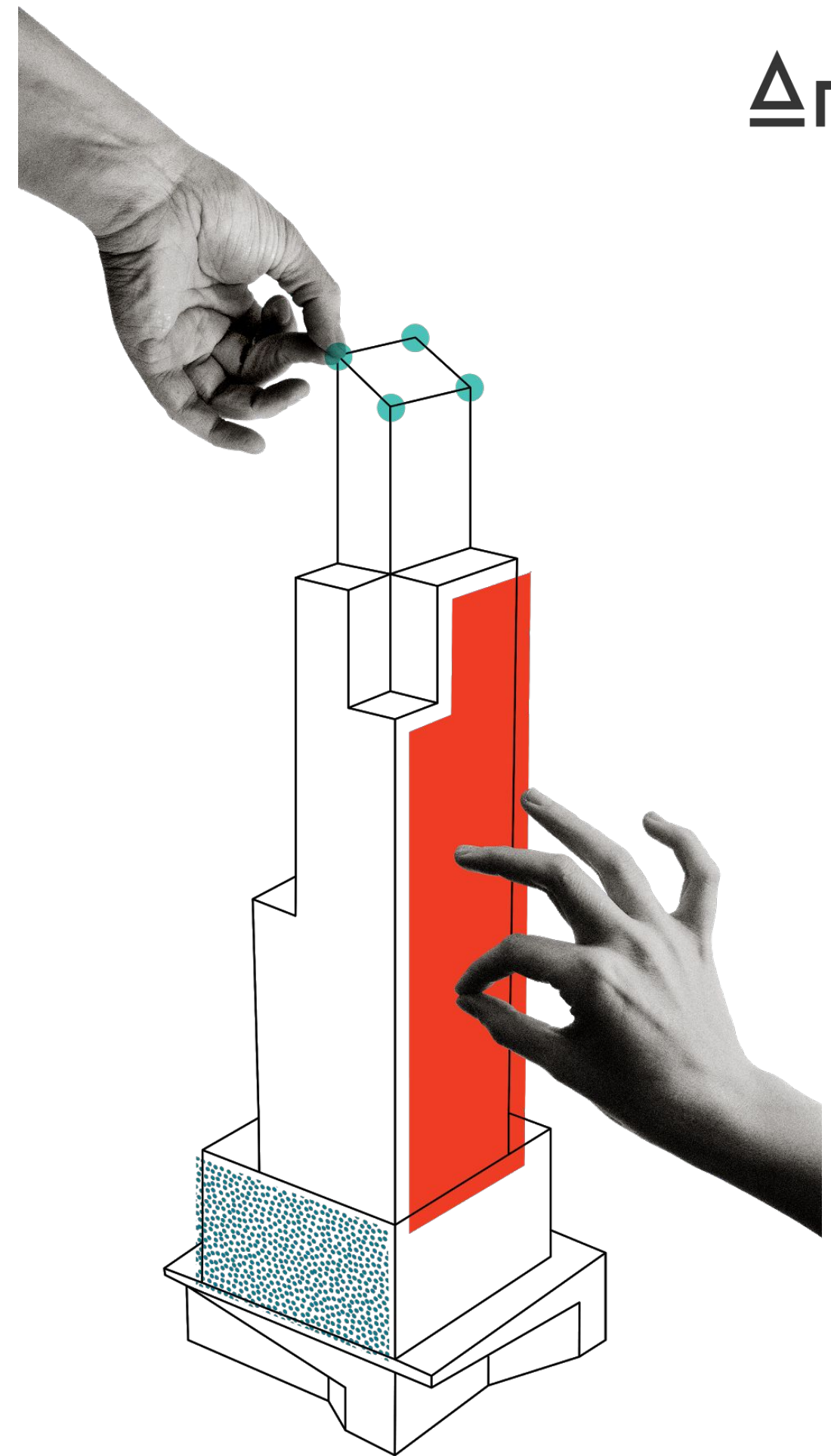
Works on any device, wherever you are

VR, AR, PCs, tablets and phones

Save time & reduce costly mistakes

Present & explore design options together

Arkio



User Interview



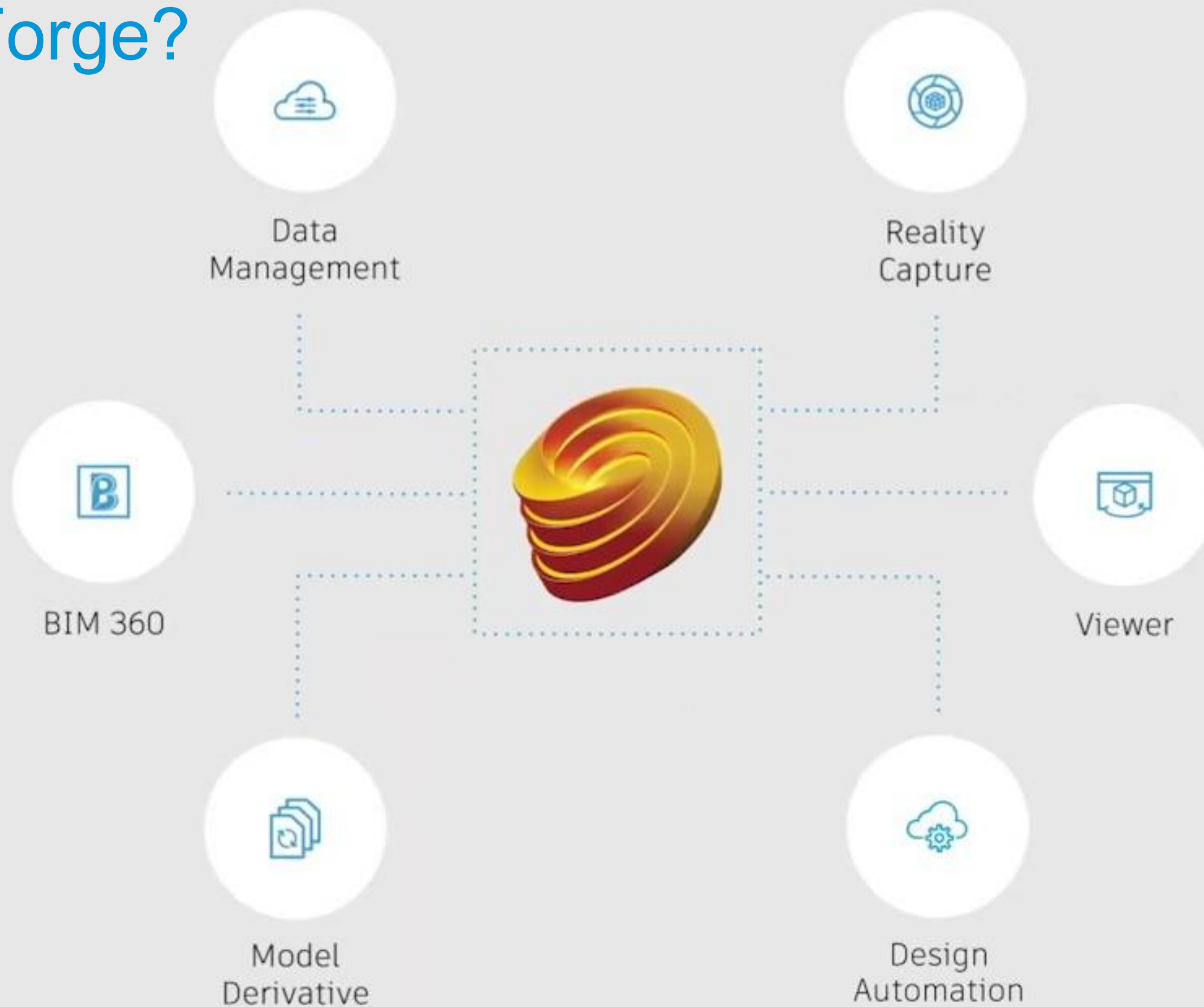
David Morgan

Designer / VR Specialist at Sasaki

David is the immersive technology specialist for Sasaki Strategies - a team of analysts, statisticians, software developers, and planners seeking to bolster planning and design through creative technical solutions. David brings a perspective in architecture and fabrication to the Strategies team and focuses on developing custom Unity tools and visualizations while defining techniques for digital rendering.

What is Forge?

Arkio



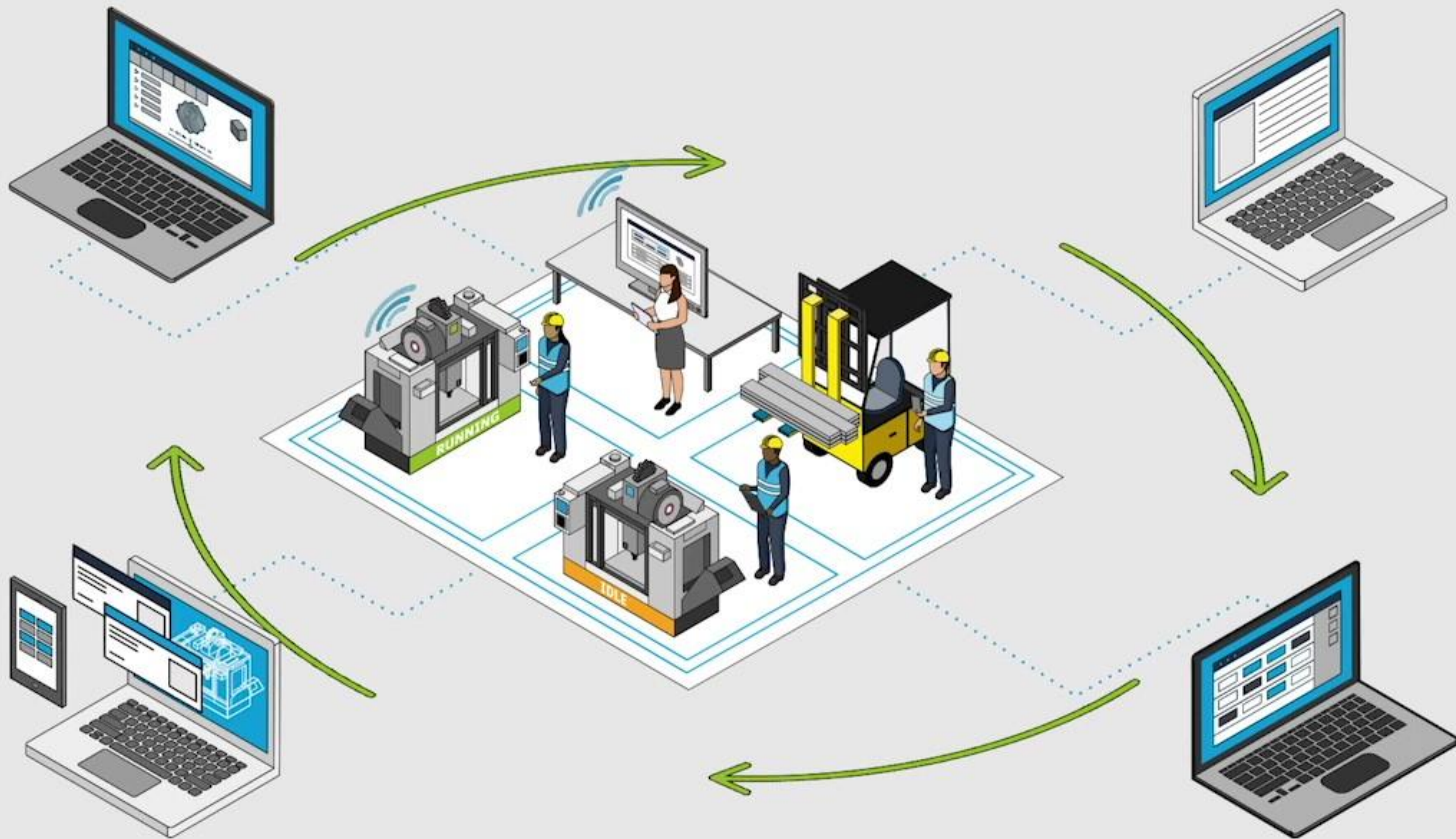
What is Forge?

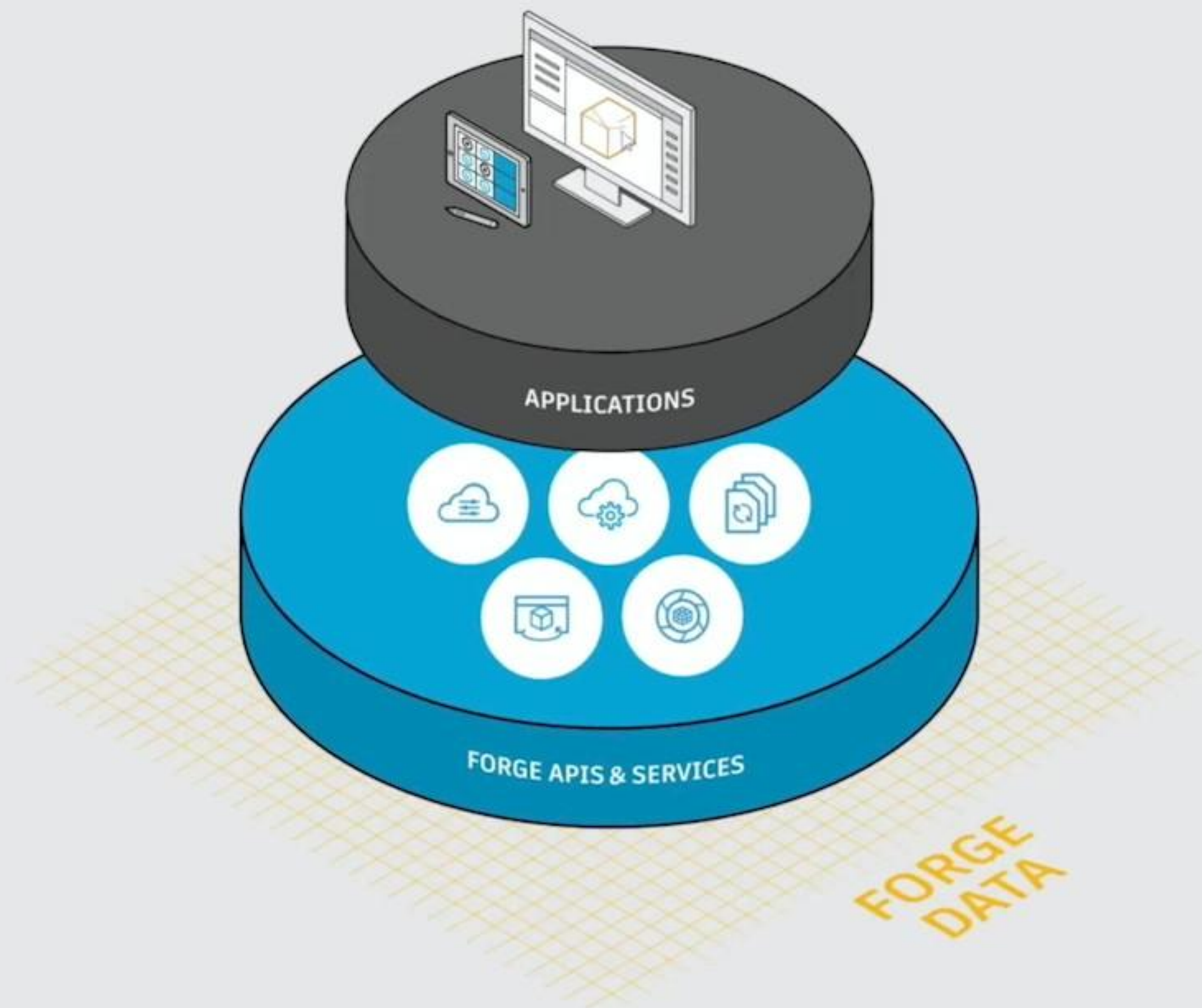


What is Forge?









Arkio and Revit

Bidirectional link

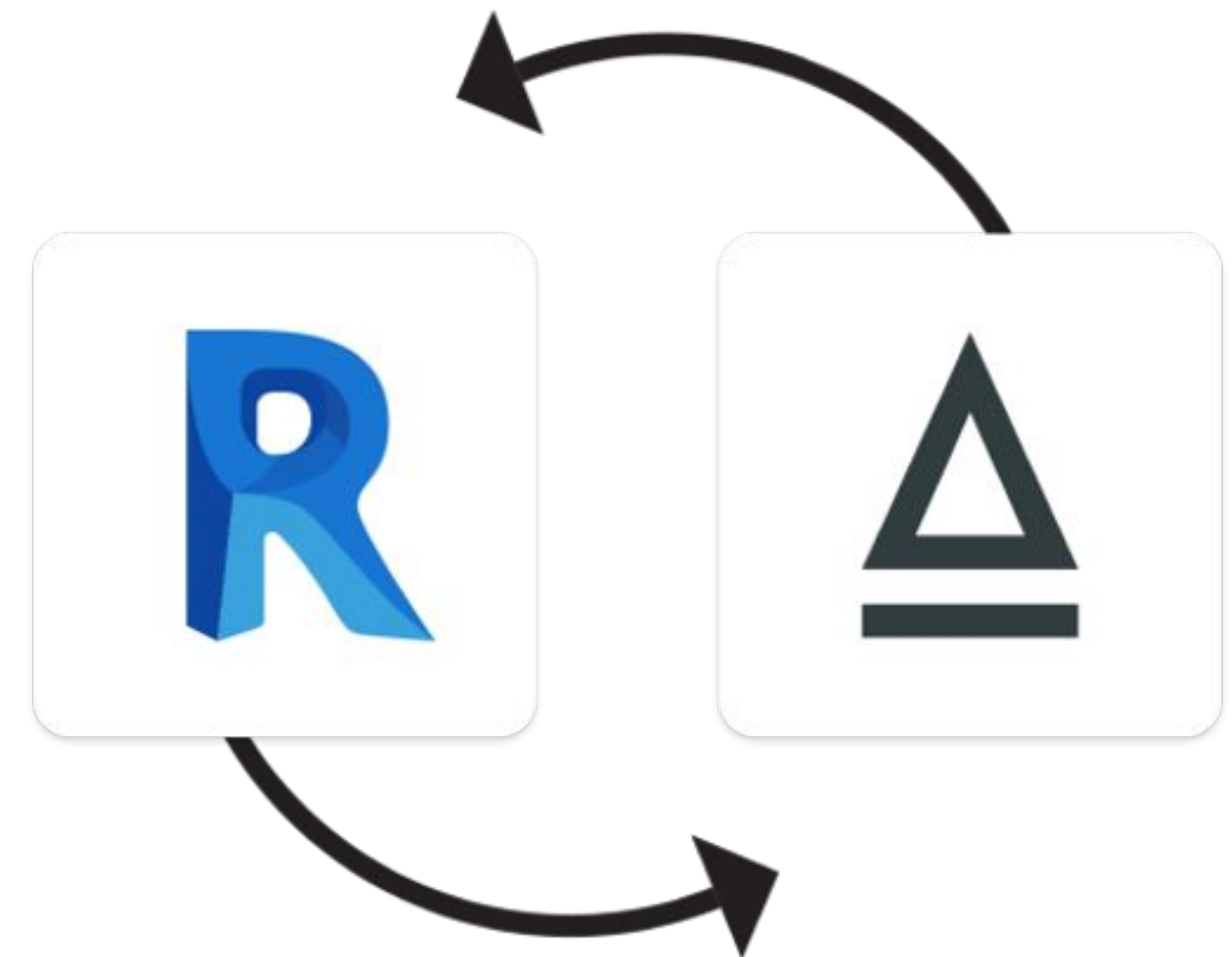
Arkio > native Revit geometry

Import

Optimized model for VR/mobile

Export

Convert Arkio scene to native Revit geometry



Arkio and BIM 360

Account linking

Connect BIM 360 to Arkio account

Import process

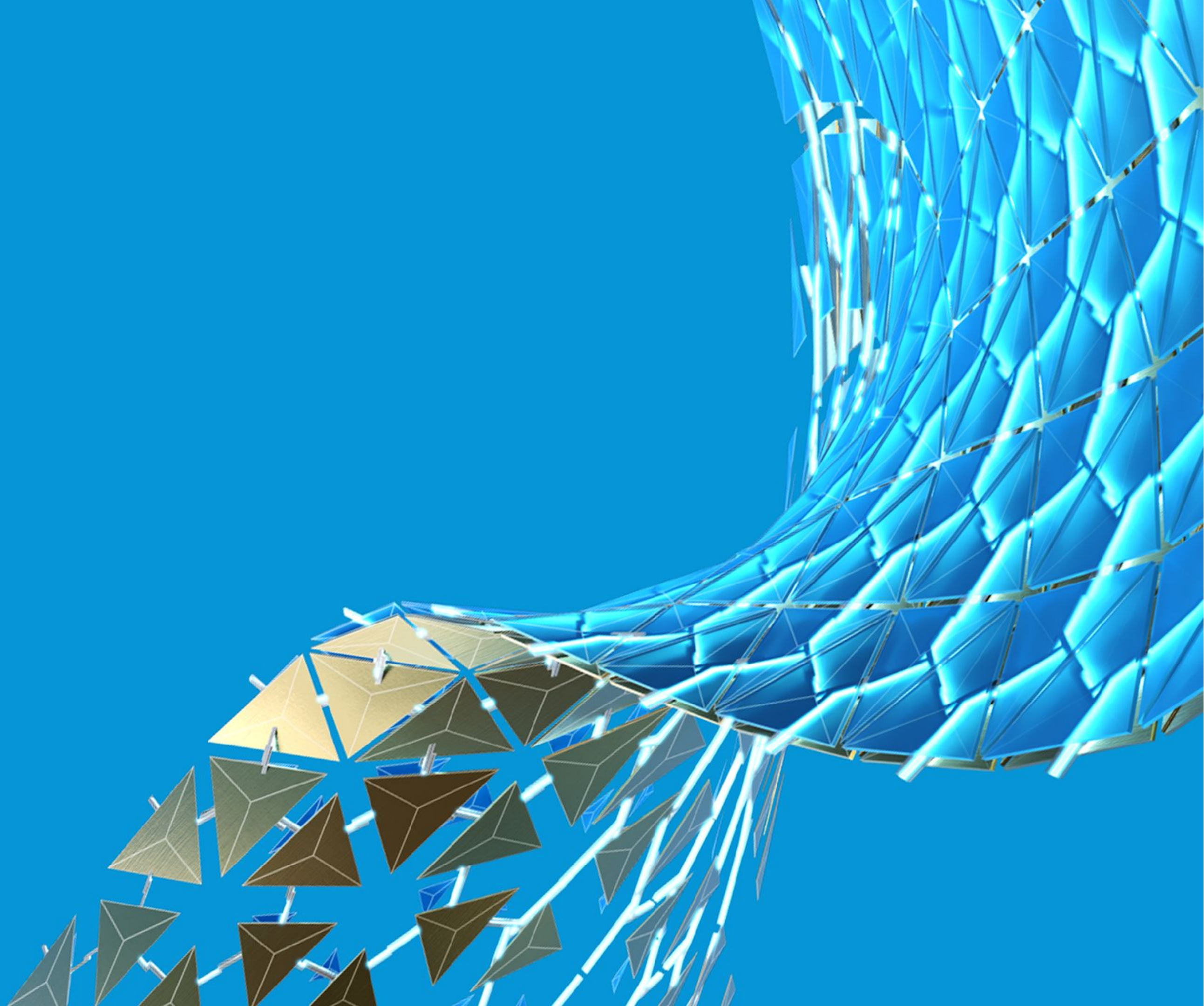
Get latest model and optimize model for VR/mobile

Export process

Store Arkio native Revit project on BIM 360



Demo





michael

johan

arkio



creative process

Arkio

how we experience

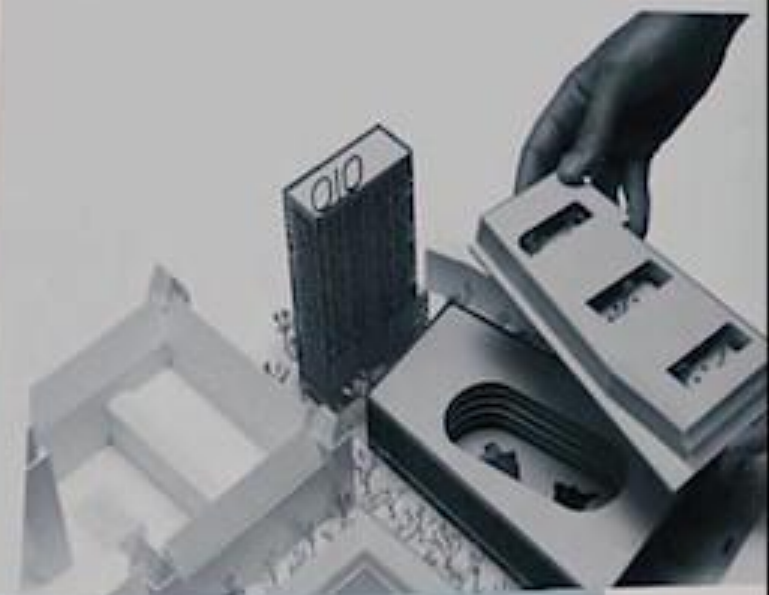


Arkio

how we experience

Arkio

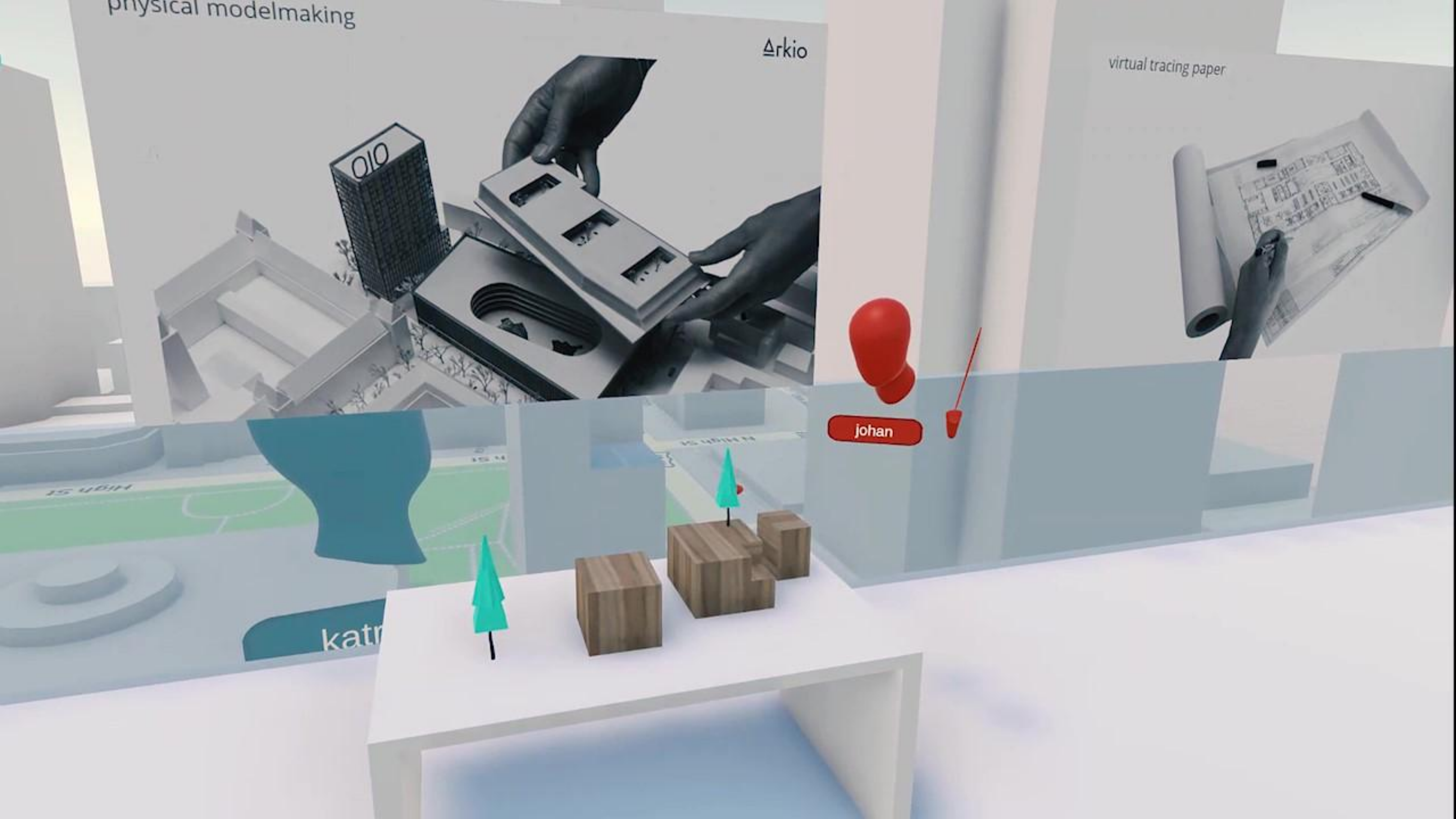
physical modelmaking



physical modelmaking

Arkio

virtual tracing paper



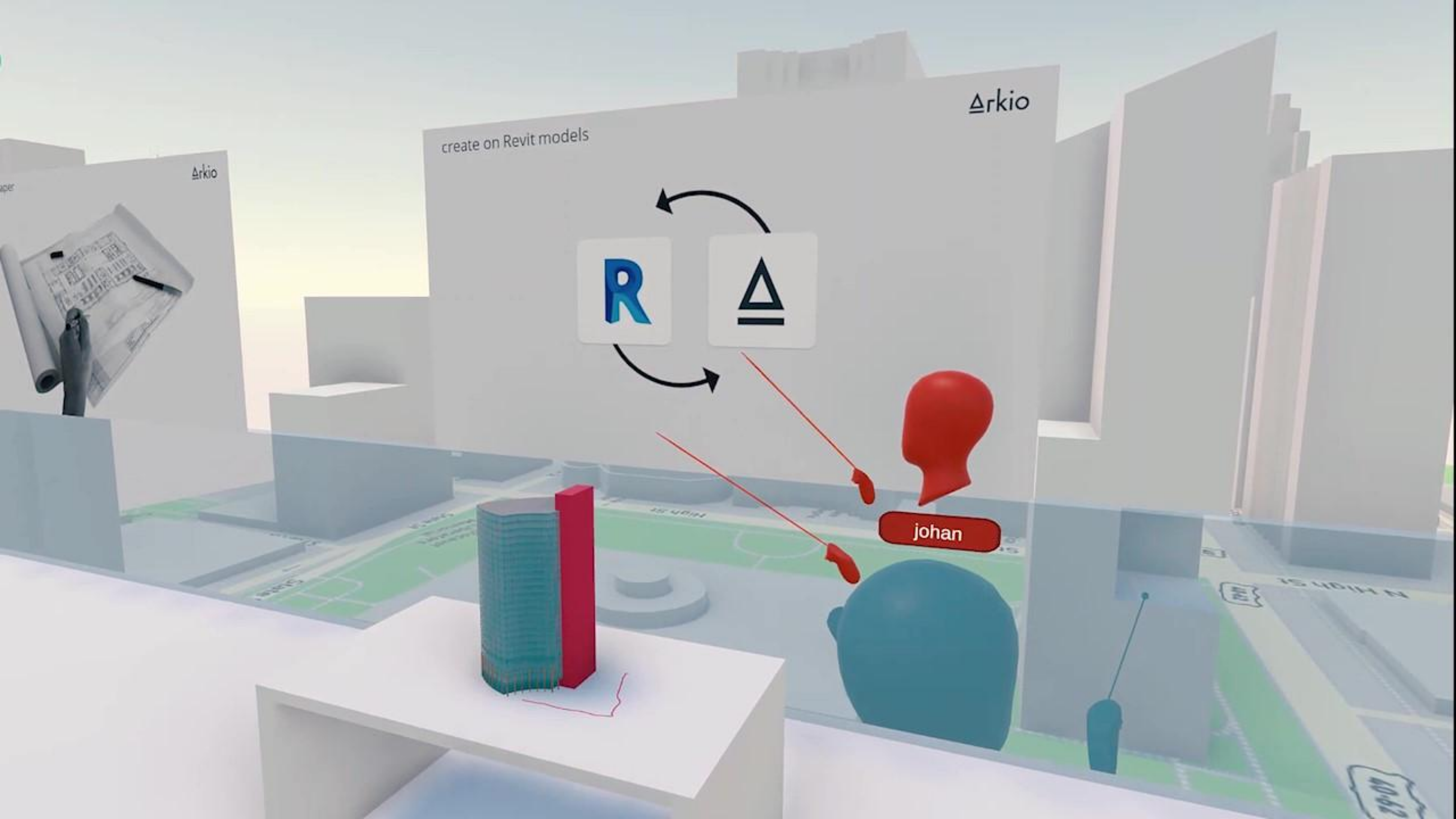
virtual tracing paper

Arkio

create on Revit models

katrin

johan



Arkio

create on Revit models

R

\triangle

johan



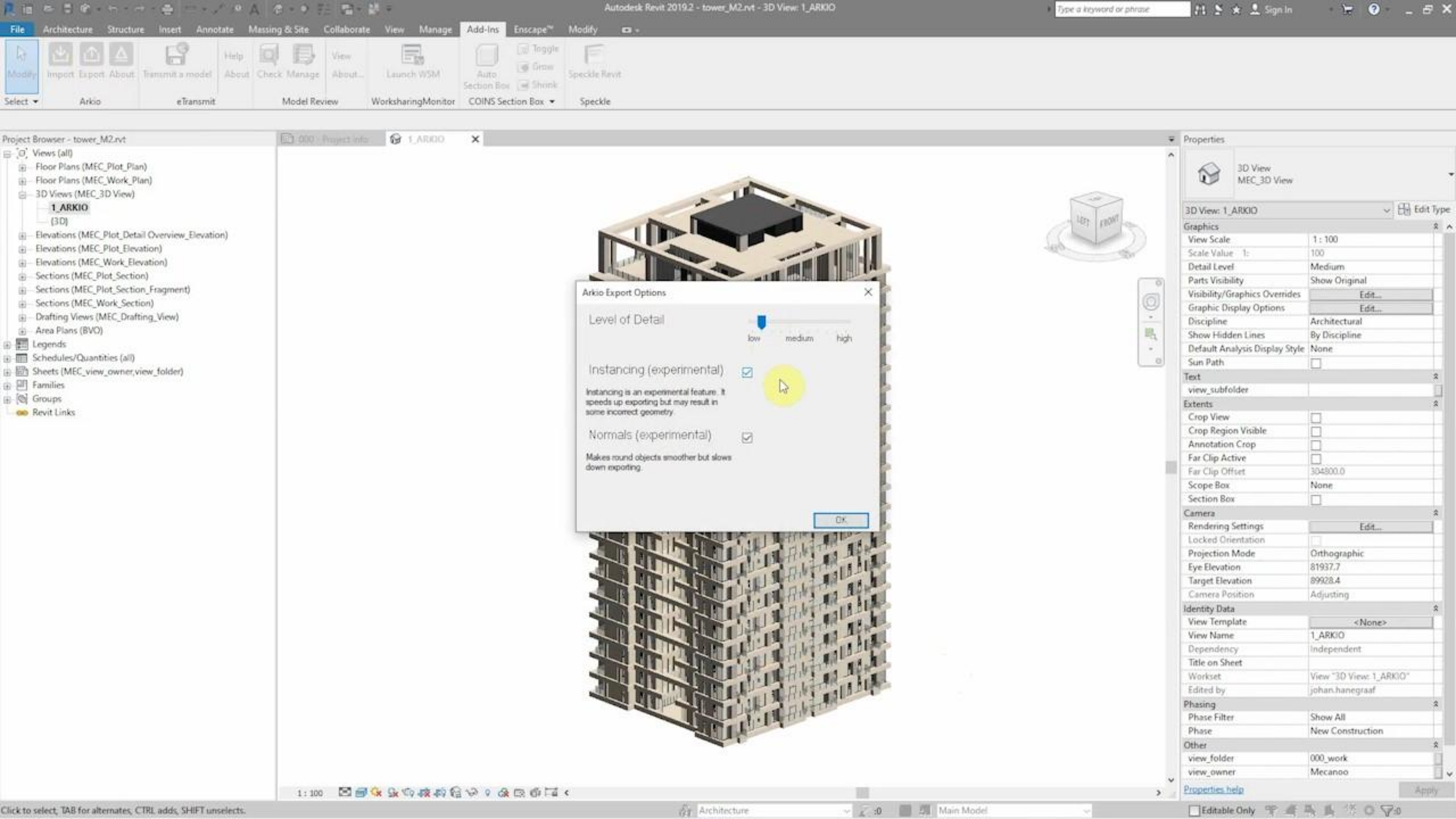
johan

6.9 m

6.9 m

36.3 m

36





View by

Folders

Sets

Plans

Project Files

- Mecanoo architecten b.v.
 - A675 TPL
 - A788 Trinity College
 - A824 Guoshen
 - Plans
 - Project Files
 - Revit
 - Shared
 - Temp
 - Export_2.rvt
 - tower_M2.rvt
 - Perth City Hall







hilmar

18-58-9.arkio

2020-10-02--20-20-06-9.arkio

2020-10-02--20-20-33-2.arkio

2020-10-02--20-24-13-6.arkio

2020-10-02--20-21-59-8.arkio

Chapel St



Obj



Revit

Meeting

Share



History



New



Duplicate



Delete



Export



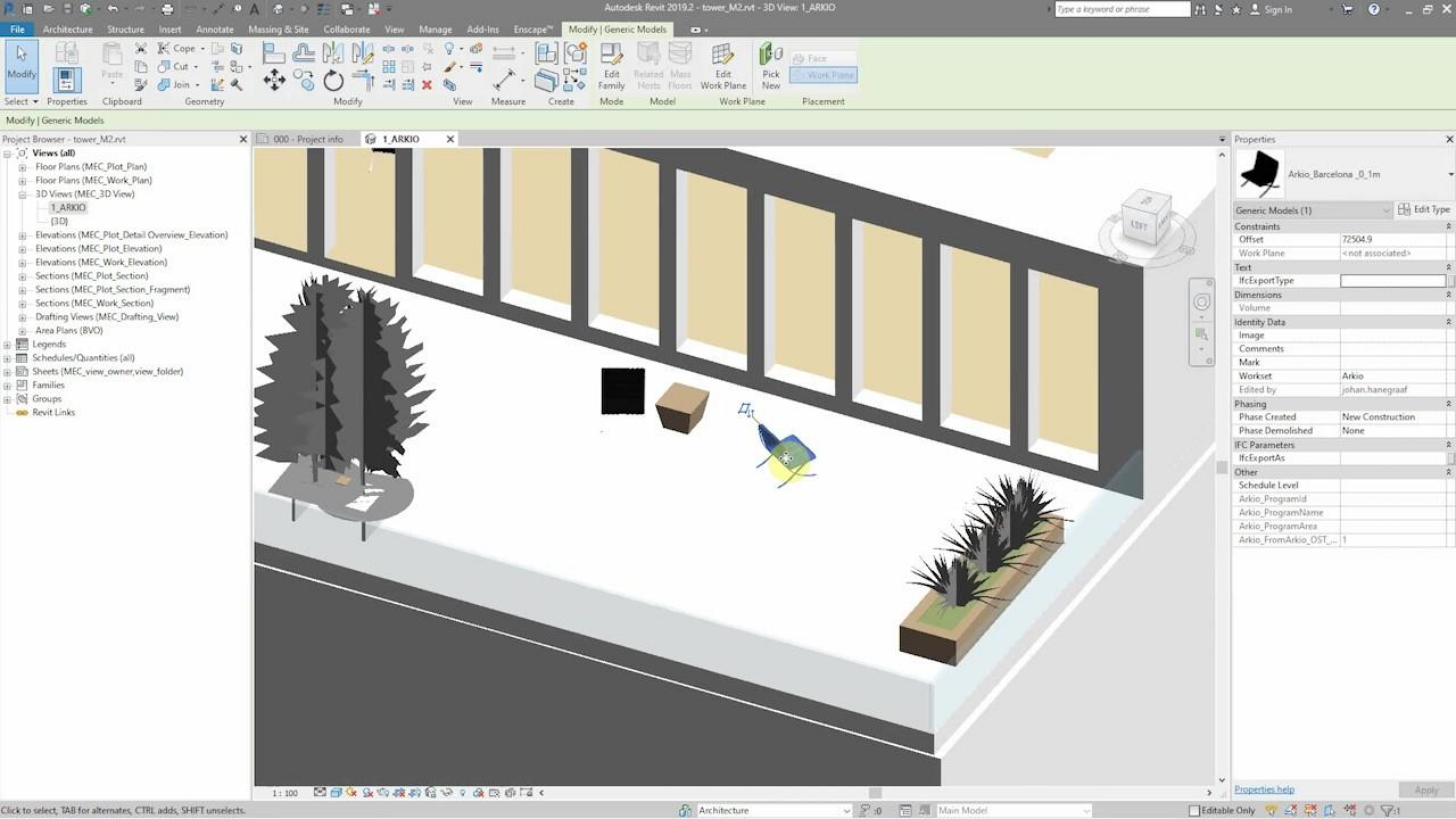
Import



Tutorial



Close



Geschiedenis

Export_2.rvt

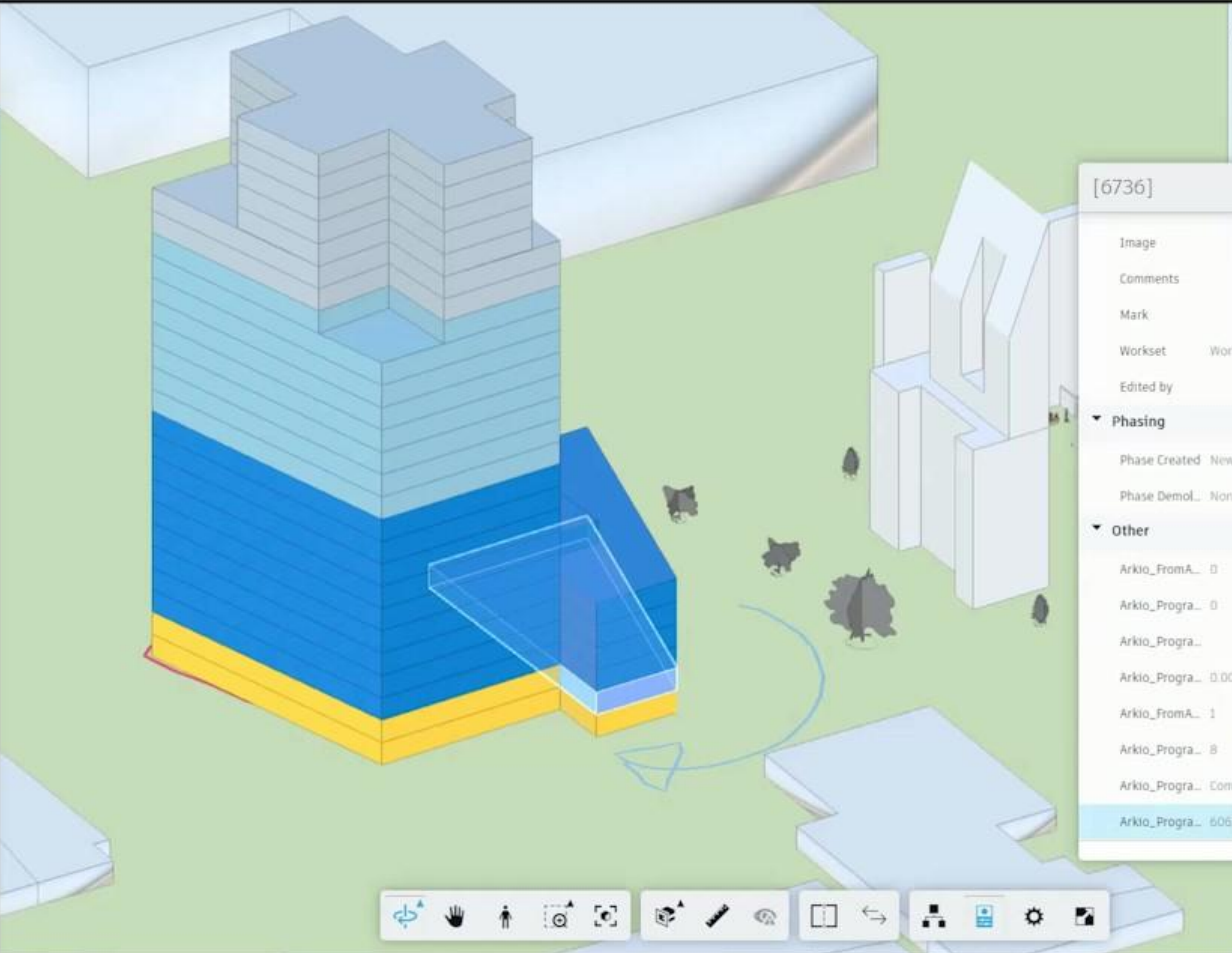
V5 huidige
Geüpload door Johan Hanegraaf. Gisteren uu:20 pm

V4
Geüpload door Johan Hanegraaf. Gisteren uu:16 pm

V3
Geüpload door Johan Hanegraaf. Gisteren uu:02 pm

V2
Geüpload door Johan Hanegraaf. sep. 16, uu:02 pm

V1
Geüpload door Johan Hanegraaf. sep. 16, uu:02 pm



[6736]

Image

Comments

Mark

Workset Workset1

Edited by

Phasing

Phase Created New Construction

Phase Demol. None

Other

Arkio_FromA... 0

Arkio_Progra... 0

Arkio_Progra...

Arkio_Progra... 0.00 m²

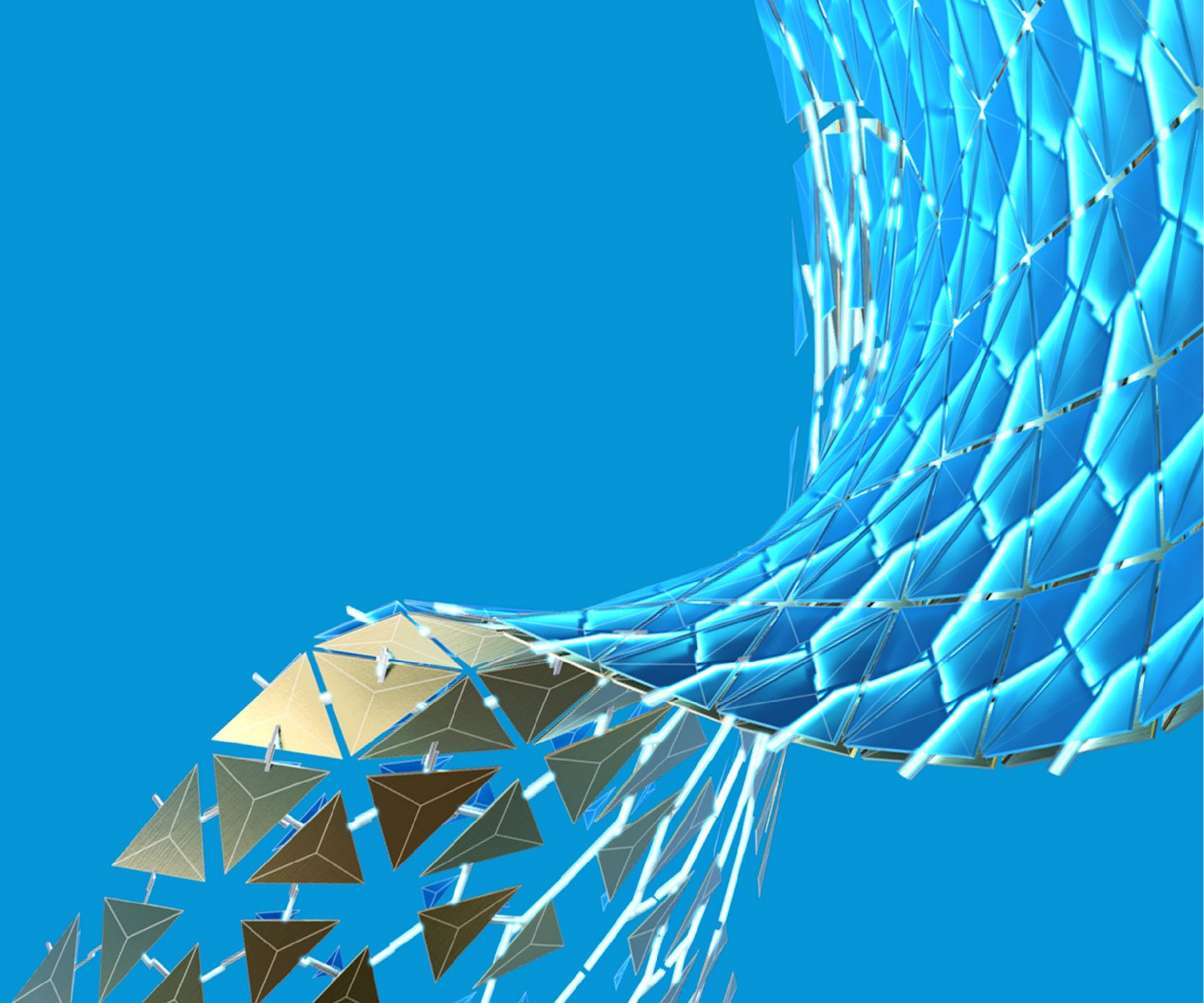
Arkio_FromA... 1

Arkio_Progra... 8

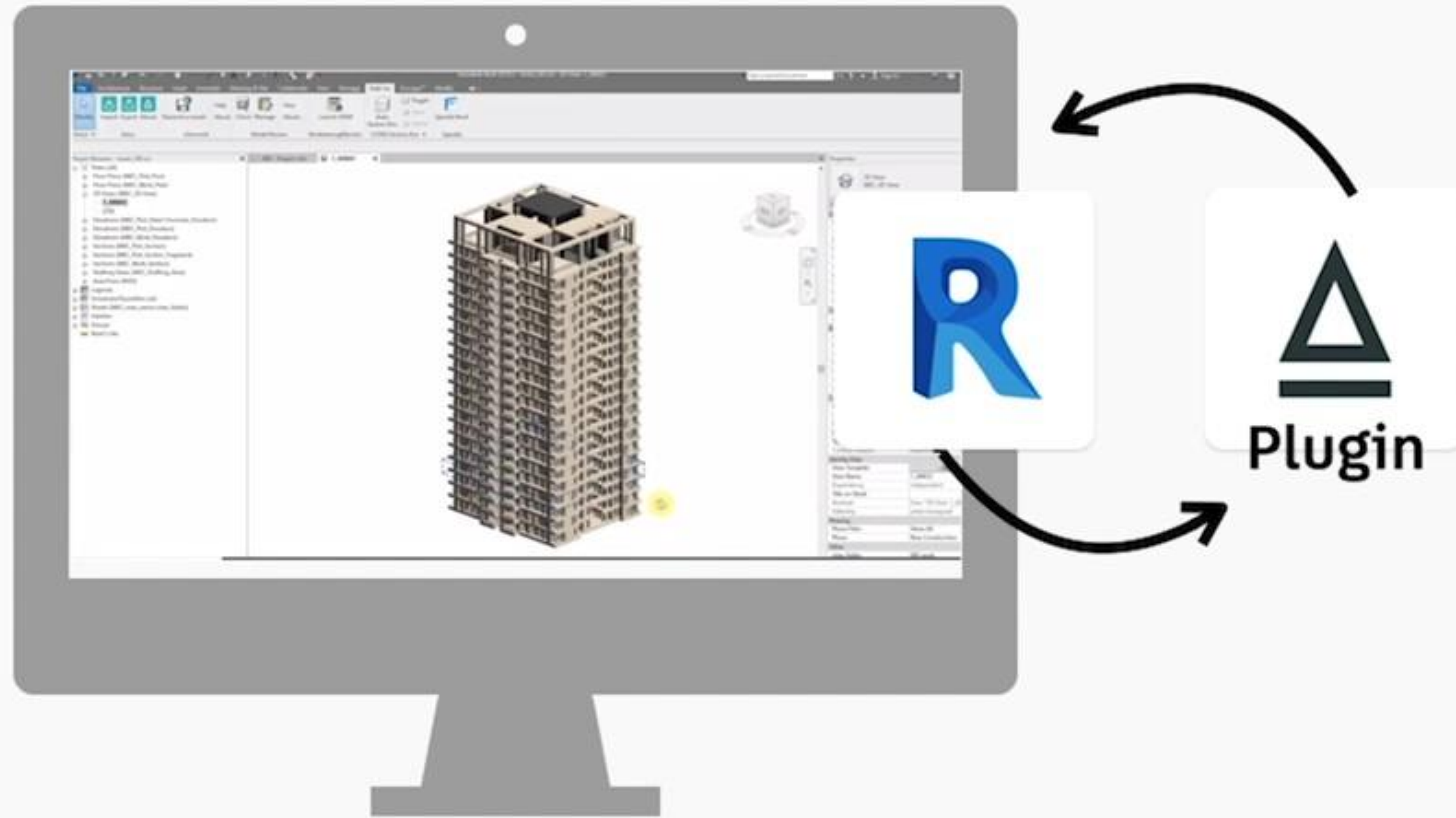
Arkio_Progra... Commercial

Arkio_Progra... 606.09 m²

Deep dive



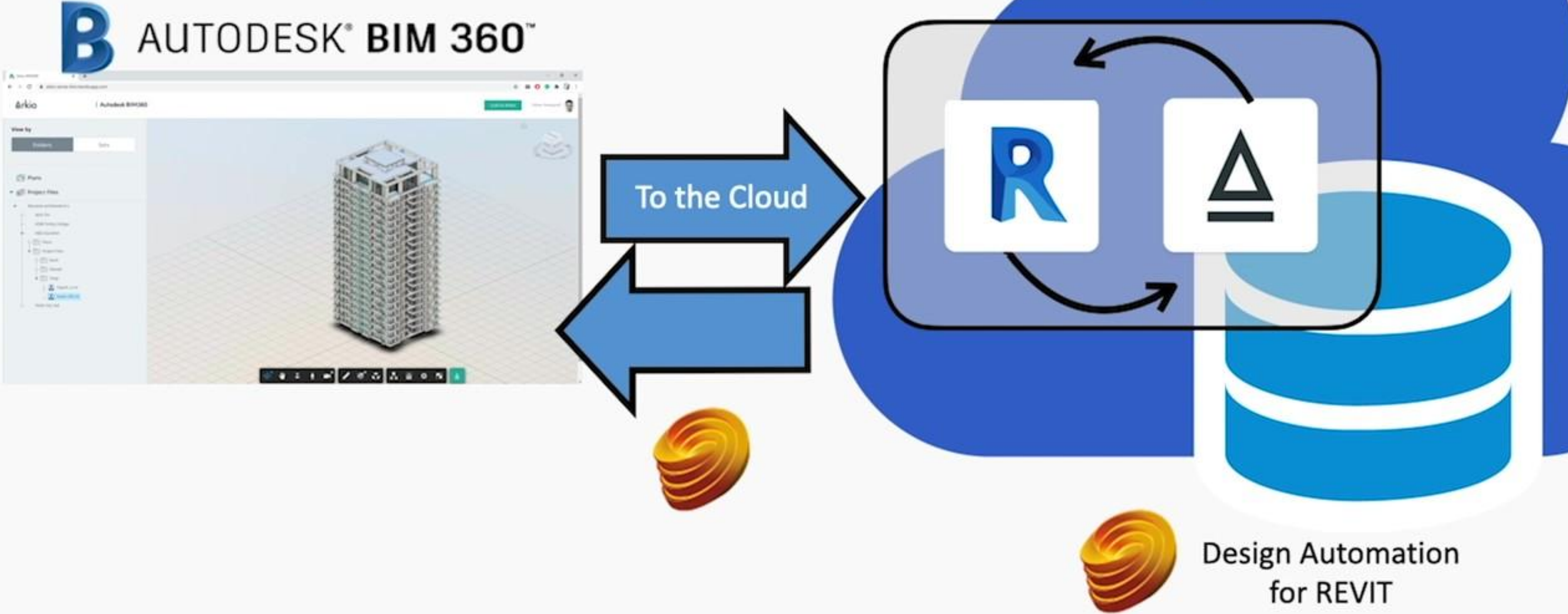
1. Start by taking Arkio's existing Revit **Desktop Plugin**...

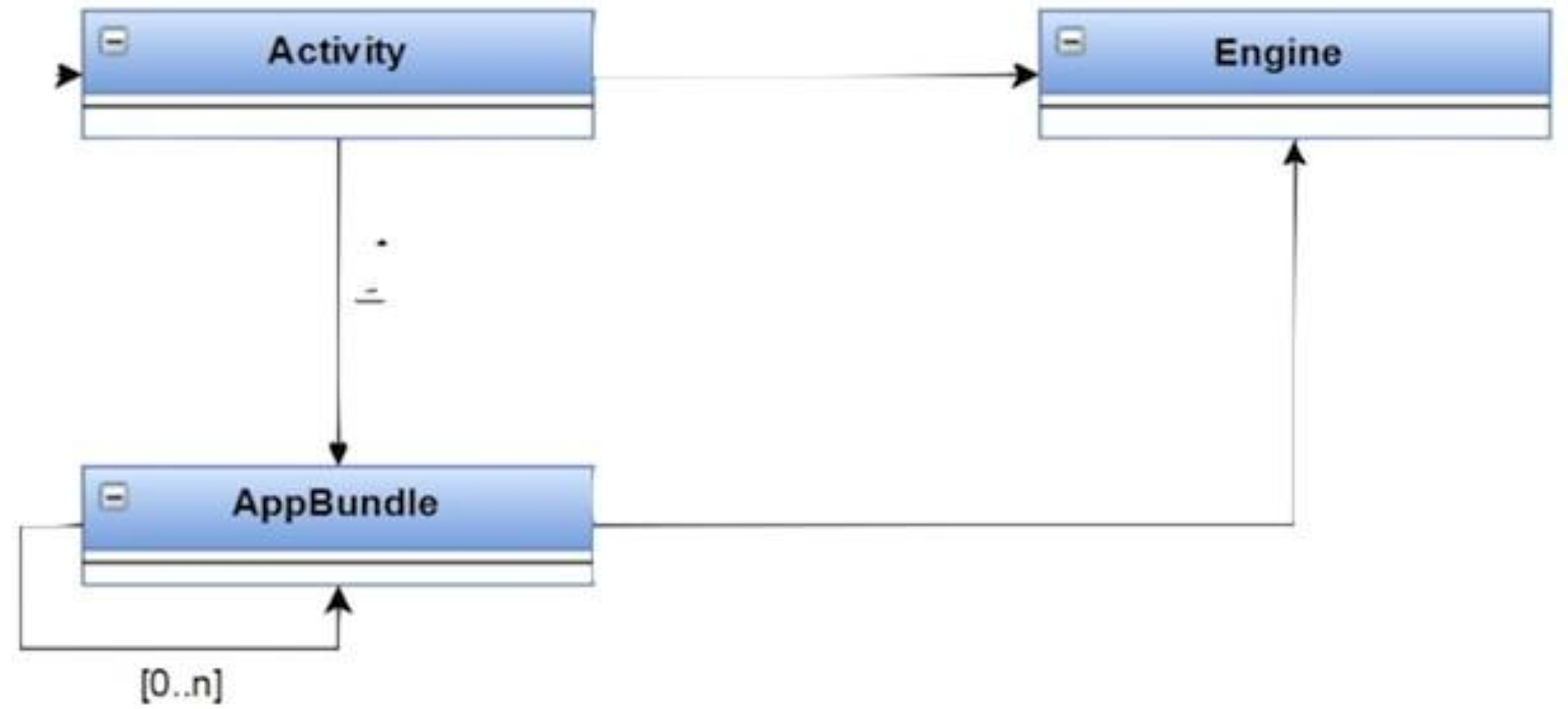


2. **Move** it “to the Cloud” using Forge



3. And “add” BIM 360 integration



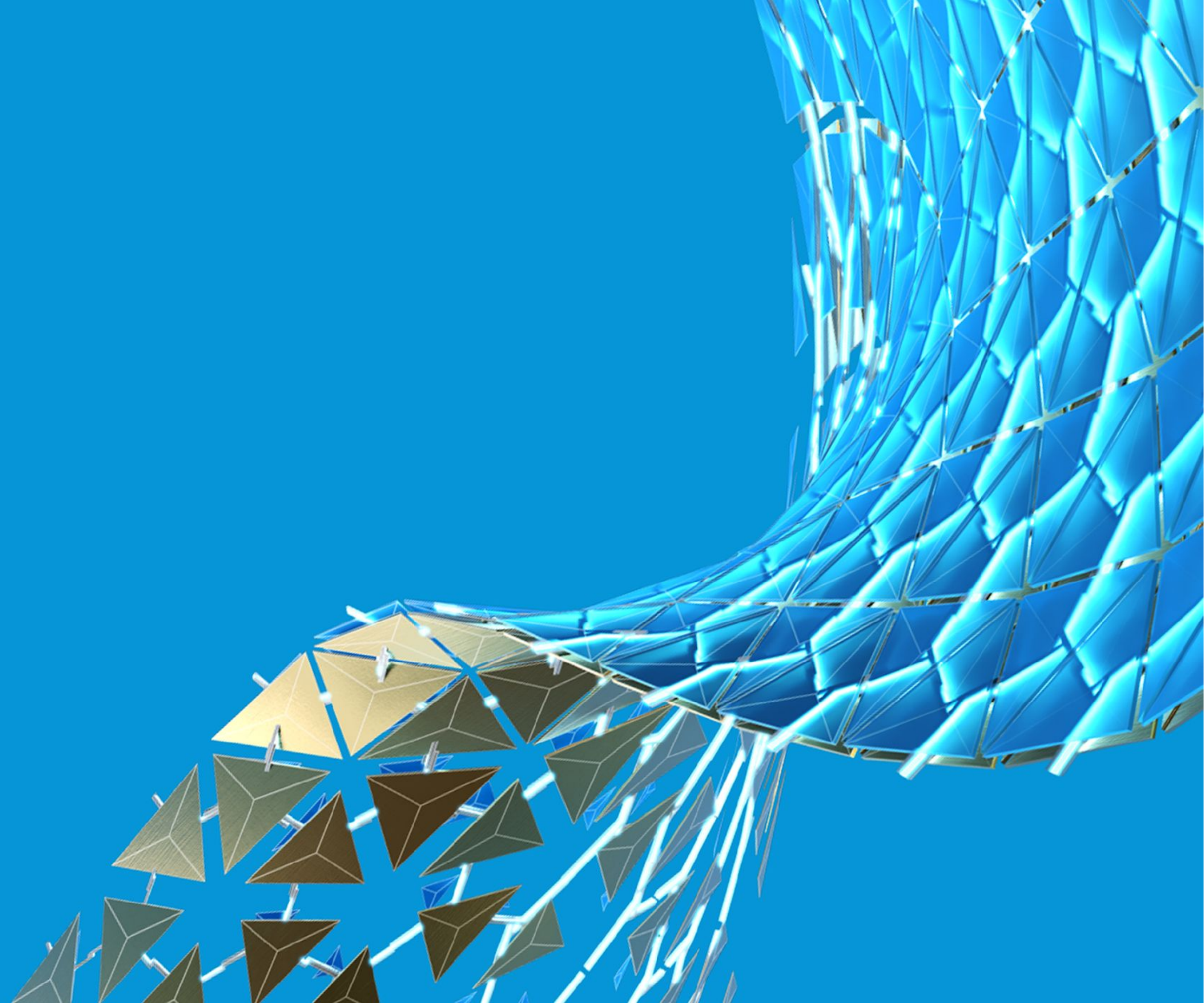


Design Automation for Revit



Bucket Storage

Interview





Arkio



SASAKI

David Morgan
Designer / VR Specialist at Sasaki

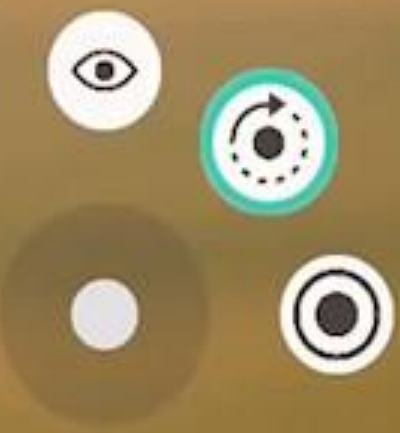
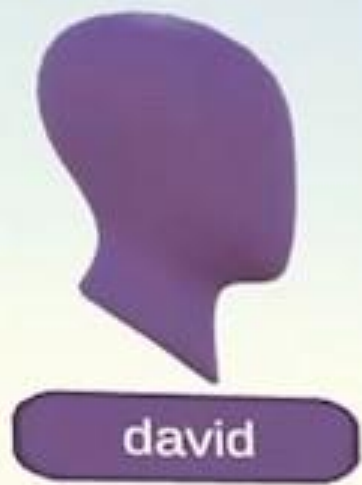
David is the immersive technology specialist for Sasaki
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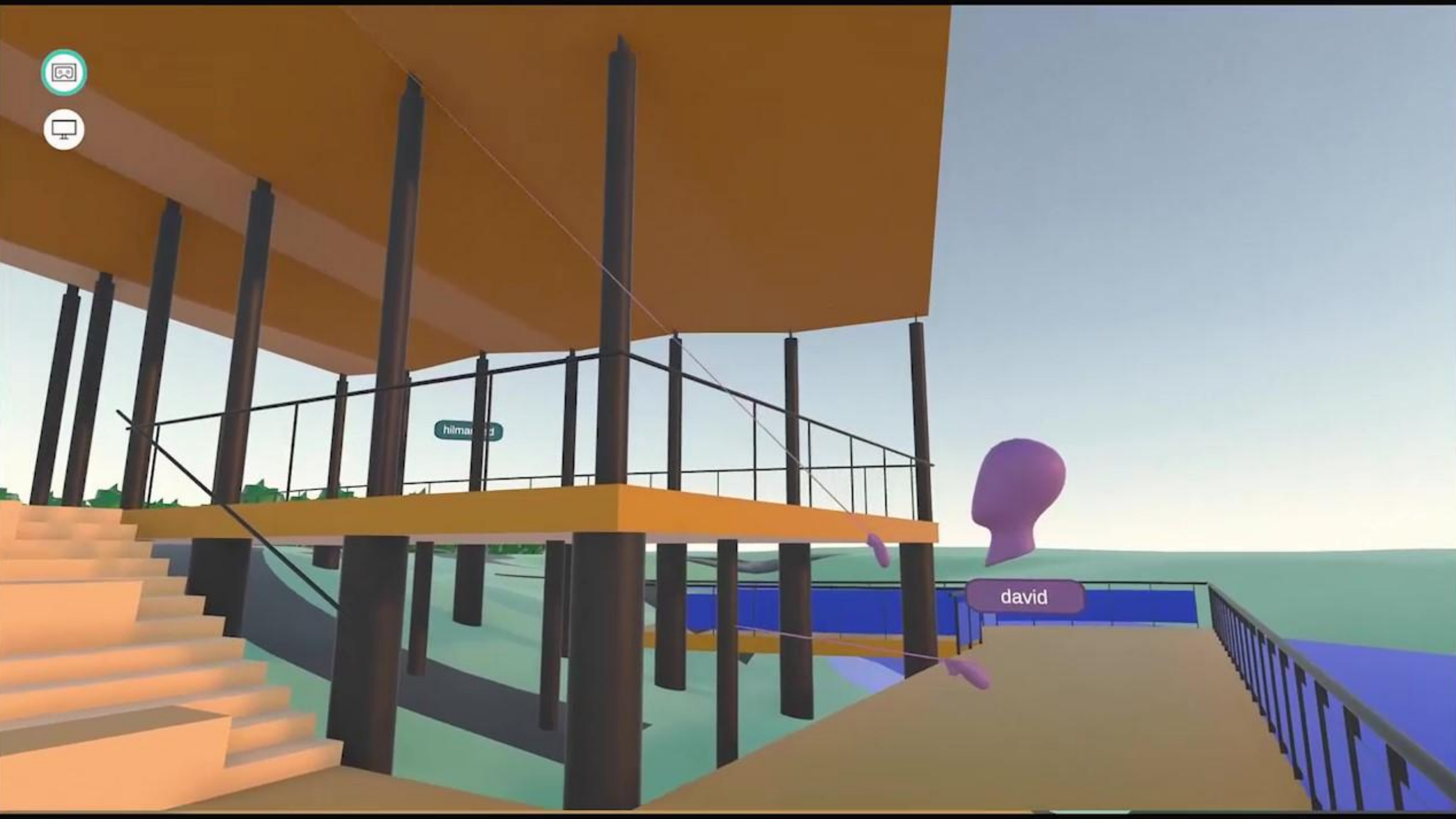




david

hilmar

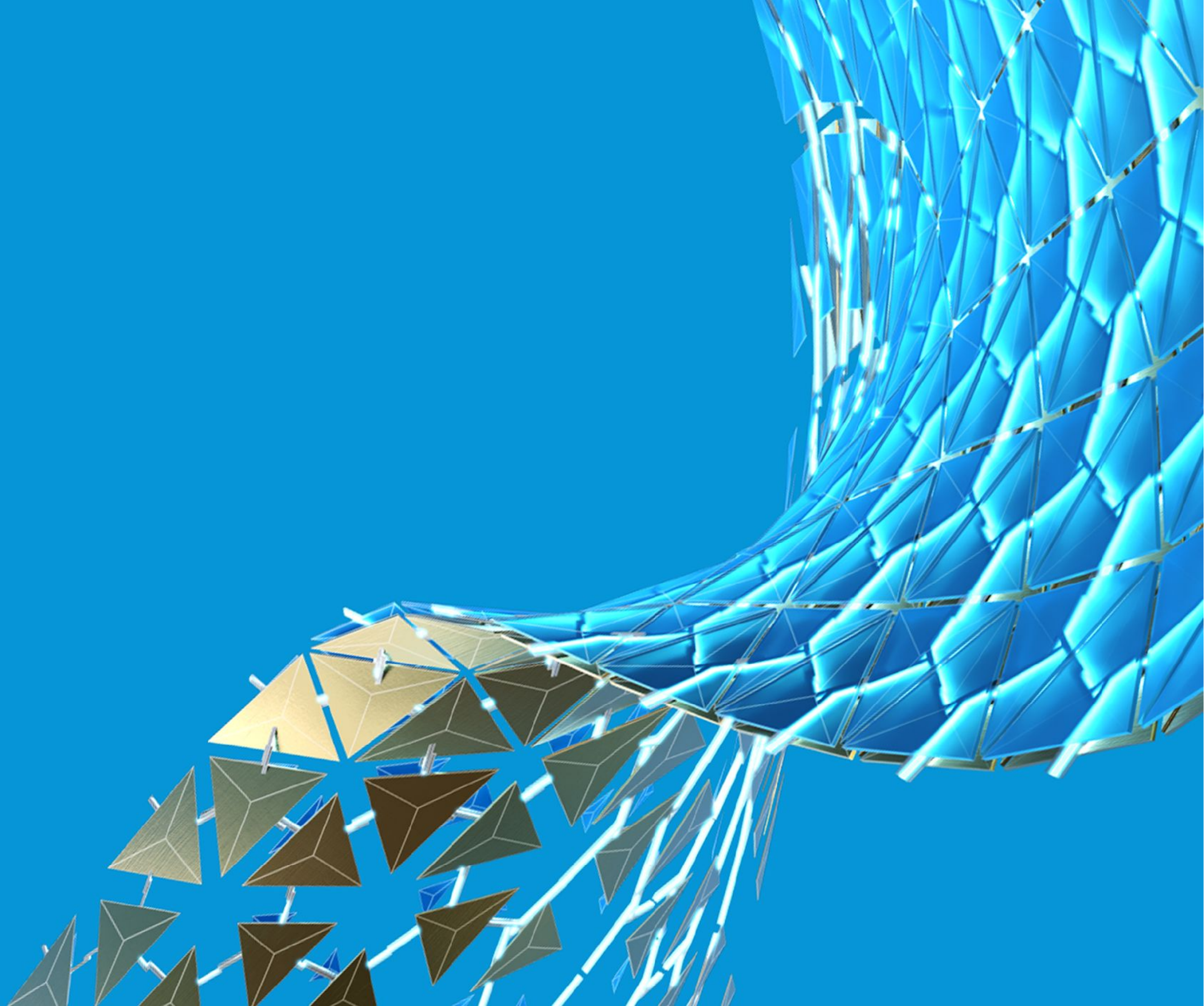


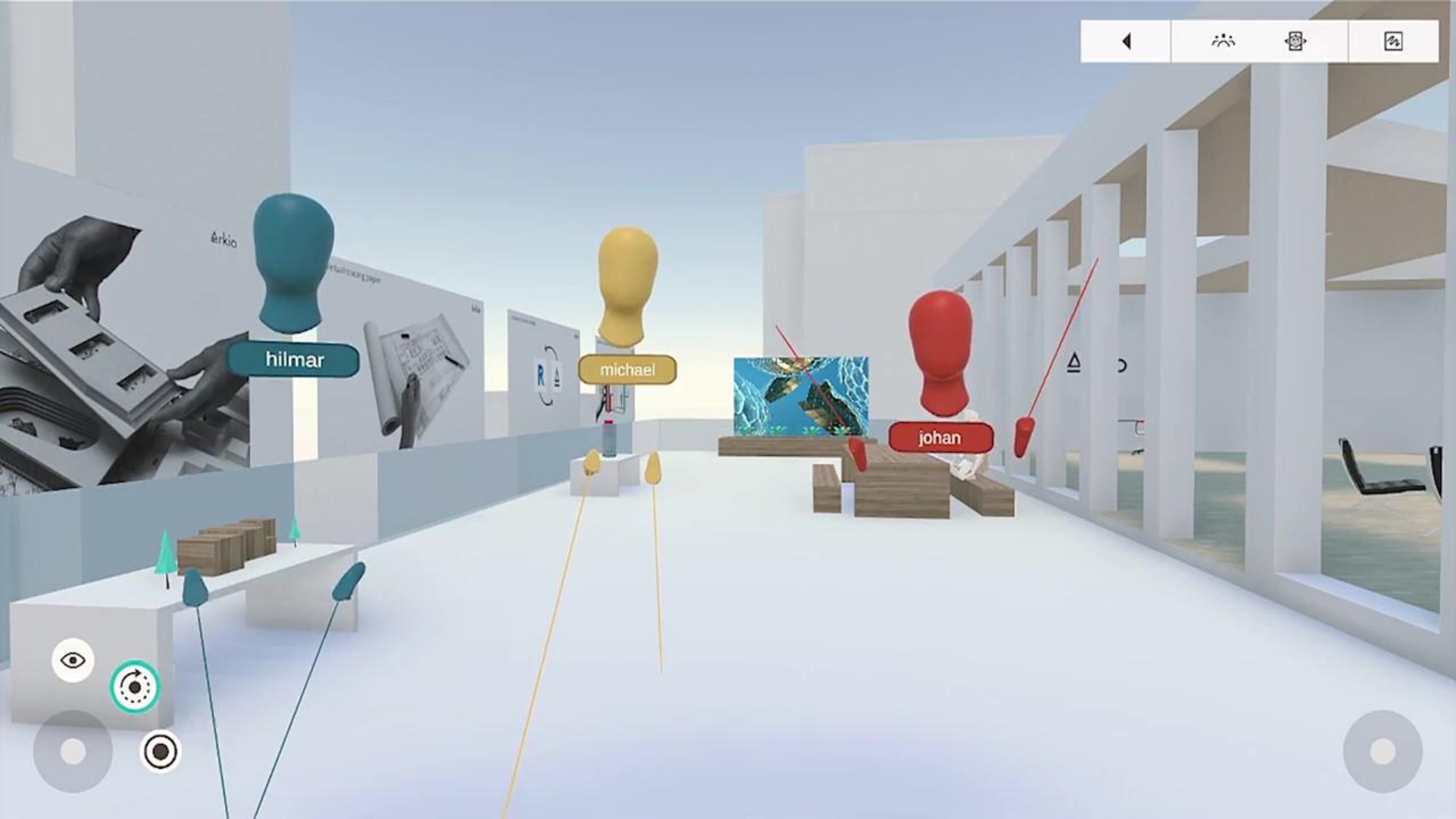


hilma

david

Summary





Arkio

Virtual reality paper

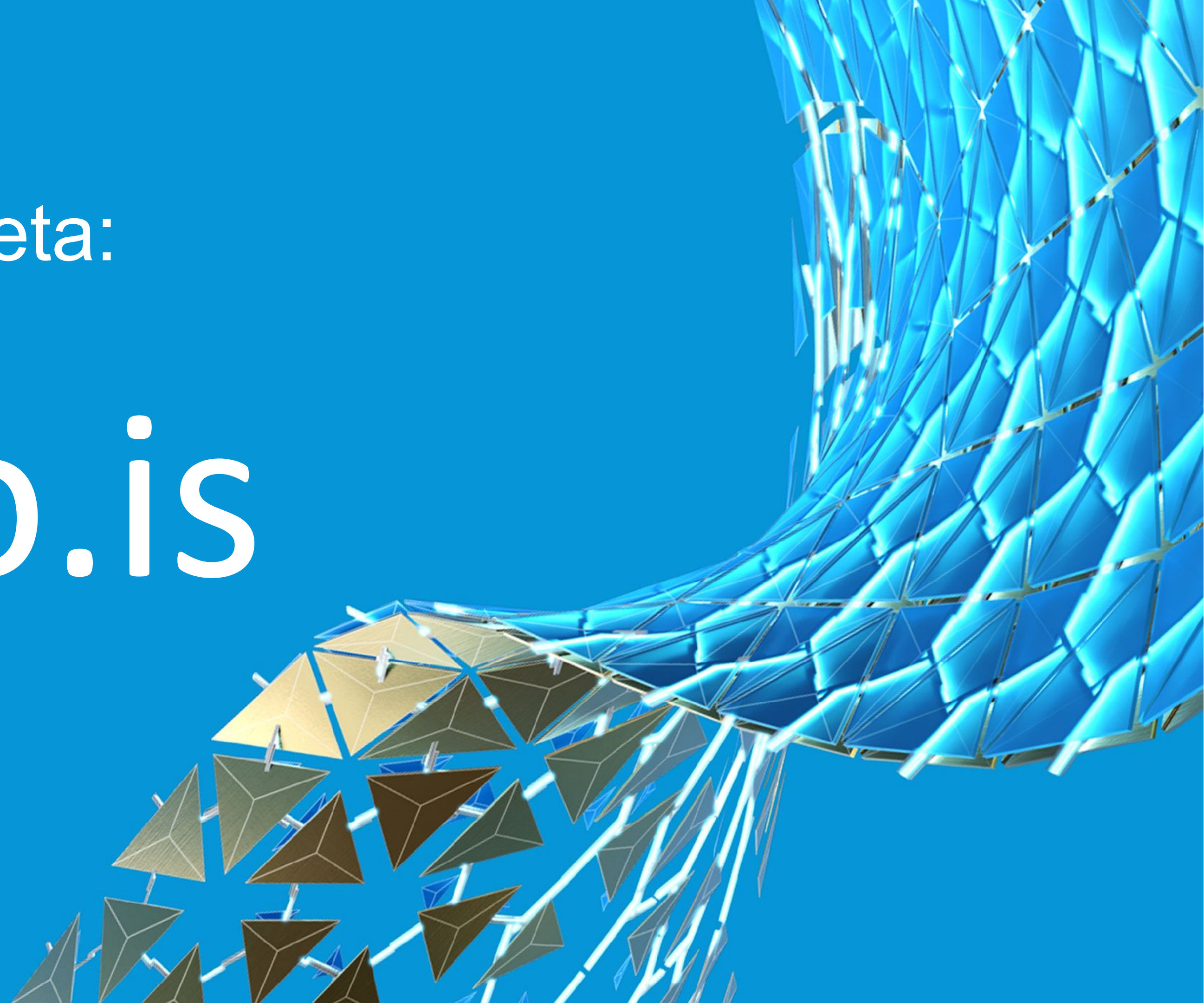
hilmar

michael

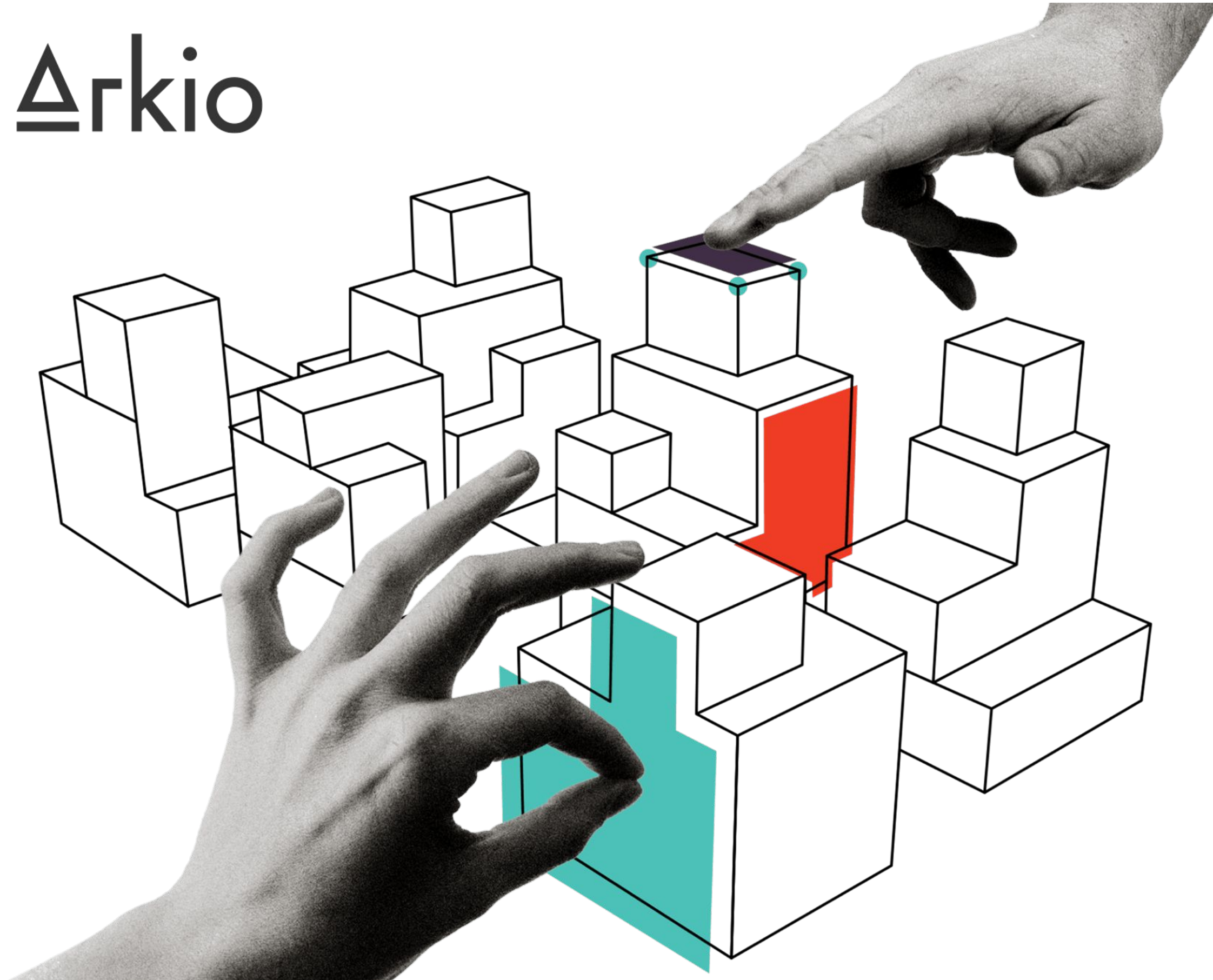
johan

Try out the beta:

arkio.is



Δrkio



Questions?

Comments in the class page (**AS469144**)

Join us in the **Forge Answer Bar**



@ArkioHQ

@AutodeskForge



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