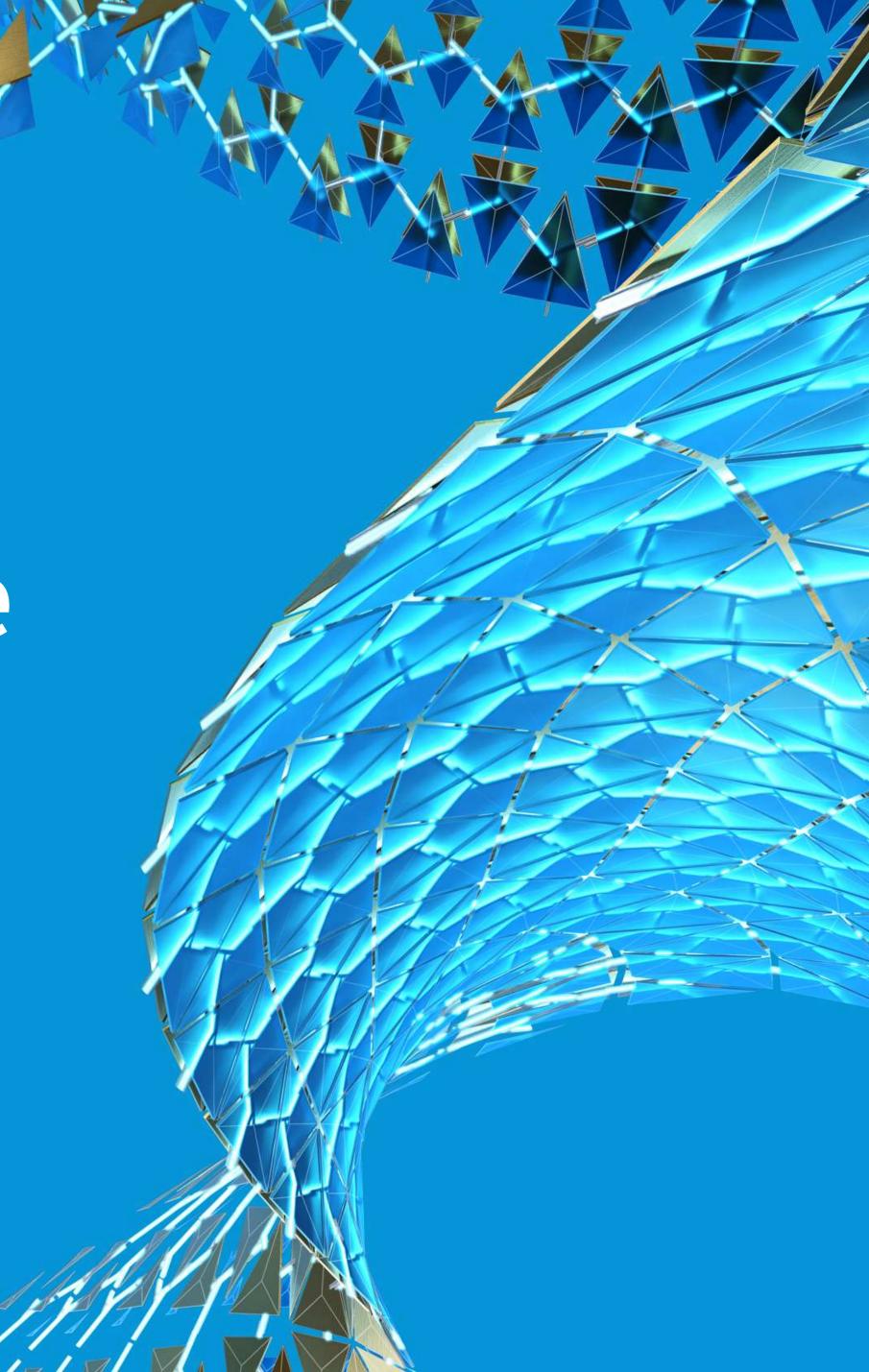


Digital and BIM: Building a Better and More Sustainable World

Emmanuel Di Giacomo

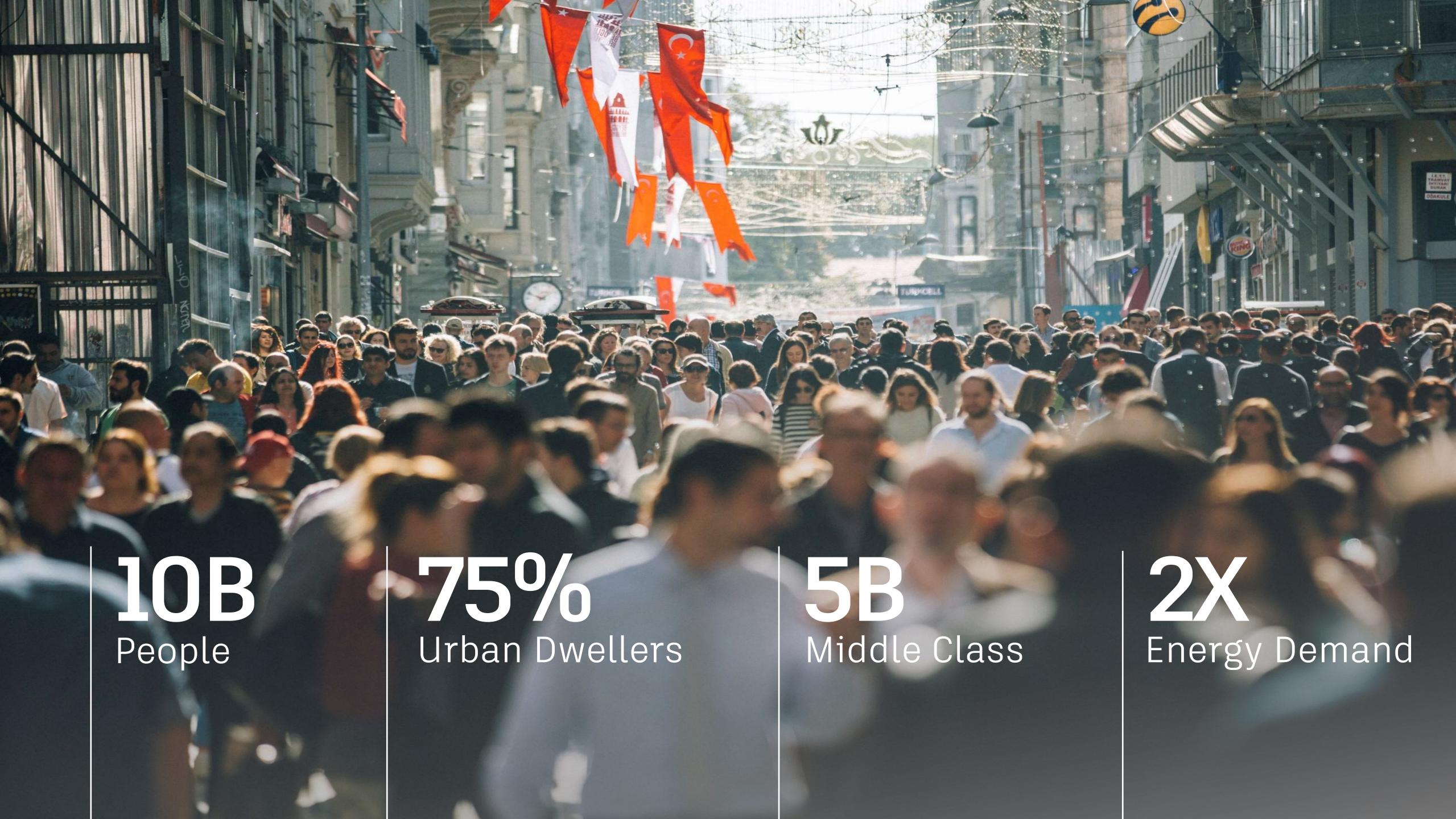
EMEA BIM Ecosystem Evangelist & Architect | @digiacomoemma

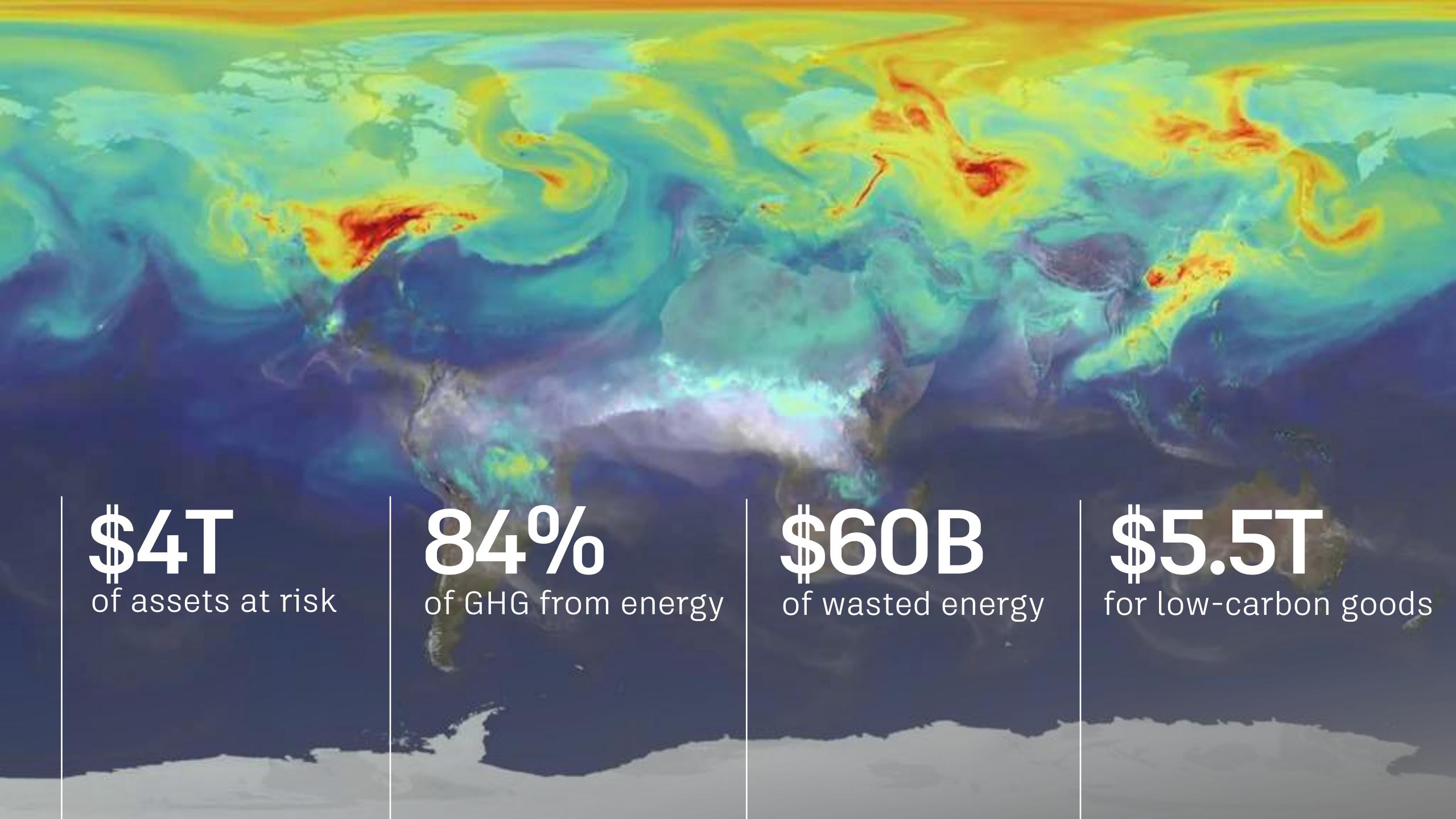












We can address the challenges of climate change through better building design. Autodesk is here to make that possible.

A critical need, and a huge business opportunity, for a net-positive, carbonneutral built environment lies ahead.



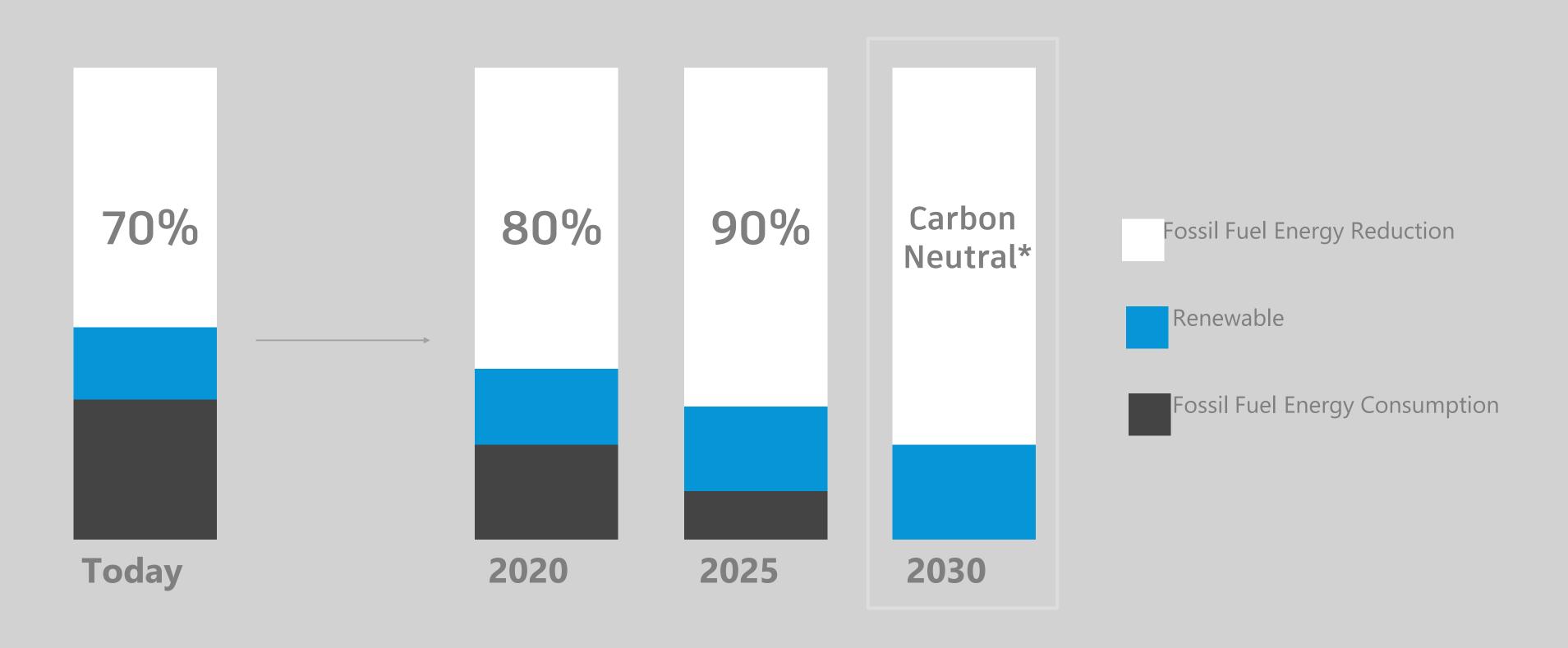
Meeting Your Customers' Needs

- Save money reduce
 operational costs over the
 life of the building
- Save time faster design process getting to best design
- Achieve sustainability & climate goals – reduce their footprint, promote leadership



Addressing climate change means designing a carbon-neutral built environment by 2030







Macro Trends The Future of Design













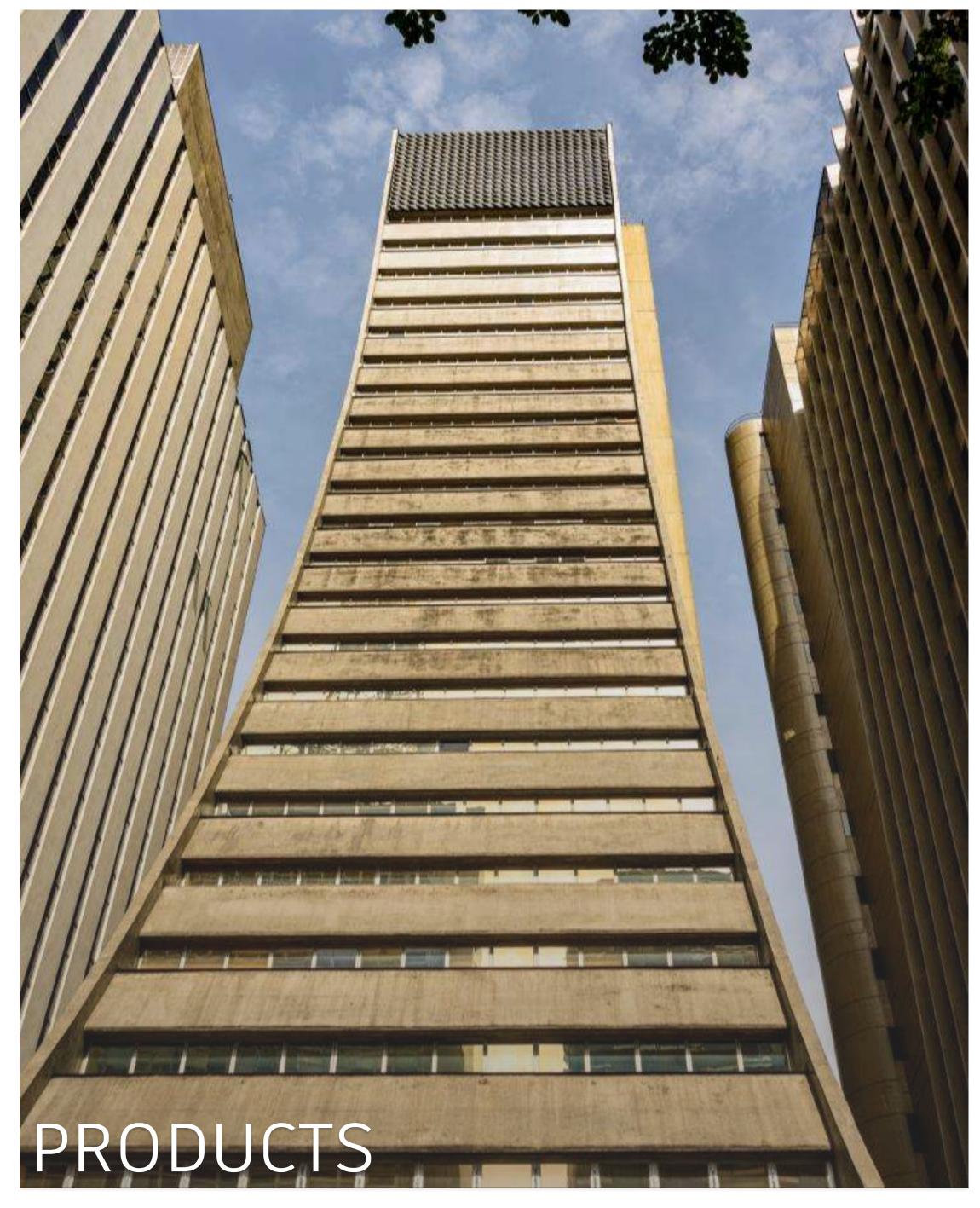








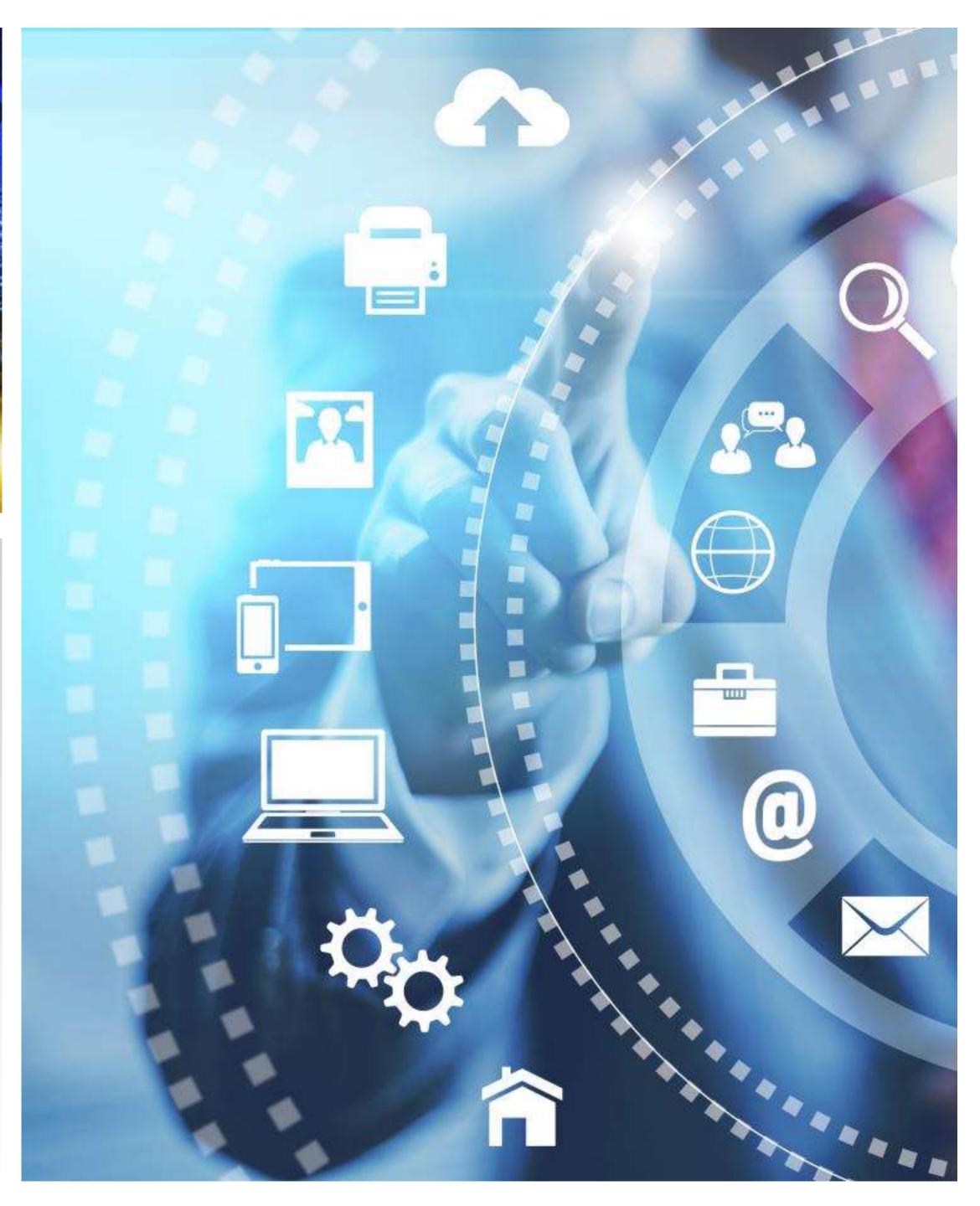




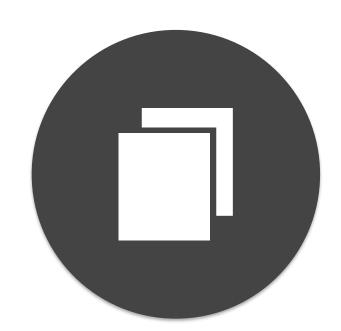








The 3 eras of disruption

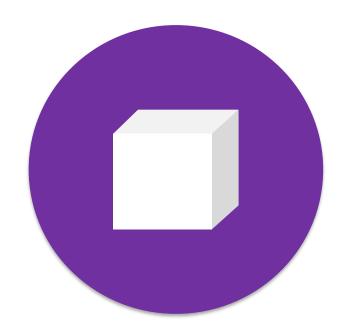


1st Documentation
(Reproduction)



2D CAD



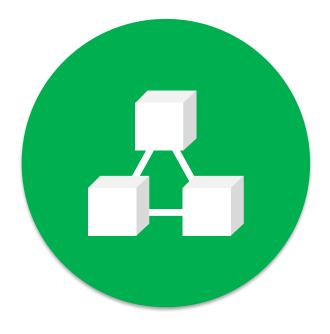


2nd
Optimization
(BIM)



BIM





3rd
Connectivity
(various BIM)



BIM





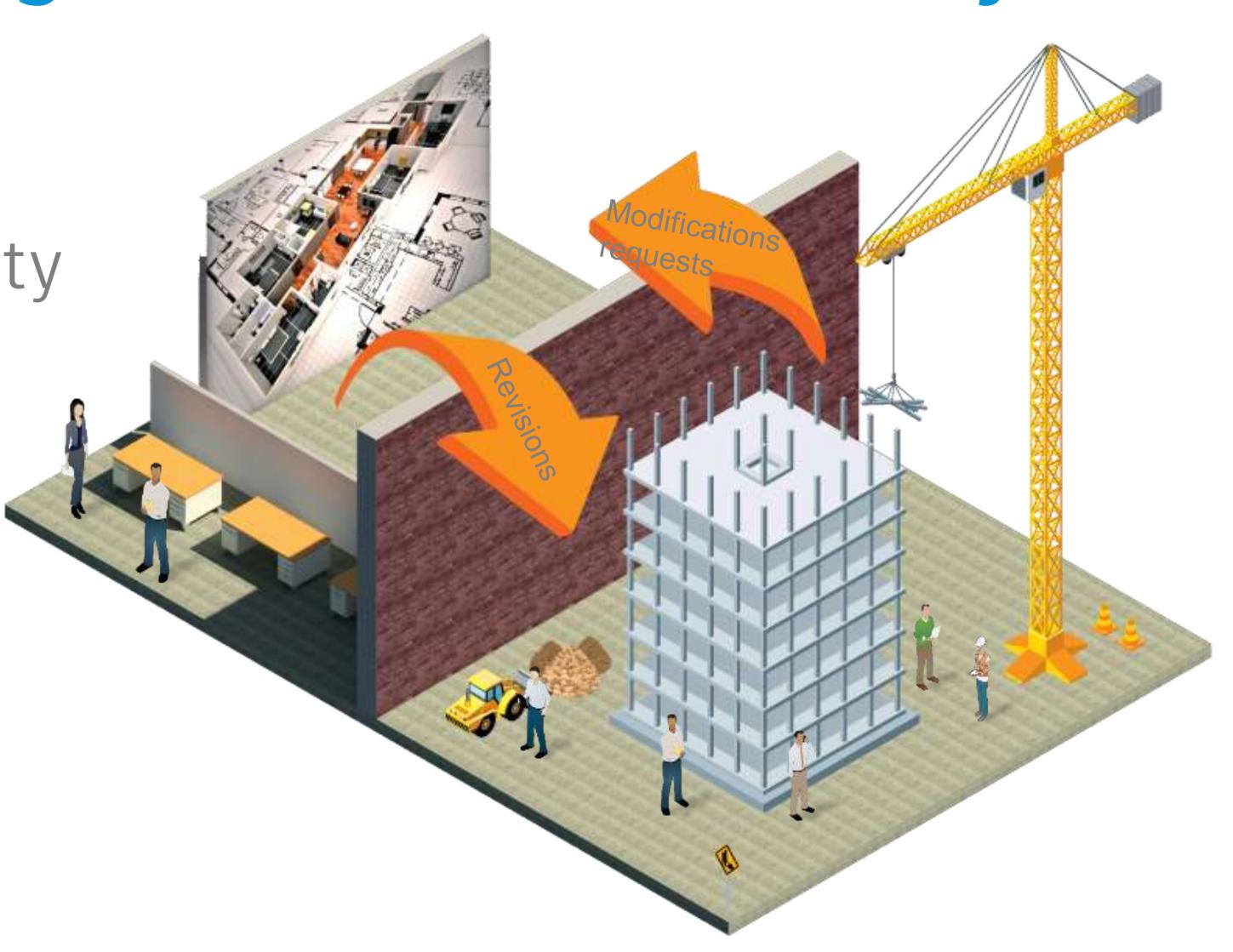
The actual challenges in the AEC Industry

Shared data

Documentation continuity

Project delivery



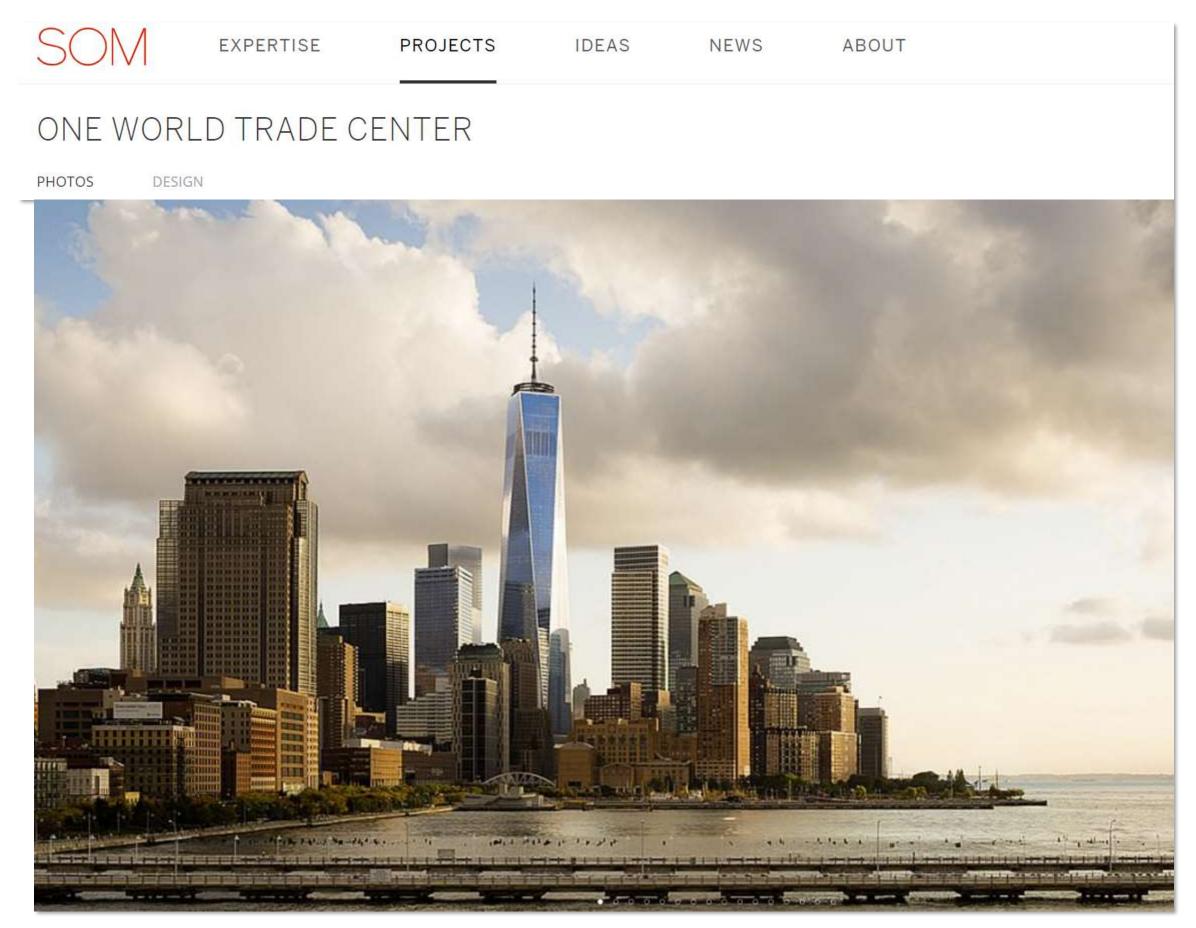


Catalysts - Process are evolving





Exceptional & iconic projects



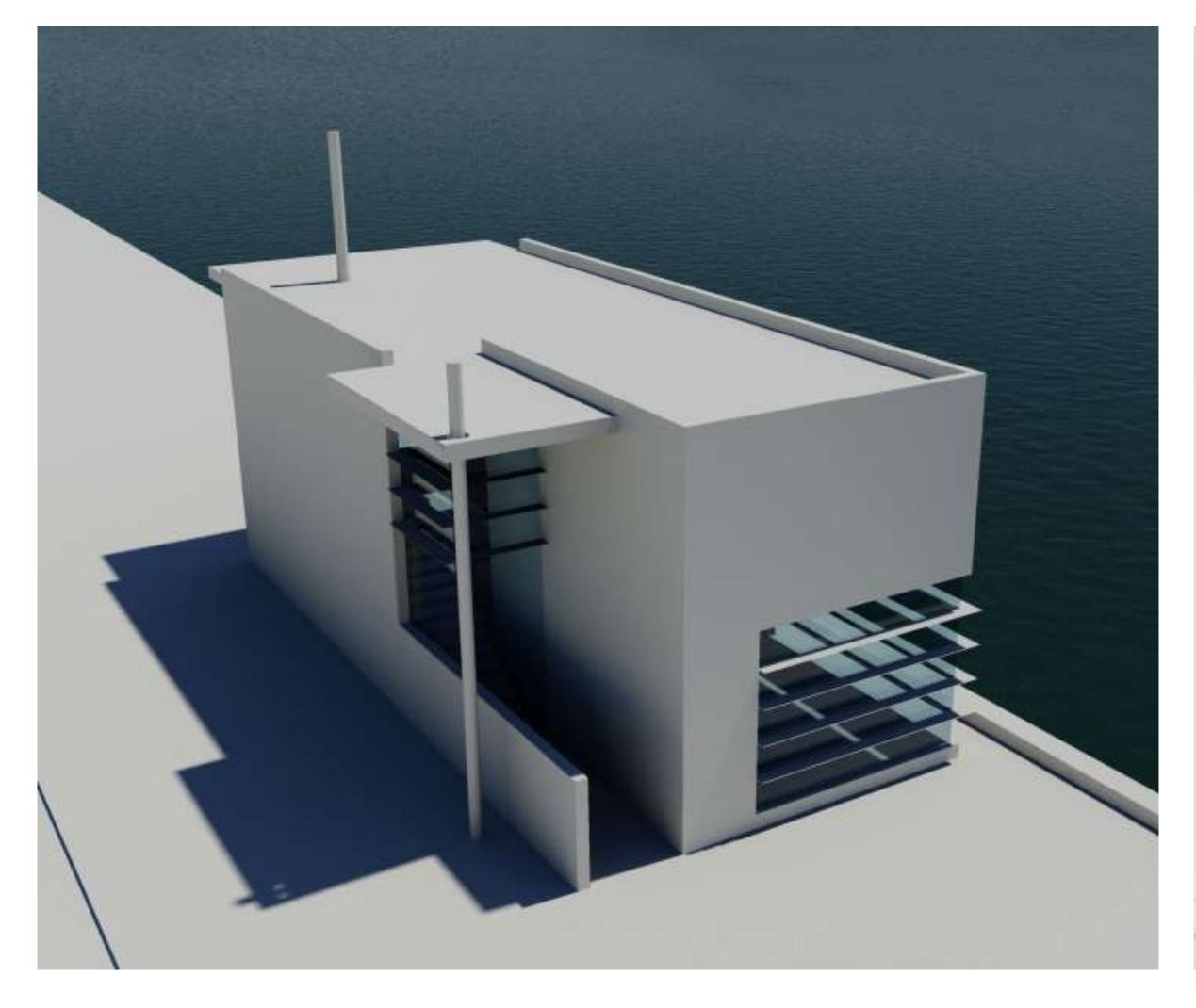
© SOM - One World Trade Center



© Gensler Architects – Shanghai Tower

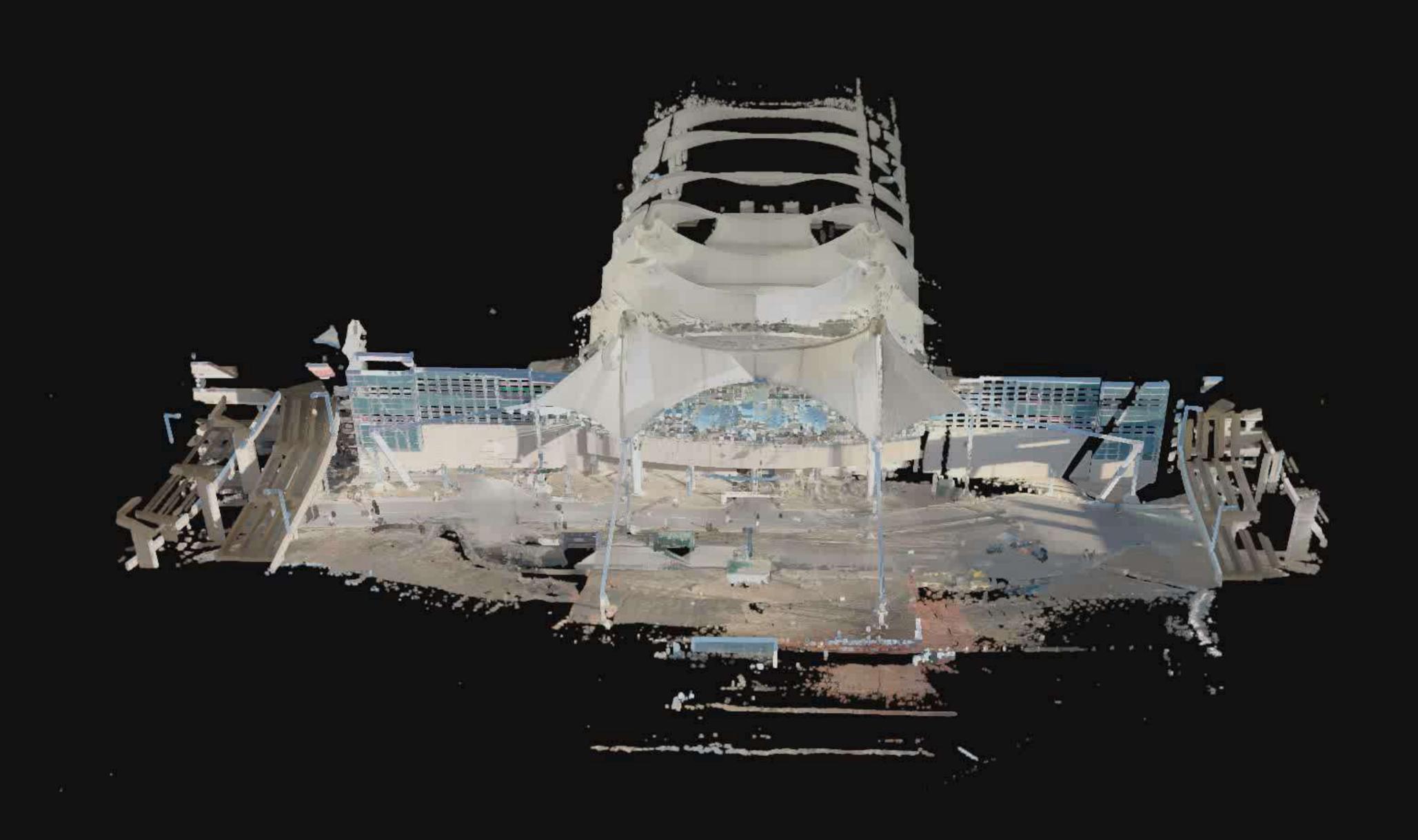


Usual and simple projects...

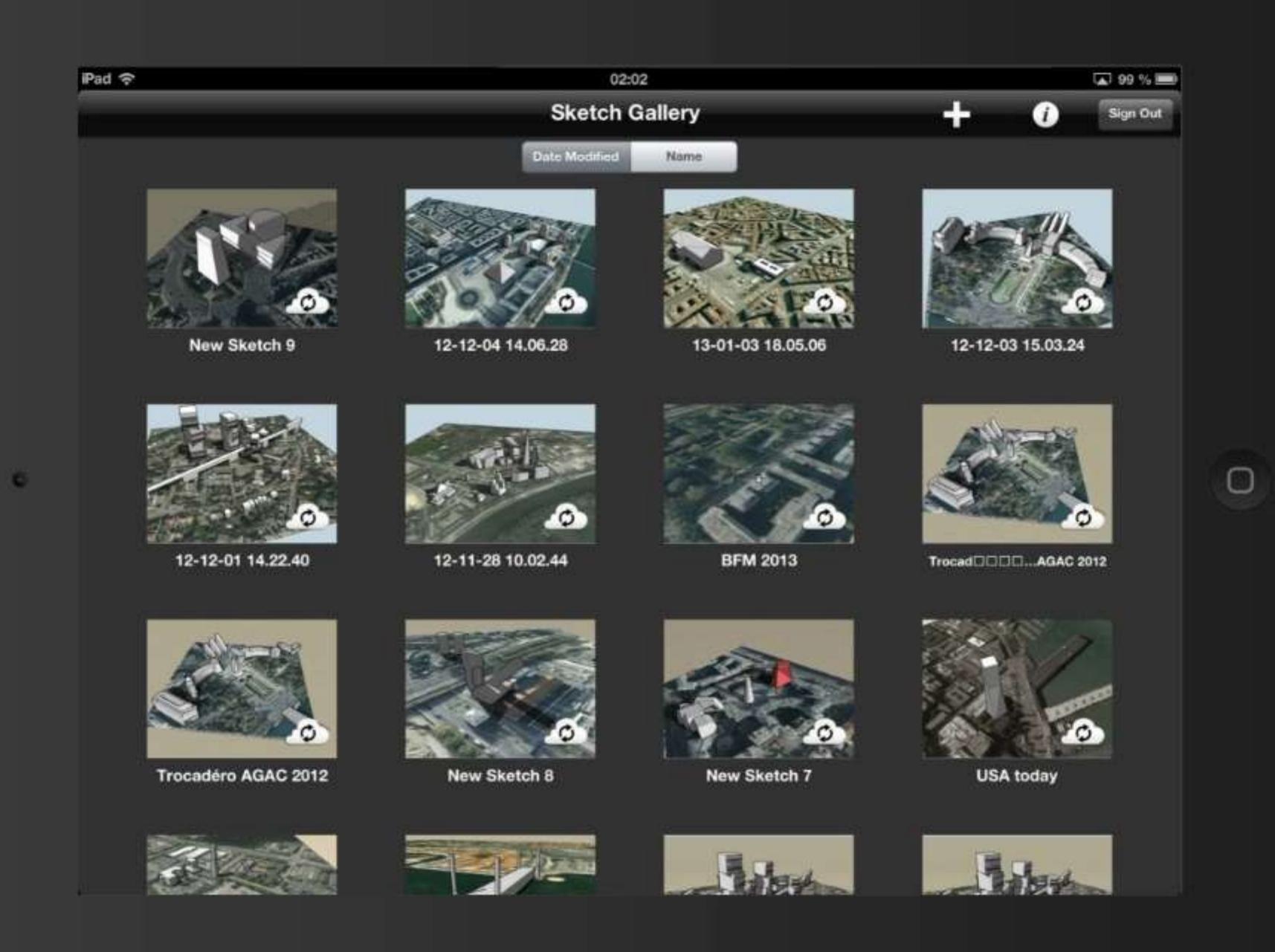


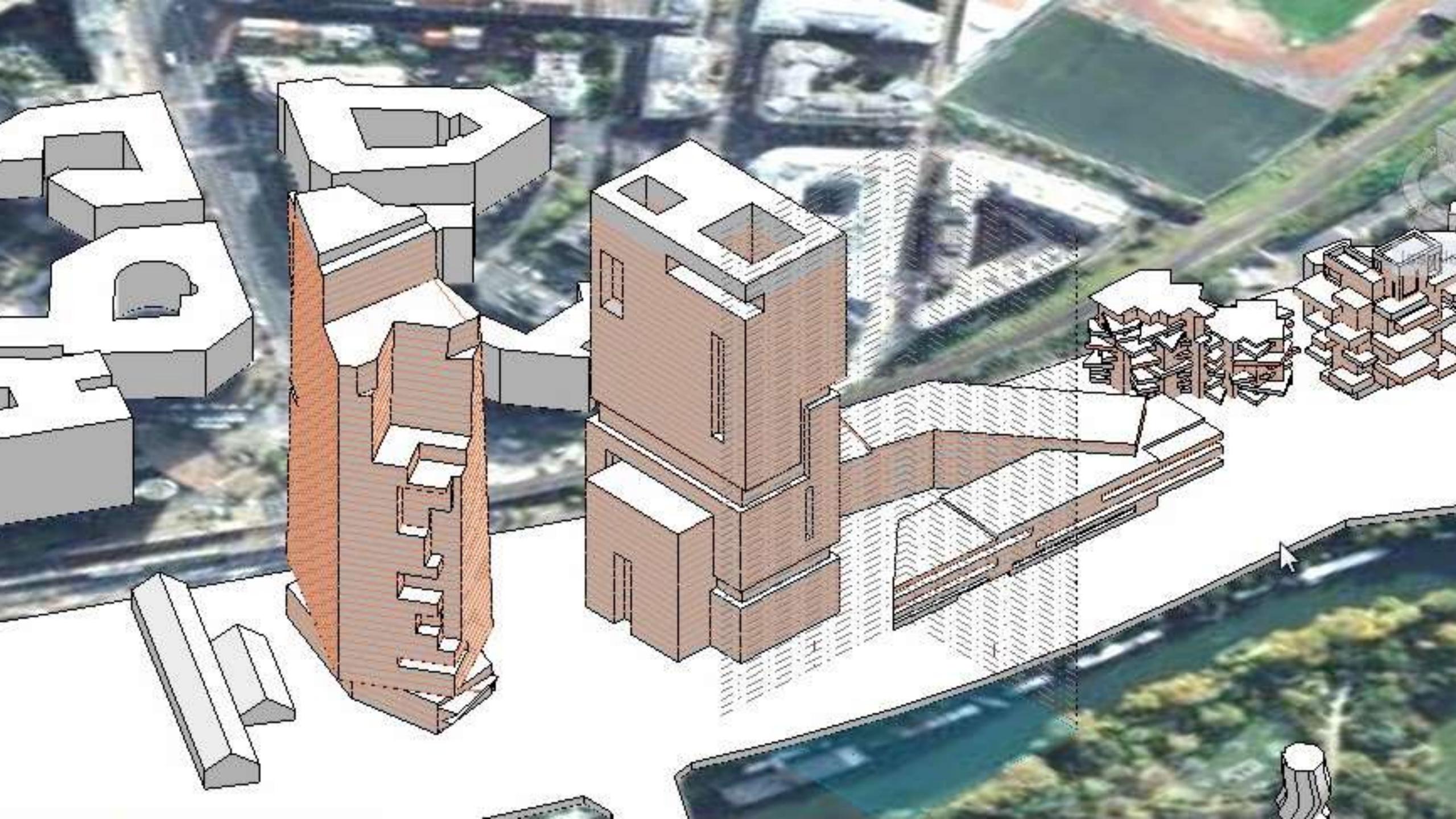


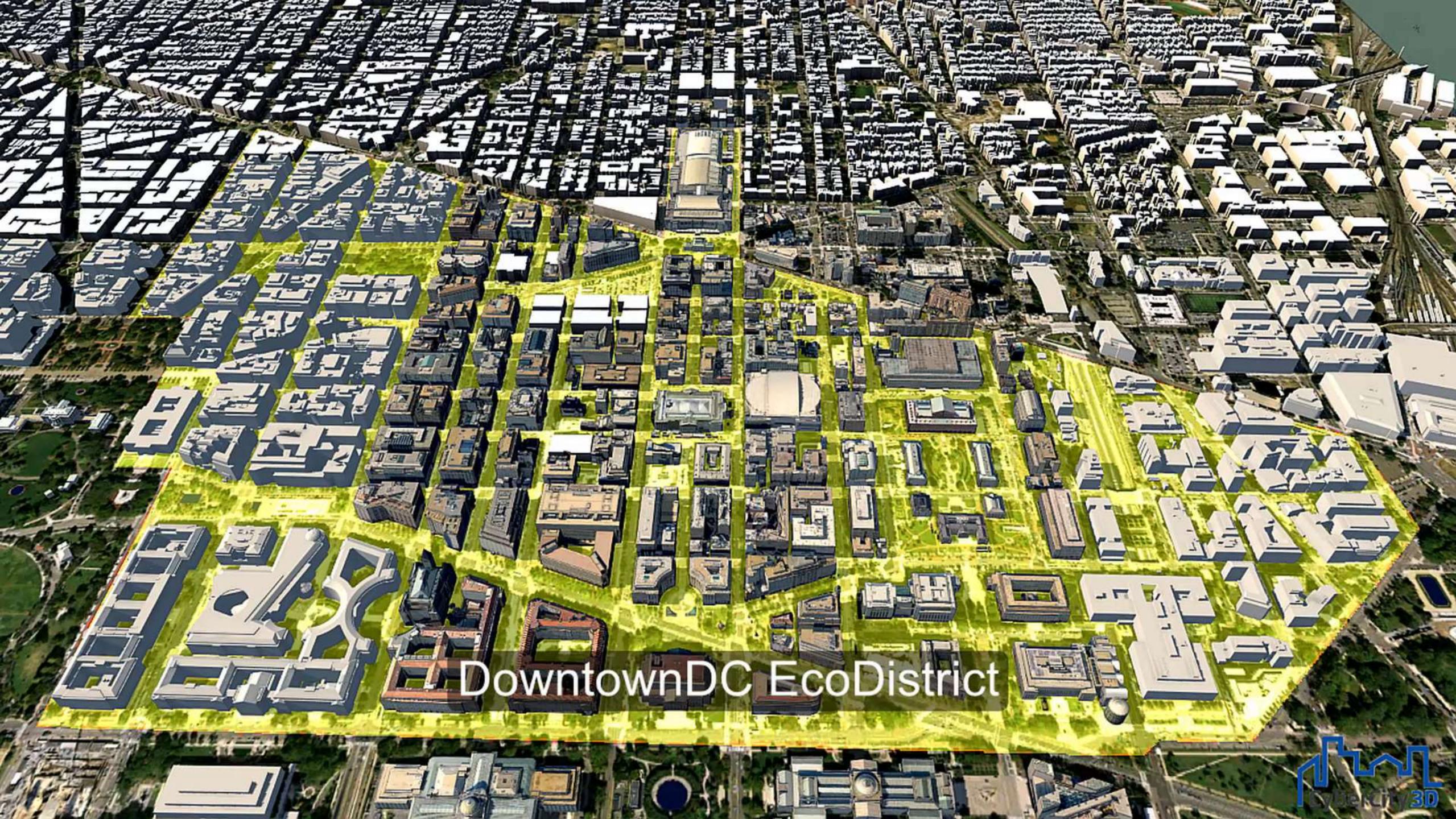








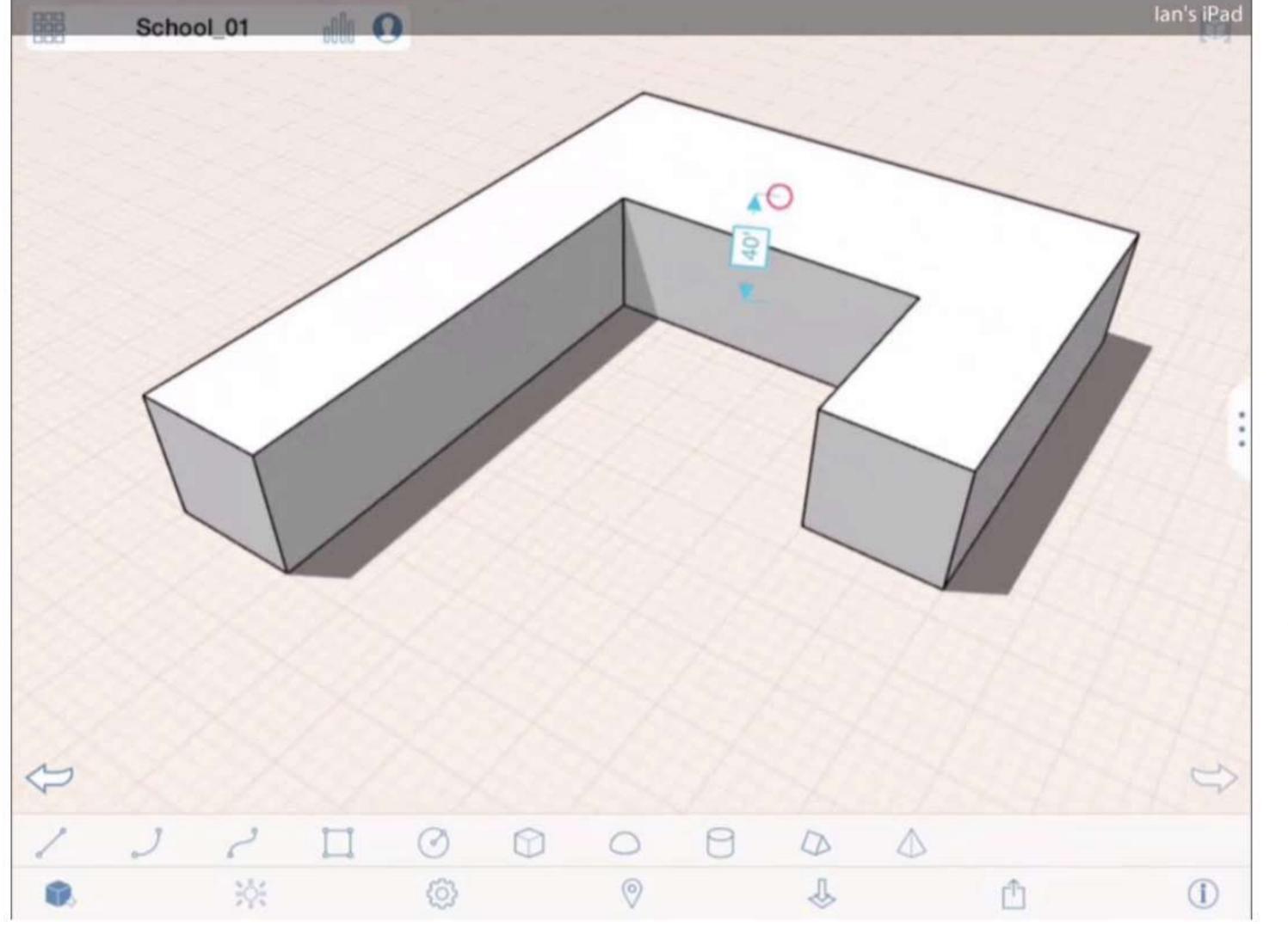






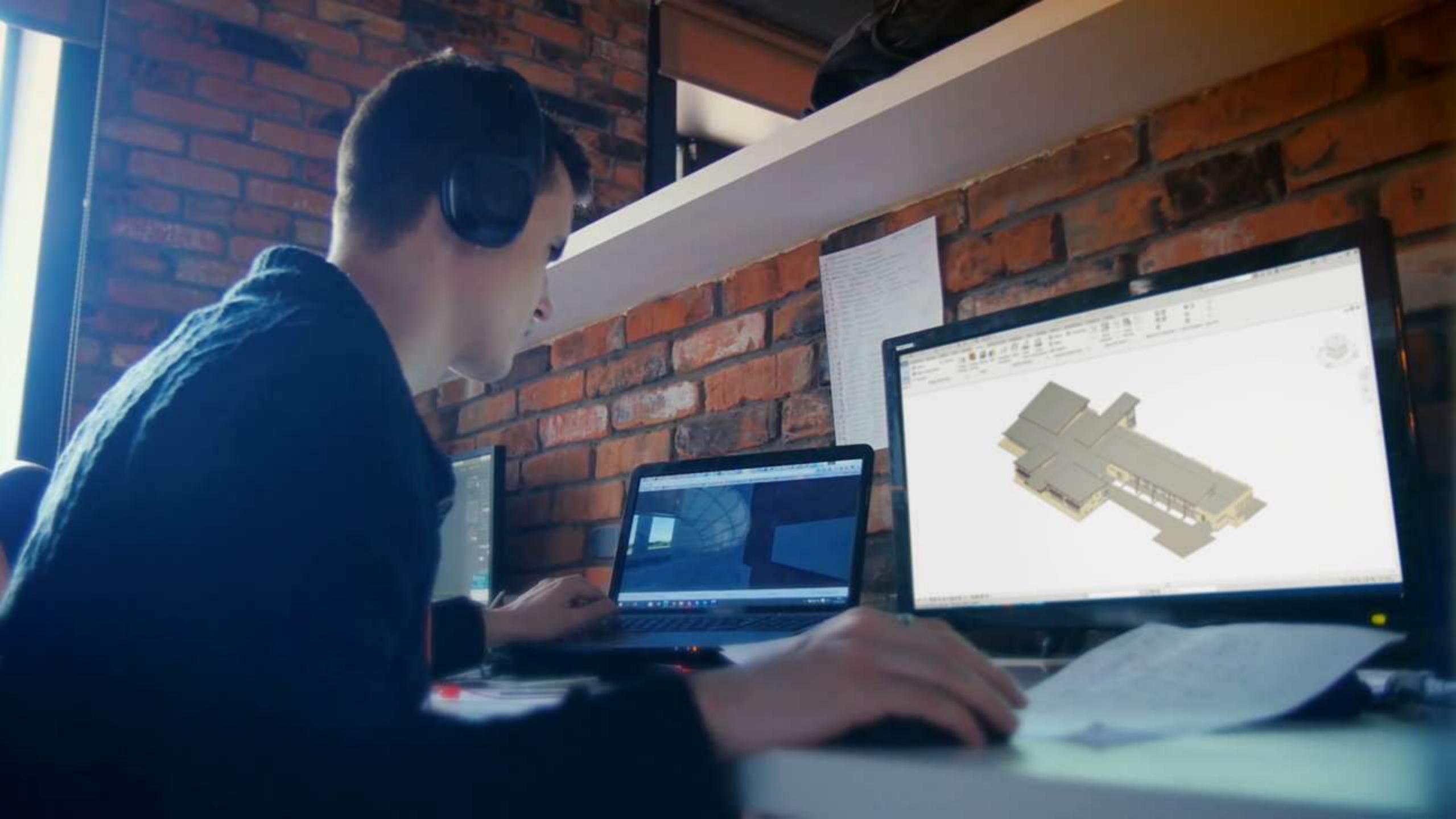




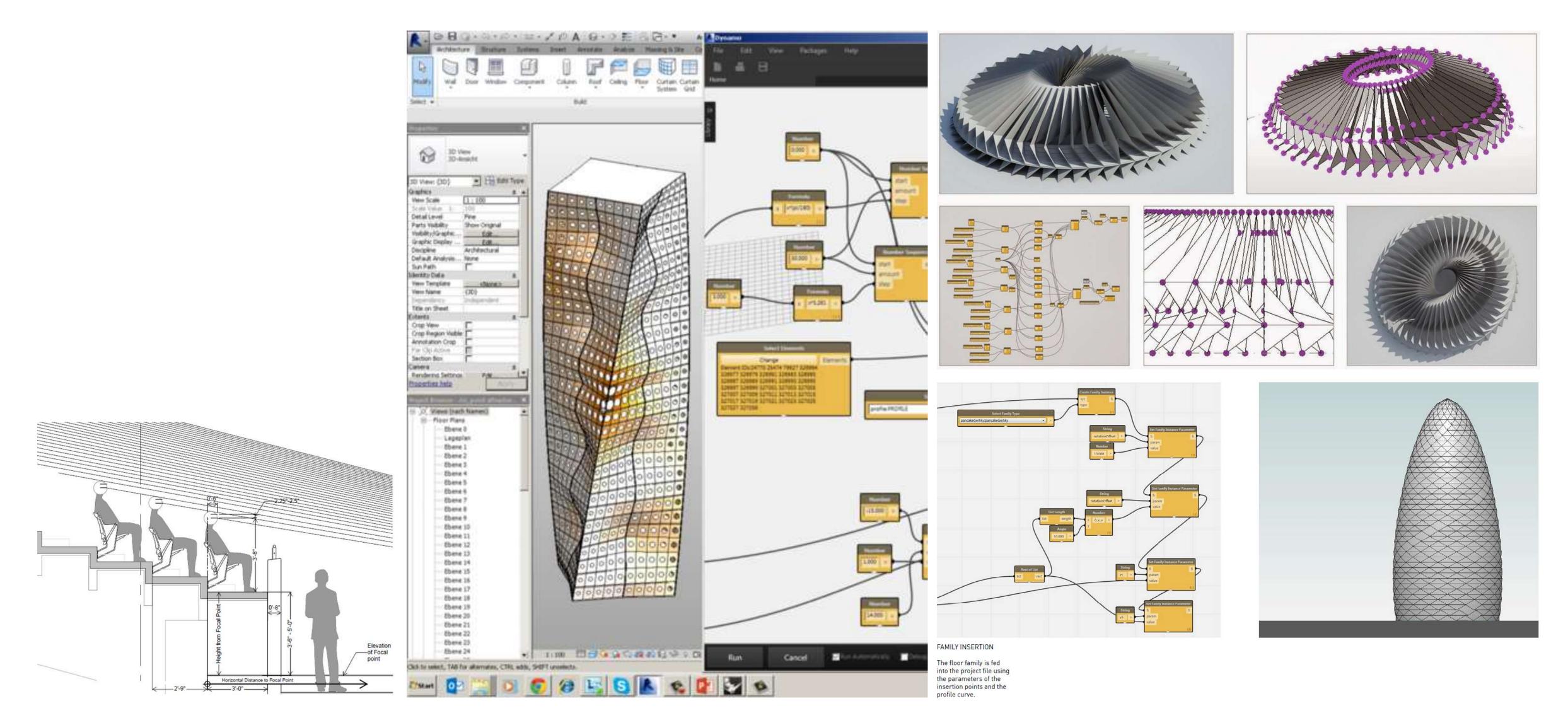




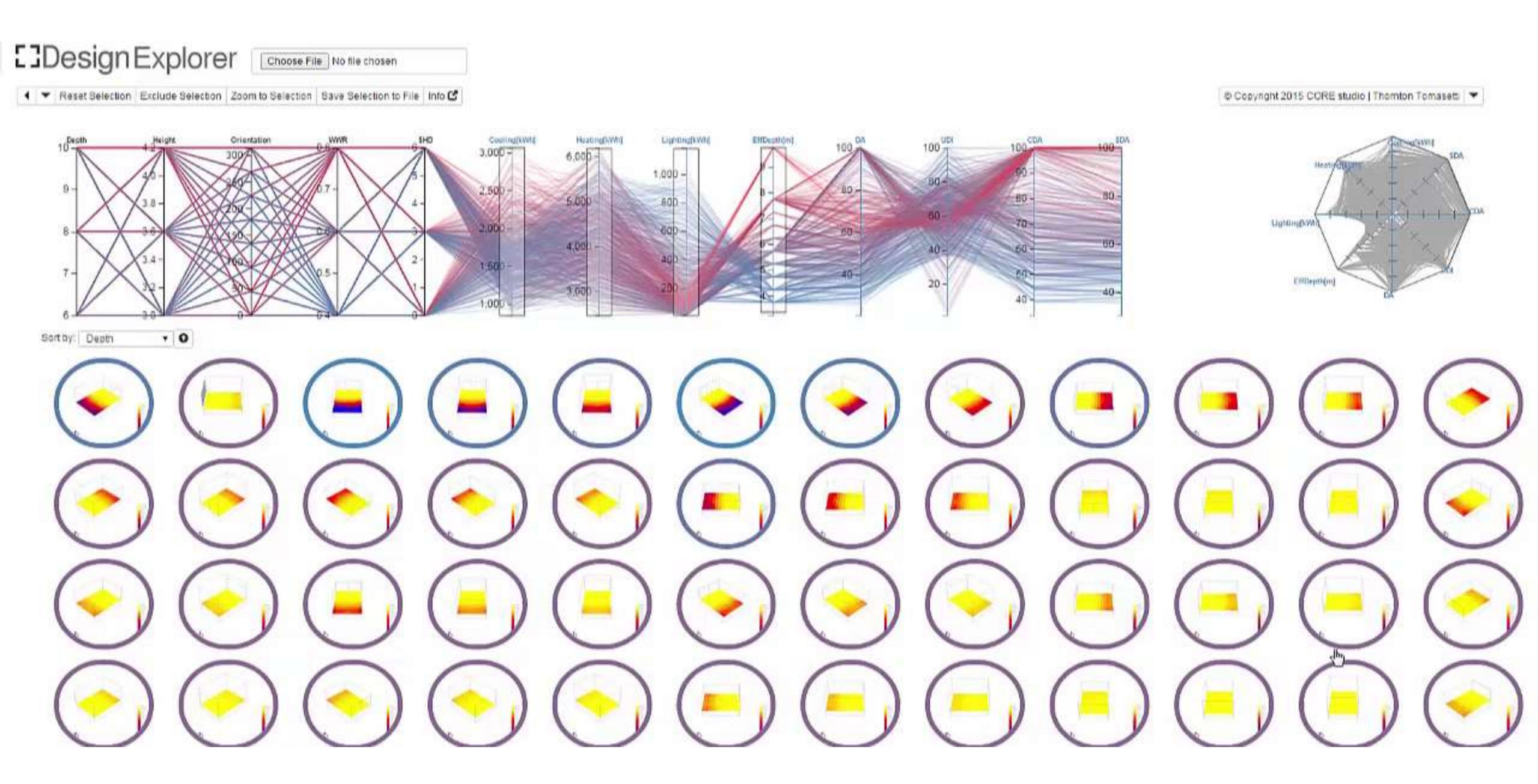




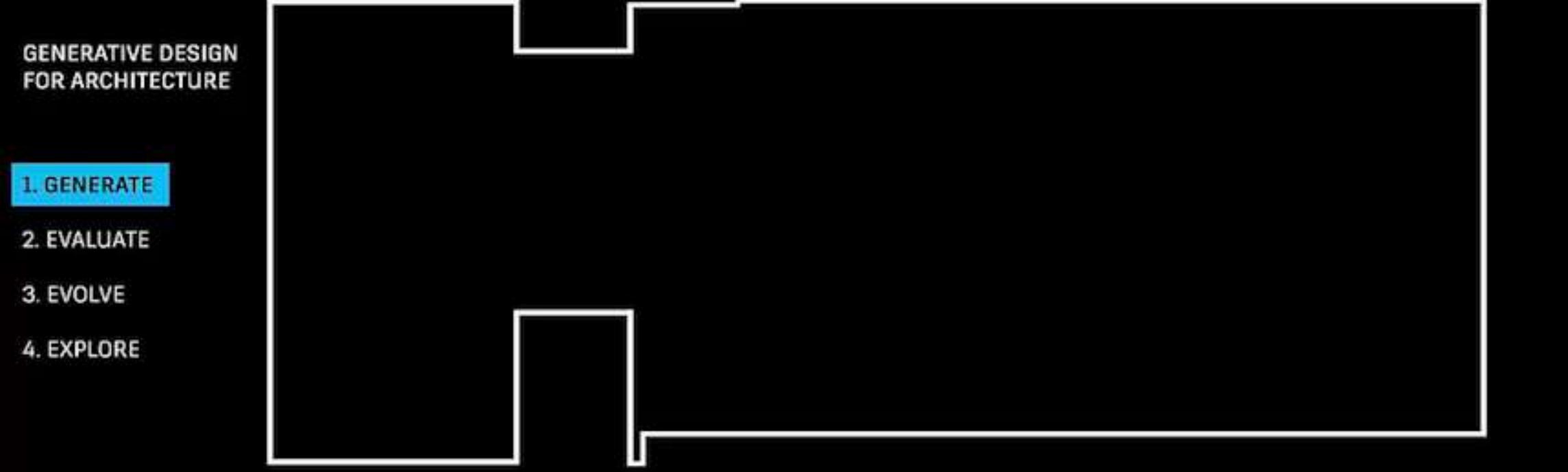
Generative design to go further



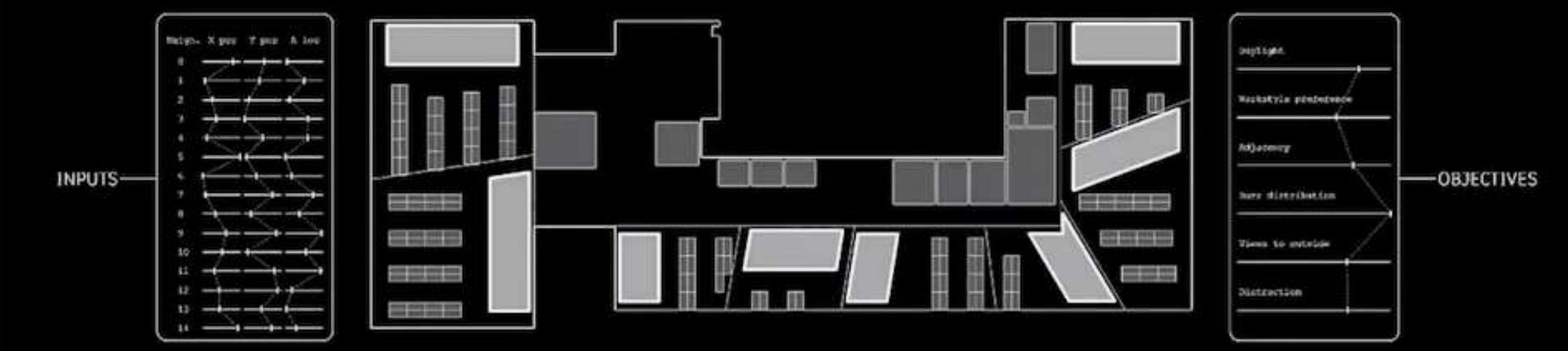






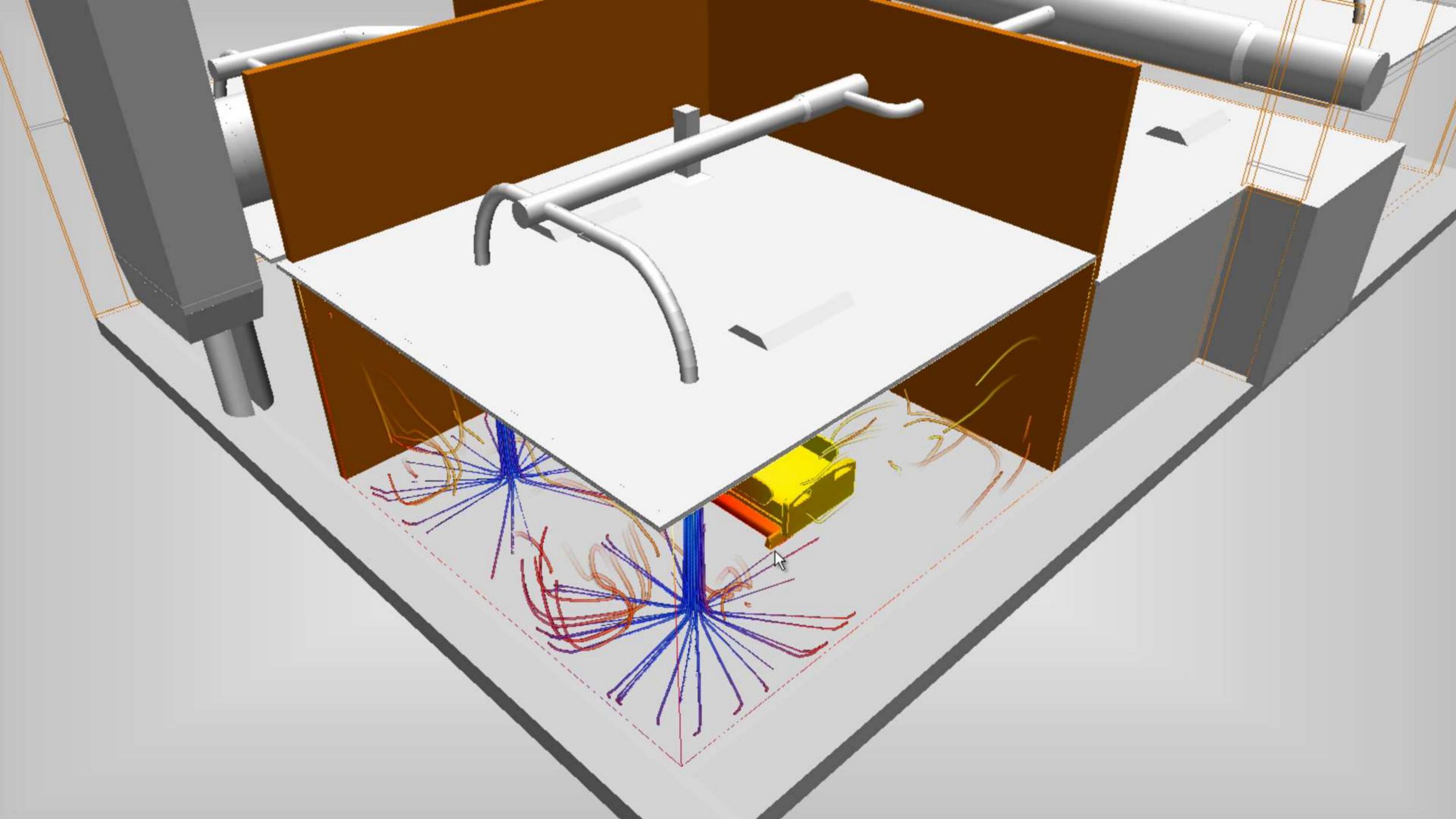


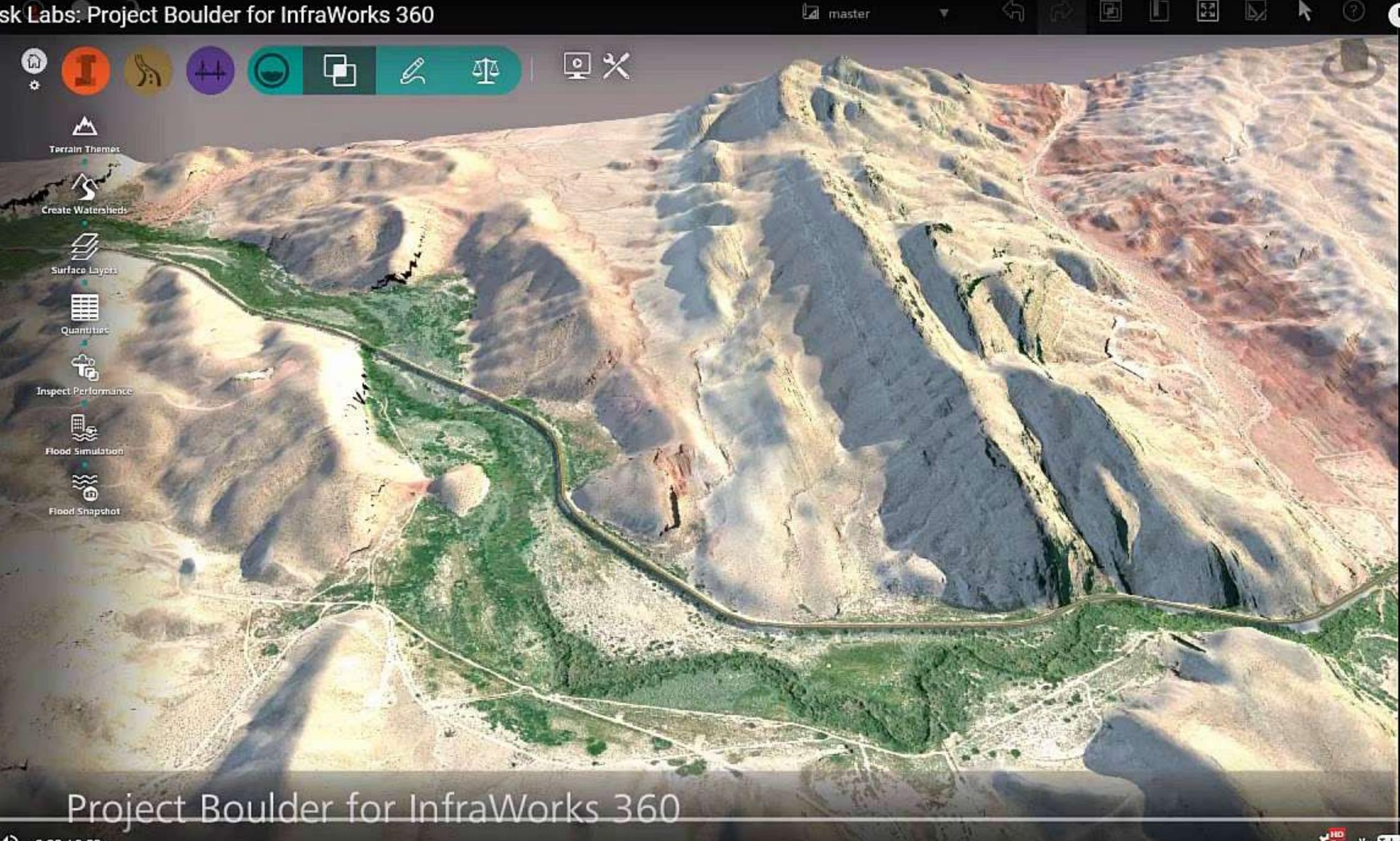
1E: This geometric system can generate thousands of design options by varying a few input parameters.





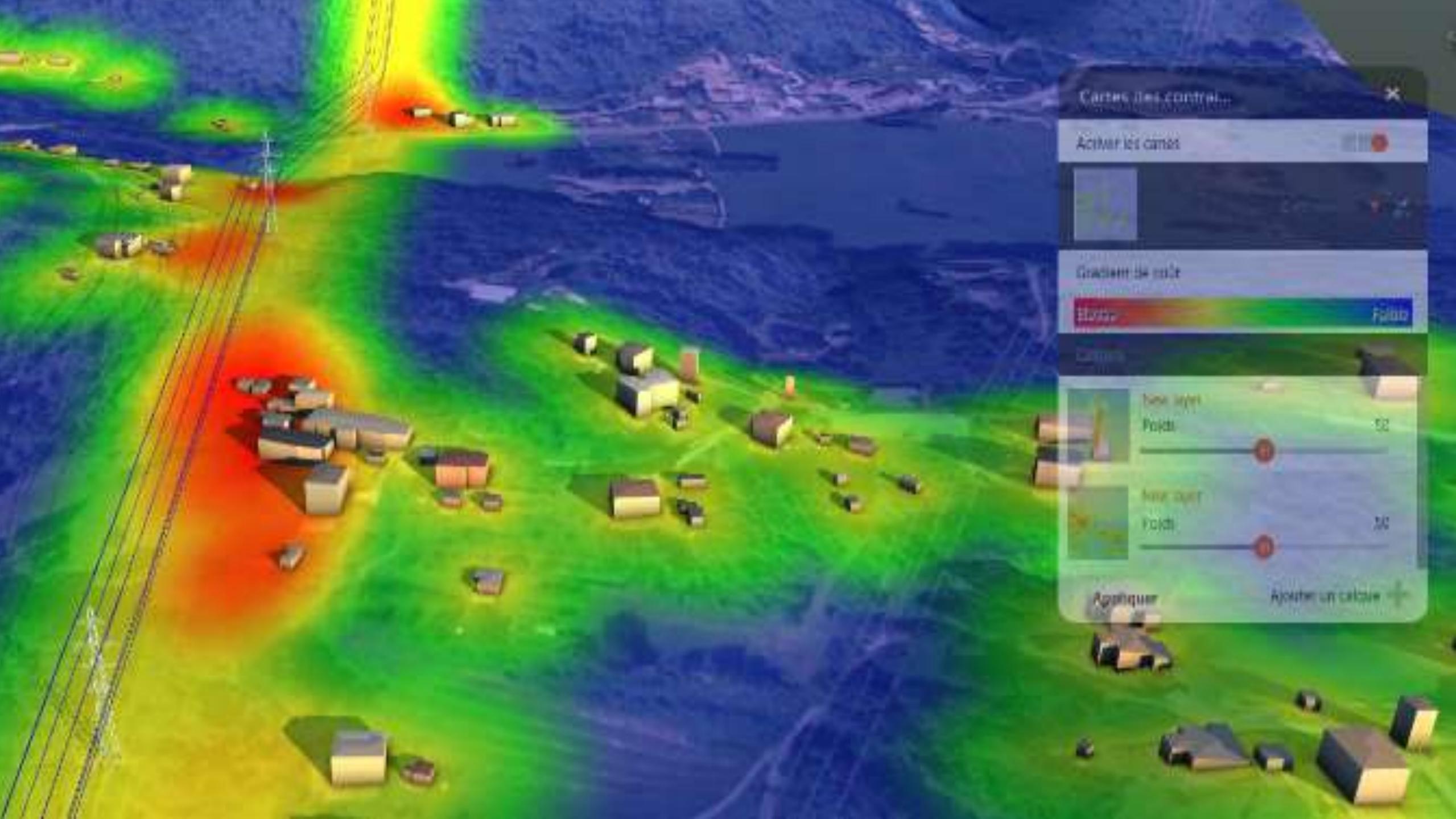










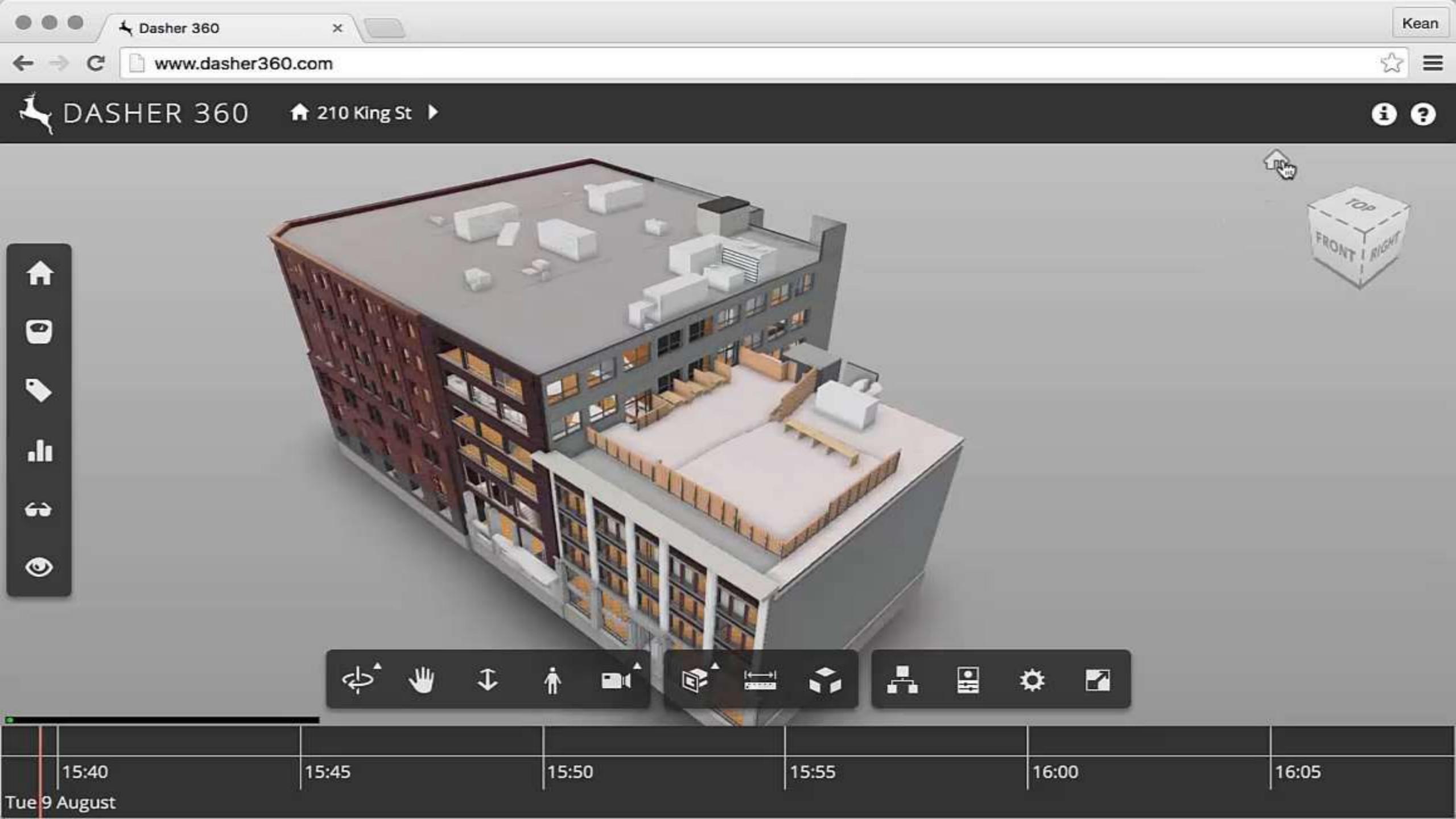












Case Study: CTA

Sustainability and Architectural Design Operating Side by Side

"Insight lets just about anybody into the energy modeling world, without having to know complex technical systems."

Needs attribution

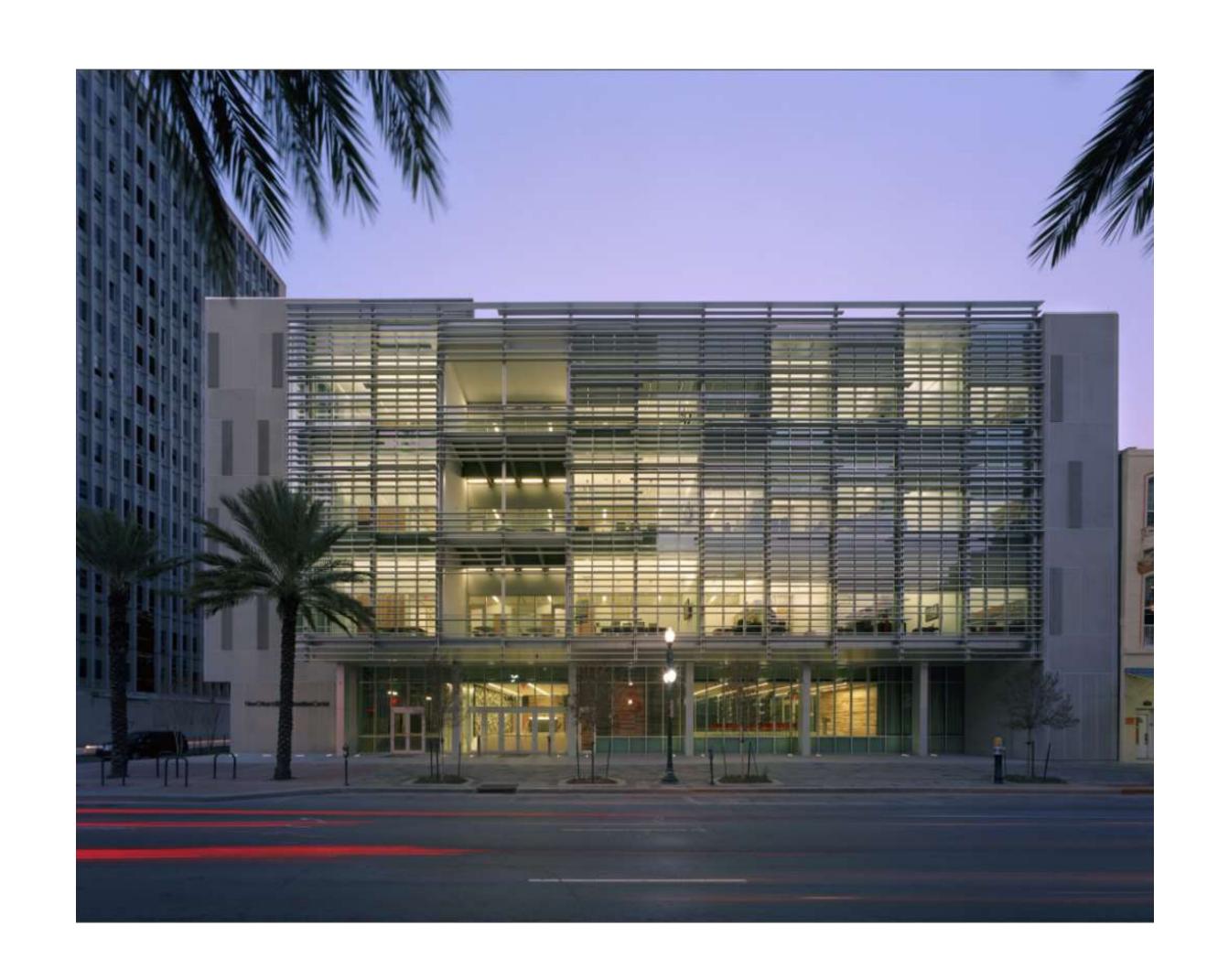


Case Study: Eskew+Dumez+Ripple

High Design Meets High Performance

"Insight 360 gets architects interested in the intersection between performance and aesthetics," says Dunn. "That not only leads to good design, but also high performance, low energy buildings, and good indoor environments."

-Jacob Dunn



Case Study: US Air Force Academy

Energy savings for a modern masterpiece

The U.S. Air Force Academy prioritize retrofit opportunities using Insight 360 energy and daylighting performance analysis.







Autodesk and the Autodesk logo are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, product names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

© 2020 Autodesk. All rights reserved.

