



Autodesk **AI** **& Forma** **Industry Cloud**

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Solutions Engineer AECO – Northern Europe

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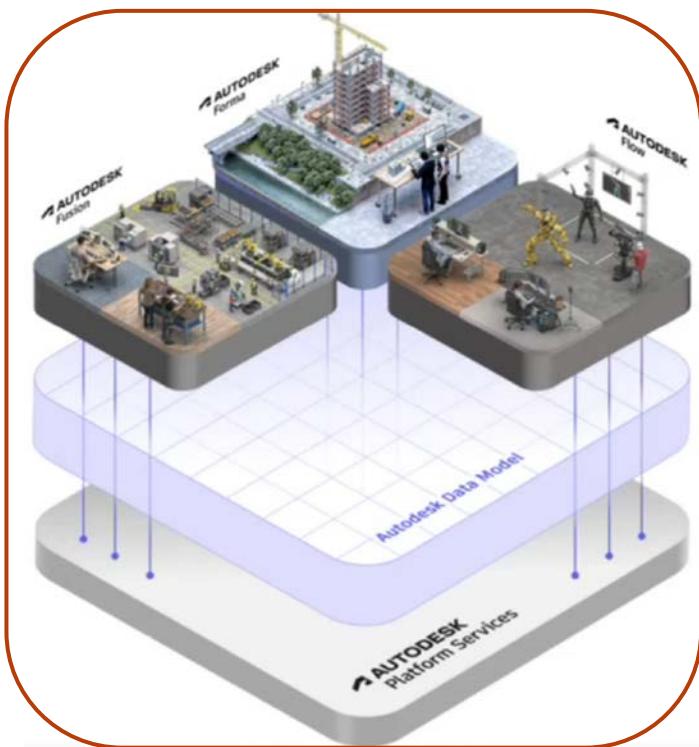
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Autodesk **Forma** Industry Cloud



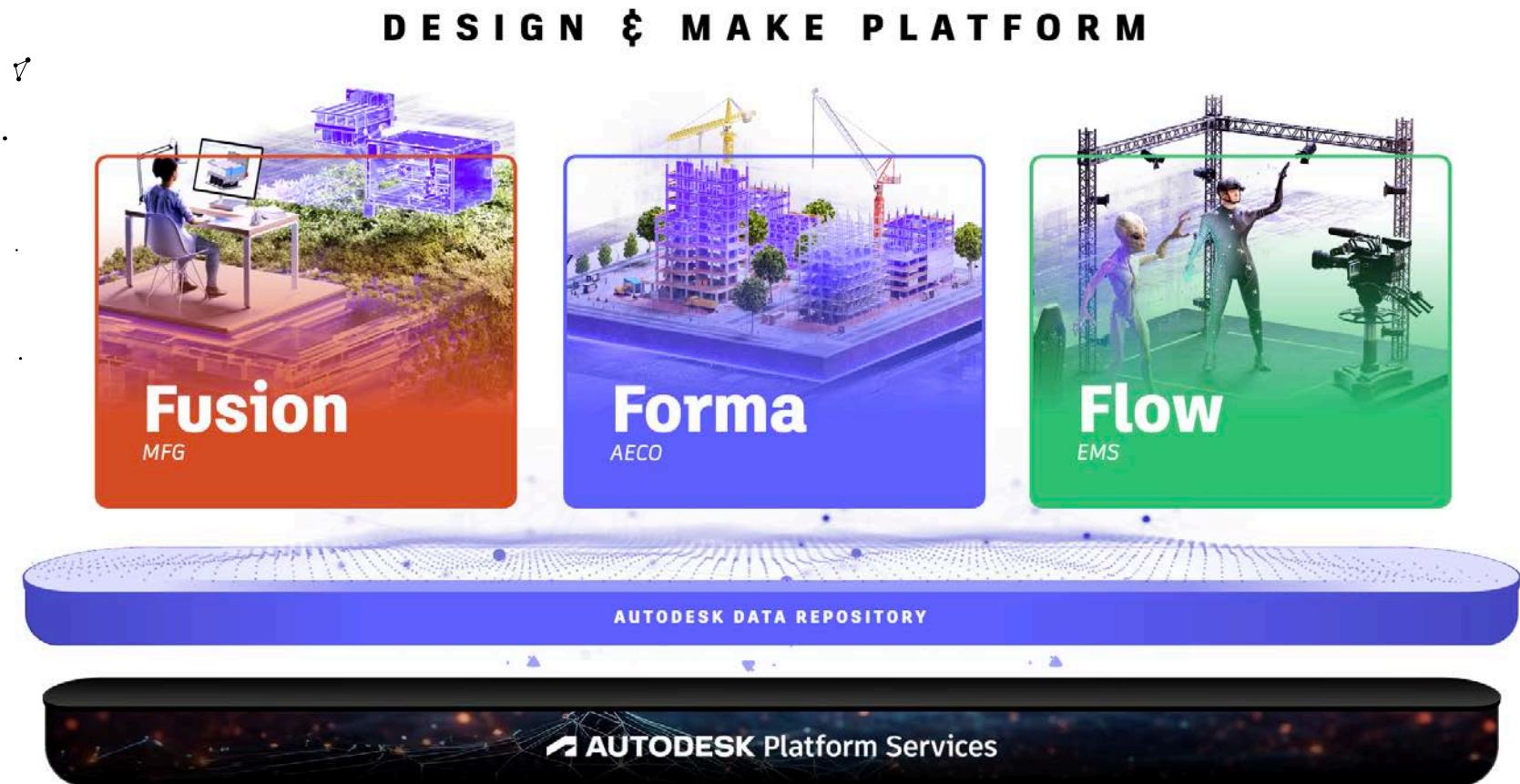
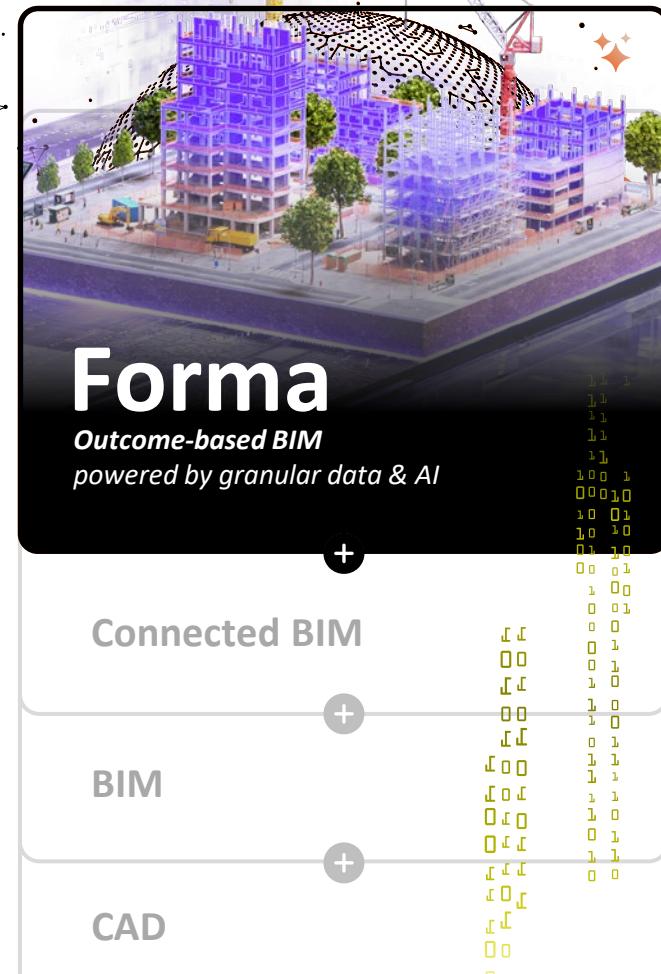
Desktop



Cloud



Autodesk Forma



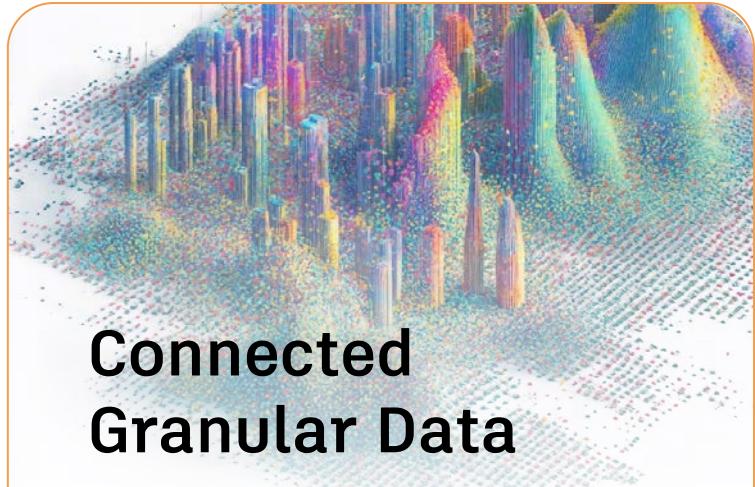
Forma's vision is to support the full project lifecycle



Autodesk Forma is the first comprehensive industry cloud for architects, engineers, contractors, and owners.

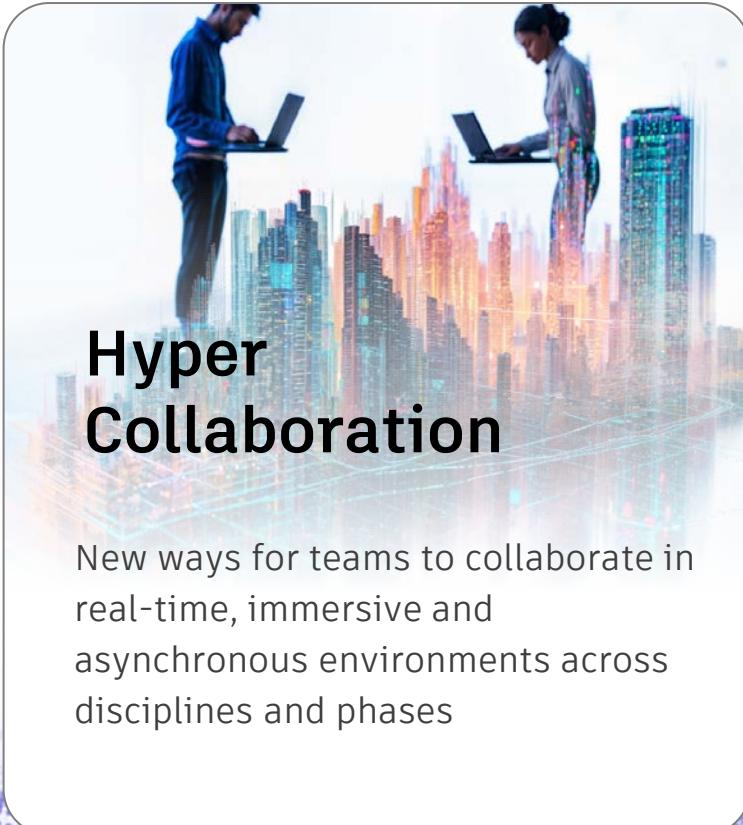
Forma is powered by
 Autodesk Platform Services

WHAT IS DIFFERENT ABOUT FORMA



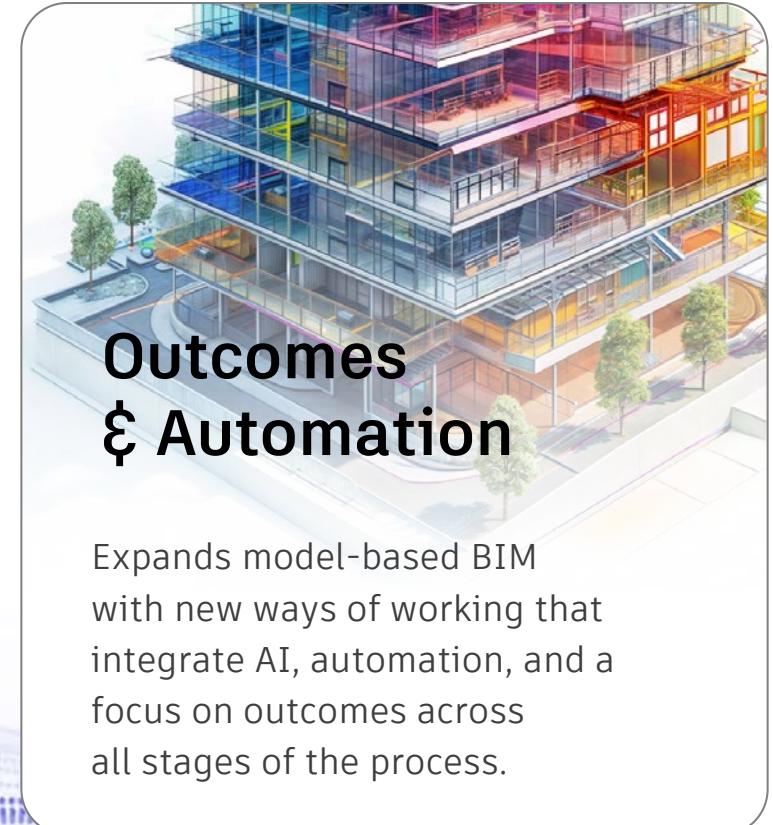
Connected Granular Data

Replaces static files with dynamic, accessible information – unlocking greater transparency, control, and real-time insight across the project lifecycle



Hyper Collaboration

New ways for teams to collaborate in real-time, immersive and asynchronous environments across disciplines and phases



Outcomes & Automation

Expands model-based BIM with new ways of working that integrate AI, automation, and a focus on outcomes across all stages of the process.

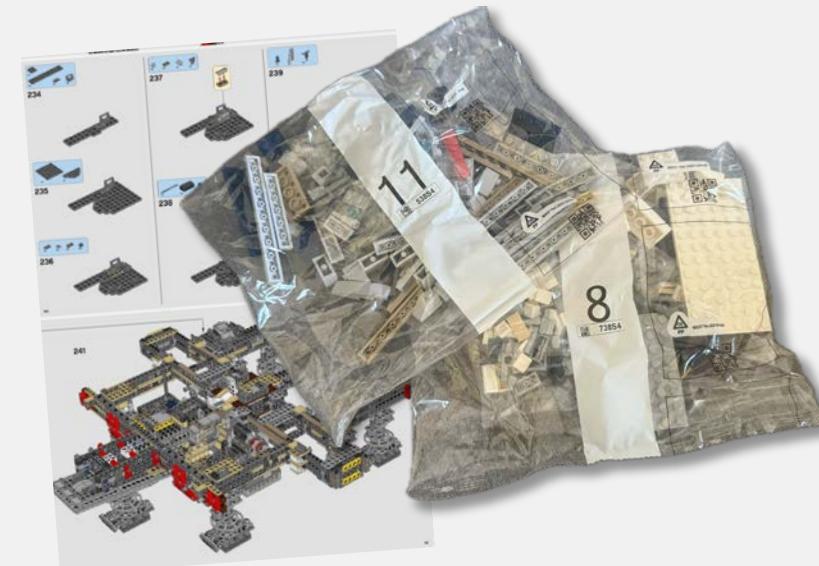
AI-powered

Enhance interoperability by using and sharing data instead of files

Files

vs

Data



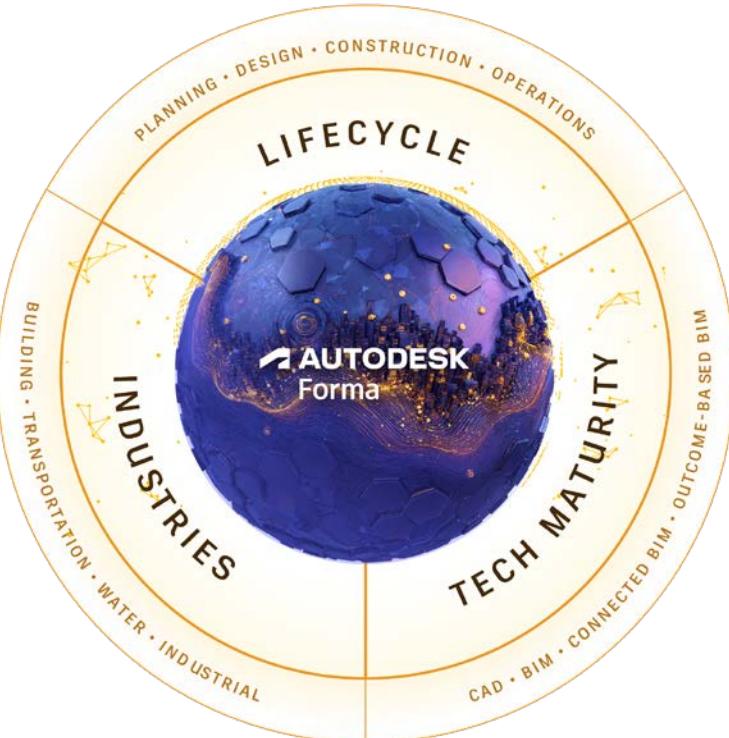
Realizing the Vision



 AUTODESK



How are we building Forma?



1

Expanding Docs as the Common Data Environment

2

Bringing ACC to Forma

3

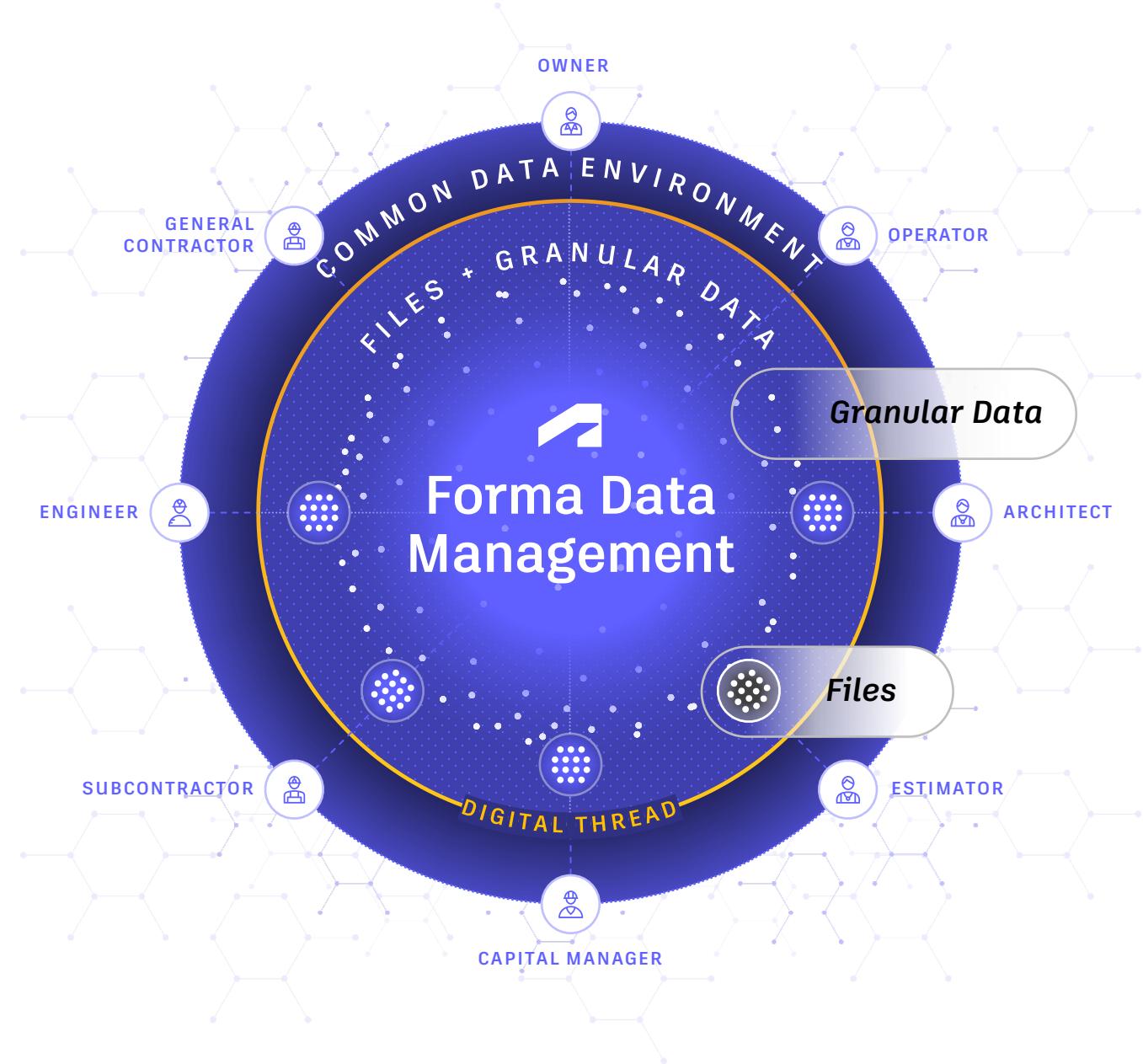
Expanding Forma's Outcome-Based Capabilities across Phases and Industries

4

Bridging Desktop and Cloud

We are expanding Docs with the AEC Data Model to enable granular data capabilities

- The **AEC data model** is a cloud database that establishes a shared language across the lifecycle of a project
- By doing the work you are already doing, you can reap the benefits of granular data



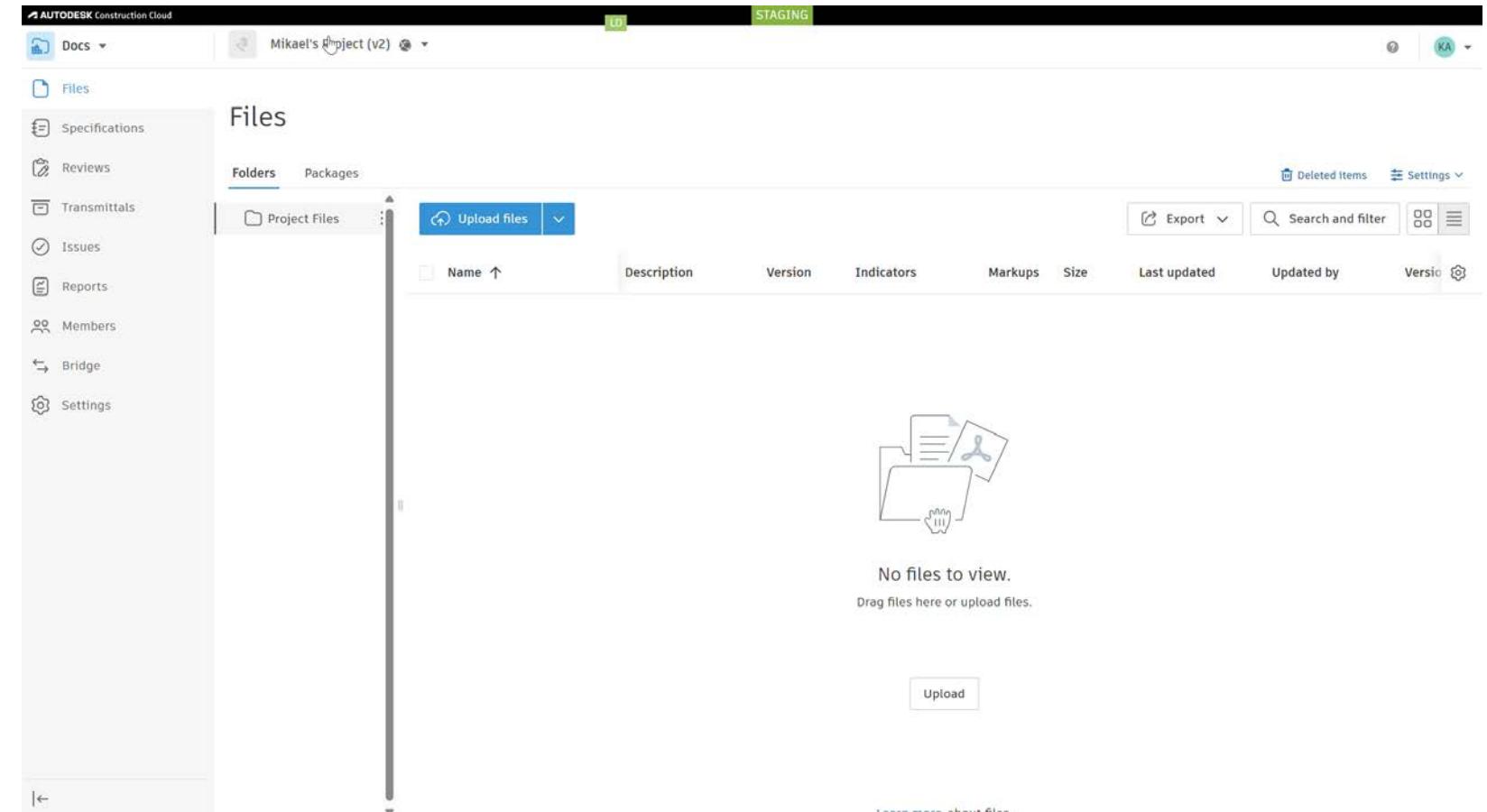
Bringing ACC to Forma

✓ Unified project environment from Planning to Operations

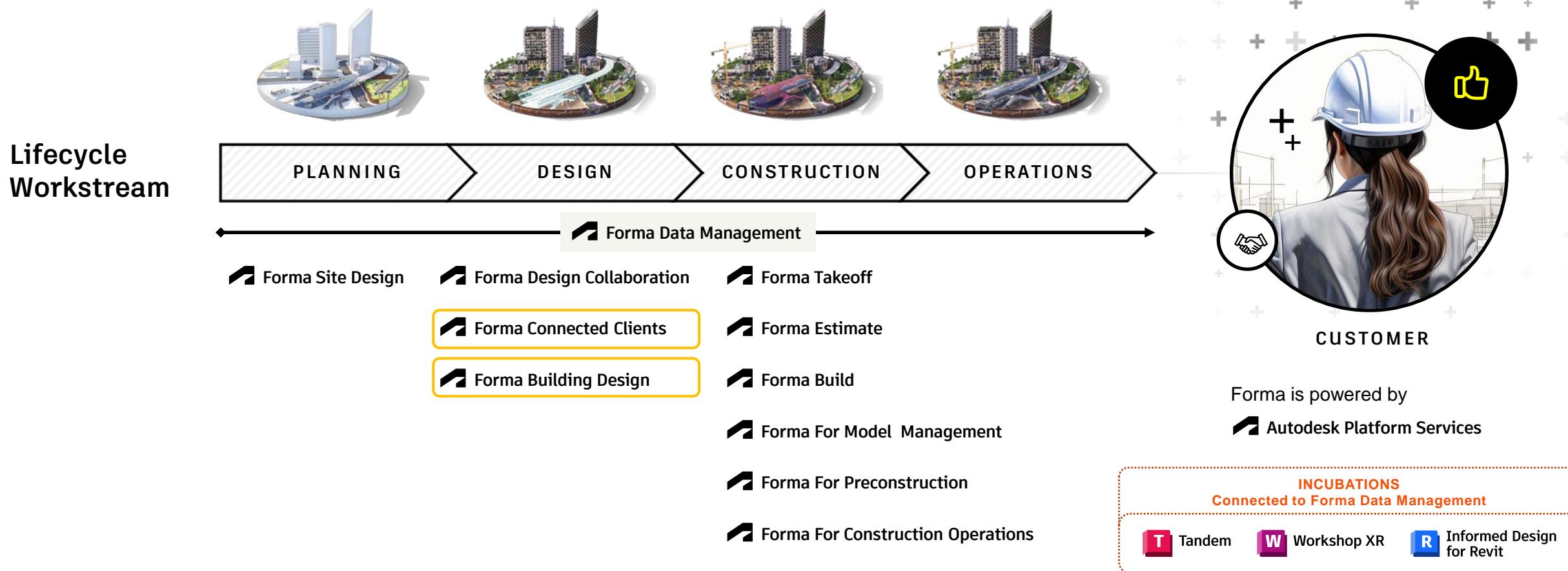
✓ Full data control across lifecycle

✓ Shared navigation across products

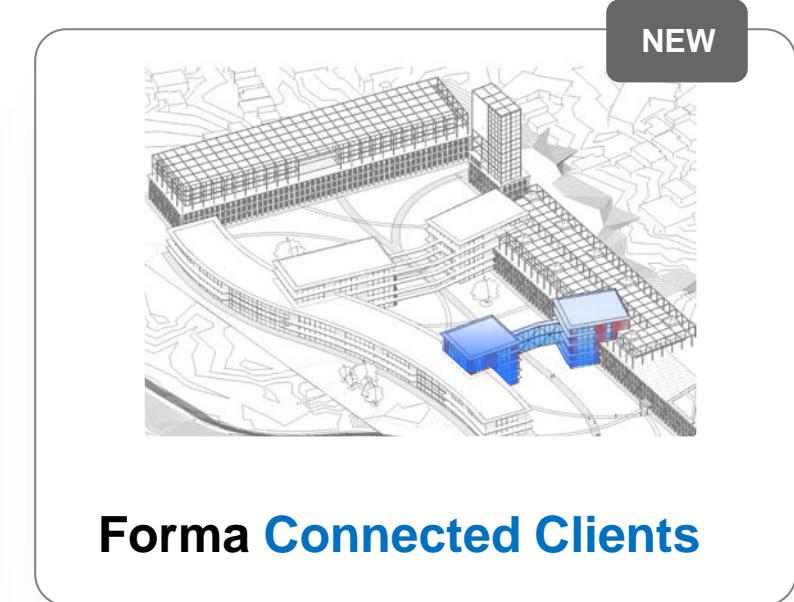
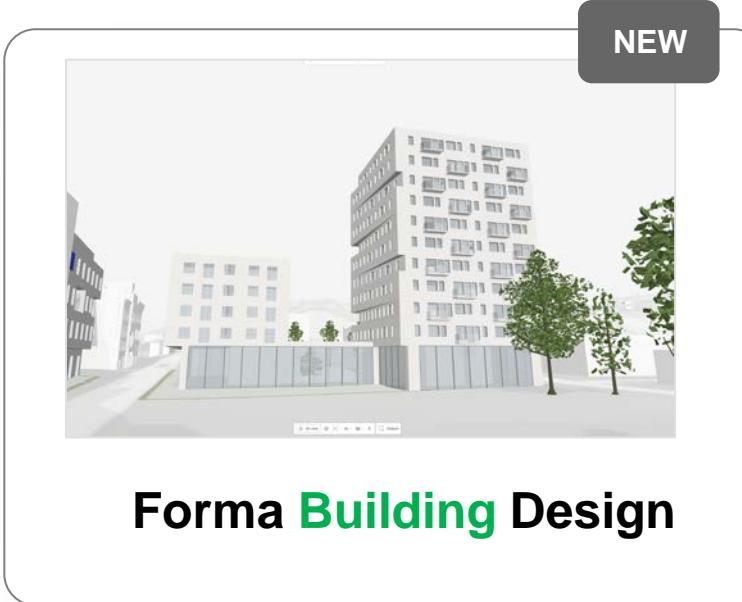
✓ Shared role definitions and access management



Realizing Design & Make in AECO



Forma Design: 4 core product experiences



Forma **Board**

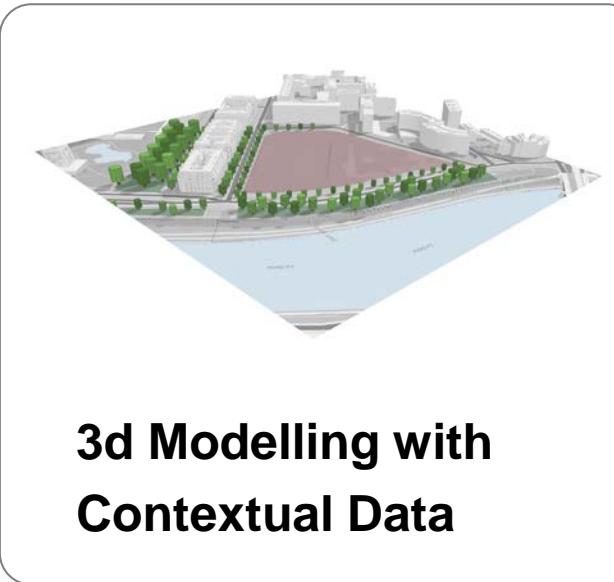
Forma Site Design: Outcome-Based Planning



Forma For Site Planning
and Conceptual Design



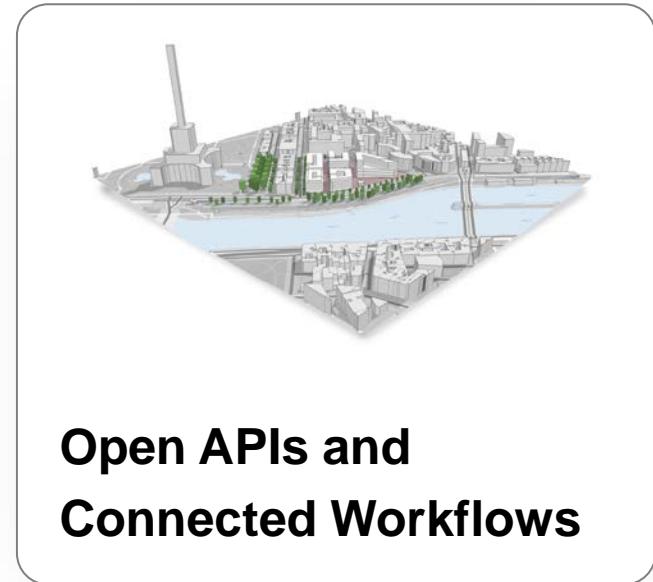
Architects, Urban planners, Master
planners



**3D Modelling with
Contextual Data**

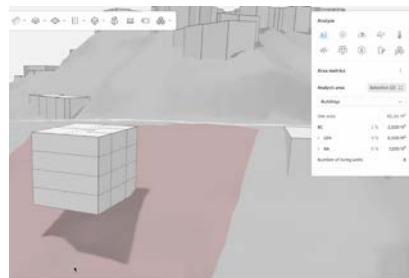


**Real-time
Impact Analyses**

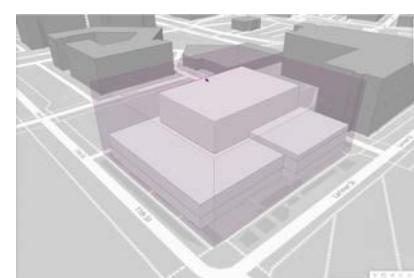


**Open APIs and
Connected Workflows**

WHAT'S NEW (2025) SELECTED EXAMPLES



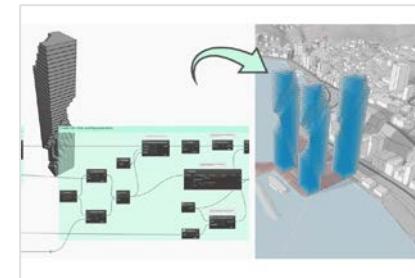
Terrain editing



Enhanced 3D sketching



Interactive Explore

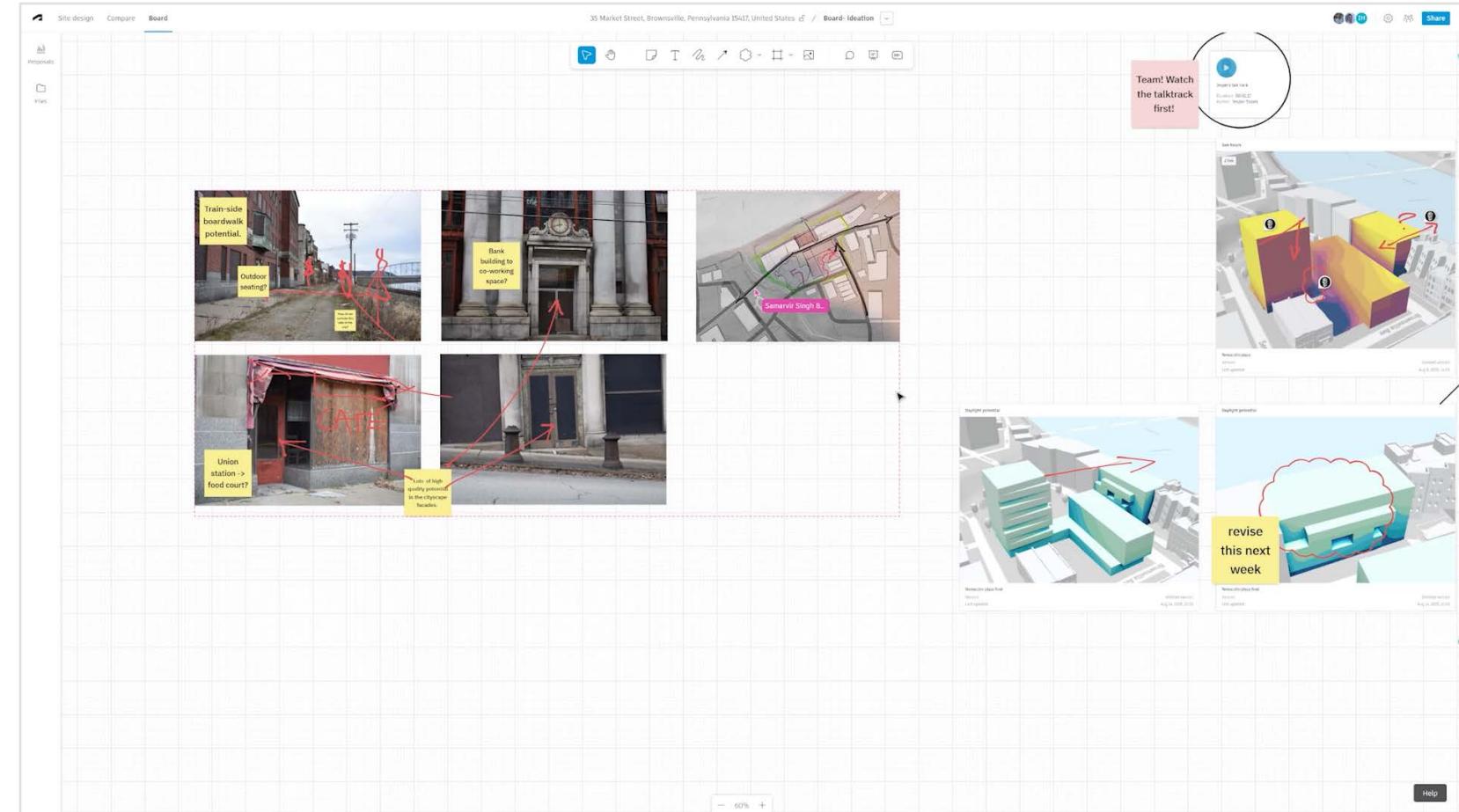


**Dynamo As a Service
(Open Beta)**

Docs enables Collaboration with Forma Board

Organize, present, collaborate, and
annotate models, files, and data
with Forma Board
– a collaborative, real-time visual
whiteboard for AEC workflows.

Available in Forma Site Design,
Coming to Docs



NEW

Forma Building Design: Rapid sketch to BIM extending into Building Schematic and Design Development workflows



Forma For Building Schematic and Design Development

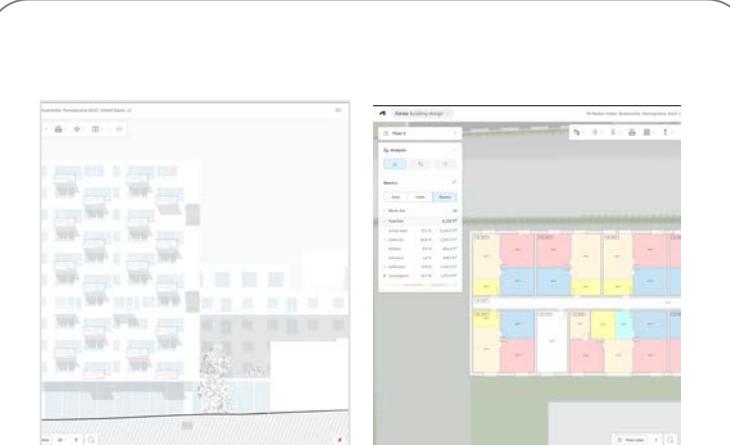


Architects,
Urban planners



Sketch to BIM

Automated transition of Conceptual building model to data-rich BIM model



Design Automation

Generative AI for floor plan design and automations for curtain walls and custom assemblies for windows, doors, and balconies.

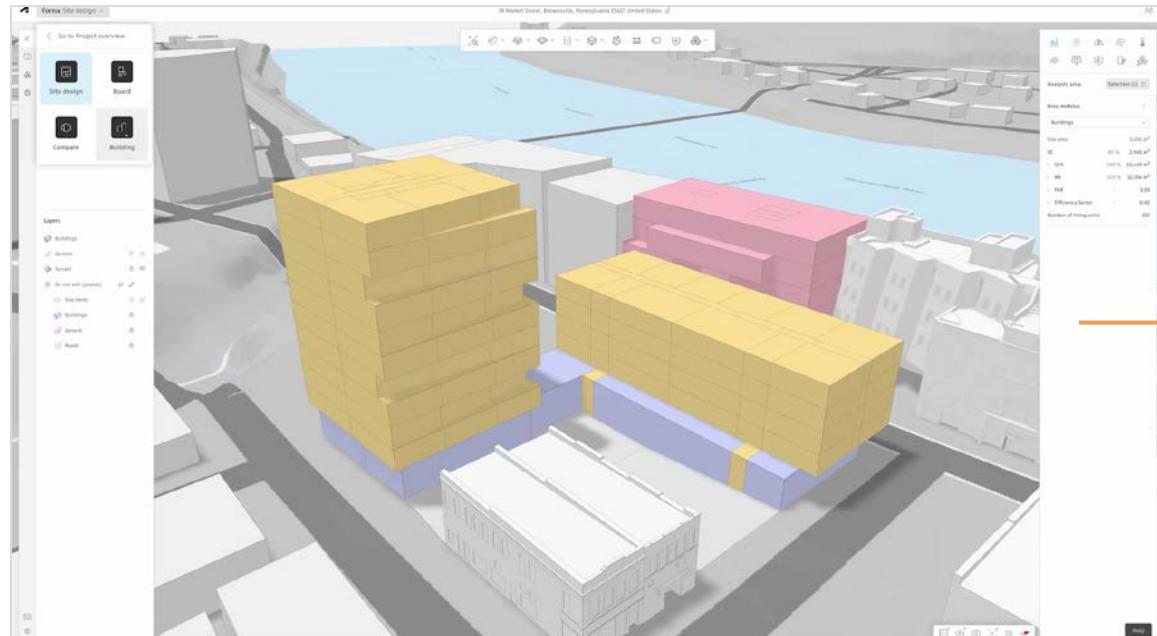


Building Analysis

Granular area metrics, exterior analysis (sunlight, vertical sky component), Embodied Carbon, and Interior daylight analyses to optimize building performance

Smoothly transition from Concept Design to BIM without rework

From Conceptual model...



... To data-rich BIM model





Façade Design

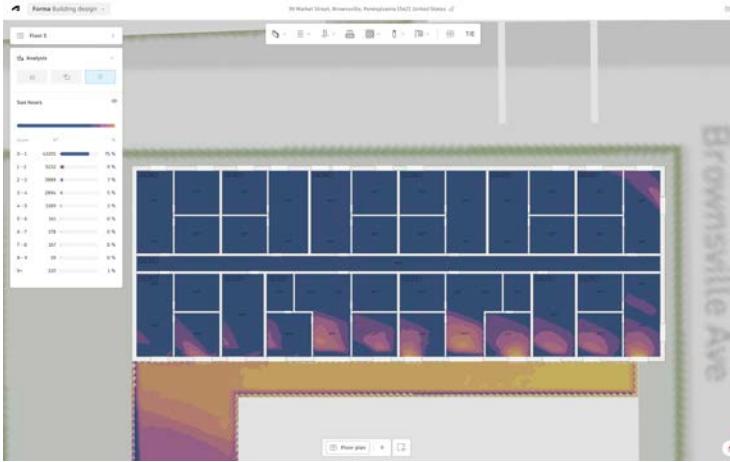
Use Parametric and generative design to shape the Building Façade using curtain walls and custom assemblies, while always retaining manual control for adjustments



Generative AI for floor plan design

Rapidly generate and iterate on floor plan design using Autodesk's proprietary foundation model. Iteratively generate a whole building, a floor, or parts of a floor

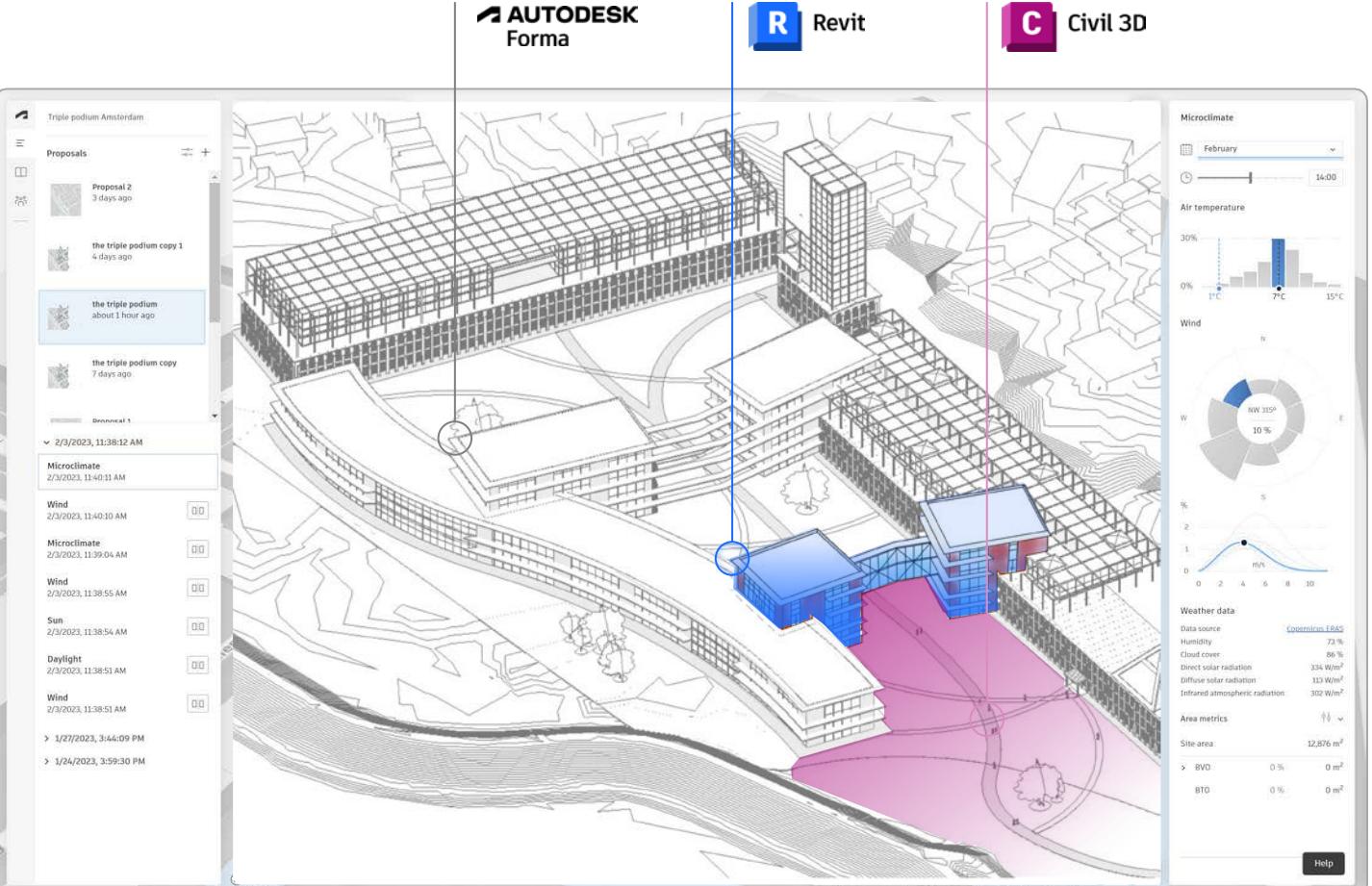
**Interior
sunlight**



Connected Clients enable seamless hybrid workflows

With Forma capabilities and workflows that surface across desktop and cloud applications, while ensuring data always stays connected

Starting with Revit then expanding to Civil3D, AutoCAD and other products



Autodesk Forma

R Revit

C Civil 3D

Revit and Civil3D users co-designing on Forma proposal

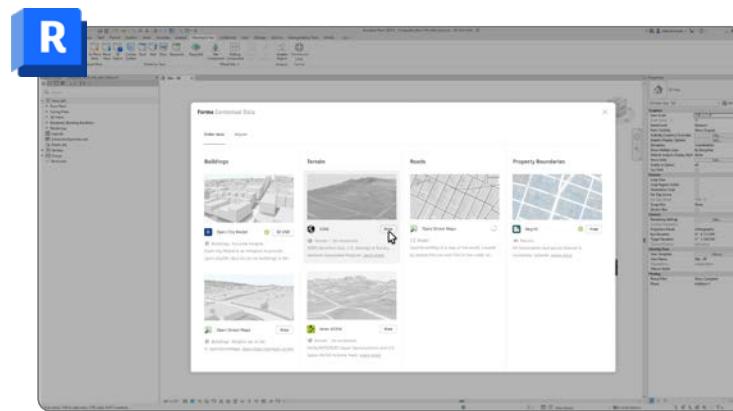
WHATS COMING

NEW

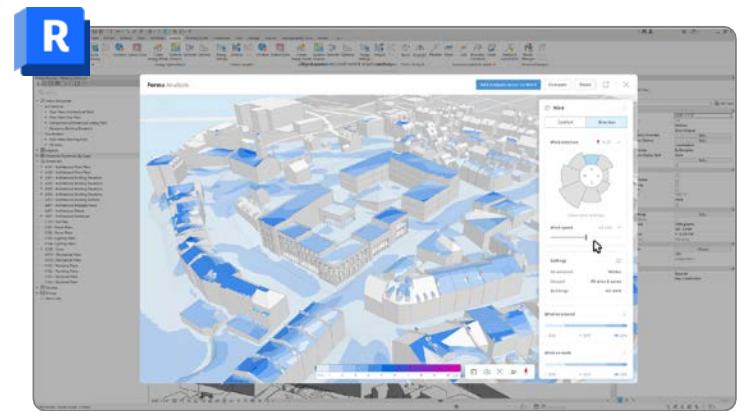
Revit – A Forma Connected Client

 Connecting capabilities across cloud and desktop applications

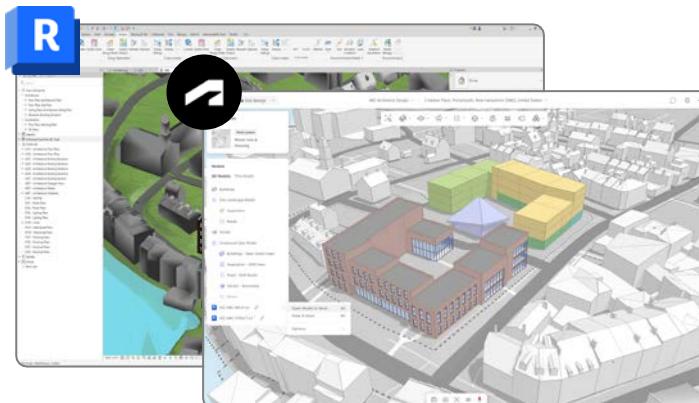
 Revit Users



Enhance productivity by adding contextual data easily to Revit projects



Drive smarter decisions with analysis embedded directly in Revit

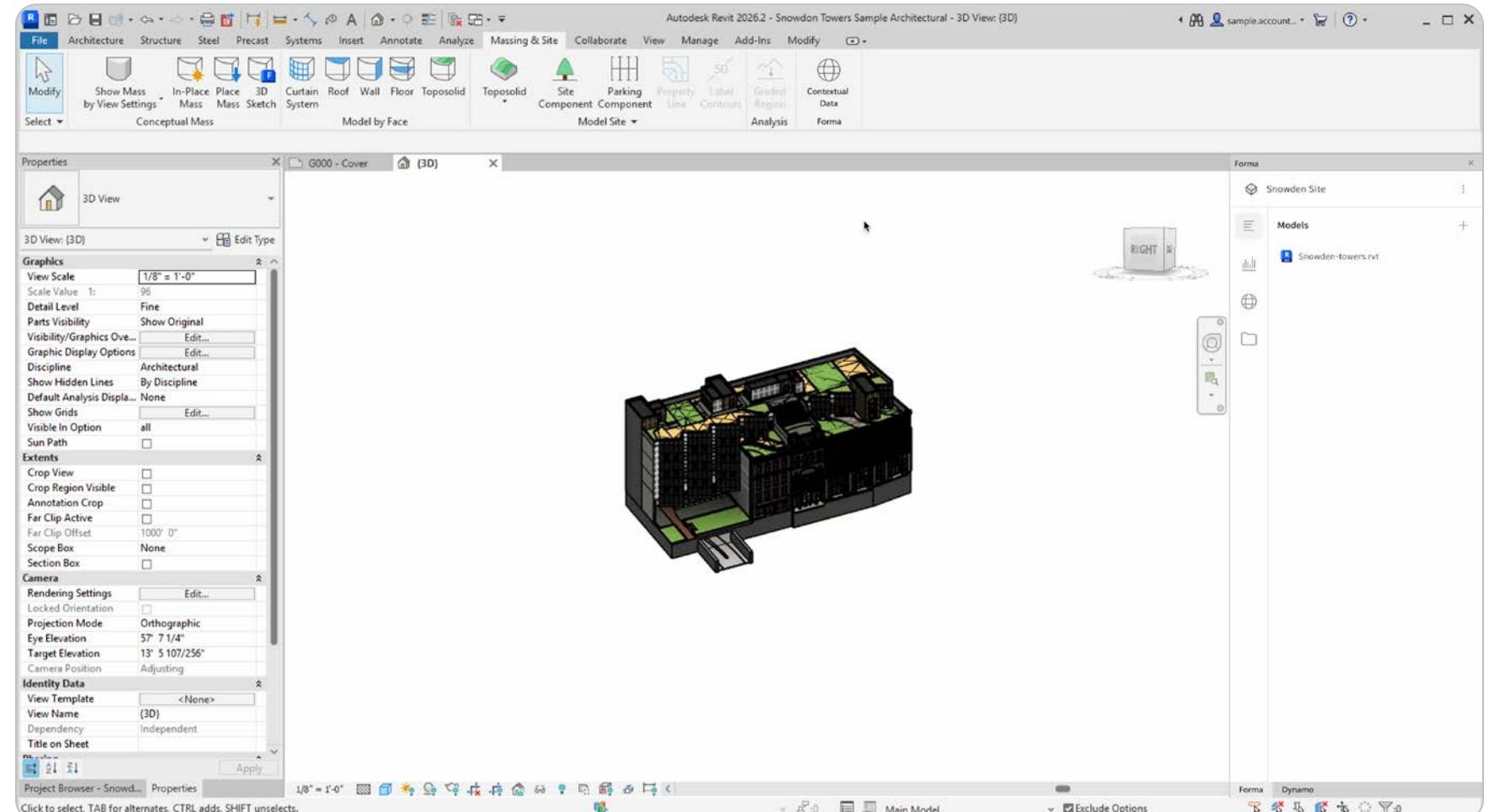


Reference relevant data stored in Docs without the need for manual import or export



Access Contextual Data

- | Access contextual data such as Terrain, Buildings, and Parcels
- | Start designing within context, versus from a blank canvas
- | Make informed design decisions informed by contextual data



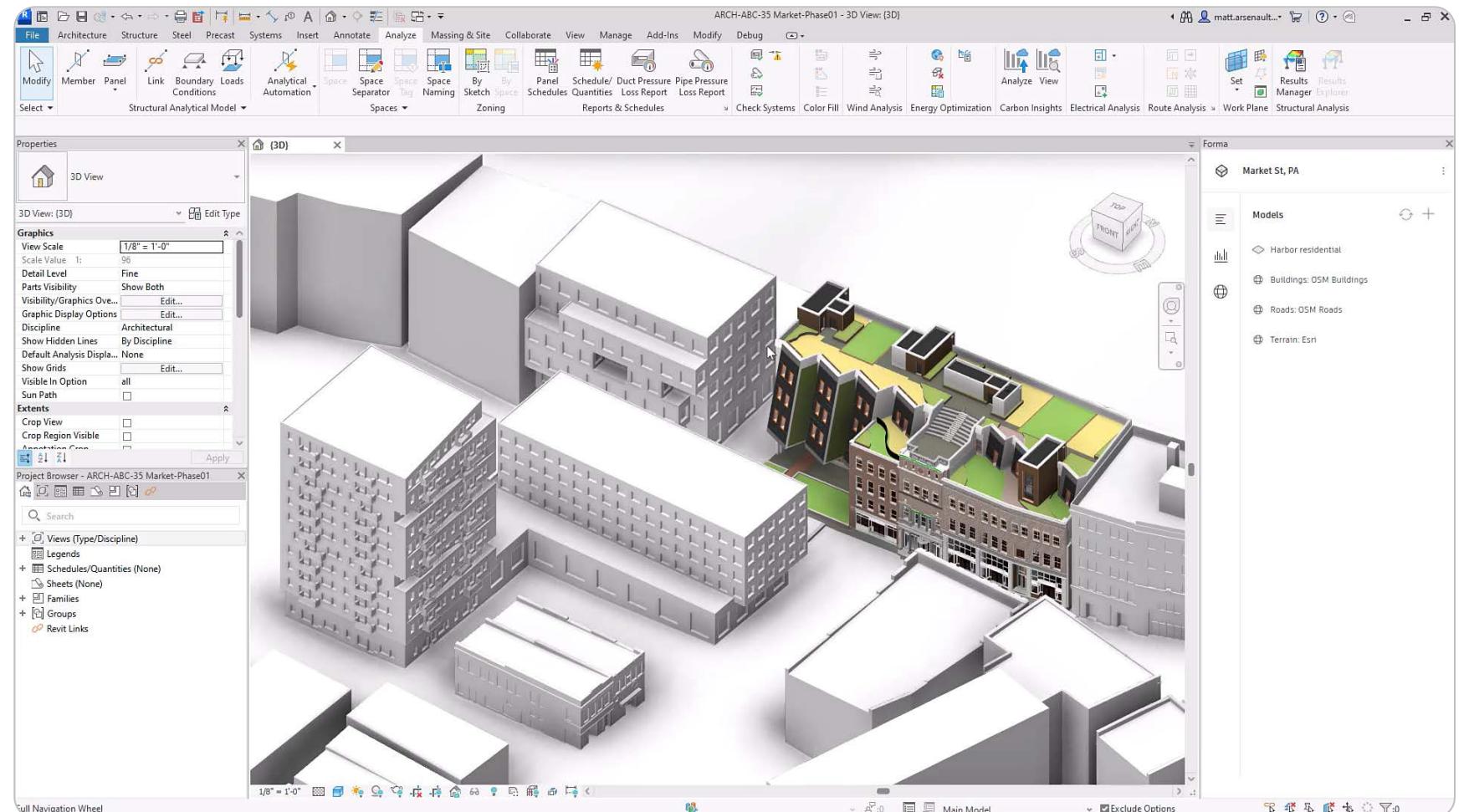


Forma Analysis in Revit

| Initiate Forma Analysis directly in Revit

| Outcome driven design decisions during detailed design

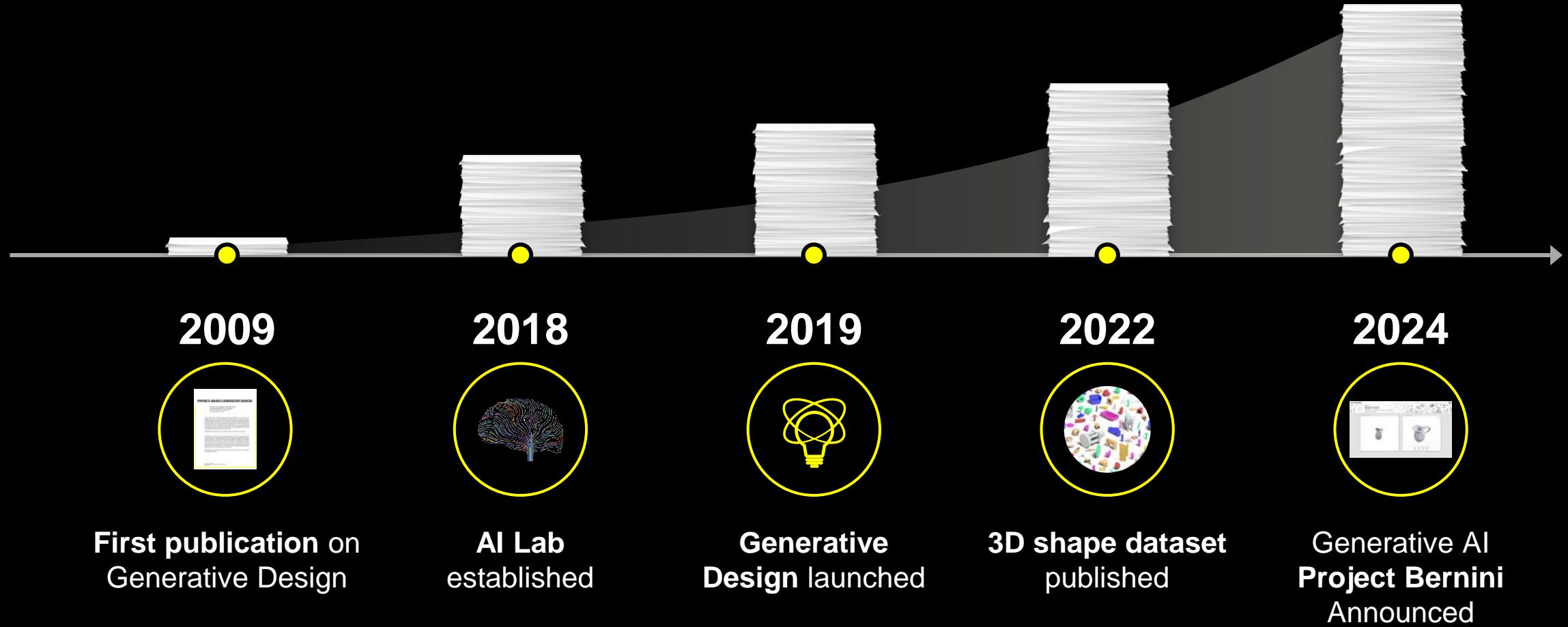
| Access analysis results from both Forma & Revit

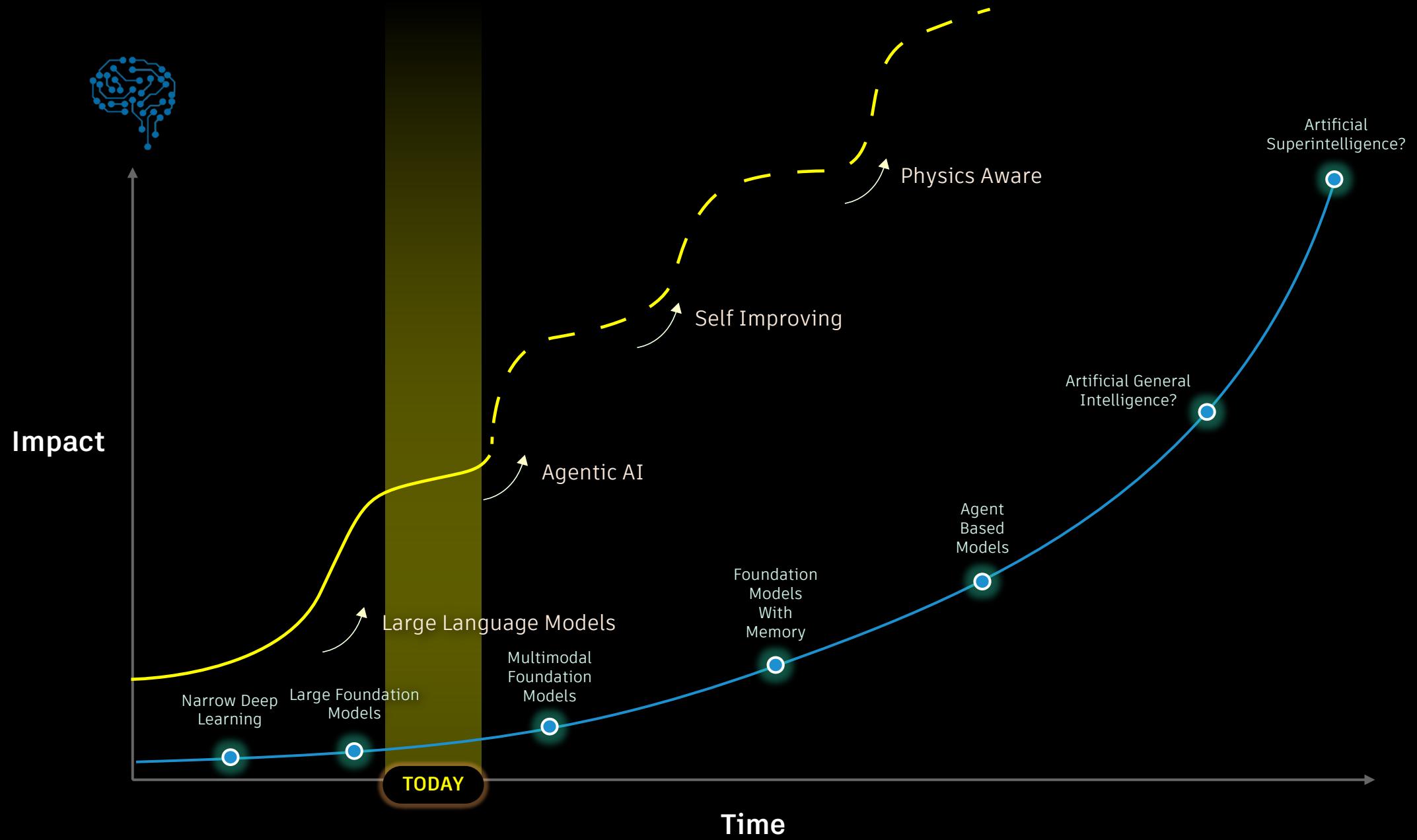


Autodesk Artificial Intelligence



Autodesk's History with AI





Leaders | Regulating the internet giants

The world's most valuable resource is no longer oil, but data

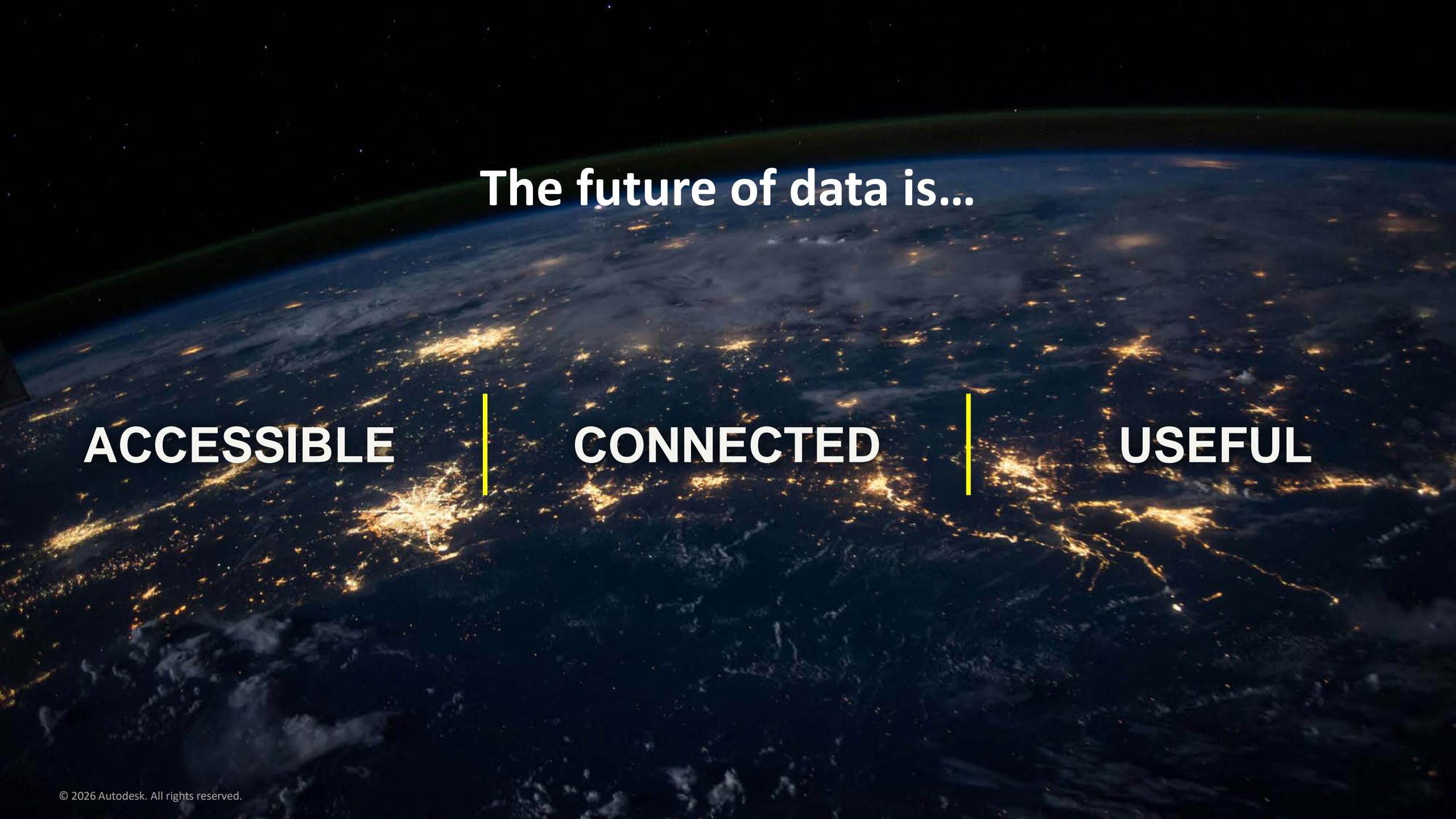
The data economy demands a new approach to antitrust rules

Share



May 6th 2017 | 5 min read

A NEW commodity spawns a lucrative, fast-growing industry, prompting antitrust regulators to step in to restrain those who control its flow. A century ago, the resource in question was oil. Now similar concerns are being raised by the giants that deal in data, the oil of the digital era. These titans—Alphabet (Google's parent company), Amazon, Apple, Facebook and Microsoft—look unstoppable. They are the five most valuable listed firms in the world. Their profits are surging: they

A nighttime satellite view of Earth from space, showing city lights and auroras.

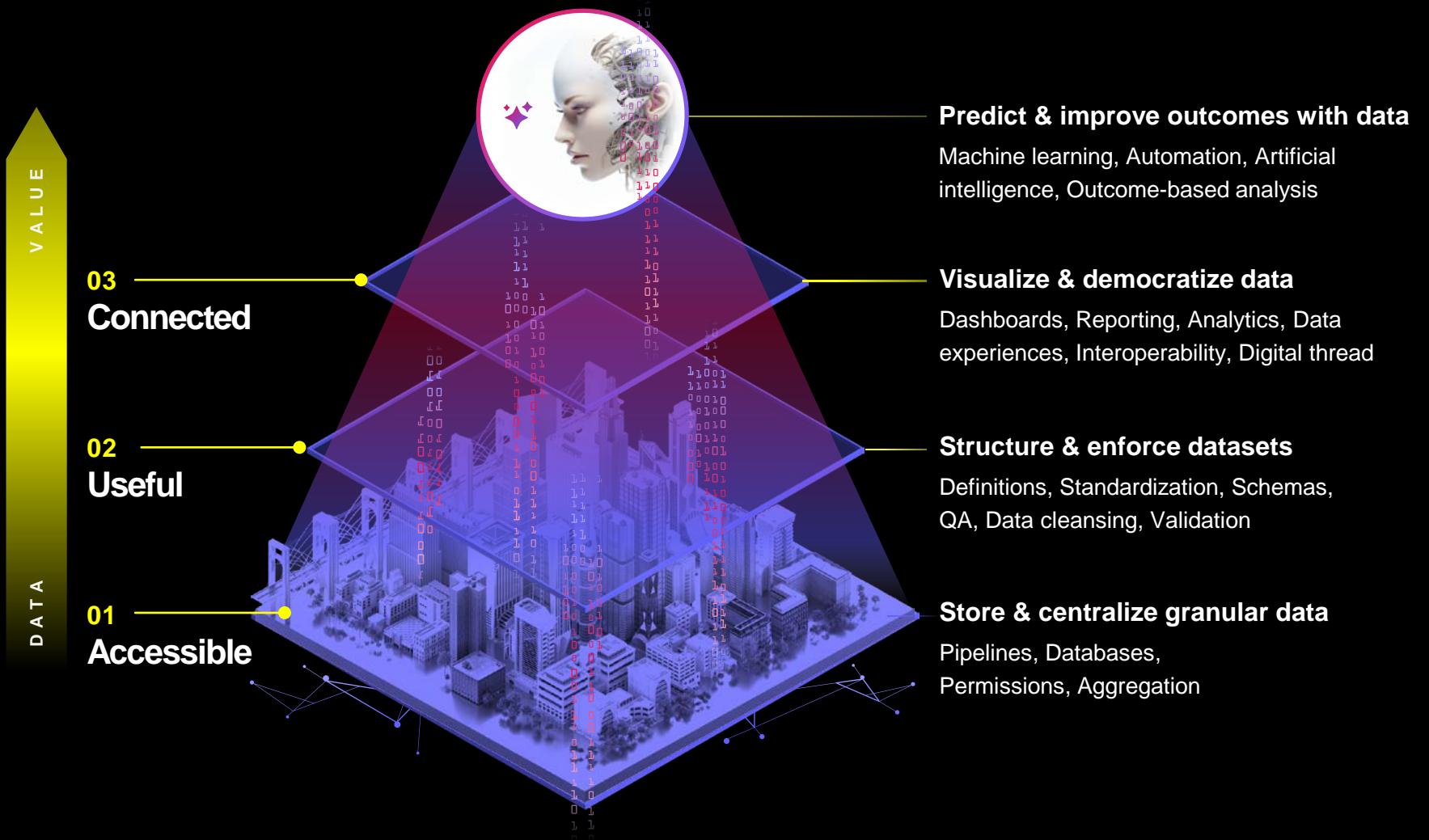
The future of data is...

ACCESSIBLE

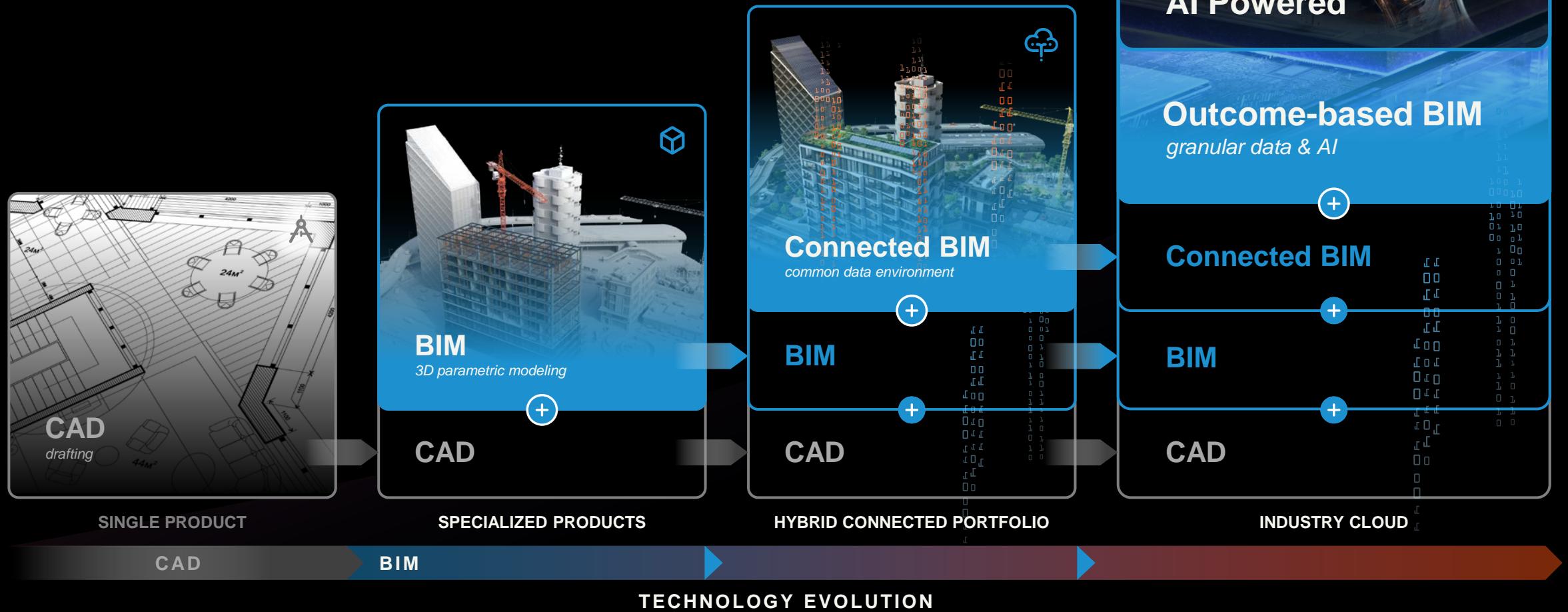
CONNECTED

USEFUL

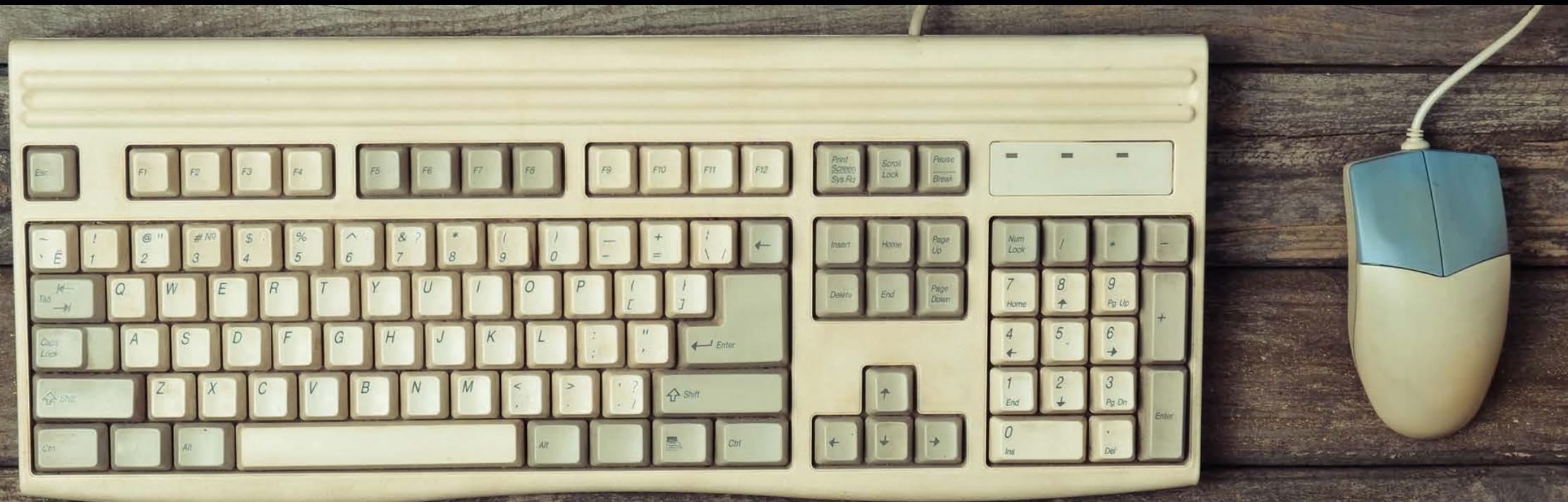
Unlocking the power of AI starts with a foundation of better data



Outcome-based BIM, powered by AI



Traditional relationship with machines





AUTOMATE

Free up time from
repetitive tasks

ASSIST

Understand complex data

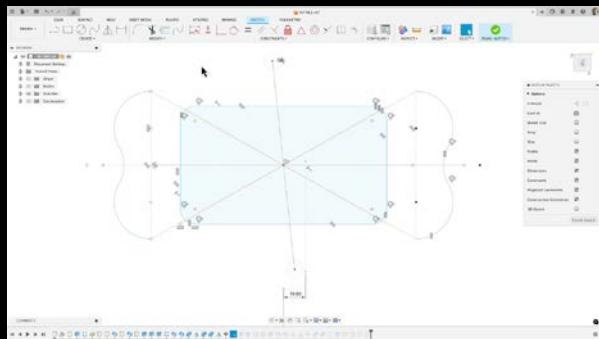
AUGMENT

Enhance workflows and
amplify creativity

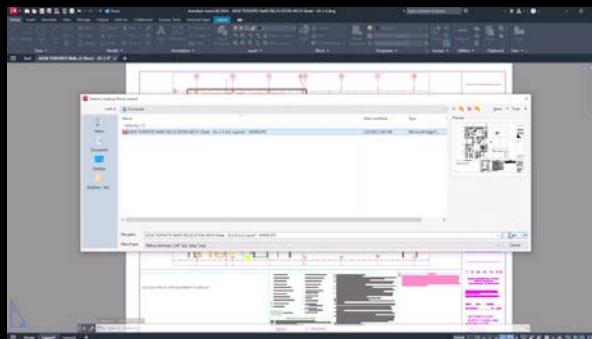
Autodesk AI – What is it?

A class of AI-powered features across many products, including...

Fusion AutoConstrain



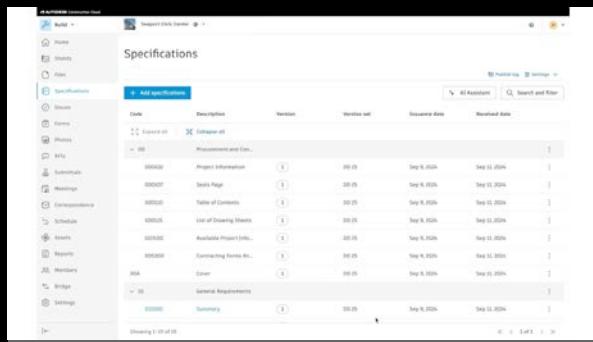
AutoCAD Markup Assist



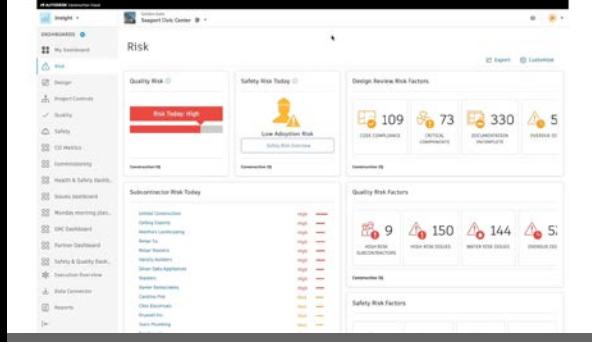
Maya Motion Maker



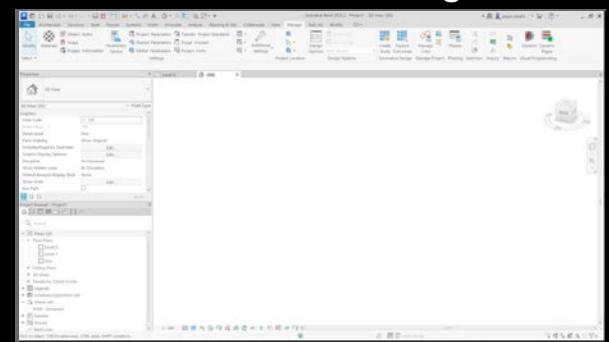
Autodesk Assistant



Autodesk Construction IQ



Revit Generative Design



Trusted AI at Autodesk

Responsible, ethical, and secure AI



Responsible

We hold ourselves to high standards in acquiring and managing data as well as training and delivering fair and safe AI models.



Transparent

We are forthcoming about the design, development, and intended use of AI systems and data.



Accountable

We are committed to respecting the choices of our customers and aligning to laws and regulations.



Reliable

We are rigorous in building quality AI systems that strive to provide accuracy, validity, and consistency.

Safe & Secure

We employ robust practices throughout the AI lifecycle to protect customer data, intellectual property, and privacy, and to produce safe outcomes.



Discover and remediate security vulnerabilities in AI models



Assess AI model ideas for data use, privacy measures, model necessity and regulatory requirements



Test model accuracy, consistency, and bias using diverse data sets



Communicate AI model information and data protection to customers



Continuously assess customer feedback on AI output, ethics, and data sensitivity

AI Capabilities in AECO

Current capabilities in our tools

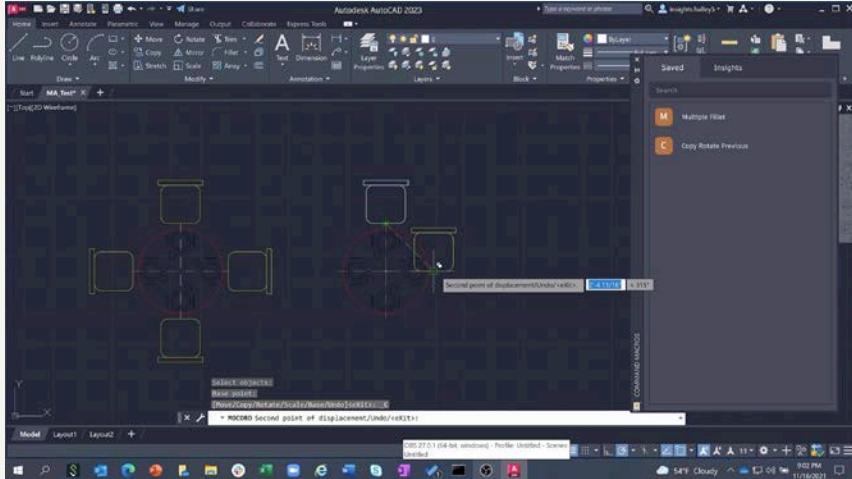


 AUTODESK

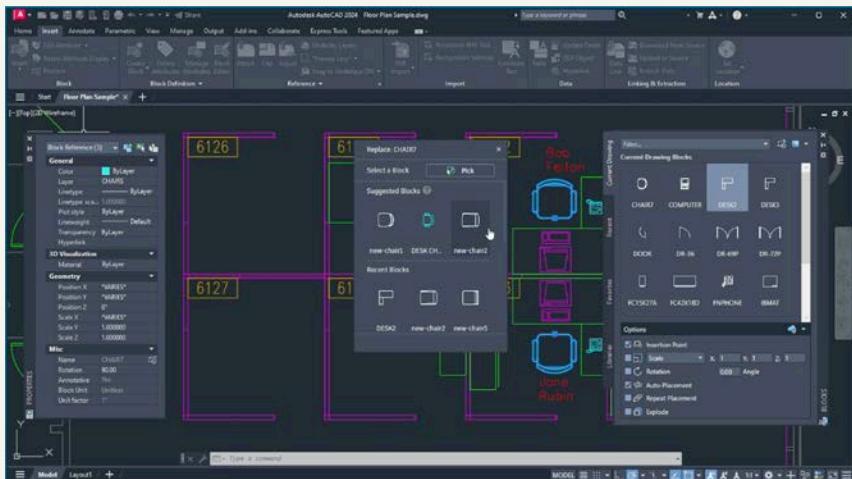


Autodesk AutoCAD

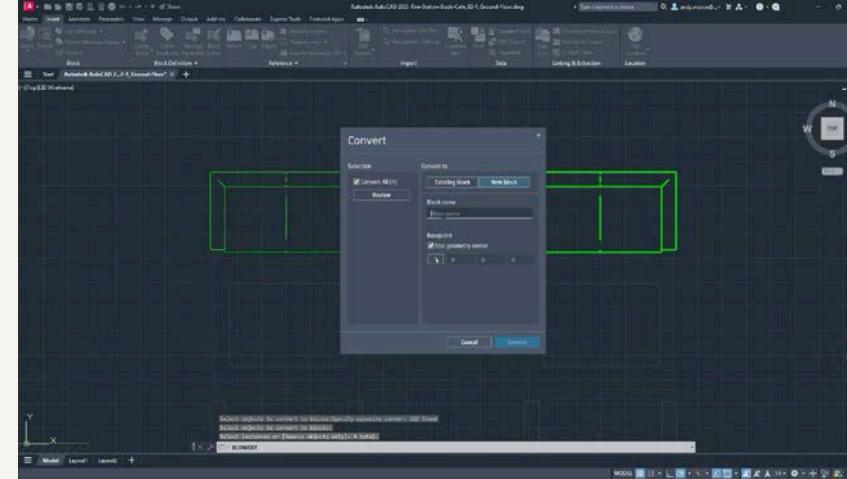
Macro Advisor in My Insights



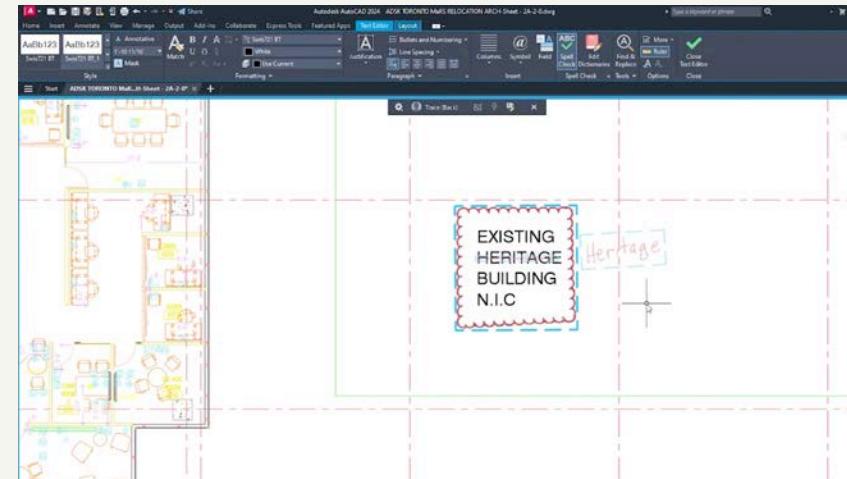
Replacement of Smart Blocks



Search and Convert of Smart Blocks

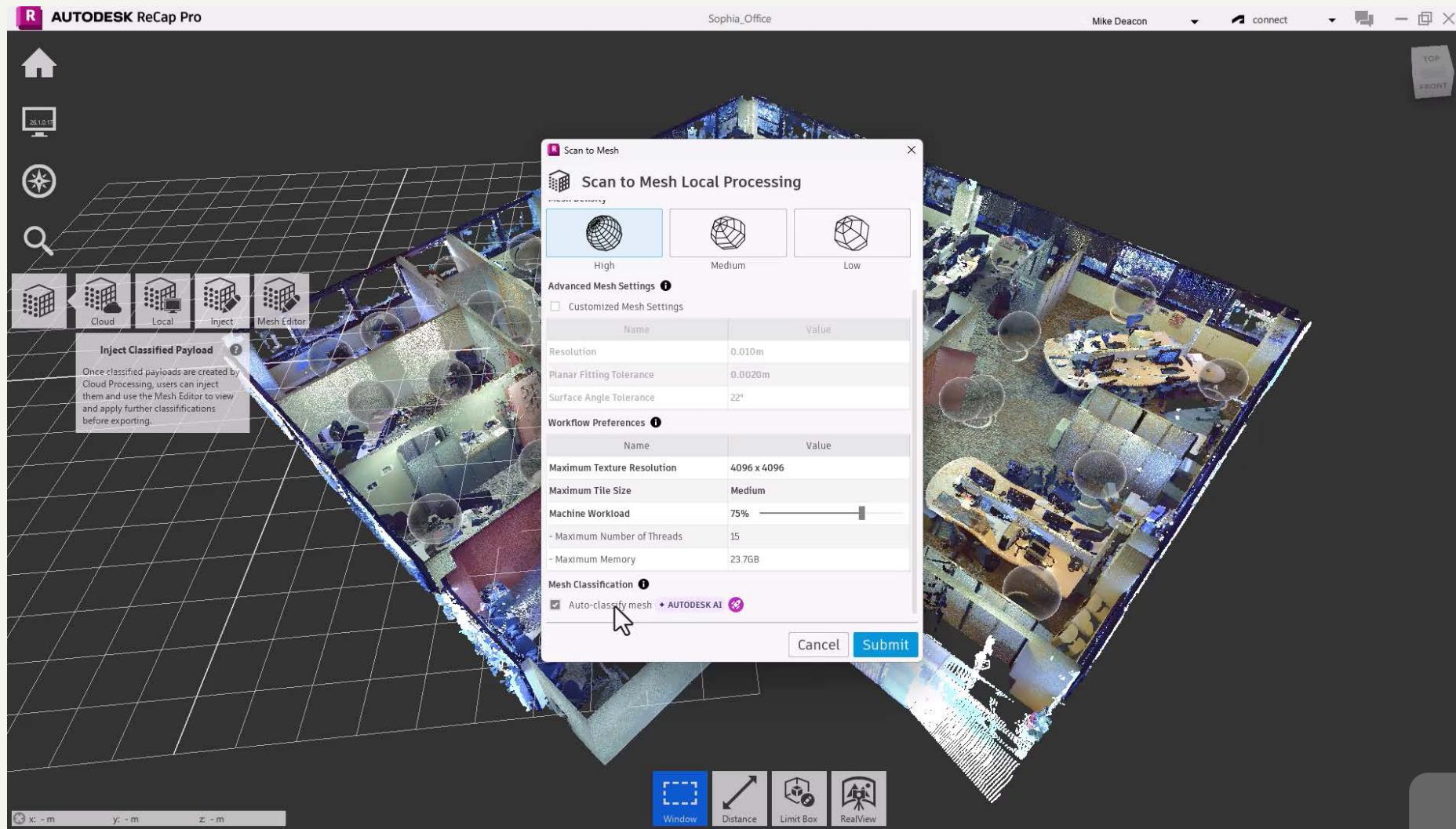


Markup Import & Markup Assist



Automatic Mesh Classification

ReCap Pro | August Preview Release



BETA

Rapid Noise Analysis

Autodesk Forma

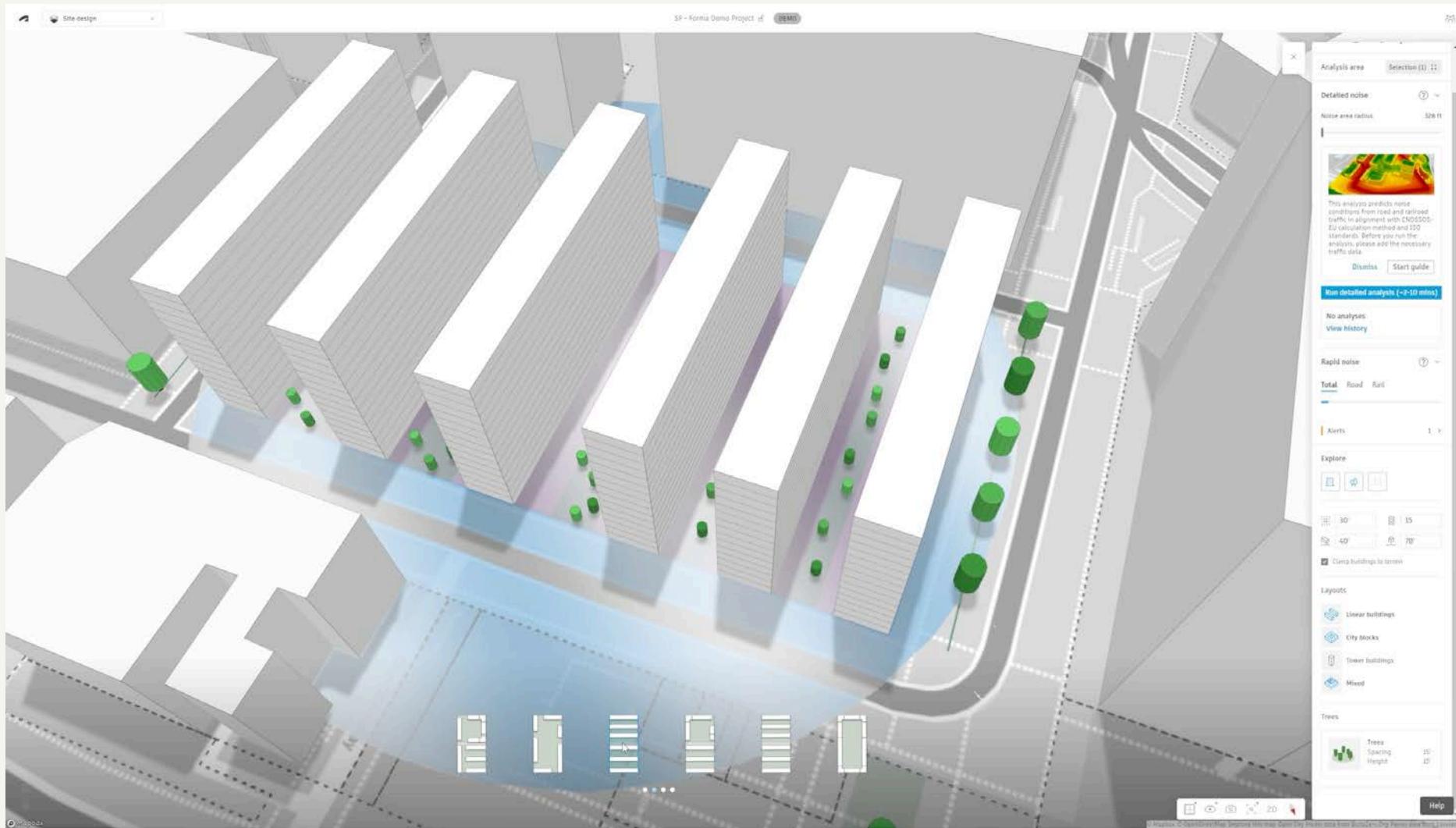
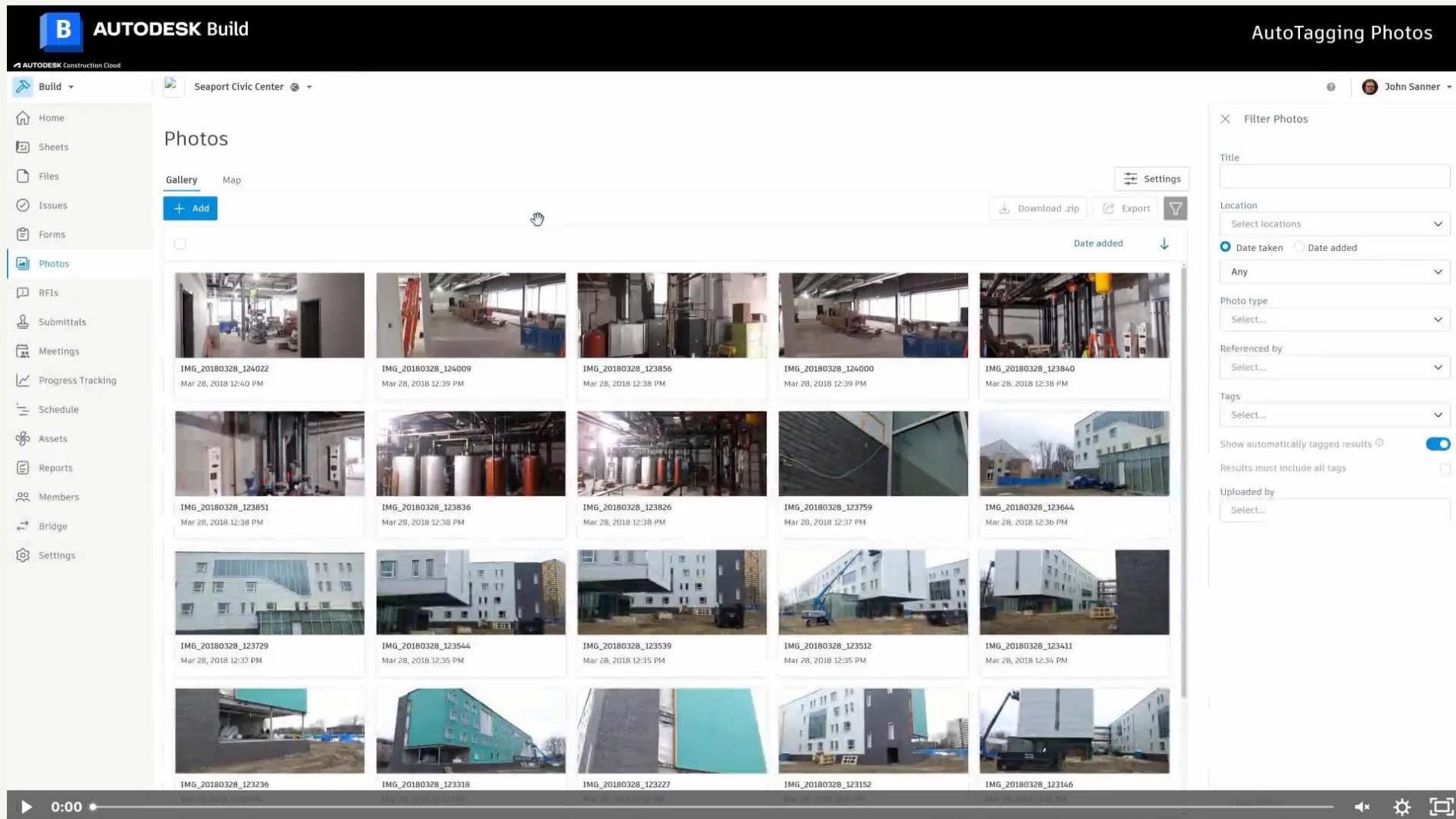


Photo AutoTags

Autodesk Build



The screenshot shows the Autodesk Build interface, specifically the 'Photos' section. The left sidebar includes links for Home, Sheets, Files, Issues, Forms, Photos (which is selected and highlighted in blue), RFIs, Submittals, Meetings, Progress Tracking, Schedule, Assets, Reports, Members, Bridge, and Settings. The main content area displays a grid of 20 photographs taken on March 28, 2018, at the Seaport Civic Center. The photos show various interior and exterior construction scenes, including industrial interiors, building exteriors, and construction equipment. To the right of the photo grid is a sidebar titled 'AutoTagging Photos' with a 'Filter Photos' section. The filter includes fields for Title, Location (Select locations), Date taken (radio buttons for Date taken and Date added), Photo type (Select...), Referenced by (Select...), Tags (Select...), and checkboxes for 'Show automatically tagged results' (checked) and 'Results must include all tags'. Below the filter is an 'Uploaded by' section with a 'Select...' button. The bottom of the screen features a navigation bar with a play button, a progress bar showing '0:00', and several small icons for settings, export, and other functions.

Autodesk Assistant

Your **essential agentic partner** for
Design and Make



 AUTODESK

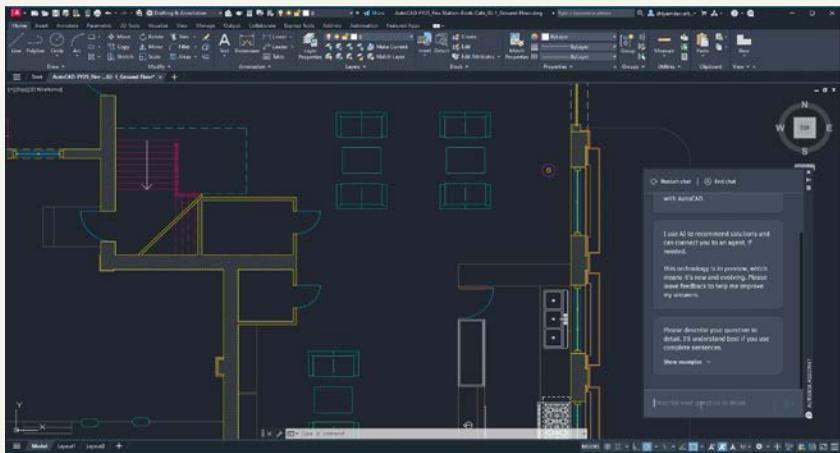
Autodesk Assistant Mission

One Assistant, all the answers: Unify your workflows, assets and systems through Autodesk Assistant

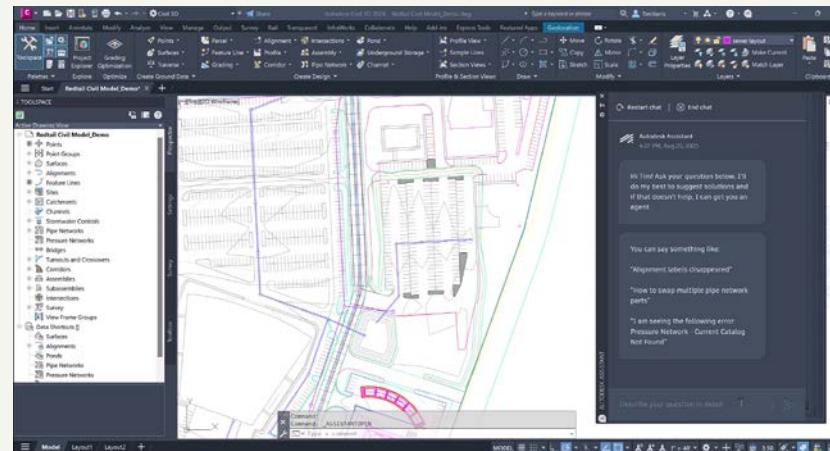


In-Product Assistance

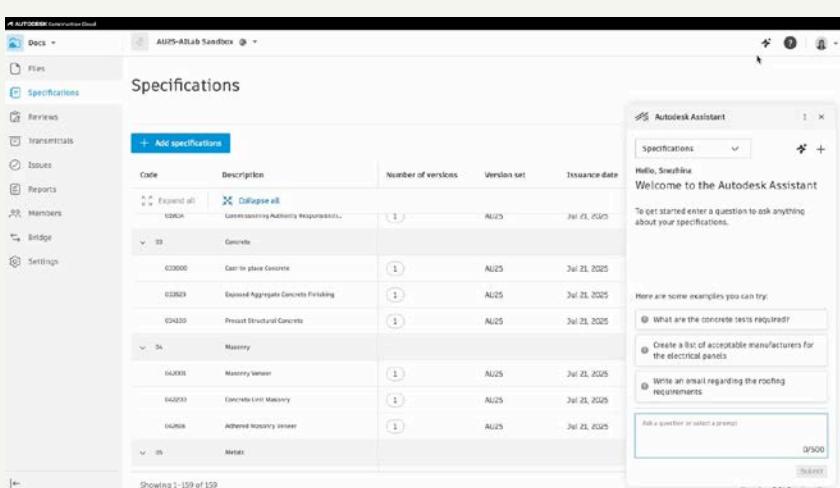
Autodesk Assistant in AutoCAD



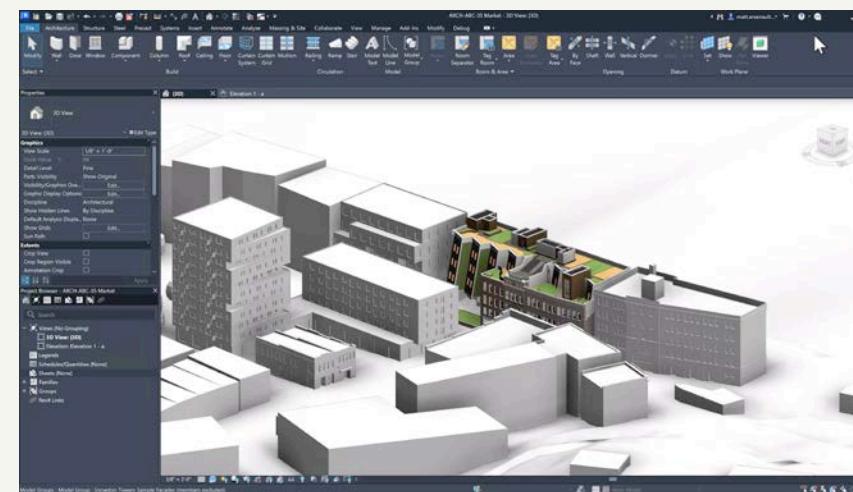
Autodesk Assistant in Civil 3D



Autodesk Assistant in Autodesk Build

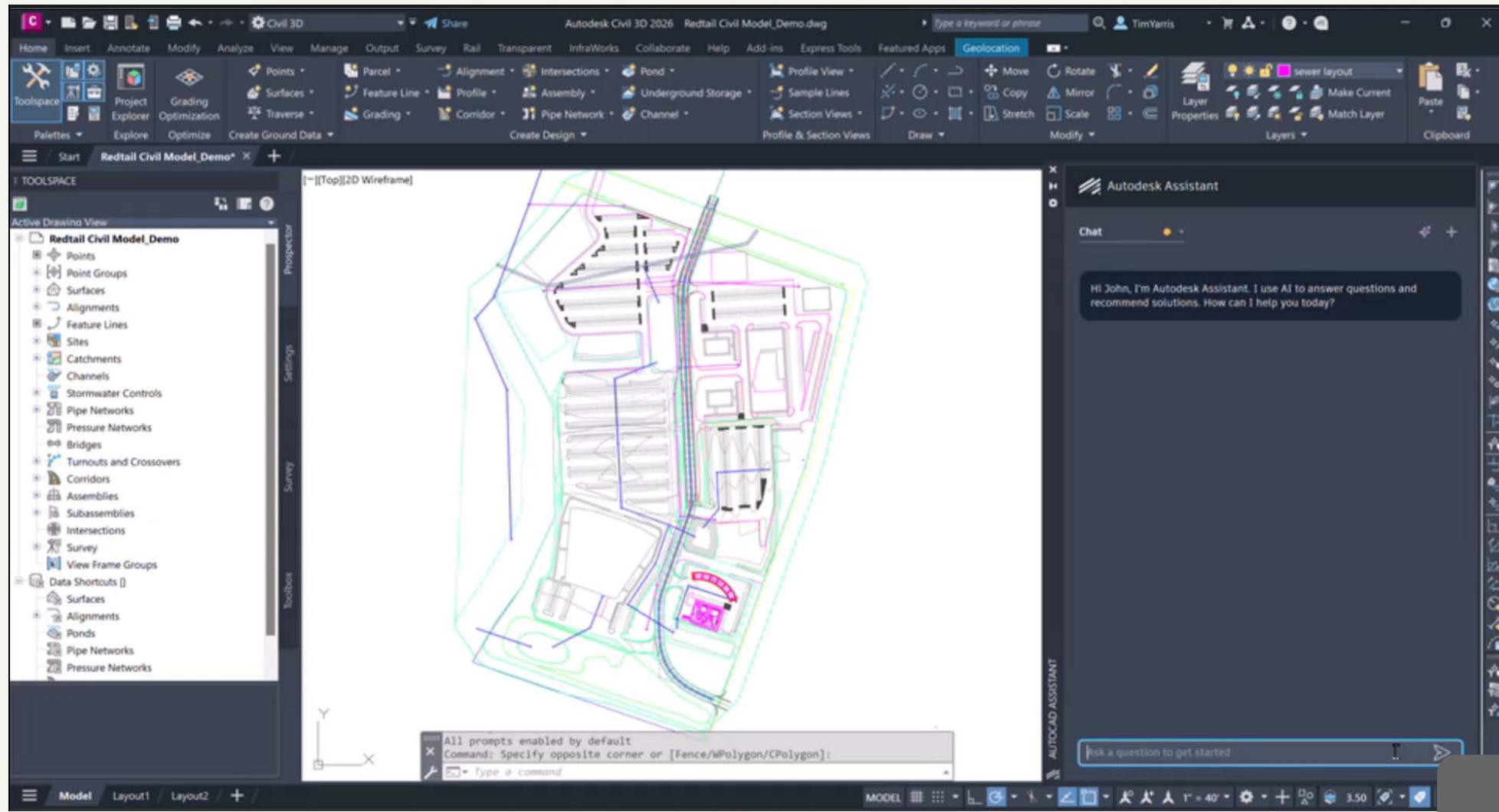


Autodesk Assistant in Revit



Analyze for Compliance

Autodesk Assistant in Civil 3D | Preview Release



BETA



Generative AI

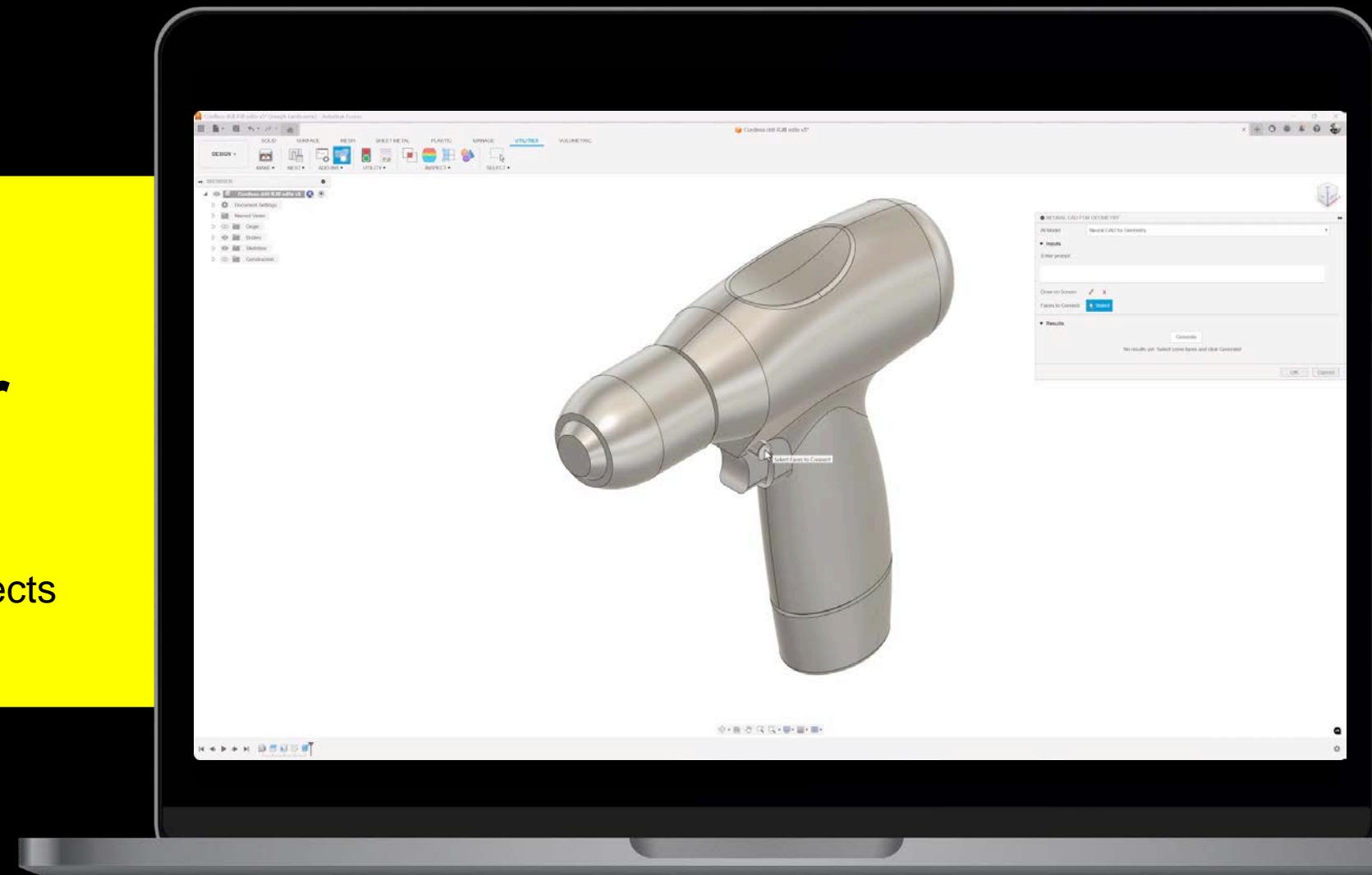
A deeper dive

Generative Technologies



Fusion neural CAD for geometry

Generative AI for 3D CAD objects



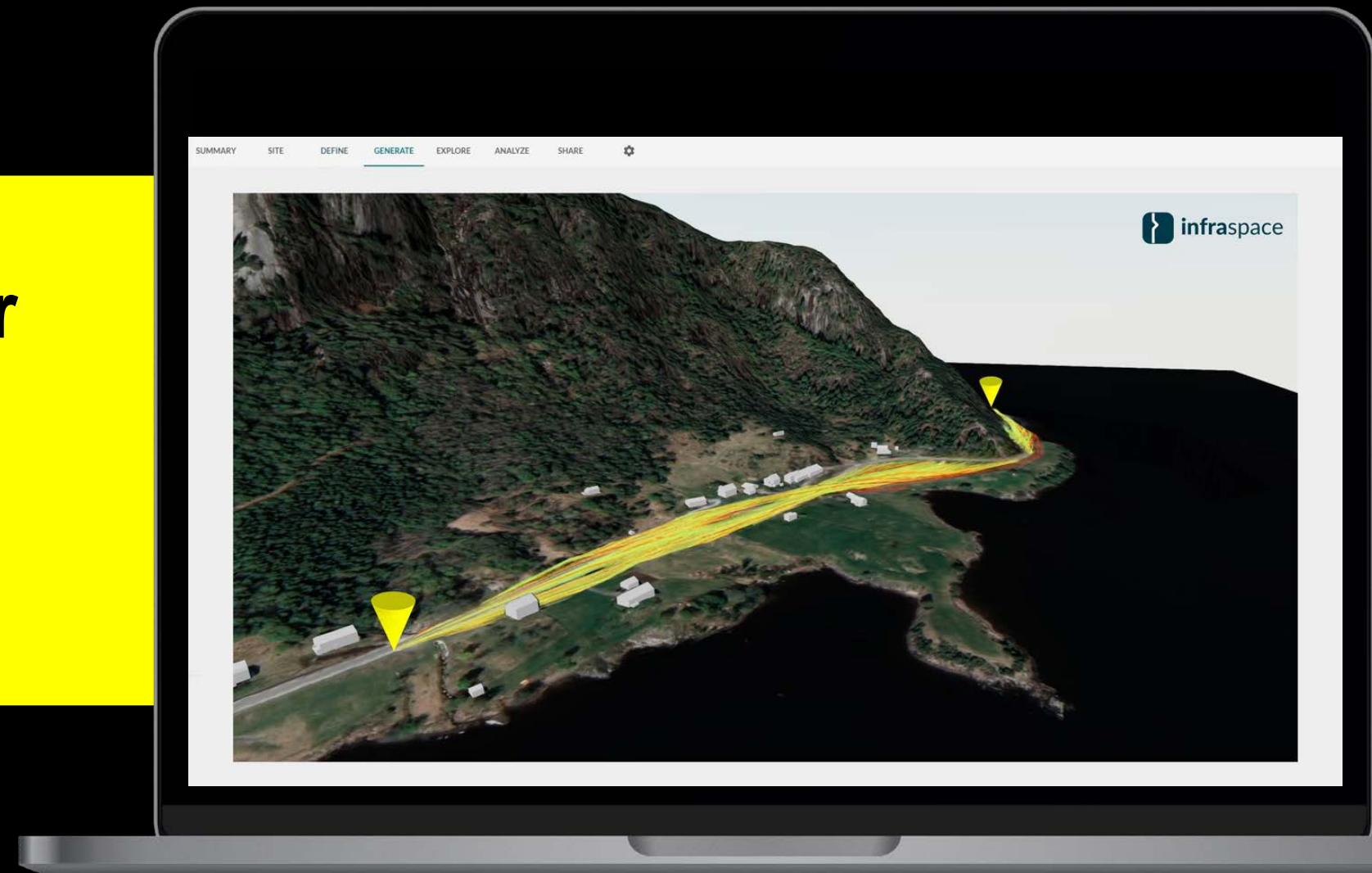
Forma neural CAD for buildings

Generative AI for architectural systems



Neural CAD for Infrastructure

Generative AI for civil design

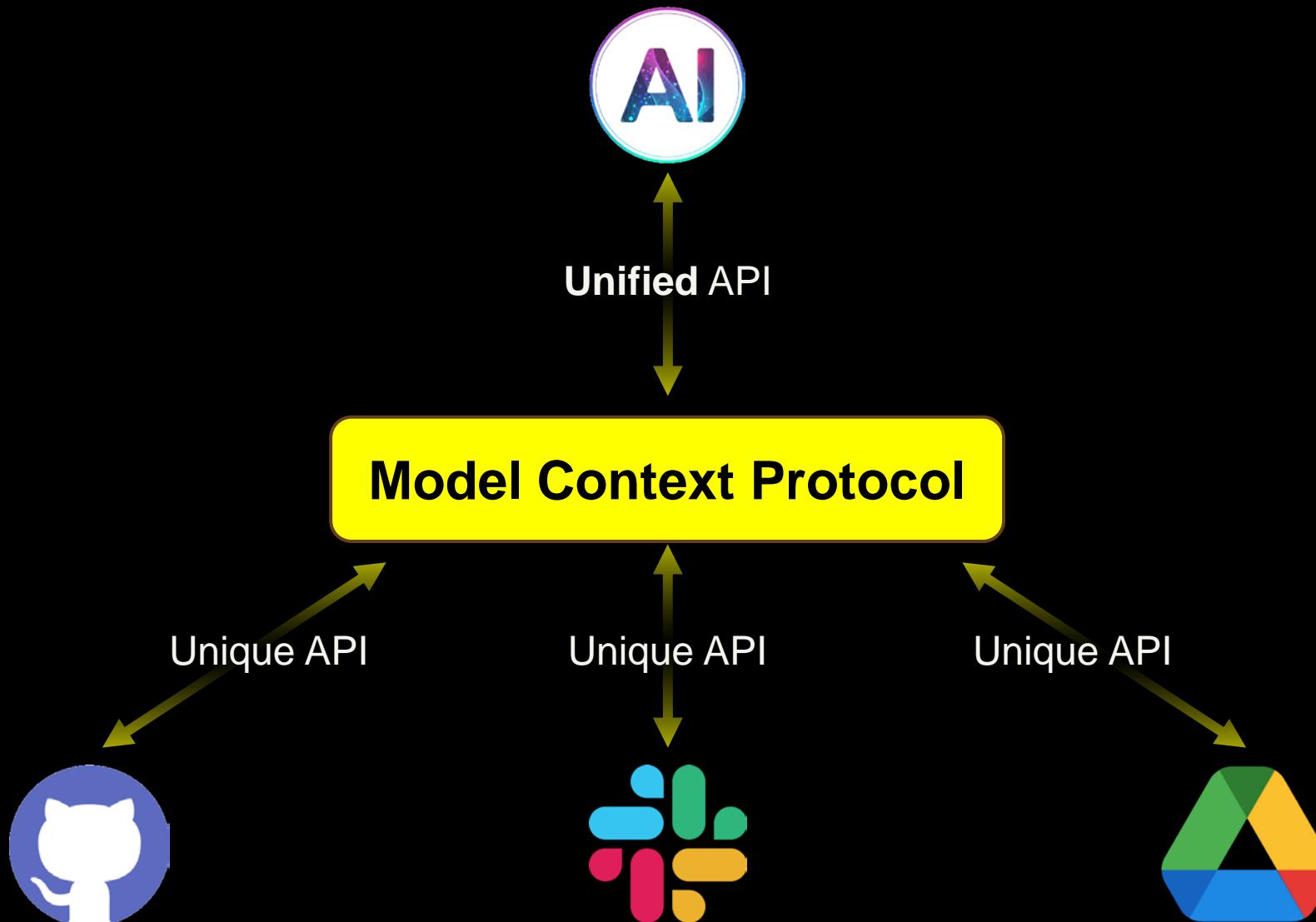


Model Context Protocol

Powerful connections to AI with MCP Servers

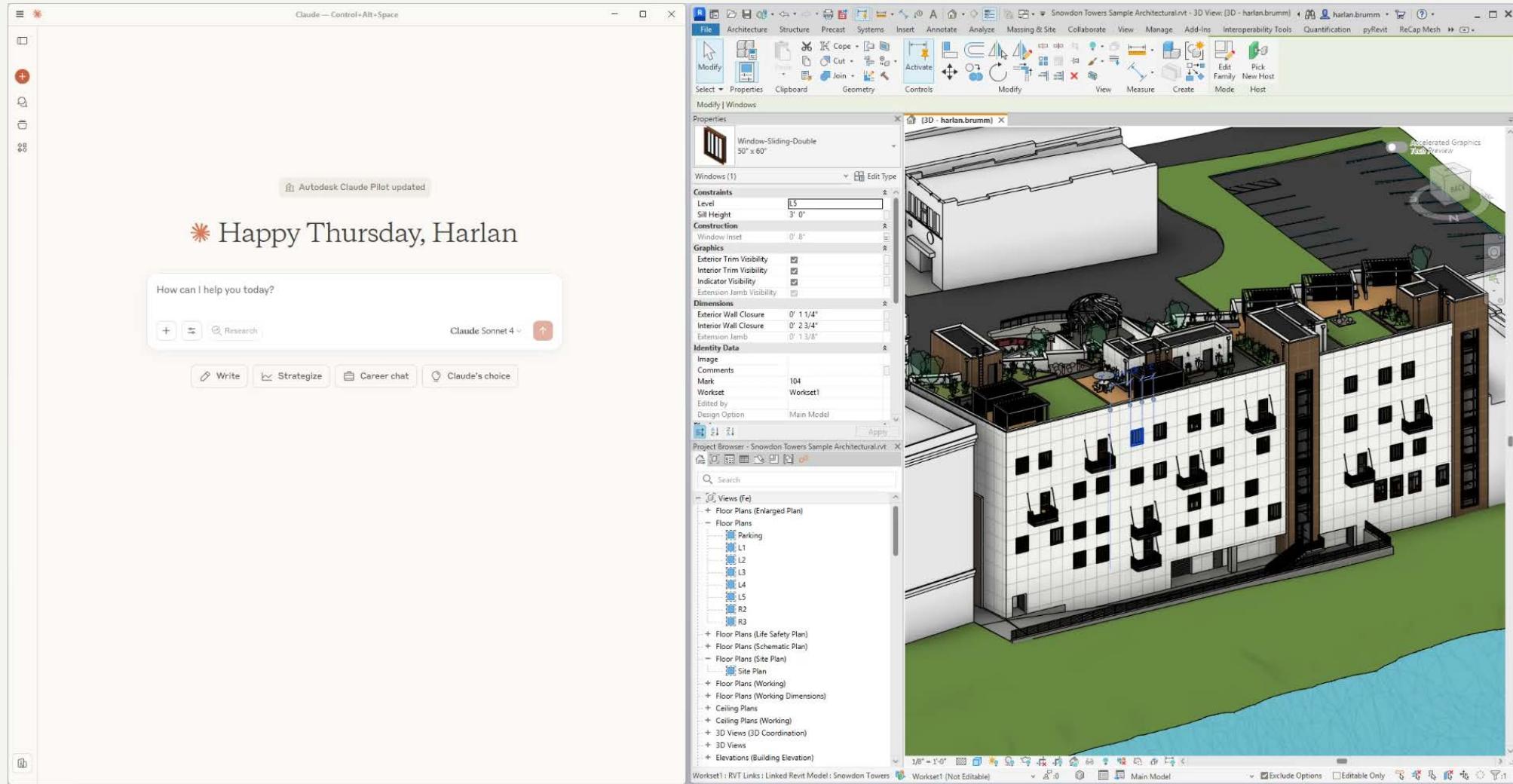


What does Model Context Protocol mean ?



MCP Servers and Revit

Create a dashboard for analyzing the Window to Wall Ratio for a Façade.

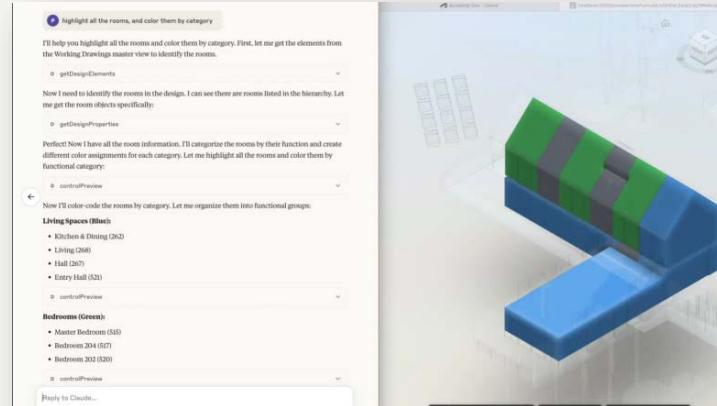


Autodesk MCP Server Betas - Coming Soon!



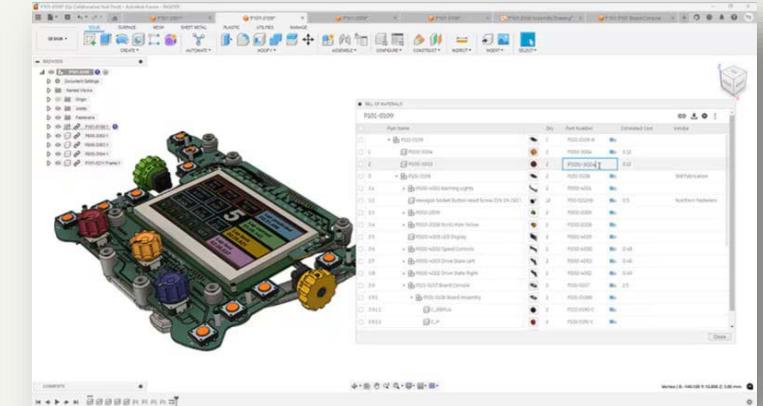
Autodesk Revit MCP Server

Unlock new possibilities in Revit, seamlessly connect, automate, and innovate with the next generation of intelligent tools.



Autodesk Model Data Explorer MCP Server

Access, visualize, and explore (volumes, areas, counts, etc.) the model data for all 70+ file formats supported by APS.



Autodesk Fusion Data MCP Server

Invite Fusion collaborators, manage projects, search for data, and add component properties.



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