



# Struct.IQ

BY AEC

Letting AI code in our design tools  
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# Artificial Intelligence changes our business fundamentally

-> 40%  
Engineering

-> 50%  
Gen design

Market  
adapts

Key is to understand how to get going

Sources: *McKinsey & Company* reports on automation and digitization in construction, which project significant labor savings from AI-driven technologies. *Deloitte's* insights on AI in construction discuss how AI can improve productivity in areas like design, simulation, and material management. *Autodesk's* research on Building Information Modeling (BIM) highlights how AI is expected to streamline tasks like design updates and project management. *World Economic Forum (WEF)* has explored the broader implications of AI and robotics on reducing manual work hours across industries, including construction. Industry expert projections from sources like *Construction Dive* and *Engineering News-Record (ENR)* also estimate the extent to which AI will automate design and engineering tasks.

# 3 Questions

- What is your main concerns today utilizing AI?
- How would you make sure the tool is used
- How would you connect business value to the gain?

If successful – possibilities are almost endless



# Main concerns today utilizing AI?

Validity – the mirror, code  
Judge



Security – customer owns data  
and training



# How to make sure its used

Reusable – simple worksharing



Natural – embedded,  
interconnected



# Business value to gain?

Competitiveness in projects  
and tenders



Increased value – Quality, risk,  
staff use

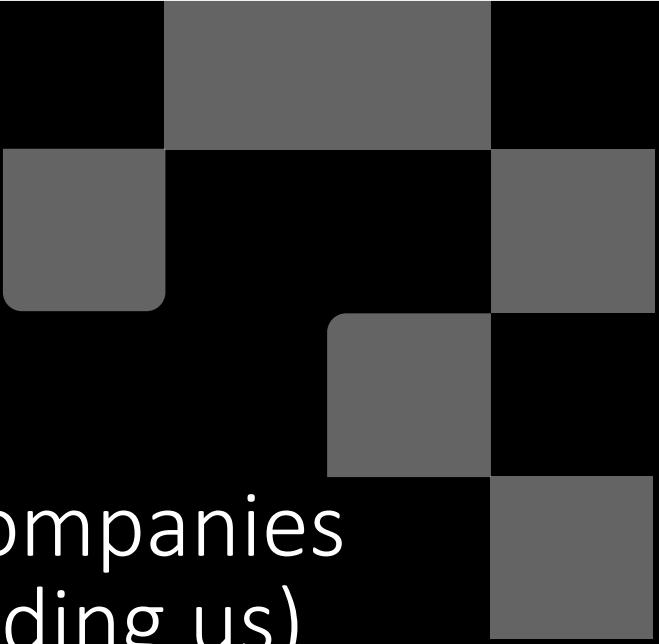




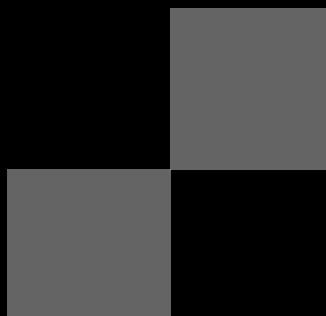
The value is not that we connected AI to tools. It's the skillsets we train it with and the reliability given back.

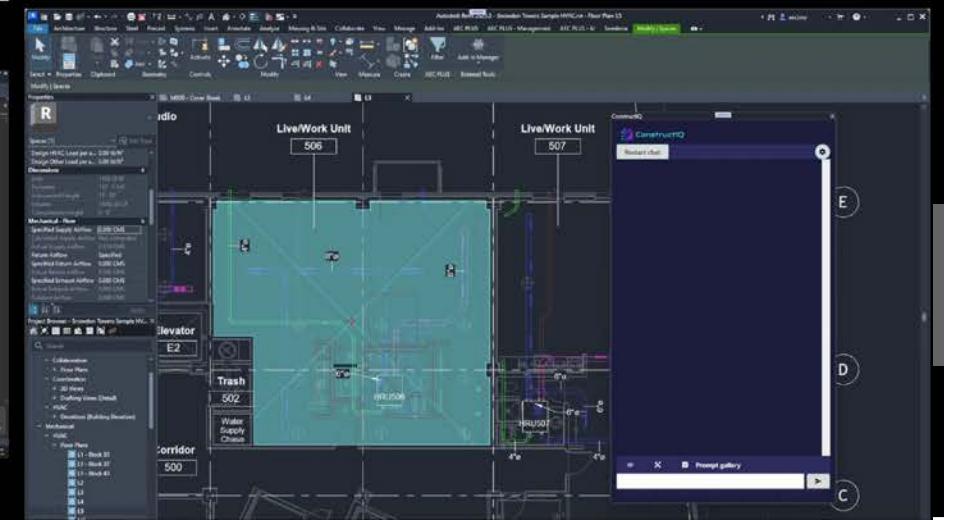
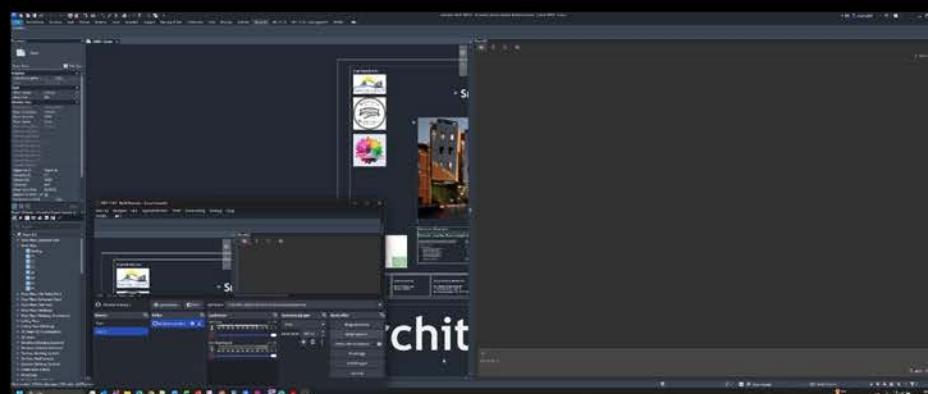
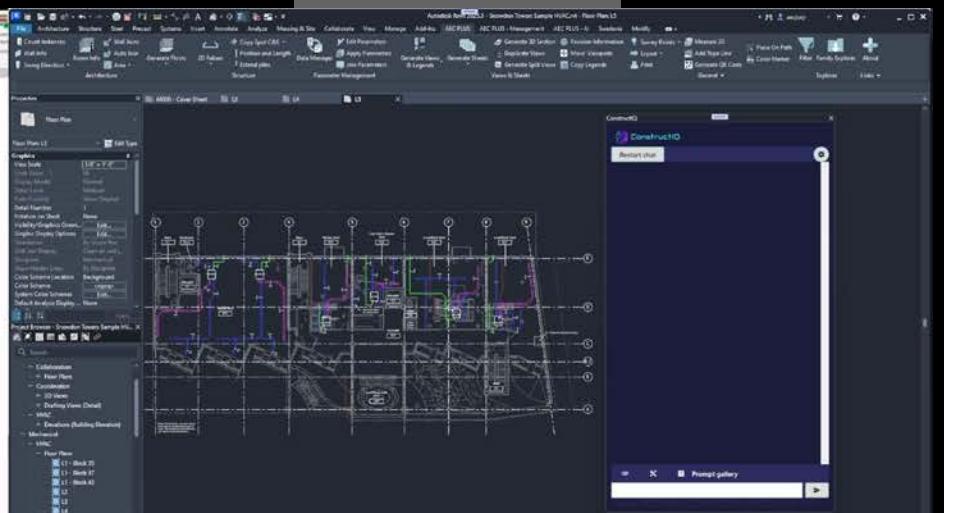
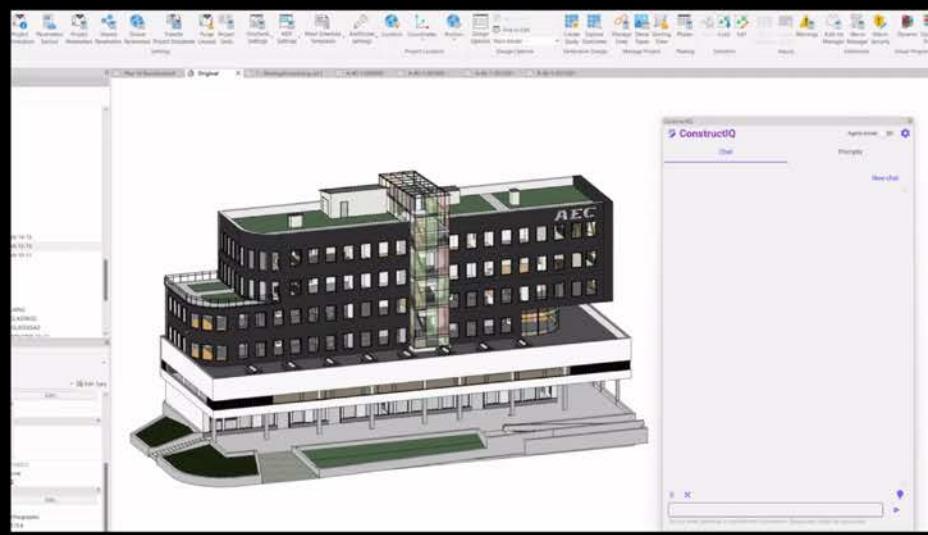


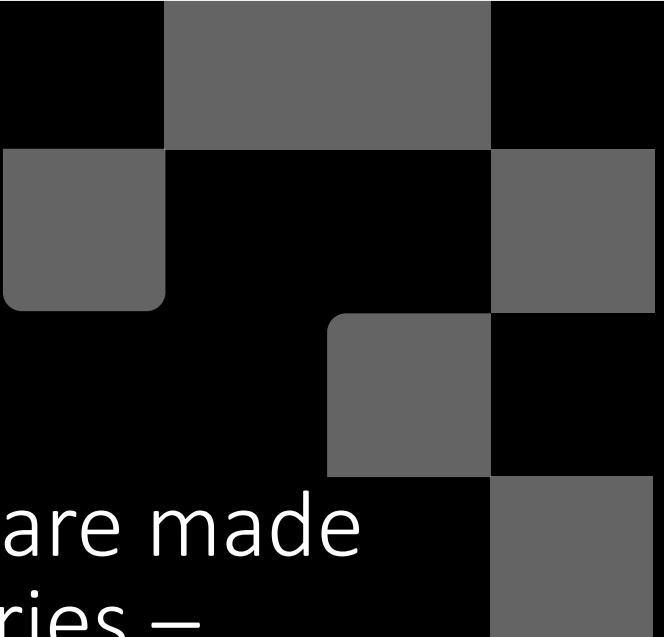
- Explain (prompt)
- Store (library)
- Share (company)
- Combine (Collections)
- Automate (Agentic collections)



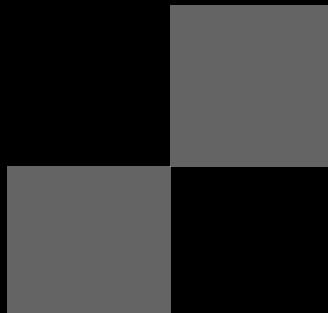
We let over 20 companies  
roam free (including us)

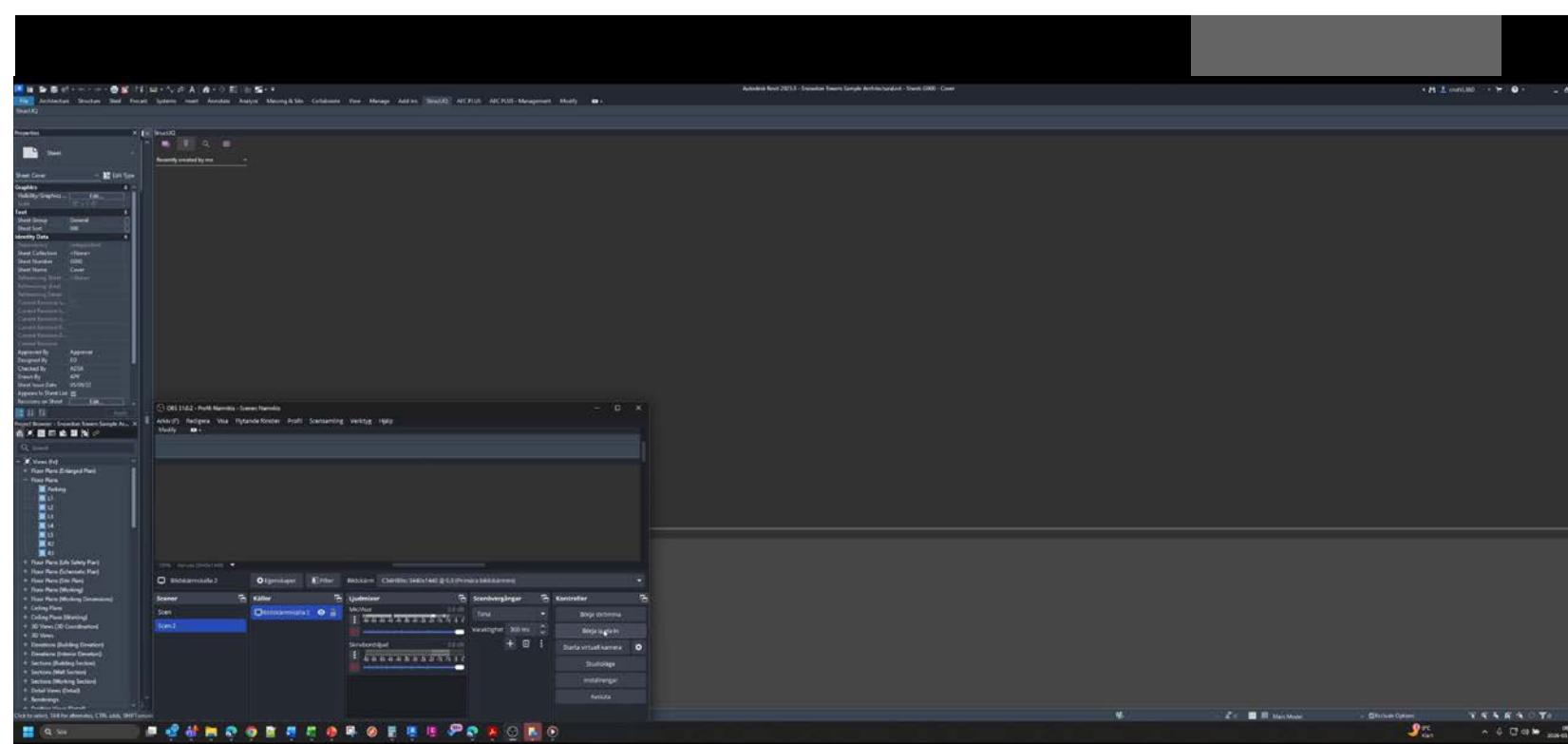






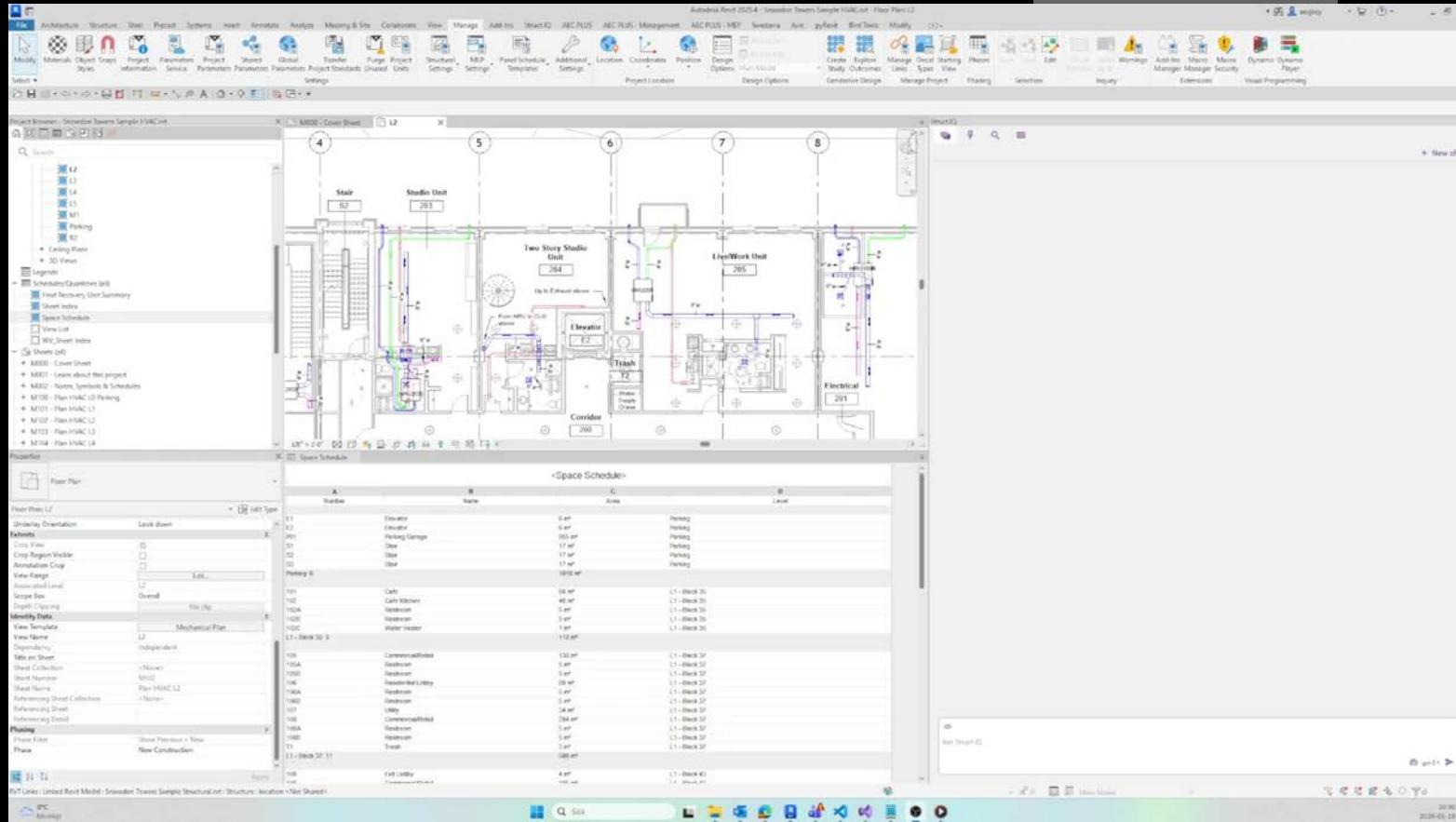
Reliable prompts are made  
as static libraries –  
shareable in company





Example; MEP standard project startup specific sequence  
Made from MEP prompters, reused by anyone

## Distributing and calculating airflow in vents, validating to Swedish standard





Future ?  
Agentic flow spanning over  
all project

Actions

Action Tasks

Assistant

Available tasks

Search

Action group

Action

AI Agent

Use a AI Agent to perform the operation described. Can use MCP tools to get the job done.

ArcGIS Delete Task

Use this task to delete files from ArcGIS online

ArcGIS Download Task

Use this task to download files from ArcGIS to your device

Assistant Extension

Select from a range of extensions built for Assistant, configure to your needs and run.

AutoCAD Extension

Select from a range of extensions built for AutoCAD, configure to your needs and run.

Batch script

Run a batch script (.bat)

BIM 360/ACC Download

Download files from BIM 360/ACC.

BIM 360/ACC Upload

Upload files to BIM 360/ACC.

Close AutoCAD

Closes the active AutoCAD instance. AutoCAD will stop immediately.

Close Dynamo

Close the active Dynamo instance

Close Navisworks

Closes the active Navisworks instance. Navisworks will stop immediately.

Close Revit

Closes the active Revit instance. Revit will stop immediately.

Close Revit model

Close a Revit model

Close Solibri

Closes the Solibri started by the "Start Solibri" task

Close Tekla

Closes the active Tekla instance. Tekla will stop immediately.

Conditional

Use this task to set up conditions for your tasks to be executed. Conditions: if, elseif and else.

Coordination Tool refresh mappings

Refreshes all the mappings in Coordination tool

Copy directory

Copies a directory

Copy file

Copies a file

Create folder

Creates a folder

Delay

Delays execution of next task by specified amount of time

Drag tasks here

New action +

No actions checked

Assistant

AutoCAD

Cloud

Dynamo

Navisworks

Revit

Scripting

Solibri

Tekla



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