



# Building Better Building Information Modeling

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Construction Design Solutions





**Building  
information  
modeling (BIM)**



**Cloud  
collaboration  
offerings**



**Autodesk  
University 2022  
announcements**



**Building  
information  
modeling (BIM)**



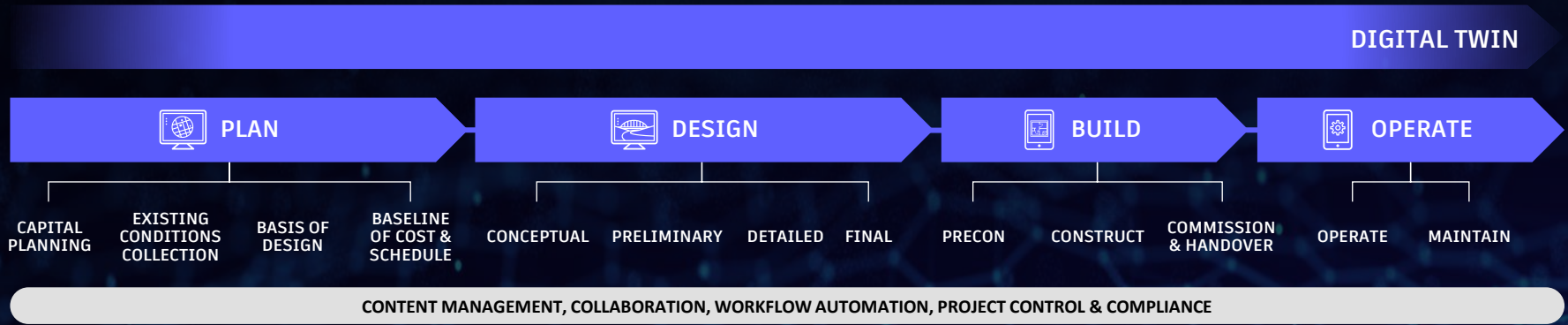
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# BIM is the backbone of digital transformation

Empowering seamless collaboration, decision making and better outcomes for all stakeholders, and built on a connected data experience allowing continuous iteration and improvement.



# Digital transformation enables better outcomes



## Informed design exploration

Relying on data and reasoning to generate options and predict outcomes



## Automate / eliminate repetitive tasks

Shifting the burden of non-creative tasks from the user to the system



## Maintain design continuity throughout workflows

Supporting coordinated, but not fully consistent models created for different purposes and LODs



## Design for constructability

Providing ways to capture project goals and constraints to minimize errors downstream



## Support models as deliverables

Increasing trust in BIM and reliance on models as the single source of truth



## Manage, reuse, and share BIM data

Flexibility to access current and past project data from different tools and transform it to the desired form.



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# Cloud collaboration offerings

Customer  
pain points



Disconnected data



Disconnected teams



Disconnected workflows

Solutions

**D** AUTODESK®  
DOCS

Access controls,  
secure, centralized data,  
monitoring dashboards

**C** AUTODESK®  
BIM COLLABORATE

Better project data,  
better predictions,  
more transparency

**C** AUTODESK®  
BIM COLLABORATE PRO

Anytime, anywhere  
collaboration, web applications,  
flexible solutions

Outcomes

**Operational efficiency**

Better team collaboration  
& data handover

**Risk mitigation**

Reduce errors & rework, manage  
complexity and client demands

**Business growth**

Improve win rate, client  
satisfaction, project forecasting  
and more

# Cloud collaboration offerings

**C** AUTODESK®  
**BIM COLLABORATE PRO**

**Design  
Team**

- Designers across disciplines, model authors

**C** AUTODESK®  
**BIM COLLABORATE**

**Project Team**

- Project managers, owners, non-authoring reviewers
- AutoCAD users

**D** AUTODESK®  
**DOCS**

**Extended Stakeholders**

- Adjacent business functions (planning, finance, compliance)
- Public / governmental reviewers



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**PLAN**



**DESIGN**



**BUILD**



**OPERATE**



PLAN



DESIGN



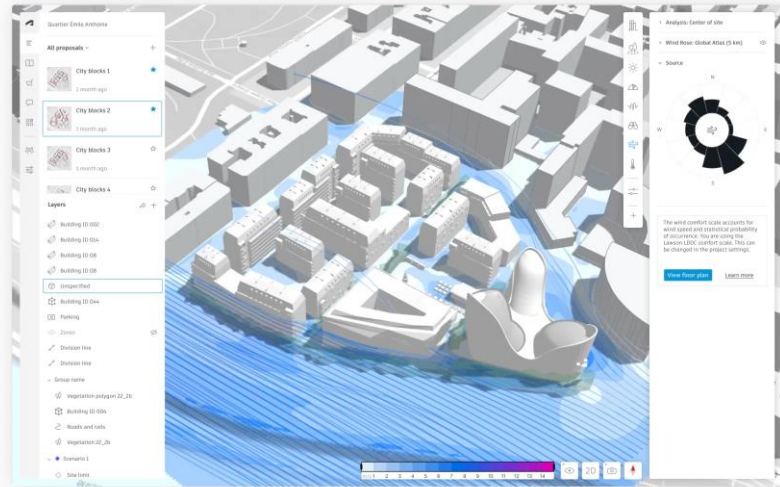
BUILD



OPERATE

# Autodesk Forma

Spacemaker AI and  
predictive analysis





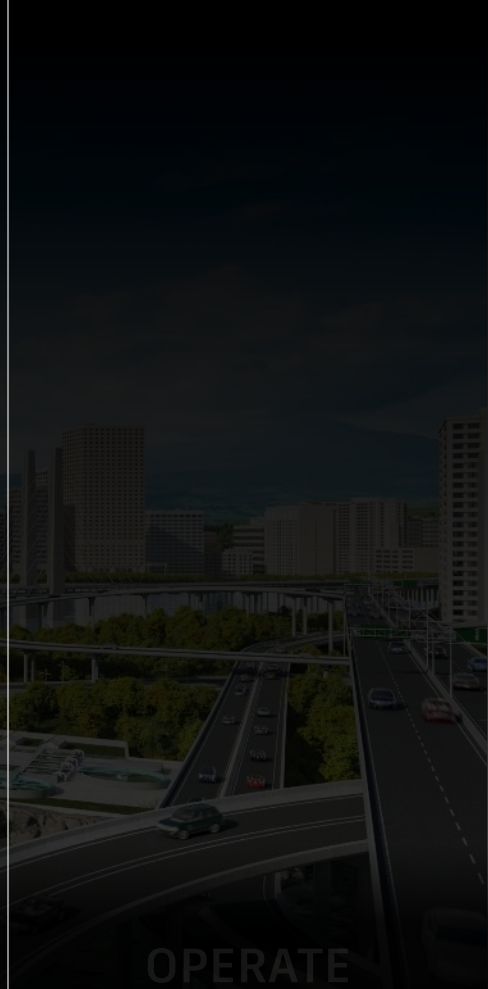
PLAN



DESIGN



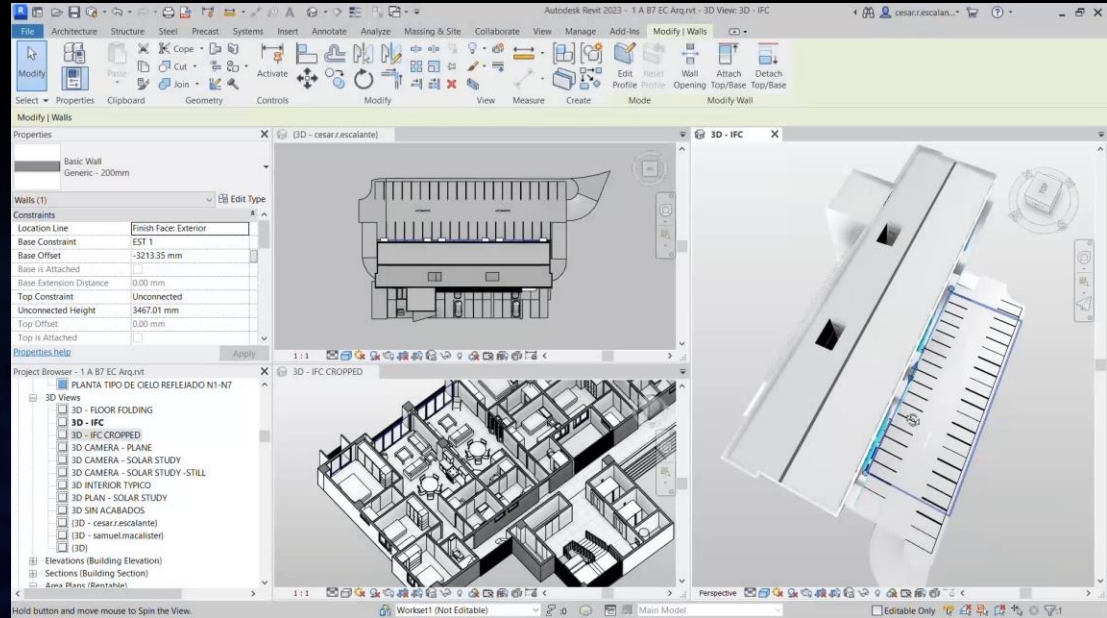
BUILD



OPERATE

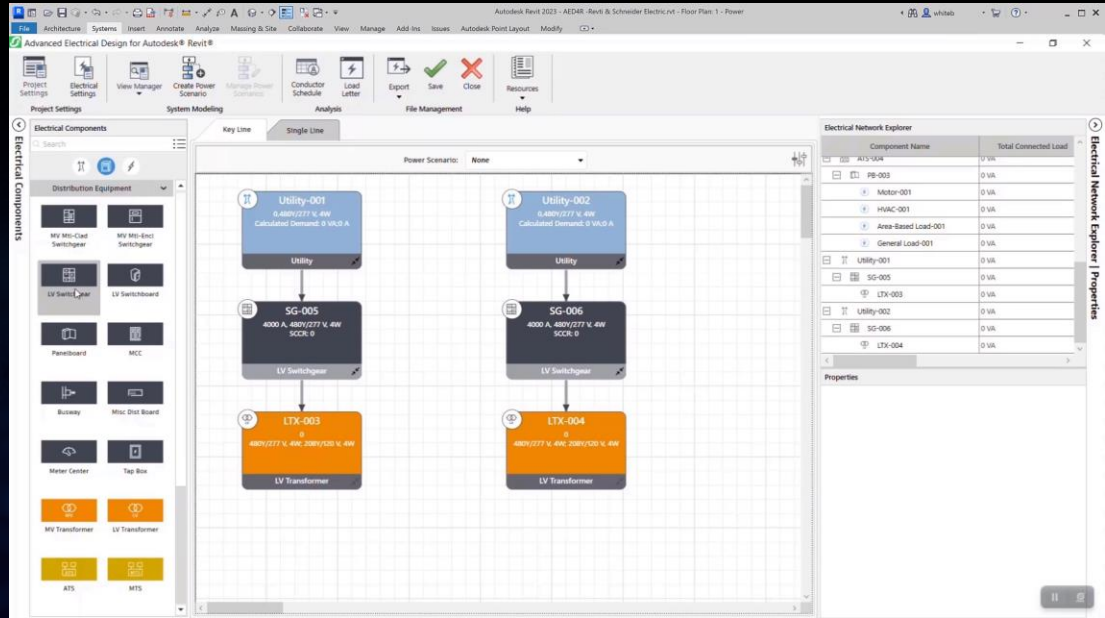
# Unlocking the value of design data in Revit

IFC 4.3 support



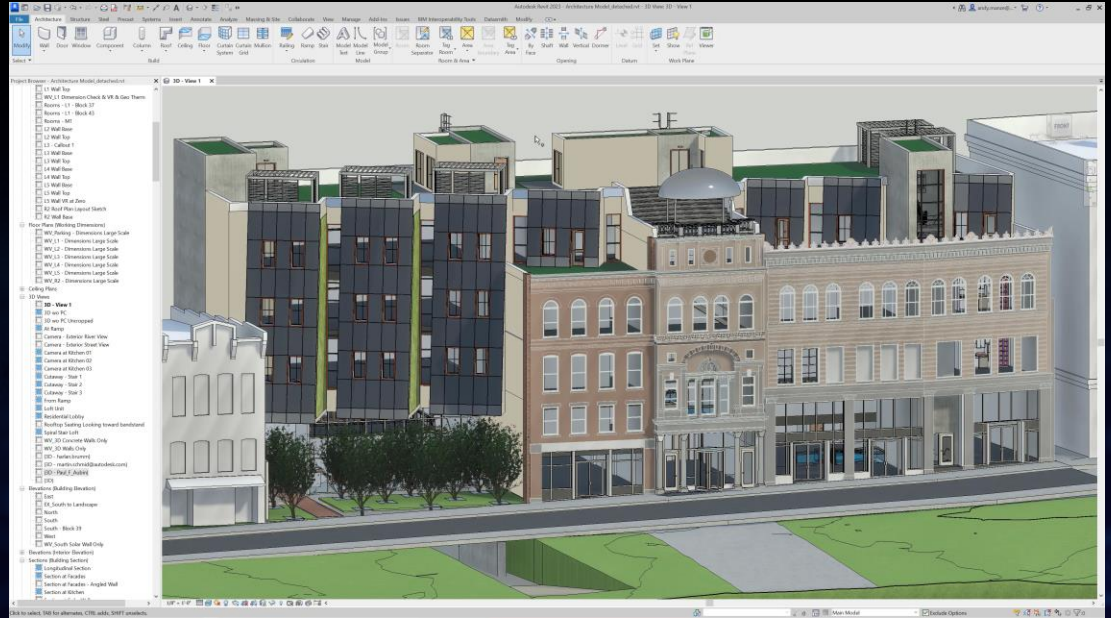
# BIM-based workflow for electrical engineering

Revit-based extension from Schneider Electric



# New visualization capability in Revit workflow

Revit to Twinmotion integration



# Collaboration for Civil 3D

The screenshot shows the Autodesk Construction Cloud interface for a project named "Morpheus Station". The interface is divided into several sections:

- Navigation Menu (Left):** Includes Home, Issues, Project Status, Changes, Meetings, Reports, Members, and Settings.
- Project Model (Top):** Displays a 3D model of the project with various layers and components. The layers listed in the legend are: Architectural, Civil Structures, Drainage, Geotechnical, MEP, Parking Garage Tiers, Plant, and Roadway.
- Rail Section (Bottom):** Contains a search bar and a table of models.

Models	Sheets	3D views	References	Update date
SWR_Rail_PLAN_SHEET.dwg	24	1	<a href="#">🔗</a>	Apr 13, 2021 10:12 AM
SWR_Rail_Alt-O2_Corridor.dwg	1	1	<a href="#">🔗</a>	Apr 13, 2021 10:00 AM
SWR_Rail_Alt-O2_Align.dwg	1	1		Apr 13, 2021 8:26 AM
SWR_Rail_Alt-O2_OCS.dwg	1	1		Mar 2, 2021 2:50 PM
SWR_Rail_Alt-O2_Ties.dwg	1	1		Mar 2, 2021 2:48 PM
SWR_Rail_Alt-O2_Yard_OCS.dwg	1	1		Mar 2, 2021 2:45 PM



PLAN



DESIGN



**BUILD**



OPERATE

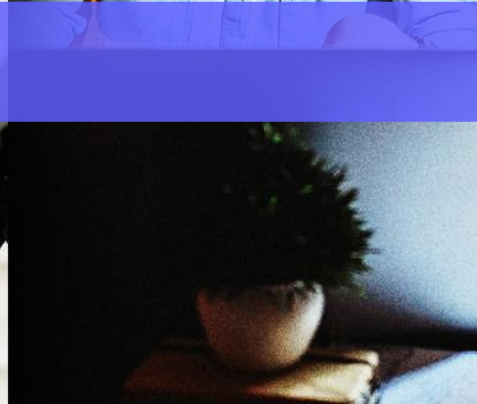
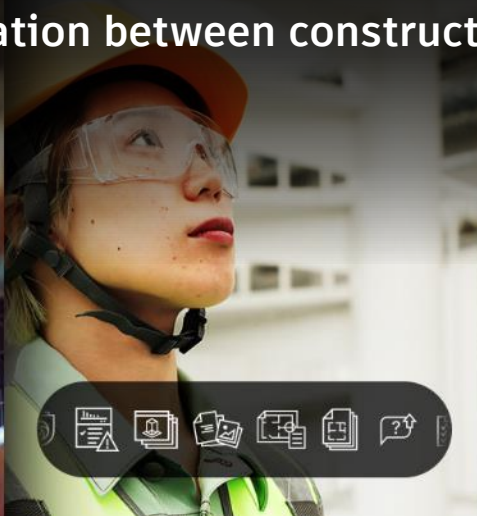
# Bridge in Autodesk Construction Cloud

Simplified collaboration between construction cloud projects



# Bridge in Autodesk Construction Cloud

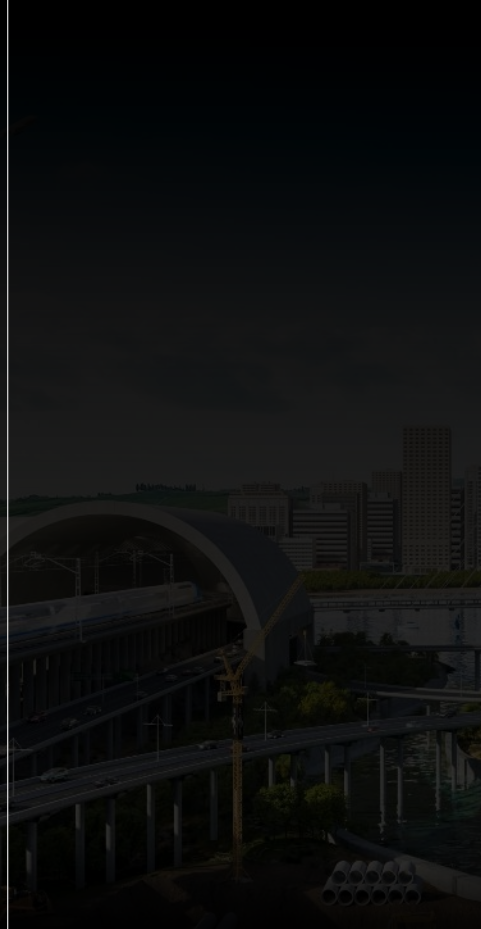
Simplified collaboration between construction cloud projects







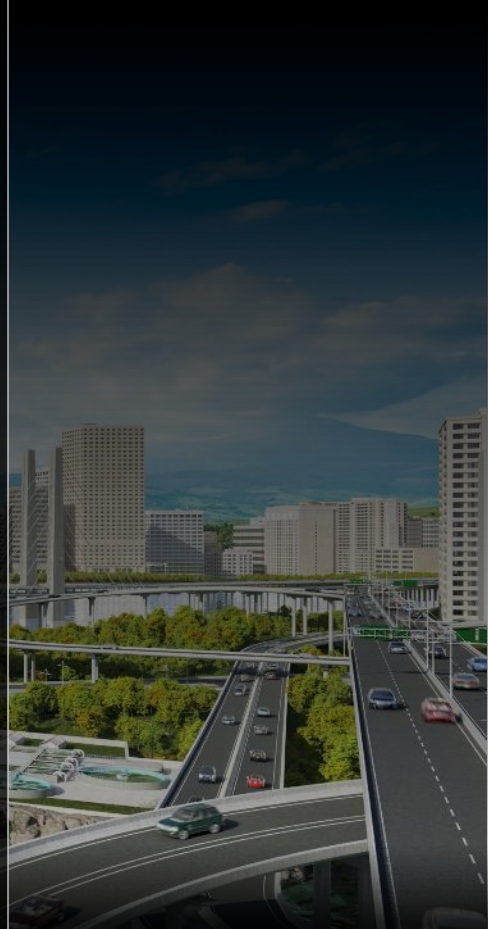
PLAN



DESIGN

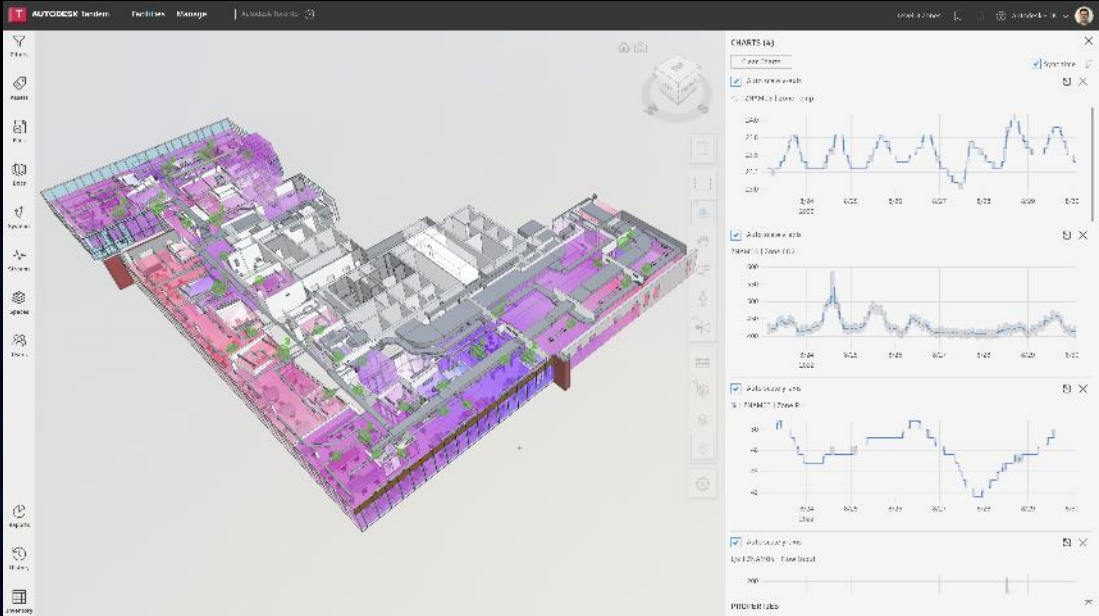


BUILD



OPERATE

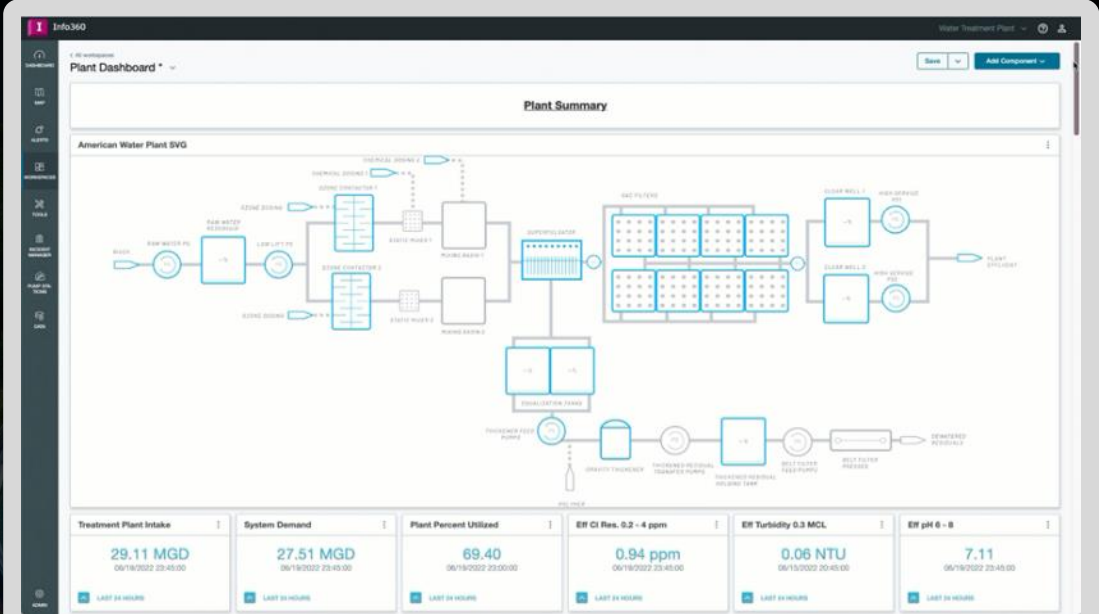
# Tandem extends digital thread to facility monitoring





Info360 Plant

# Building a resilient water infrastructure





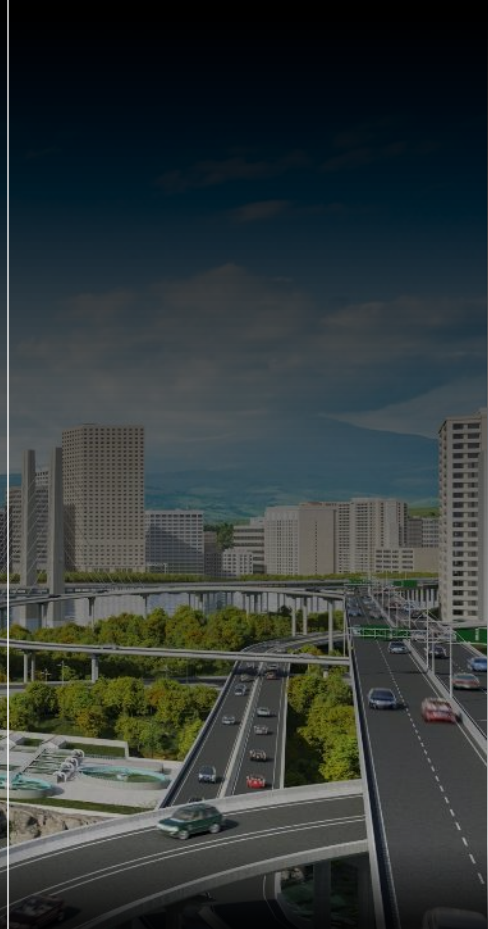
**PLAN**



**DESIGN**



**BUILD**



**OPERATE**

## PLAN

- Autodesk Forma

## DESIGN

- Revit IFC certification
- Advanced electrical design for Revit (Schneider Electric partnership)
- Twinmotion (Epic Games partnership)
- Collaboration for Civil 3D

## BUILD

- Bridge in Autodesk Construction Cloud

## OPERATE

- Tandem
- Innovyze

