



CS-473436: Project Management and Field Management with Autodesk Construction Cloud

Ilai Rotbaein

Sr. Director Autodesk Construction Cloud

Dave Mendelson

Director Autodesk Construction Cloud

Safe Harbor

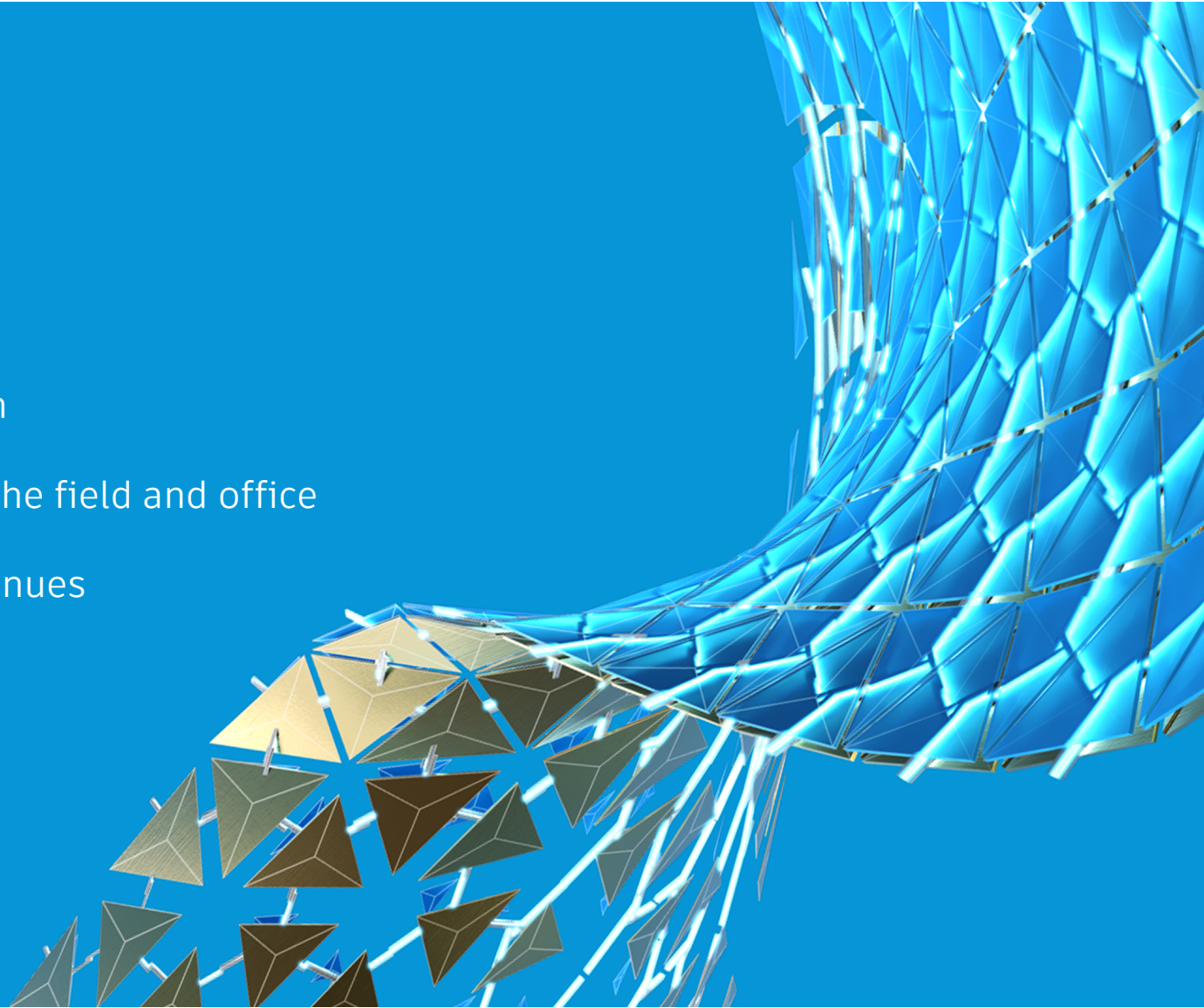
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Agenda

1. Setting the foundation
2. A unified offering for the field and office
3. The construction continues





About the speaker

Ilai Rotbaein

Sr. Director at the Autodesk Construction Cloud product line.

Joined Autodesk at 2009 with the acquisition of VisualTao (AutoCAD Web & Mobile) and served in multiple roles leading AEC SaaS products at Autodesk including A360 and BIM 360. I

focused most of my career on developing products for improving the collaboration and efficiency in the design and construction workflows. I'm passionate about everything related to leveraging technology in order to improve the project delivery cycle and address the challenges throughout that process.



About the speaker

Dave Mendelson

Director at the Autodesk Construction Cloud product line. I have over 20 years of experience in the technology industry, working in both Engineering and Product Management. In my past, I've had Product leadership roles at a variety of consumer and enterprise technology companies. I'm passionate about building collaborative enterprise products with the ease of use we all expect from consumer products.

An aerial photograph of a construction site, overlaid with a semi-transparent blue filter. The image shows several rectangular concrete foundations for buildings, some of which are partially filled with construction materials. A large pile of yellow and white boxes or bags is visible in the upper center. A yellow crane is positioned on the left side, and another crane is visible in the upper left. The surrounding area includes roads, parking lots with cars, and other buildings. The text "Setting the foundation" is centered in white, bold, sans-serif font.

Setting the foundation

A background image of a construction site, including cranes, scaffolding, and workers, overlaid with a solid blue color. The text "\$11.3T" is centered in white.

\$11.3T



Winning work

Low Margins

Broken Processes

Avoidable Rework

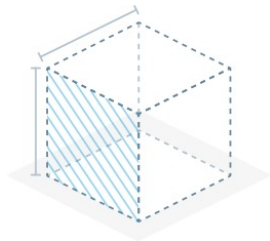
Project Delays

Rising Complexity





AUTODESK CONSTRUCTION CLOUD™



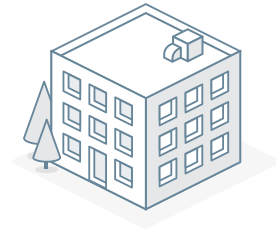
DESIGN



PLAN



BUILD



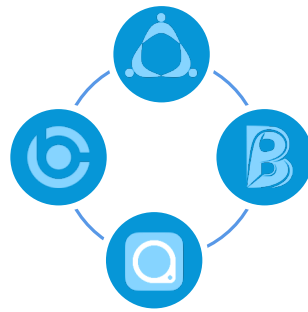
OPERATE

Where we've been



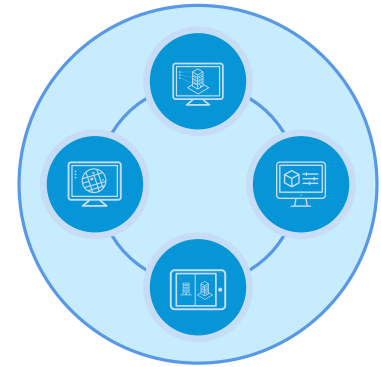
Continued Investment

continue building and enhancing the champion features across all our core products



Meaningful Integrations

create integrations between these products so that they may more effectively be used together



Unification

build a unified platform where all champion features come together under a single log-in for seamless adoption of features across the full digital building lifecycle

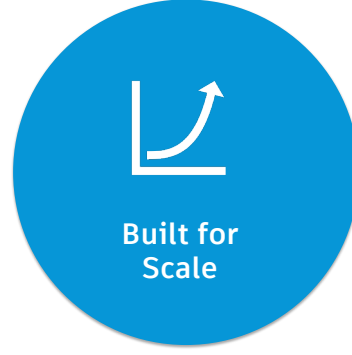
An aerial photograph of a construction site, heavily overlaid with a semi-transparent blue filter. The image shows several multi-story buildings under construction, with visible scaffolding and structural elements. In the center, there is a large, irregular pile of construction materials, possibly bricks or tiles, arranged in a grid-like pattern. Various construction vehicles, including cranes and trucks, are scattered throughout the site. The overall scene depicts a busy urban construction environment.

A unified offering
for the field and office

Bringing the best together



Unified Architecture





AUTODESK CONSTRUCTION CLOUD™

AUTODESK BIM COLLABORATE

AUTODESK QUANTIFY

AUTODESK BUILD

Capabilities	Design Collaboration	Coordination	Quantification	Project Management	Cost Management	Quality	Safety	Project Closeout
Workflows	<ul style="list-style-type: none">• Constructability Review• Change Visualization• Revit Collaboration	<ul style="list-style-type: none">• Model Coordination• Constructability Review• Quality Planning• Issue Management	<ul style="list-style-type: none">• Scope Analysis• 2D/3D Take Off	<ul style="list-style-type: none">• RFIs• Submittals• Meeting Minutes• Daily Reports• Progress Tracking	<ul style="list-style-type: none">• Contract Creation / Administration• Change Orders• Payment Applications• Forecasting	<ul style="list-style-type: none">• Quality Planning• Quality Checking• Punchlists• Issue/Task Management	<ul style="list-style-type: none">• Safety Planning• Safety Training• Safety Observations• Safety Inspections	<ul style="list-style-type: none">• Commissioning• Turnover Documentation• Warranty Mgmt.• Final Completion• As-Built Survey
	Document Management							
Unified Data		Models · Drawings · Documents · Cost Items · Assets · As-Built · Photos · Videos						
Insights		Dashboards · Reports · Construction IQ · Data Connector						
Admin		Admin Console · Permissions · Project Setup · Templates · Notifications						





**Team
Collaboration**



**Connected
Workflows**



**Predictable
Outcomes**



**Team
Collaboration**



**Connected
Workflows**

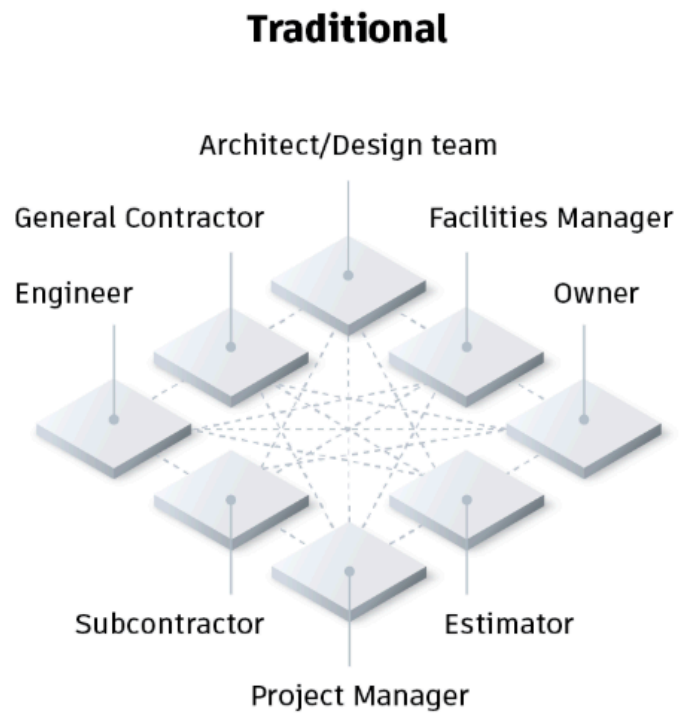


**Predictable
Outcomes**

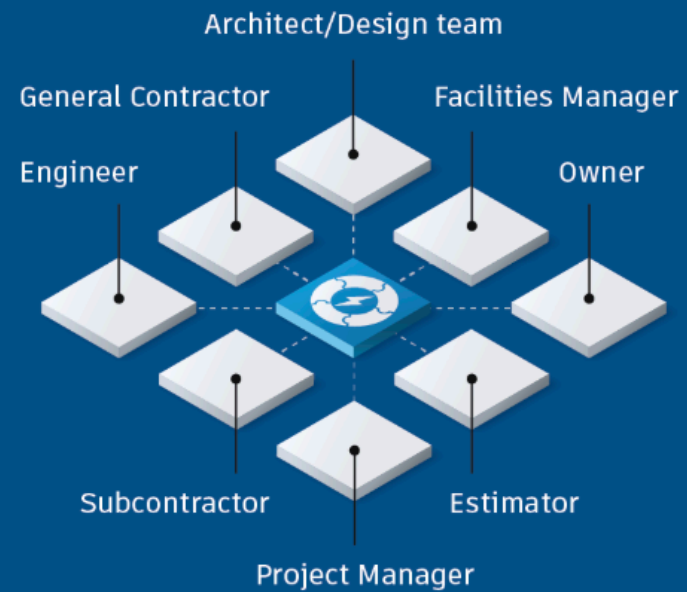
Common Data Environment

“The Common Data Environment (CDE), is the single source of information used to collect, manage and disseminate documentation, the graphical model and non-graphical data for the whole project team. Creating this single source of information facilitates collaboration between project team members and helps avoid duplication and mistakes.”

Common Data Environment



Common Data Environment (CDE)



Field Management



Publishing sheets to projects

Seaport Civic Center

DocsJohn Sanner

Documents

Documents

Distributed

As-Builts

ASIs

Bids

consultants

Contracts

Correspondence

Field Reports

Look Ahead Schedules

Safety

Specifications

Submittal Documents

Upload files

Search

Deleted Items

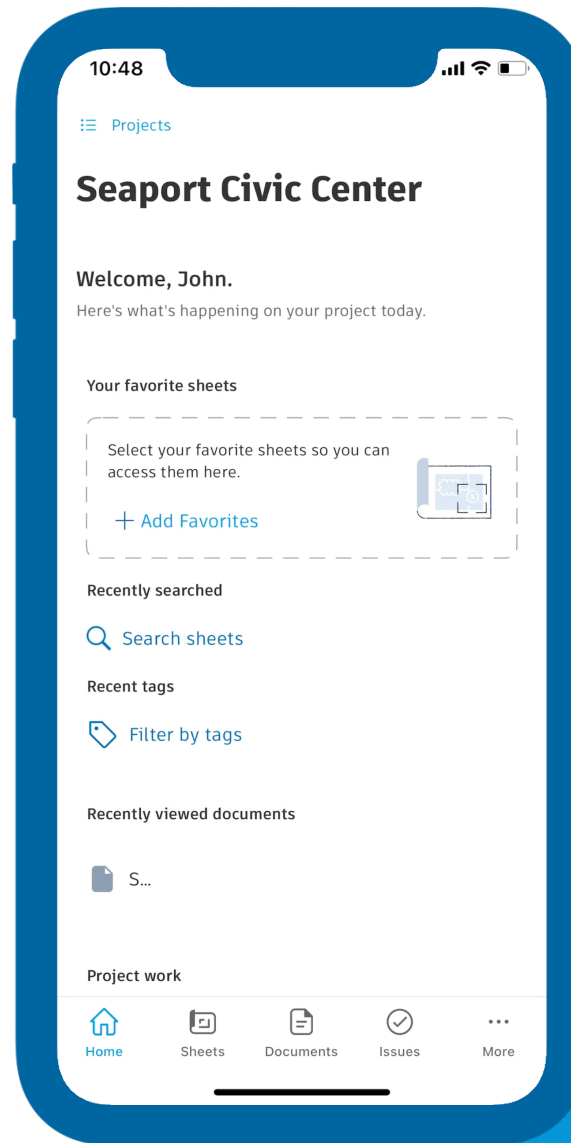
Settings

Name	Description	Version	Markup	Size	Last updated	Updated by	Stat
<input type="checkbox"/> Distributed	--	--	--	--	Sep 11, 2020 3:59 P...		--
<input type="checkbox"/> Submittal Documents	--	--	--	--	Sep 13, 2020 9:48 ...	Leah Ho	--
<input type="checkbox"/> Contracts	--	--	--	--	Sep 13, 2020 9:50 ...	Leah Ho	--
<input type="checkbox"/> Field Reports	--	--	--	--	Sep 13, 2020 9:51 P...	Leah Ho	--
<input type="checkbox"/> As-Builts	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> Bids	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> Consultants	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> Correspondence	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> Look Ahead Schedules	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> Safety	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> Specifications	--	--	--	--	Oct 1, 2020 10:43 A...	Leah Ho	--
<input type="checkbox"/> ASIs	--	--	--	--	Oct 1, 2020 10:45 A...	Leah Ho	--

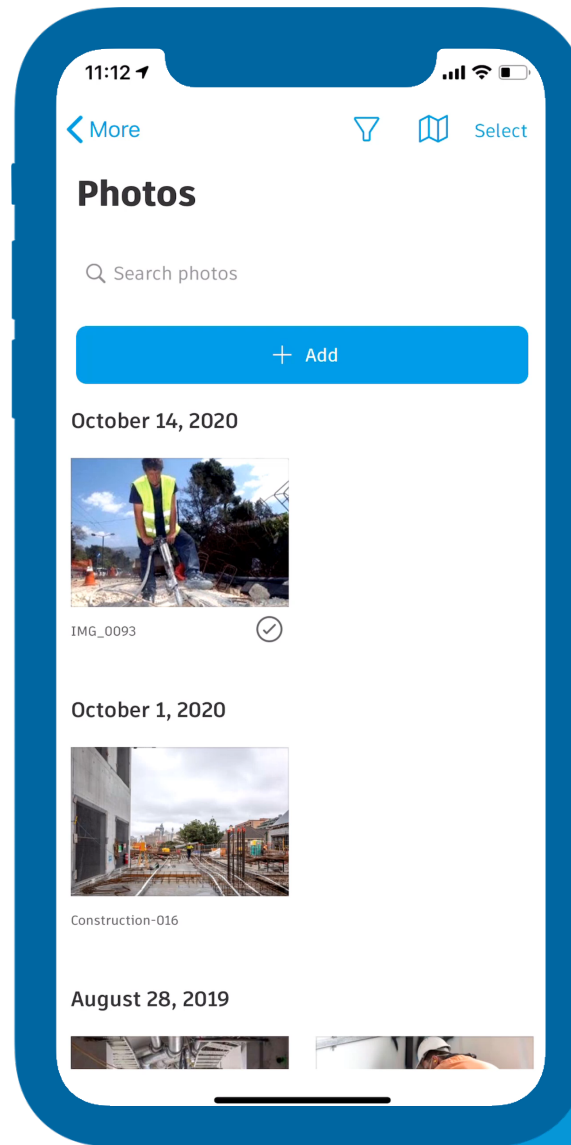
Showing 12 items



Sheets



Photos and Videos



Forms

1:35

Forms

Submit

(Draft) (Sample) Job Hazard...

This draft is only visible to you

Job Hazard Analysis Form

Project

Date

Project #

Location

Activity

Hazard

Corrective Action

Notes

Analysis Completed by

Signature

View

Report Date

Oct 20, 2020

ID

#6

Description

Add a description

Editable only by John S.

Once submitted, this report will be visible to 8 reviewers

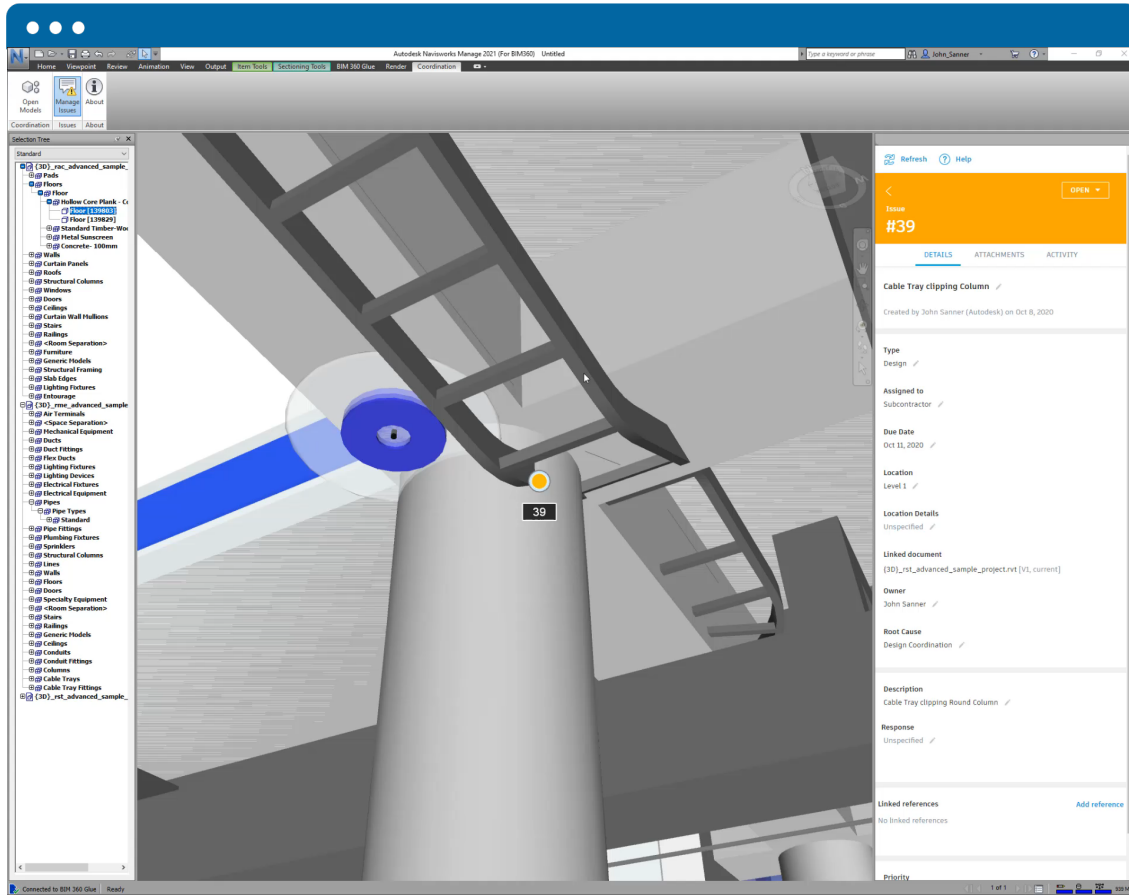
References

Photos and Videos

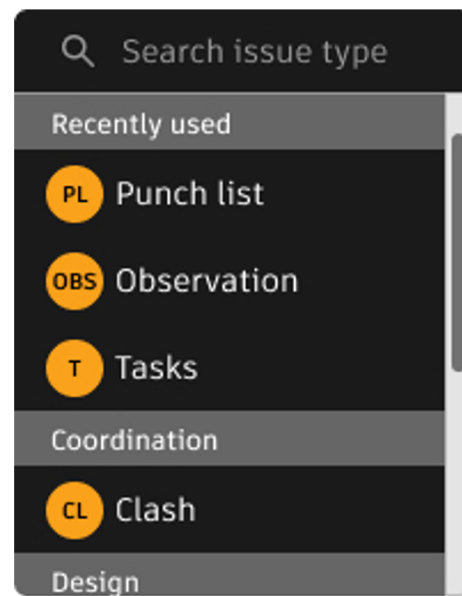
+ Add



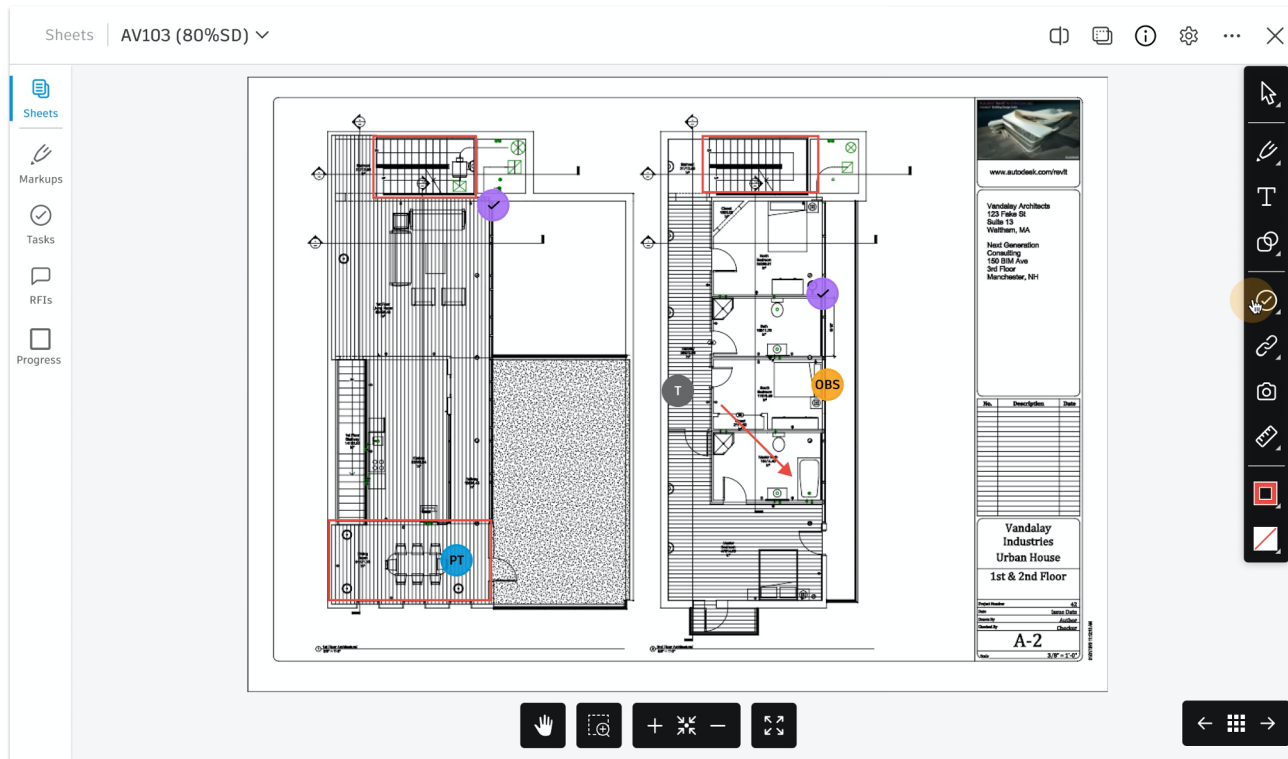
Issues



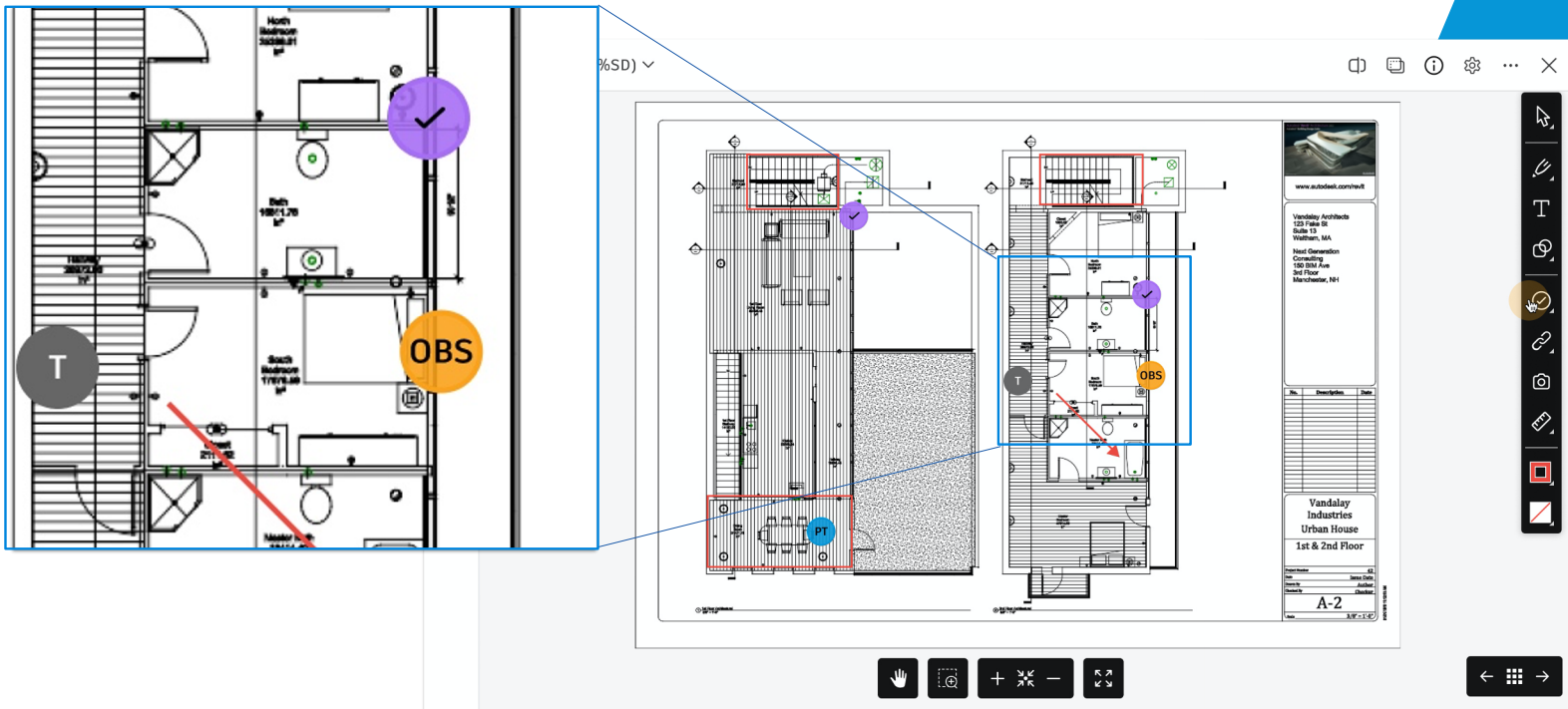
Issues



Issues



Issues



A man in a light blue shirt and a high-visibility yellow safety vest is sitting at a desk in an office or construction site. He is holding a black mobile phone to his ear with his left hand and resting his chin on his right hand. He is looking at a large computer monitor. The background shows shelves with various items. The entire image has a blue tint.

Project Management



**Team
Collaboration**

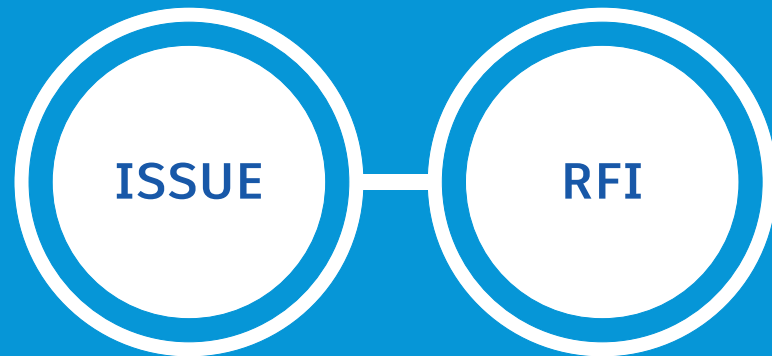


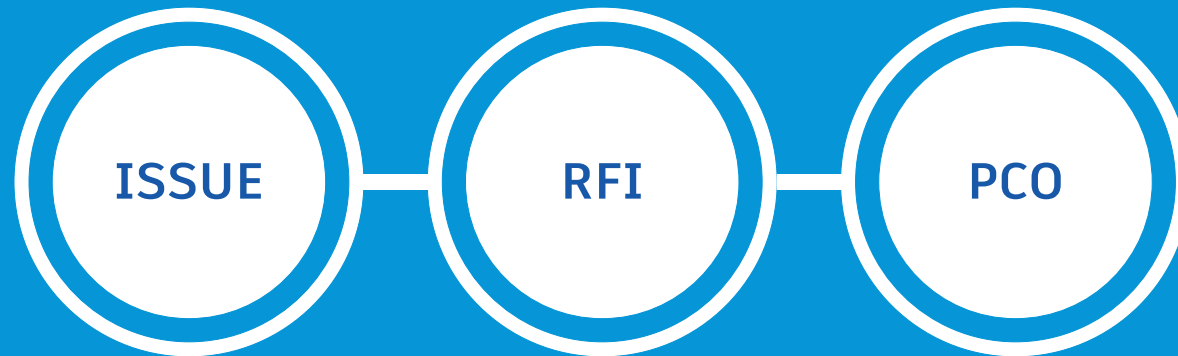
**Connected
Workflows**

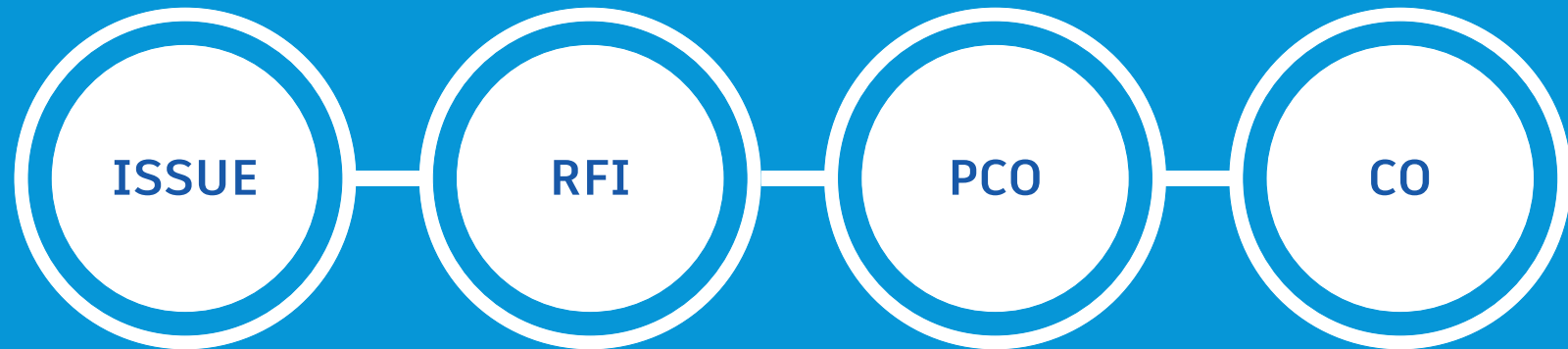


**Predictable
Outcomes**

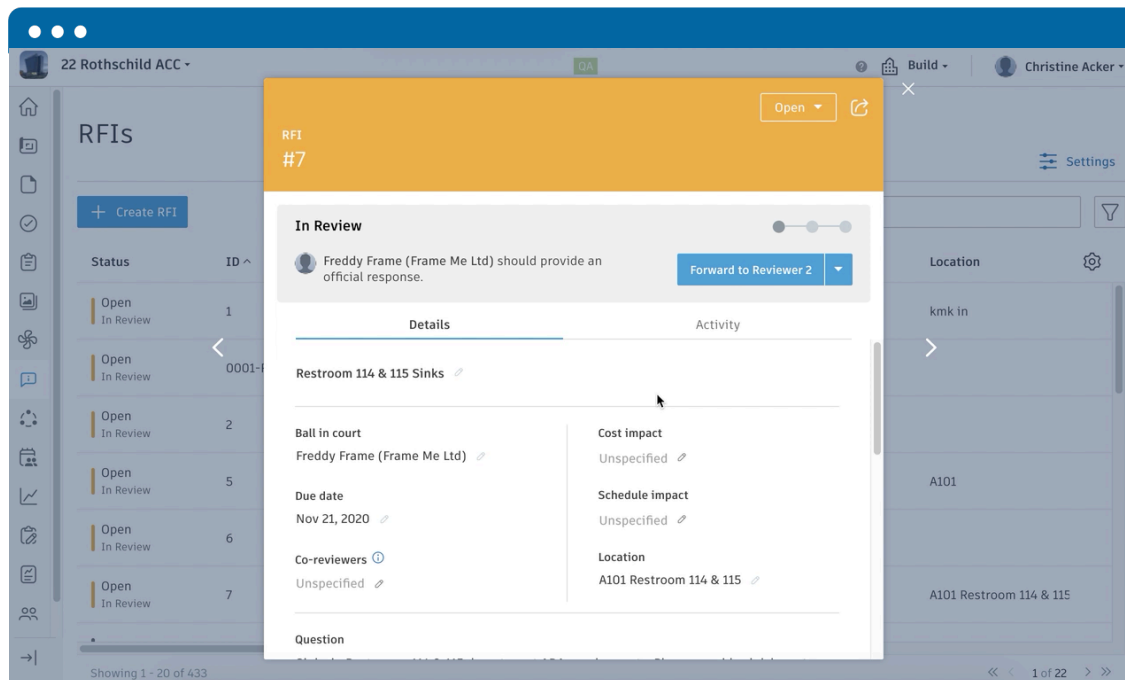








A look into the workflow



Managing Change Orders

400 Beale

Home

Income

Expenditure

Change Order

Documents

Reports

Team

Settings

Cost Item

PCO

RFQ

RCO

OCO

SCO

Settings

Add

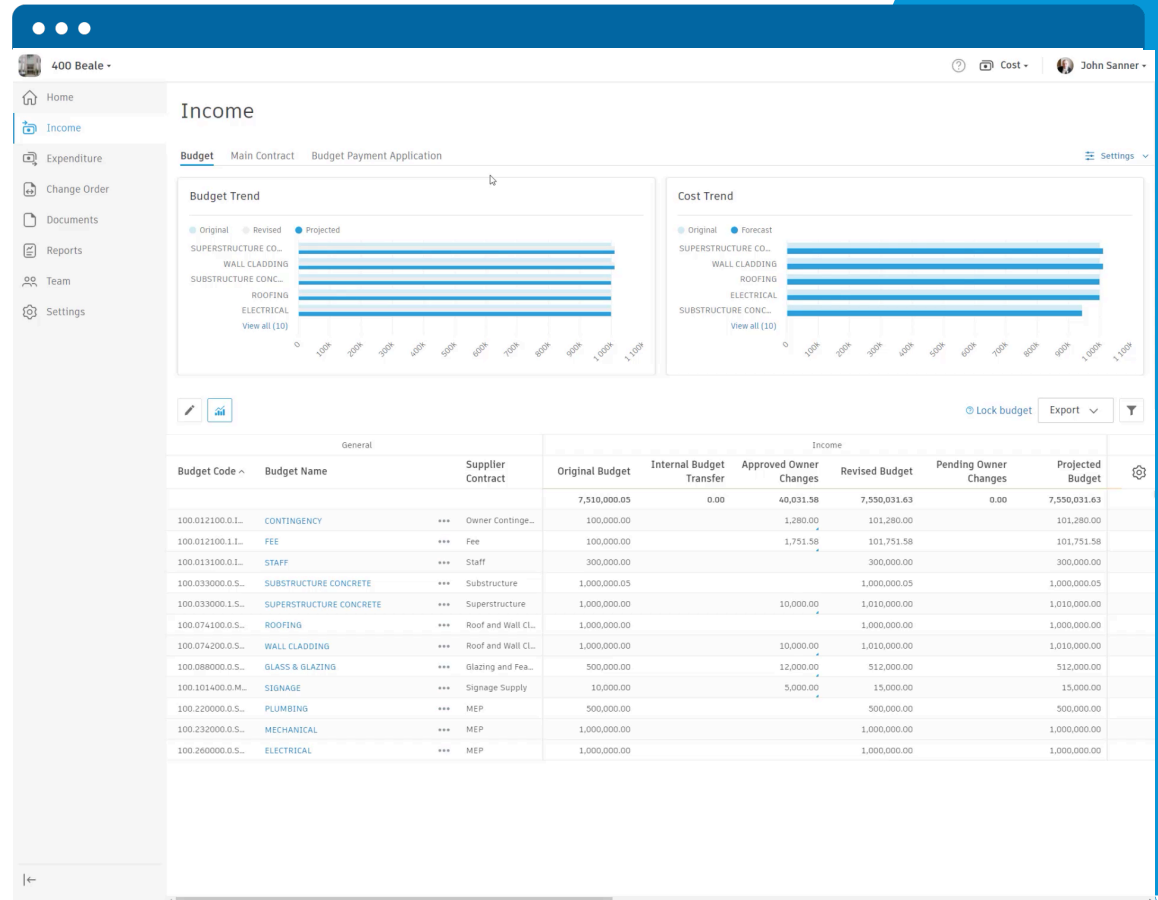
Export

	Number ^	Name	Scope	Type	Budget Code	Budget Name	Source Type	Source Ref #	Estimated	Propo
	Exp... Colla...								9,852.63	22,981
<input type="checkbox"/>	> P-0001	Additional Slab Openings	***	Out	Owner Change ...		ISSUE	001	9,852.63	10,941
<input type="checkbox"/>	> P-0002	Revised Signage Scheme	***	Out	Owner Directive		ASI	001		
<input type="checkbox"/>	> P-0003	Revised Entrance	***	Out	Owner Change ...		CCD	001	0.00	12,042



Connecting Cost

- Managing **Budgets, Contracts, Change Order, Expenses and pay applications**
- Seamlessly track the origin of change orders with **RFI to PCO**
- Integrate Cost Management with ERP** to streamline financial workflows
- Collaborate with **both Suppliers and Owners** within the platform with supplier/owner specific permission levels



Customizing Cost

- Custom:

- tab naming and layout
- attributes
- change order types and code format
- financial markups
- Documents/reports layout
- Calculated budget columns

The screenshot displays the 'Manage columns - Budget overview' interface. It features a table with budget data and a configuration panel for the 'Original Budget' column.

Income						Expenditure			
Original Budget	Internal Budget Transfer	Approved Owner Changes	Revised Budget	Pending Owner Changes	Projected Budget	Orig. Commitment	Approved Change Orders	Uncommitted Change Orders	Pending Change Orders
10,000.00	1,000.00	200.00	11,200.00	400.00	11,600.00	9,000.00	300.00	0.00	300.00

Buttons: Add new, Duplicate

Column configuration for 'Original Budget':

- Column name: Original Budget
- Column group: Income
- Position: < >
- Visibility: ☒ Visible by default

Drag and drop to add formula item:

- Base Value
- Column Value
- Number
- Parentheses

Formula editor:

Original Budget 10,000.00

= 10,000.00

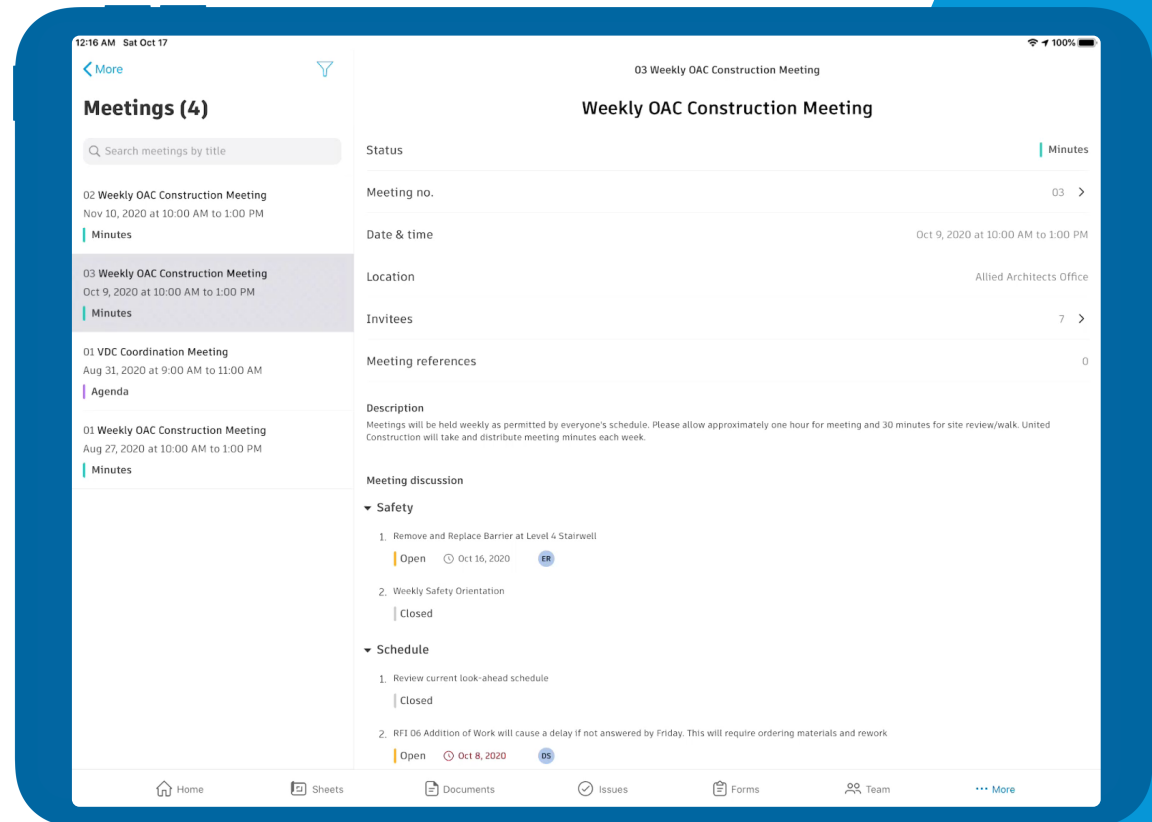
Bringing the best together

.....and improving on it



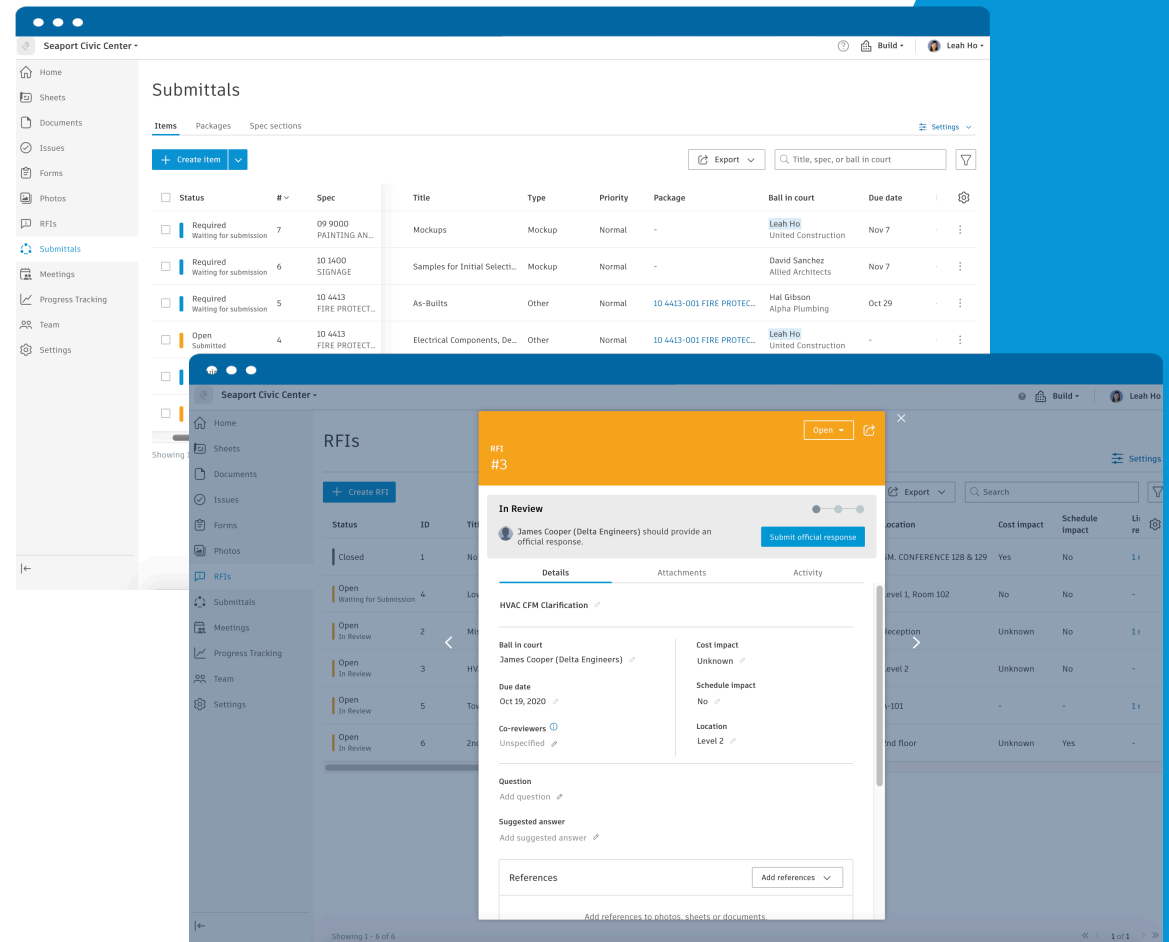
Meeting Minutes

- Never miss a meeting. **Available on mobile** and desktop
- **Create accountability** and assign attendees to meeting items with due dates
- Draw attention to the right documents. **Link references** with meeting items



Submittals & RFIs

- Tailor submittals to your needs with **custom responses**
- Set default values for **faster submittal submission**
- **Link RFIs to multiple drawings** as well as add markups
- Do more on mobile. **View and sort submittals** or group items by spec section or package
- **Easily track submittal & RFI status** through Project Home dashboards to immediately identify important information such as overdue submittals or closed submittal activity





**Team
Collaboration**



**Connected
Workflows**



**Predictable
Outcomes**

Predictable Outcomes



WINNING BUSINESS



QUALITY



COST

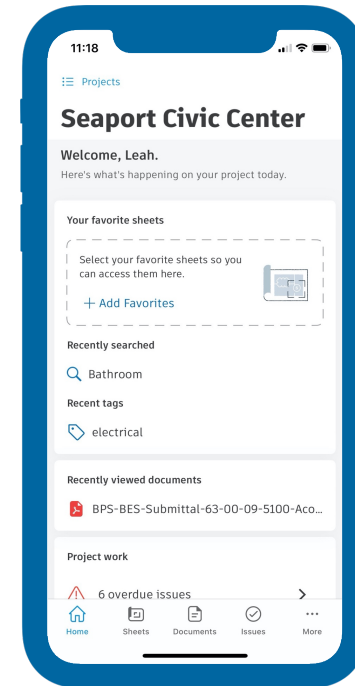
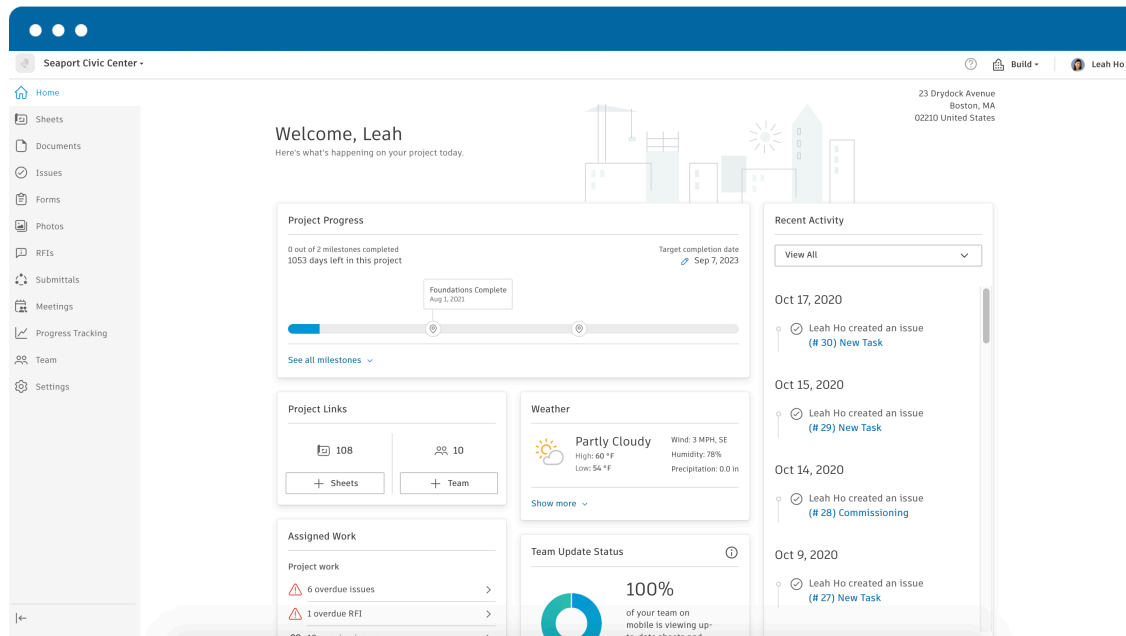


SCHEDULE

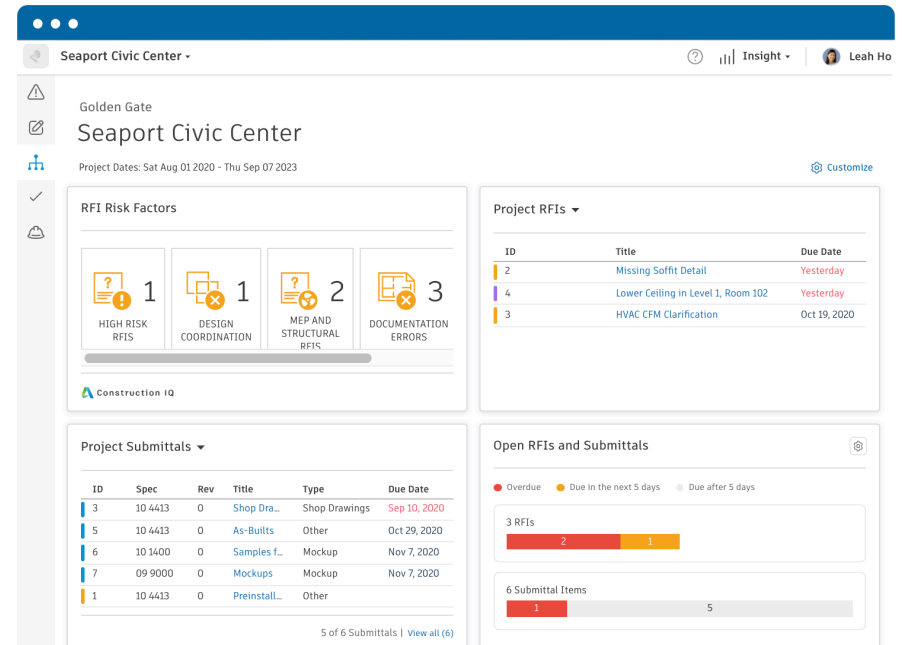
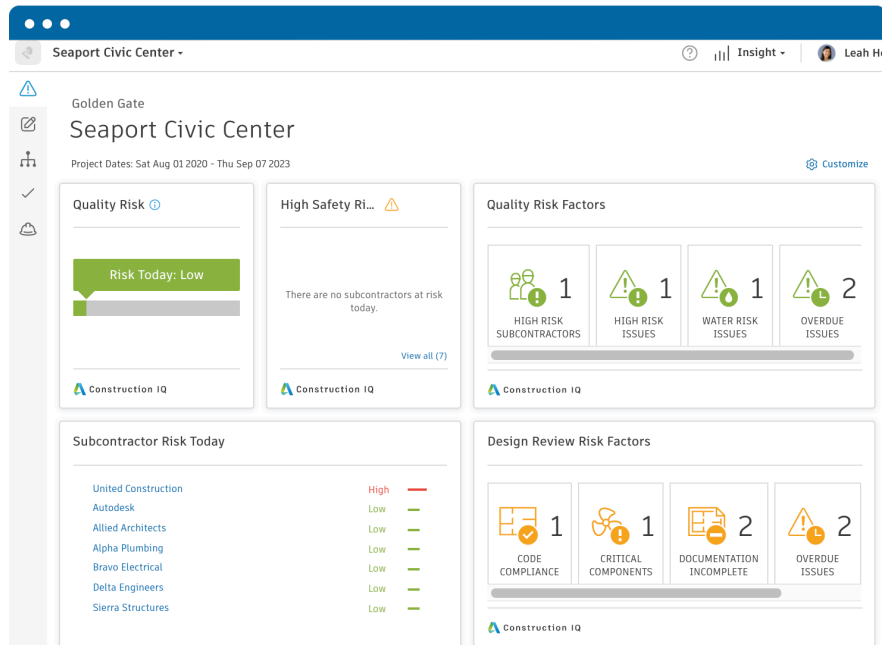


HEALTH, SAFETY AND
ENVIRONMENT

Dashboards



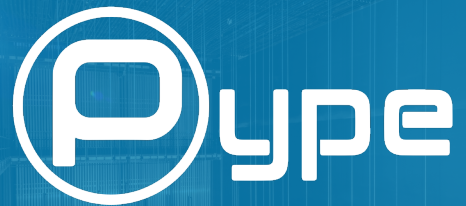
Leveraging Insights to drive outcomes



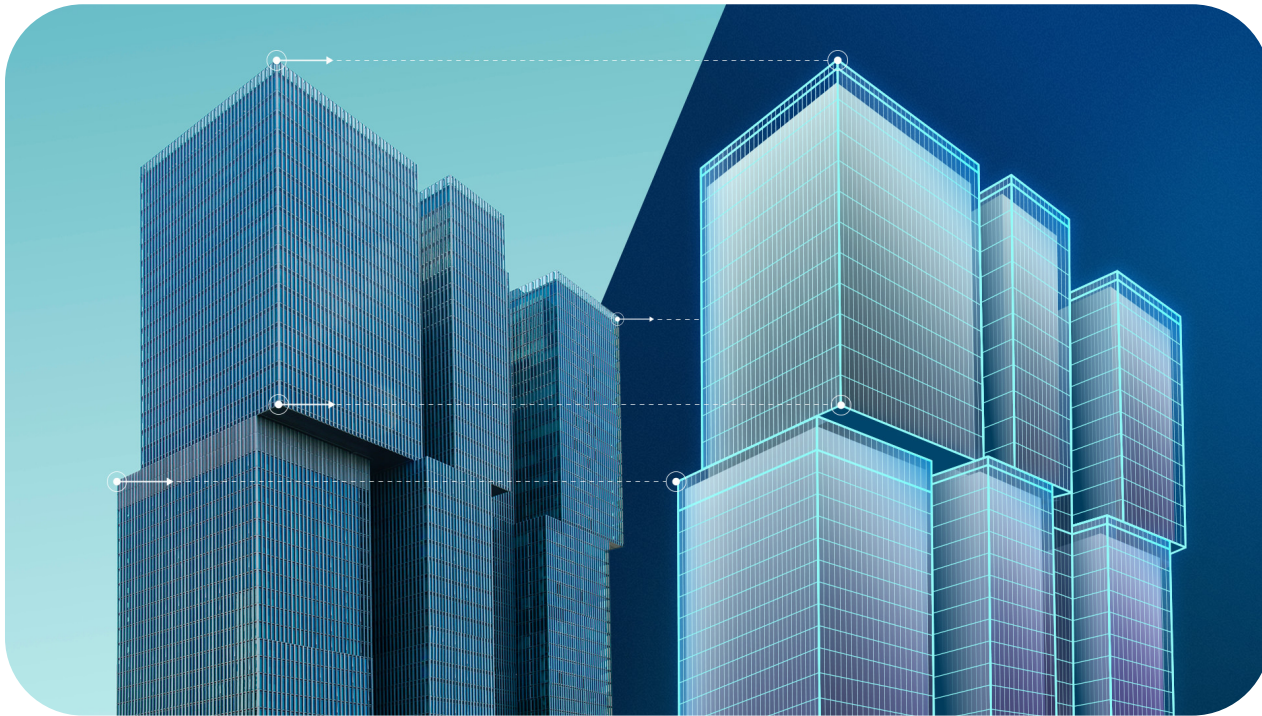
An aerial photograph of a large-scale construction project in an urban setting. The image is overlaid with a semi-transparent blue filter. In the center, a large pile of yellow and white construction materials, possibly bricks or tiles, sits on a cleared area. Surrounding this are several multi-story buildings under construction, with visible concrete frames and some completed sections. A yellow crane is positioned on the left side of the site. To the right, a parking lot with several cars is visible. The overall scene depicts an active construction site in a city environment.

The construction continues

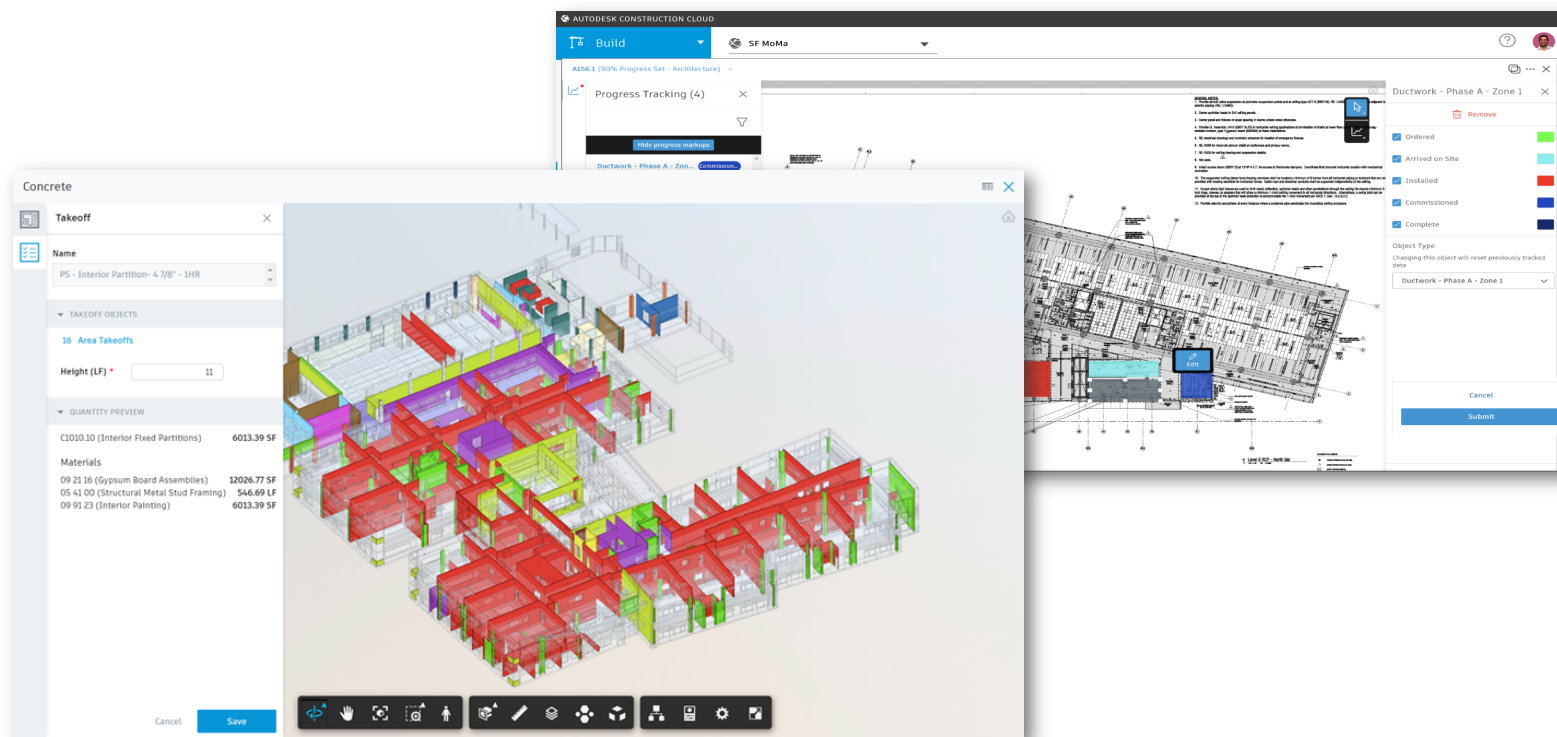
Creating **new** meaningful integrations



Building your Digital Twin



Expanding the Unified Platform



An aerial photograph of a large-scale construction project, showing a complex network of building foundations, walls, and structural elements. The image is heavily overlaid with a semi-transparent blue color, which serves as a background for the text. The construction site appears to be in an urban or developed area, with various levels of excavation and construction visible.

“My first reaction to Autodesk Build was, **Wow!** this is a merge of PlanGrid and BIM 360”

-Fiorella Vasquez, Assistant Project Manager, Herrero Builders

“I like how Autodesk Build gives you the ability to **cater individual workflows to your needs**, so you’re not inundated to information that isn’t pertinent to you.”

-Amy Kozlowski, Project Manager, Herrero Builders

“The ability to go to **one place** to get my plans, my RFIs, my submittals... it is going to save a lot of time and effort”

-John Mack, Virtual Design Department Manager, Dome Construction

“Having one platform where you know you can get all of your information, and it is the only app that you need to open for the day, **that is going to make a superintendent's life so much easier.**”

-Kaitlin Frank, Superintendent, Dome Construction



An aerial photograph of a construction site, showing several multi-story buildings under construction. The site is filled with construction materials, including large stacks of yellow and white blocks or bricks in the center. Various construction vehicles, including cranes and trucks, are visible. The entire image is covered with a semi-transparent blue overlay. The text "Construction.Autodesk.com" is centered in white.

Construction.Autodesk.com



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