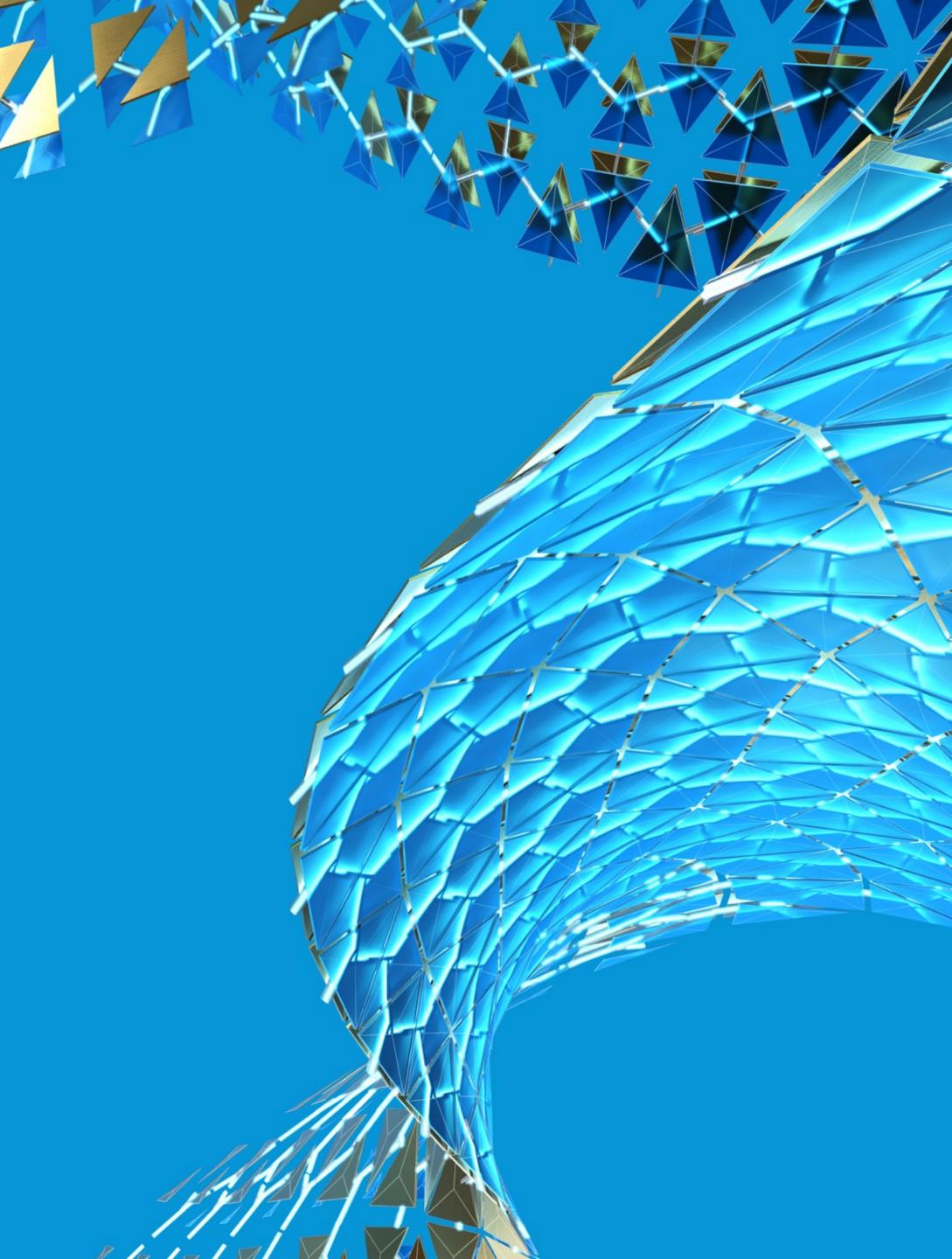


Automate and Connect Workflows using Autodesk's Integrations Ecosystem

Aridam Kumar

Integration Solutions Engineer | LinkedIn: aridamkumar





About the speaker

Aridam Kumar

- Integration Solutions Engineer on the Partnerships team at Autodesk Construction Solutions.
- Works with Autodesk's customers, partners, and product teams to ensure an end-to-end integrated product experience.
- Supports the development and implementation of APIs
- Based in San Francisco, CA

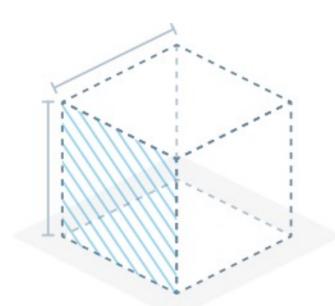
Today's Topics

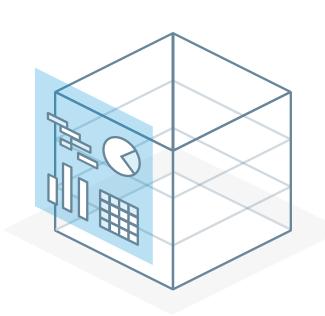
IN THIS SESSION, YOU WILL:

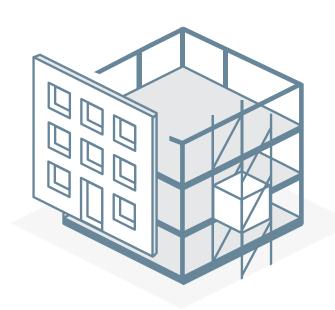
- Identify inefficient processes in a technology ecosystem and automate those workflows
- Know the APIs that surround ACC and the possibilities associated with them
 - Demo: Integrating PlanGrid with Amazon Web Services by Nicholas Nelson
- Evaluate when APIs or ACC Connect are the best path for integrations
- Create workflow recipes in ACC Connect to route files and data to better support business processes
- Transfer data between key construction and productivity tools with little to no code

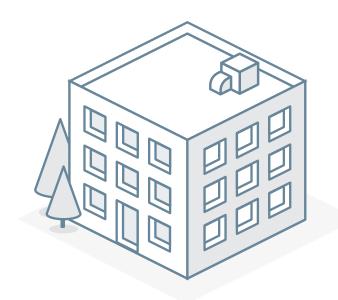


AUTODESK CONSTRUCTION CLOUD









	DESIGN	PLAN	BUILD	OPERATE
Workflows	• Design Authoring	 Model Conditioning 	• Project Management	• Facilities Maintenance
	• Design Collaboration	 Model Coordination 	• Field Collaboration	•Asset Lifecycle
		 Quantification 	•Quality & Safety	
		•Bid Management	•Cost Control	
		Qualification	• Commissioning	
Shared Data	Data Models · Drawings · Issues · Specifications · RFIs · Cost · Meeting Minutes · Assets · As-Builts			
Insight	Predictive Analytics & Risk Management			
	Predictive Analytics · Benchmark Reports · Mitigation Strategies			
Network	Builders Network			

Building a Robust Ecosystem of Construction Technology

Best of breed applications integrate with Autodesk Construction Cloud



How do tools integrate?

PROJECT HOME PARTNER CARDS

Customers can view data from other tools



APIS

Customers can create connections between tools











AUTODESK CONSTRUCTION CLOUD CONNECT

Customers can create custom, intelligent connections without code



How do I use the APIs?

BIM 360 API ON FORGE

Integrate with issues, RFIs, checklists and more



DATA MANAGEMENT API ON FORGE

Integrate with plans, project files, folders, and versioning



PLANGRID API

Integrate with sheets, documents, tasks, RFIs, Field Reports, and more









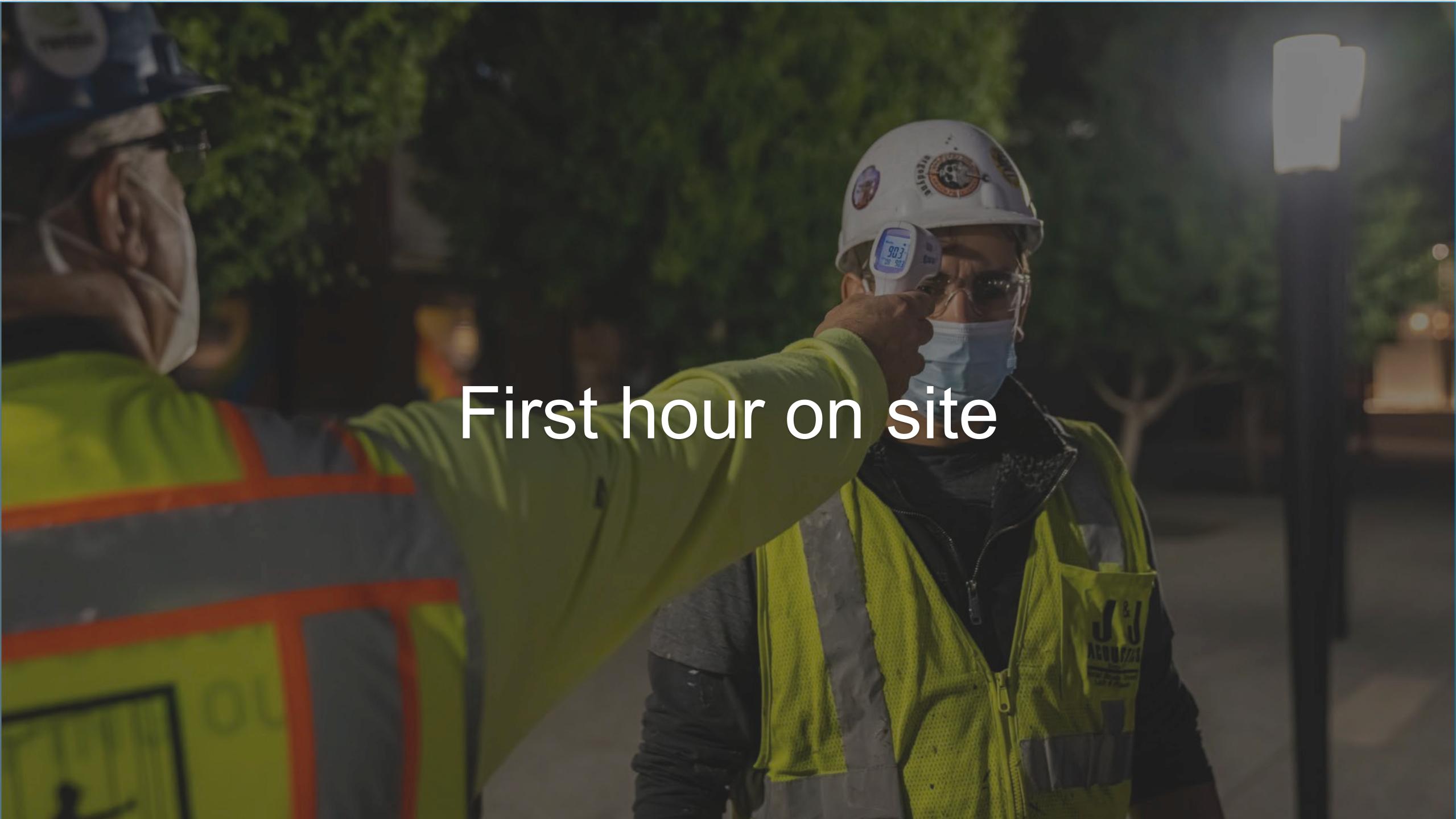
About the speaker

Nicholas Nelson

- Amazon Web Services(AWS) Solutions Architect
- Based out of Seattle, Washington, USA
- 10+ years of construction industry experience

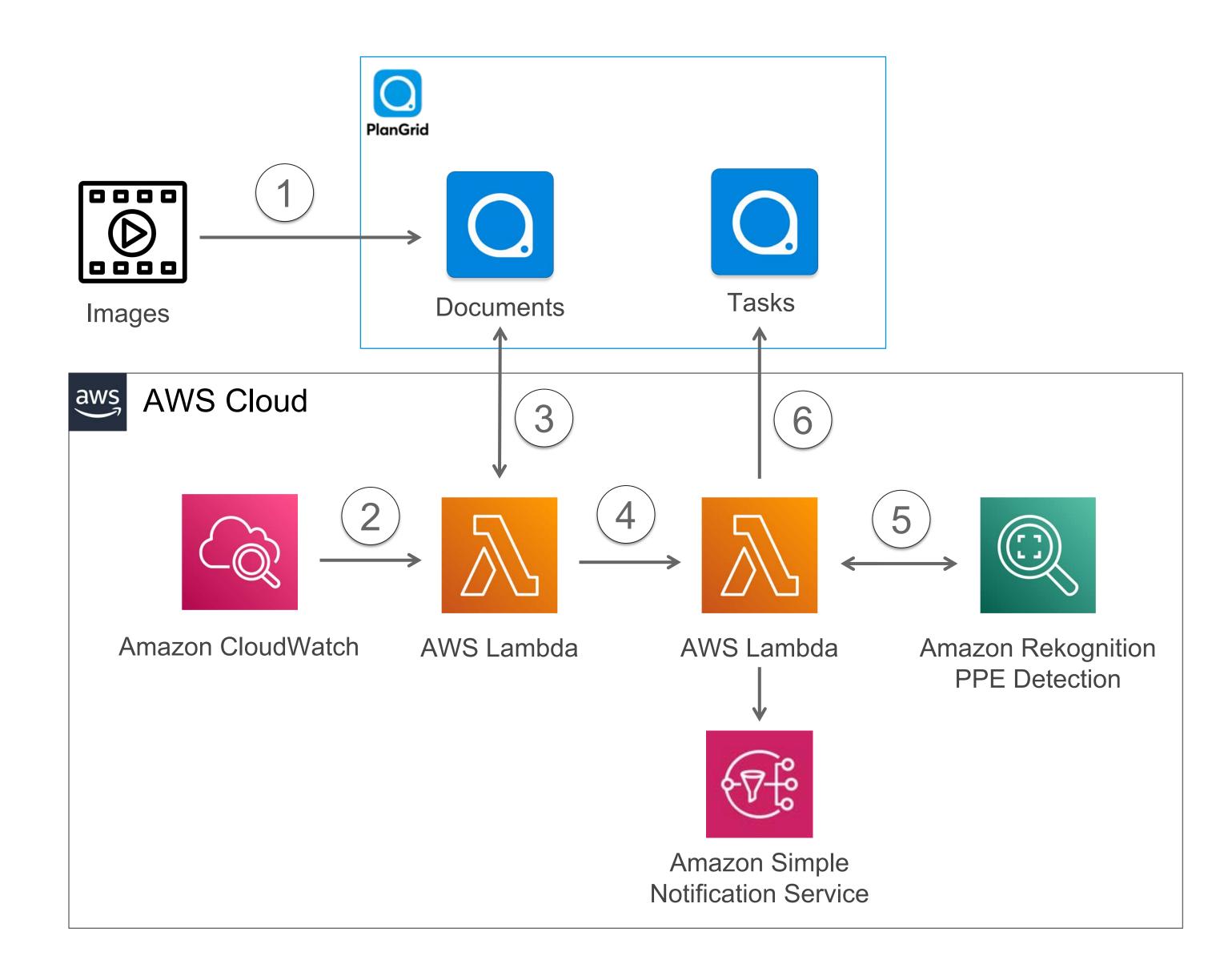
What is Amazon Web Services (AWS)?



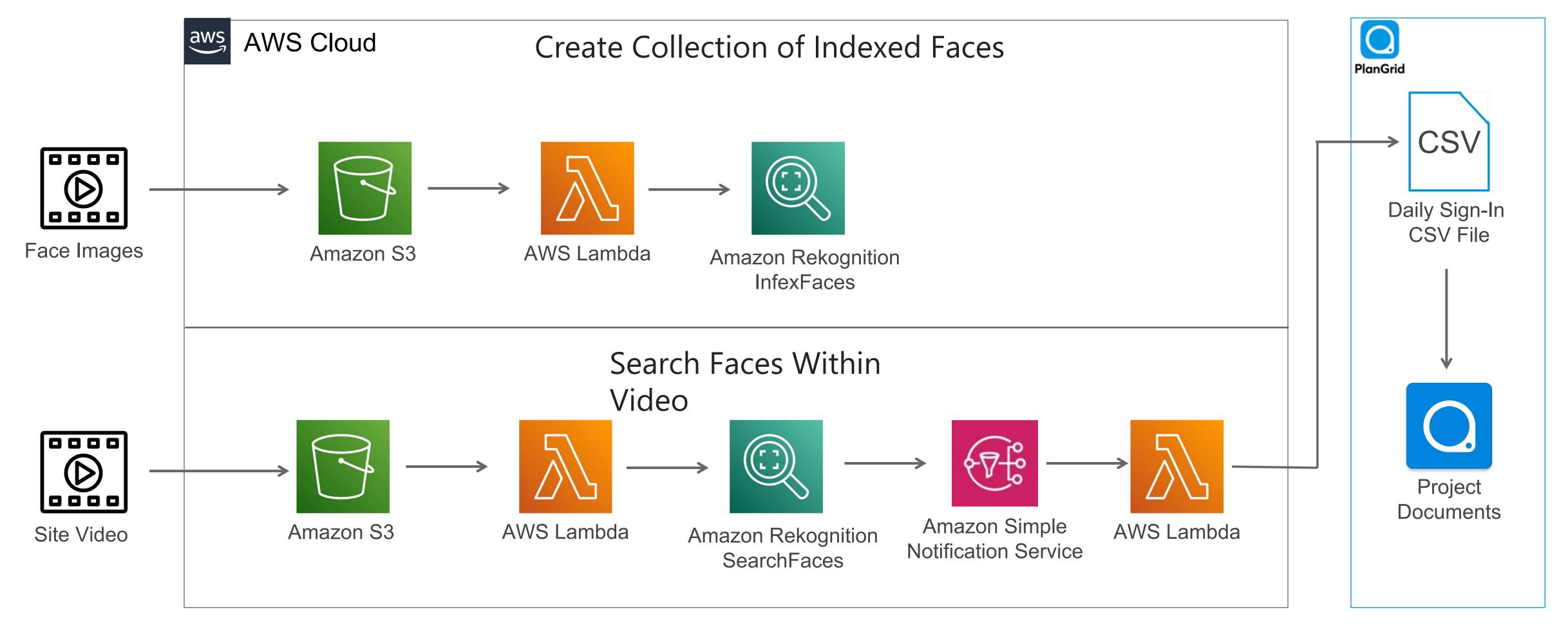




PPE Detection Architecture



Site Sign In Architecture





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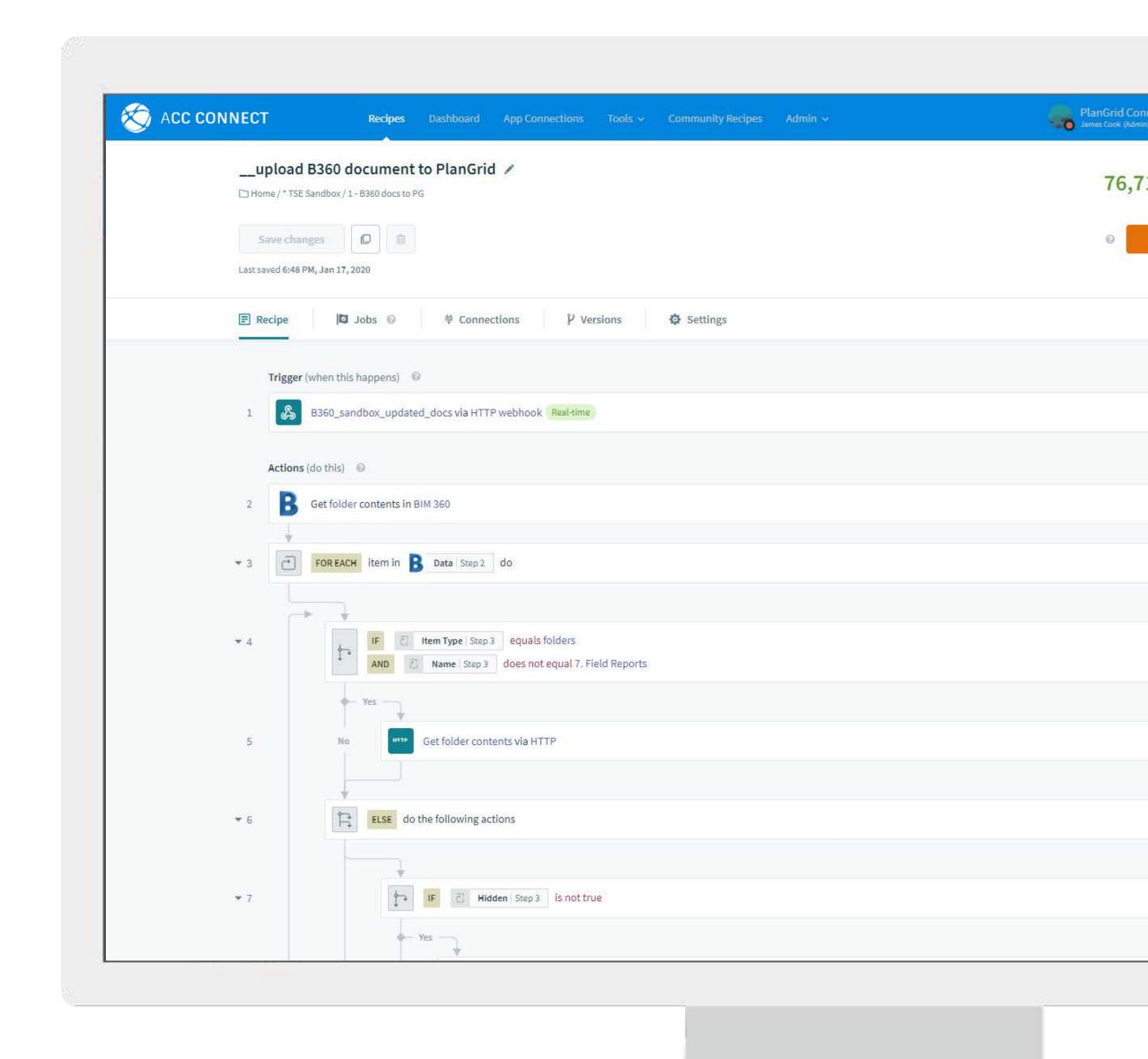


Integrate Assemble, BIM 360, BuildingConnected & PlanGrid with critical software systems

- Cloud Storage
- PM/ERPs
- CRMs
- eSignature
- Each Other
- and more

Create custom workflows between systems

- Route files and data per YOUR processes
- Leverage triggers between systems
- Keep different applications up to date



Comprehensive Integration Options

Expanding support to the entire Autodesk Construction Cloud









Export custom attributes and properties from models, including quantity data.

Integrate with Docs, Plans, Issues, and Cost.

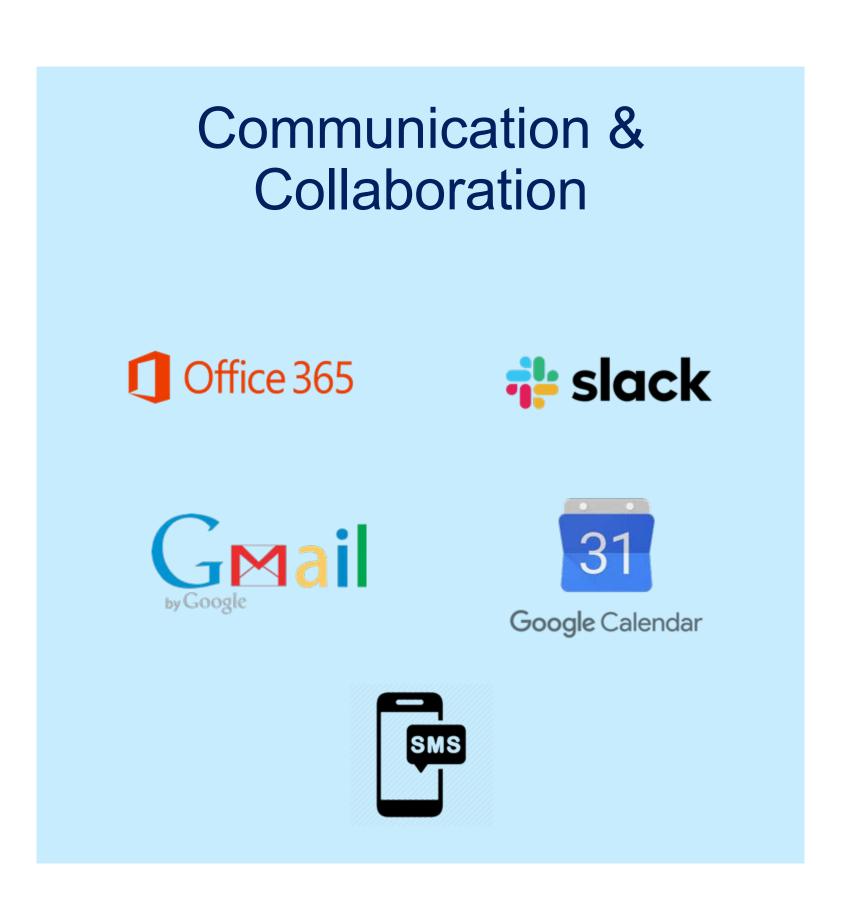
Export bid, qualification, and contact data.

Integrate with Sheets, Documents, Tasks, Photos, Field Reports, and more.

Common Integrations with ACC Connect







Connect with Cloud Storage

Google Drive

Automate Import BIM 360 Drawings PlanGrid **Documents Drawings BIM 360 Documents Field Reports** PlanGrid

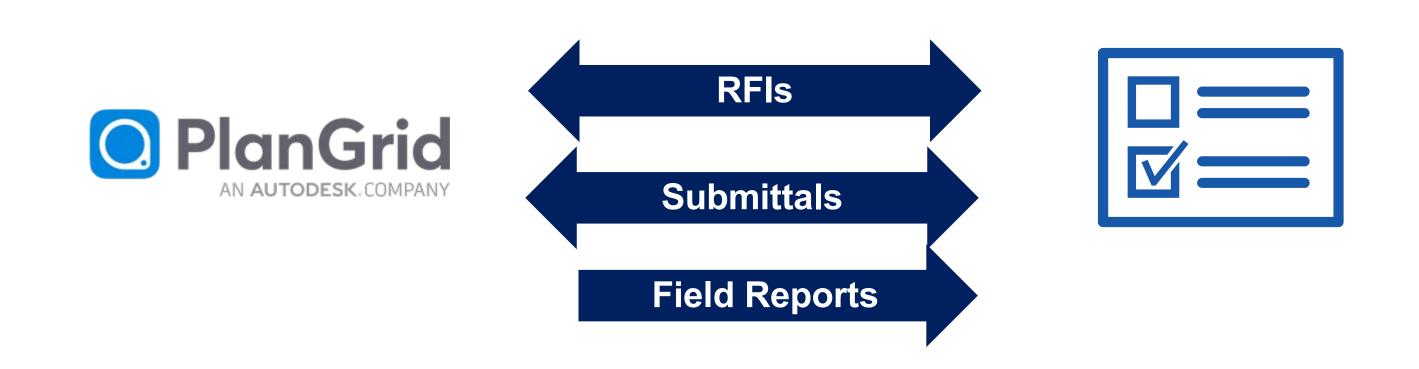
Automate Export

Photos



Connect with Project Management





Connect with Autodesk Construction Cloud







Connect Terminology

Recipe

Connector Connection Collaborator

Workflows in ACC Connect. Consist of a trigger followed by actions.

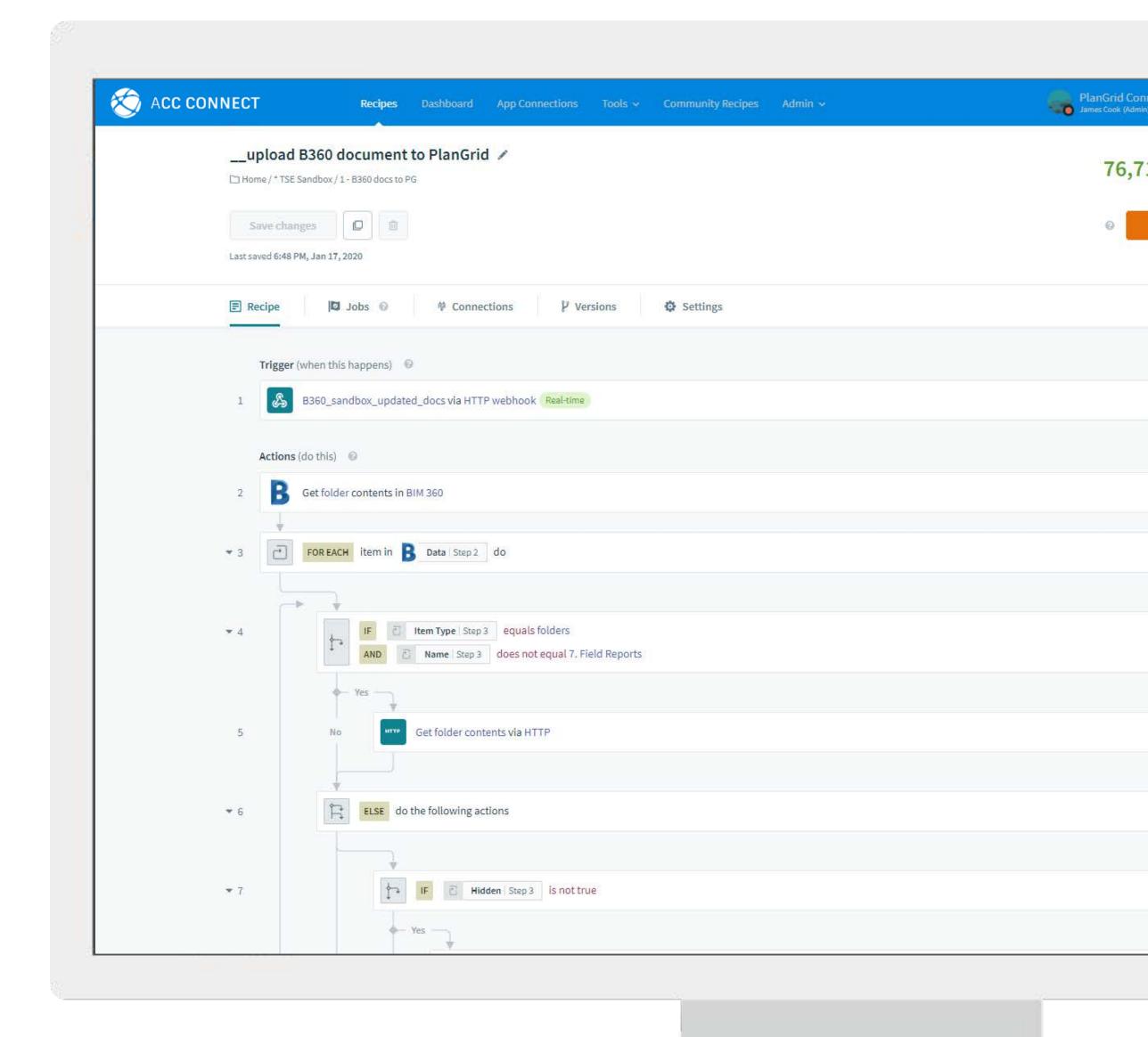
A set of triggers and actions pre-configured for a given application.

A user authorization connecting ACC Connect with each integrated application.

A member of your organization on ACC Connect. Collaborators can login and build recipes.



DEMO



Data Export

Leverage construction data from Autodesk Construction Cloud in external sources



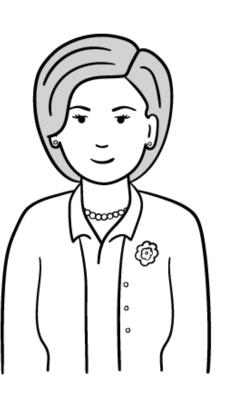


































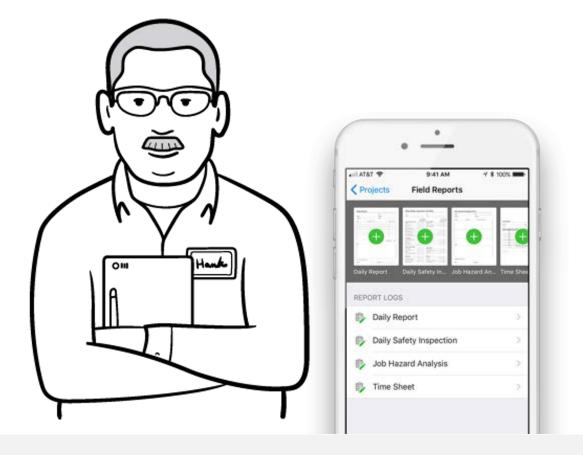
PlanGrid + BIM 360 Cost + QuickBooks Online

Automate purchase order workflows through PlanGrid, BIM 360 Cost and QuickBooks

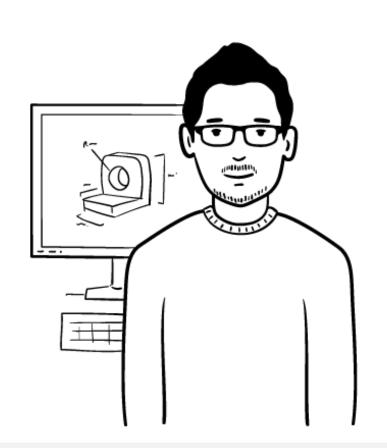
1. PlanGrid user submits requisition using a custom field report

2. BIM 360 user reviews cost item, assigns cost code, & approves

3. Accounting team pays the PO via QuickBooks

















BIM 360 Docs + DocuSign

Send approved documents for digital signature

1. Addendum is posted to the project

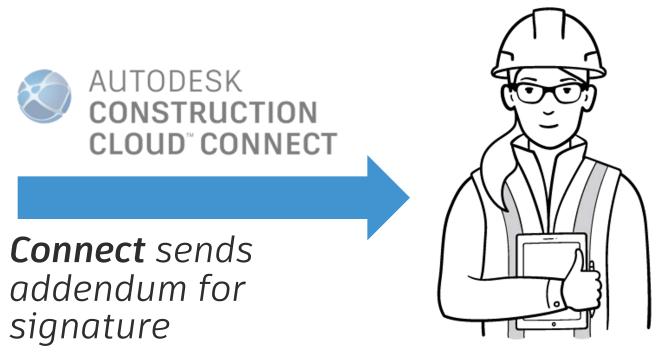
2. Addendum is reviewed and approved within BIM 360 workflow

3. Addendum is approved and signed with digital signature

4. Addendum is posted in appropriate system

















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