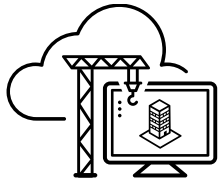


DIGITAL  
CONSTRUCTION  
SUMMER SCHOOL

# Welcome to the Autodesk Digital Construction Summer School

Day 1 | August 3, 2021





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## WELCOME TO THE AUTODESK DIGITAL CONSTRUCTION SUMMER SCHOOL

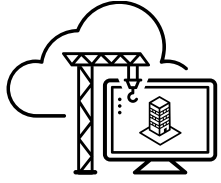


### Steve Strickland

Technical Manager, Construction Education  
Autodesk Education

- Located near Detroit, Michigan
- Joined Autodesk Education in March 2020
- AEC industry experience includes BIM / VDC, project management, innovation, & owner's representation
- Email | [steve.strickland@autodesk.com](mailto:steve.strickland@autodesk.com)





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# Opening Session Agenda

- Housekeeping Items
- Autodesk Construction Cloud for Education
- Autodesk Takeoff



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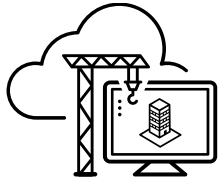
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SUMMER SCHOOL

# Housekeeping Items







# DIGITAL CONSTRUCTION SUMMER SCHOOL


Joining as a participant?

# 126272



# slido





**Autodesk Digital Construction Summer S...**  
Aug 3 - 5, 2021  
#126 272



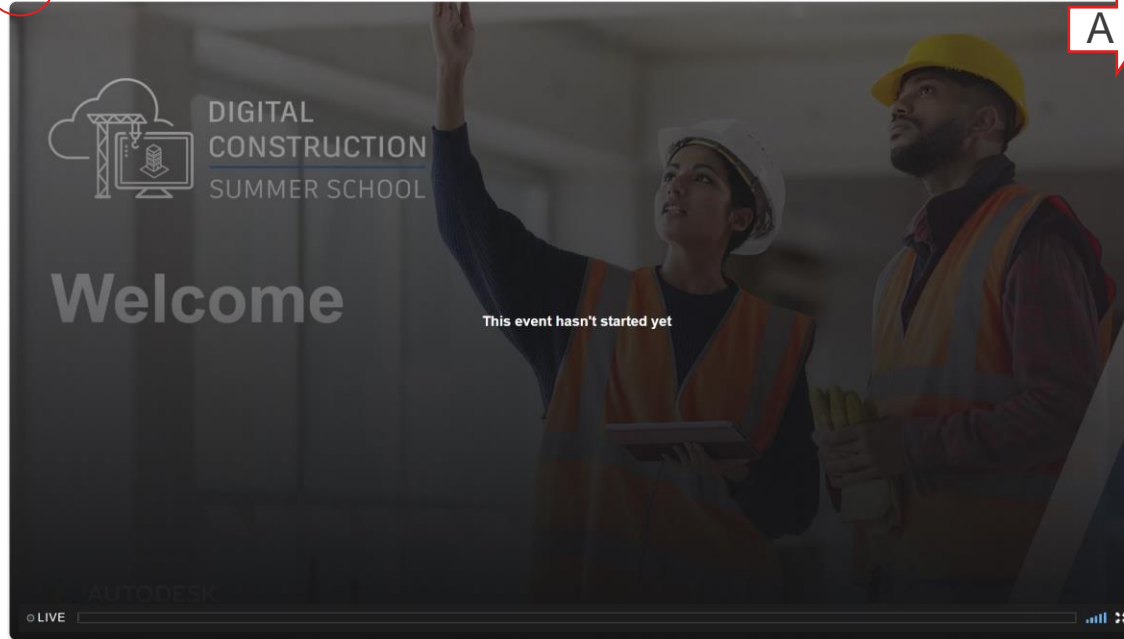
Live interaction

Agenda

Switch event

Dark mode ☐

About Slido



Q&A

Polls

Ask the speaker

Type your question



Agenda

Tue, Aug 3

Welcome to the Autodesk Digital Construction Summer School

12:00 PM - 12:15 PM

Steve Strickland (Autodesk Education)  
2 more

Autodesk Construction Cloud in the Classroom

12:15 PM - 1:00 PM

Lennart Andersson (Pratt Institute)

Teaching Preconstruction with BIM 360

1:00 PM - 1:45 PM

Wei Wu, Ph.D. (California State University, Fresno)

Developing BIM Talent

1:45 PM - 2:15 PM

Dana K. Smith, FbSI, FAIA Emeritus (DKS Information Consulting, LLC)

Managing Assets Using the BIM 360 Assets Module

2:15 PM - 3:00 PM

Deepak Maini (Cadgroup Australia)

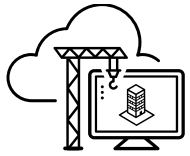
Closing Remarks

3:00 PM - 3:05 PM

Steve Strickland (Autodesk Education)



Need Help this Week? Email us at [construction.cloud.edu@autodesk.com](mailto:construction.cloud.edu@autodesk.com)



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# Program Overview

## DAY 1

Tuesday, August 3<sup>rd</sup>

## DAY 2

Wednesday, August 4<sup>th</sup>

## DAY 3

Thursday, August 5<sup>th</sup>

### Presentations 12:00 – 3:00 pm EST Daily

**Welcome / Opening Remarks** | Autodesk Education

#### Autodesk Construction Cloud in the Classroom

Lennart Andersson | Pratt Institute

#### What's New with BIM 360

Nicole Thomas | Autodesk Education

#### Industrialized Construction for the Built Environment Lifecycle

Amy Marks | Autodesk, John Herridge | Autodesk Education & Anil Sawhney | RICS

#### Teaching Preconstruction with BIM 360

Wei Wu, Ph.D. | California State University, Fresno

#### What's New with BIM 360 Desktop Curriculum & Admin Tutorials

John Herridge | Autodesk Education

#### Digital Twins for AEC with Autodesk Tandem

Tim Kelly | Autodesk

#### Developing BIM Talent

Dana K. Smith, FbSI, FAIA Emeritus | DKS Information Consulting, LLC

#### Autodesk Certifications – the Why & the How

Jana Hambruch | Autodesk Education, Tanner Morris | Certiport & NiñaFe Awong | Florida Department of Education

#### Autodesk Takeoff

Zakaria Derras-Chouk | Autodesk

#### Managing Assets Using the BIM 360 Assets Module

Deepak Maini | Cadgroup Australia

#### The BIM Interoperability Tools

Chuck Mies, LEED AP, Assoc. AIA | Autodesk

#### Autodesk Education Plan Enhancements

John Herridge | Autodesk Education

**Closing Remarks** | Autodesk Education

### Workshops | 3:15 – 7:00 pm EST Daily

*\*Registration Required*

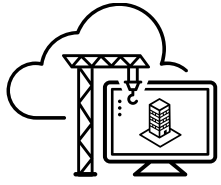


3:15 – 5:00 pm

**Autodesk Takeoff Training** | Mark Petrucci, Applied Software

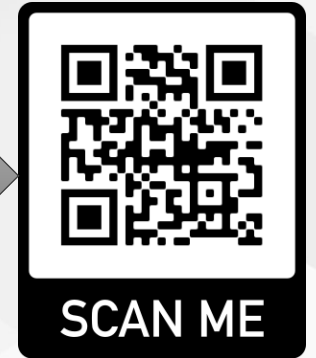
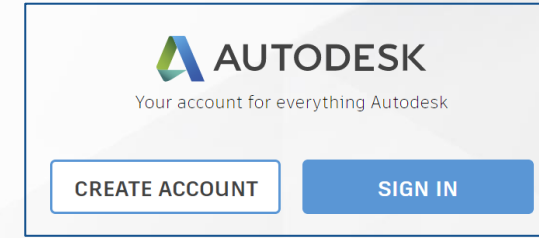
5:15 – 7:00 pm

**Autodesk Construction Cloud Admin Training** | Mark Petrucci, Applied Software

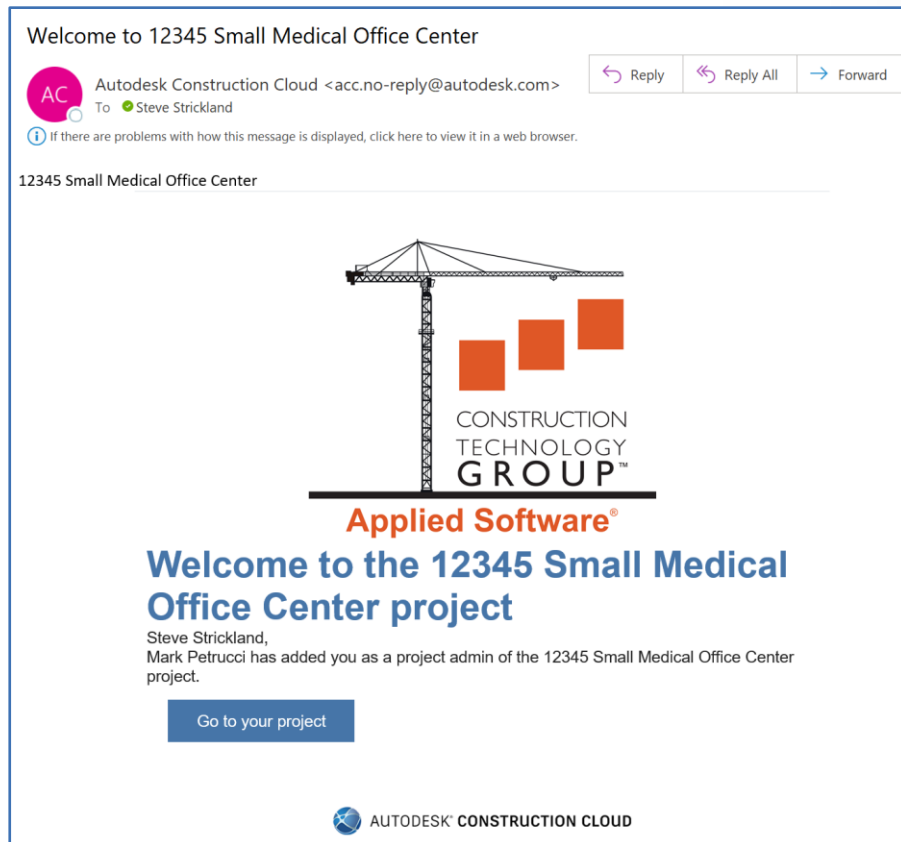


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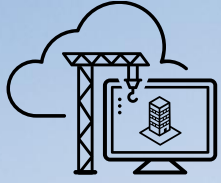
# Workshop Session Details



- **Autodesk ID email MUST match registration**
- **Project Invite email** sent to all workshop registrants (from: acc-no-reply@autodesk.com)
- Workshops will be conducted via Zoom & recorded
- Prior registration required to participate
- Support sessions to be provided in next 30 days
- No software installations required for training
- Google Chrome is recommended browser



Project Invite Email

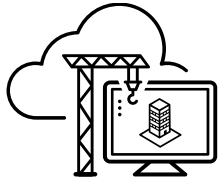


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# Autodesk Construction Cloud for Education



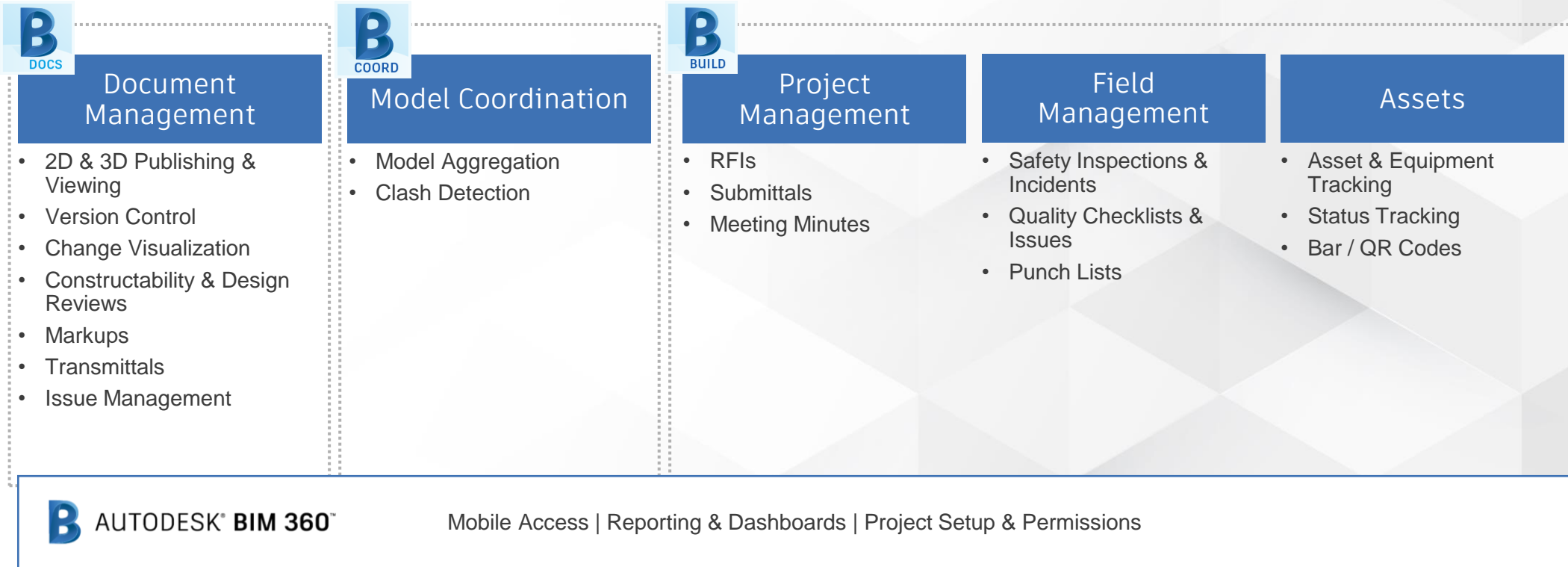




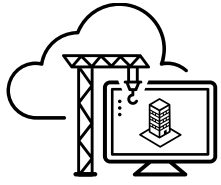
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## SOLUTION OVERVIEW

### BIM 360 & ASSEMBLE EDU OFFERINGS



- 2D-3D Publishing & Viewing
- Model-Based QTO / Estimating
- Design & Constructability Review
- Bid & Work Package Planning
- Visual Status Tracking
- Change Visualization



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## SOLUTION OVERVIEW

### PRODUCT TRANSITIONS FROM BIM 360 TO UNIFIED

Previous	Current
BIM 360 Docs	Autodesk Docs
BIM 360 Design	Autodesk BIM Collaborate Pro
BIM 360 Coordinate	Autodesk BIM Collaborate
BIM 360 Build	Autodesk Build
BIM 360 Cost	
PlanGrid	
N/A	Autodesk Takeoff - *NEW
Assemble	No Change

 AUTODESK®  
DOCS

 AUTODESK®  
BIM COLLABORATE

 AUTODESK®  
BUILD

 AUTODESK®  
TAKEOFF

 assemble



# AUTODESK CONSTRUCTION CLOUD™



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## C AUTODESK® BIM COLLABORATE

Empower BIM experts to improve constructability of models, increase transparency in managing risk, and facilitate more efficient design collaboration



Design Collaboration



Automated Clash Detection



Aggregated Model Coordination



Issues Management

## T AUTODESK® TAKEOFF

Enable estimators to perform more accurate 2D takeoffs and generate automated quantities from 3D models



2D Takeoff



3D Takeoff



Scope Analysis

## B AUTODESK® BUILD

Empower builders with a field execution and project management solution to seamlessly collaborate and deliver construction projects on time, on budget



Project Management



Cost Management



Quality Management



Project Closeout



Safety Management



PlanGrid Build Mobile App



## D AUTODESK® DOCS

Organize, distribute, and share files on a single, connected document management platform, ensuring all team members have access to the information they need

**\*Not sold as standalone subscription**



Document Control



Document Versioning



Document Approvals

## INSIGHTS

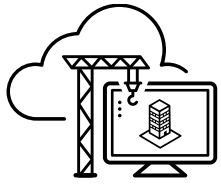
Get up to speed with what's going on in a project, assess trends and patterns in project data, identify any gaps and problems, and use predictive risk data to improve project efficiency

Dashboards

Reporting

Construction IQ

Data Connector



# Accessing the Autodesk Construction Cloud

## Learn

- Hands-on Workshops
- Self-Paced Learning
- **Identify target course(s)**

## Commit

- Provide course information
- Commit to incorporate into course curriculum
- Identify Contract Manager for account
- **Account setup request**

## Implement

- Configure account
- Assign user licenses
- Set up projects
- **Enjoy!**

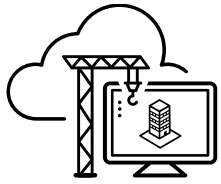




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# Autodesk Takeoff

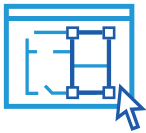




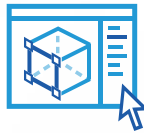
## DIGITAL CONSTRUCTION SUMMER SCHOOL

# AUTODESK® TAKEOFF

Enable estimators to perform more accurate 2D takeoffs and generate automated quantities from 3D models



2D Takeoff



3D Takeoff



Scope Analysis

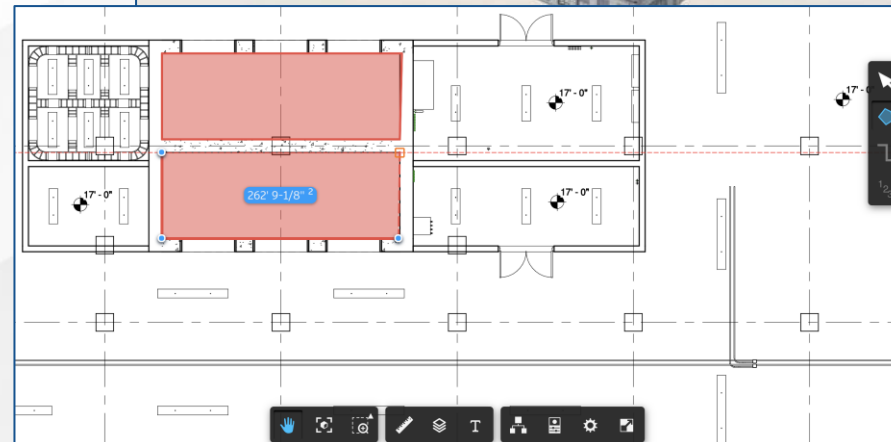
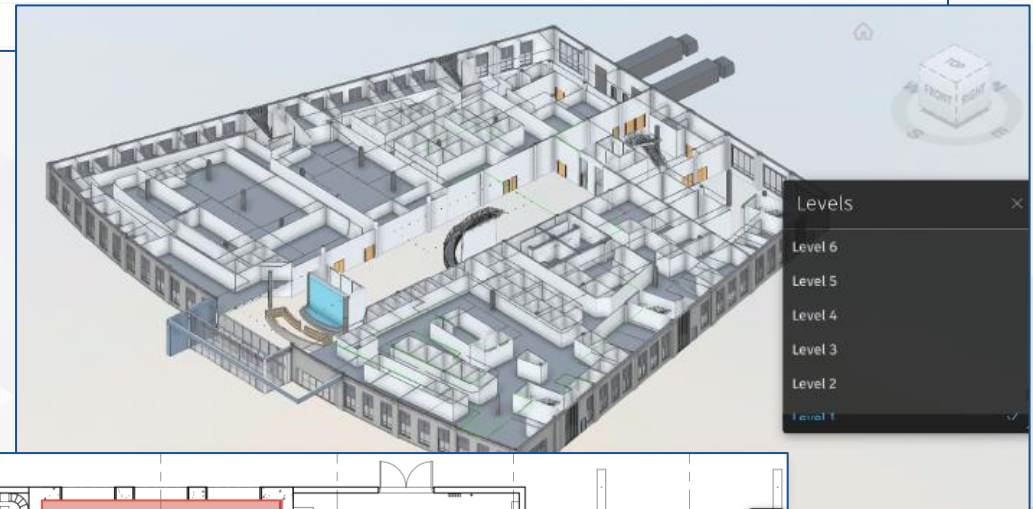


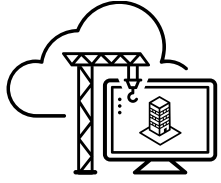
Document Management



AUTODESK CONSTRUCTION CLOUD™

Inventory <span>Group by Primary Output</span>					
Name ^	Count	Quantity	Unit	Classification	Document
✓ 030000 - Concrete	5	12.62	CY	035300 - Concrete Topping	
> 035000 - Cast Decks and U...	5	12.62	CY	035300 - Concrete Topping	
✓ 060000 - Wood, Plastics, and ...	3	66.53	LF	064619 - Wood Base and Shoe Moldings	A701
> 064000 - Architectural Woo...	3	66.53	LF	064619 - Wood Base and Shoe Moldings	A701
✓ 080000 - Openings	190	190	EA	085113 - Aluminum Windows	New Construction
> 085000 - Windows					





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## WORKSHOP SESSION TOPICS



### Autodesk Construction Cloud Administration

#### Agenda

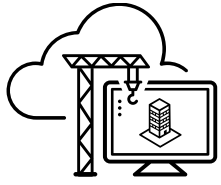
- Autodesk Construction Cloud Overview
  - Unified vs BIM 360
- Account Administration
- Project Administration
- Project Setup
- Autodesk Docs (Hands On)
  - Review Interface
  - Create Folders, Upload Files
  - Assign Permissions
- Best Practices



### Autodesk Takeoff

#### Agenda

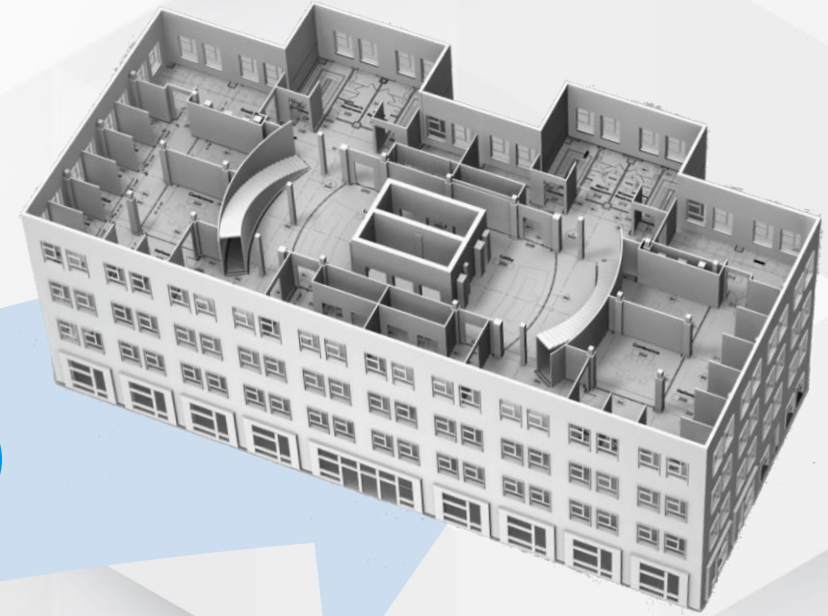
- What is Autodesk Takeoff
- Project Setup
  - Classification Systems
  - Sheets and Models
  - Packages
- Takeoff Viewer
- Takeoff (Hands On)
  - Packages & Takeoff Types
  - 2D Sheet Takeoff
  - 3D Model Takeoff
- Inventory and Reporting



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# AUTODESK TAKEOFF SEQUENTIAL LEARNING PATH

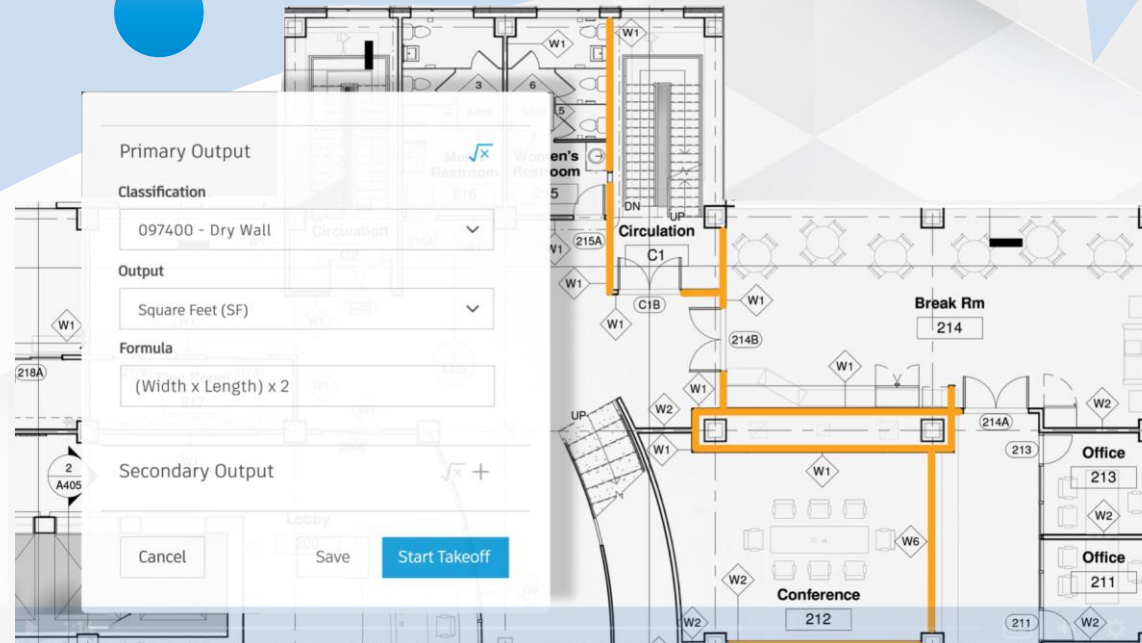
## 3D / BIM



## 2D Digital



## Manual







# AUTODESK<sup>®</sup>

Make anything<sup>™</sup>