Walk-in Slide: AU 2014 Social Media Feed

1. Click on the link below, this will open your web browser

http://aucache.autodesk.com/social/visualization.html

2. Use “Extended Display” to project the website on screen if you plan to work on your computer. Use “Duplicate” to display same image on screen and computer.

Simplify As-Built Modifications in Plant 3D: Autodesk® ReCap® and AutoCAD® Plant 3D

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AUTODESK® INVENTOR® 2015

CERTIFIED PROFESSIONAL

Why use ReCap with Plant 3D?

- ReCap software simplifies the process of adding new equipment and piping to an existing plant.
- As-builts can be difficult and getting field measurements that are precise and thorough can be very time-consuming.
- Using laser scans can ease the pain of this task and make modeling new equipment and piping in as-builts fun again!

Why use ReCap with Plant 3D?

- A couple of other reasons…

Key learning objectives

At the end of this class, you will be able to:

- Understand and use Autodesk® ReCap® software
- Import registered scans from Autodesk® ReCap® into AutoCAD® Plant 3D software
- Add piping and equipment to your as-built AutoCAD® Plant 3D model
- Understand and use some of the functionality available in Autodesk® ReCap® software

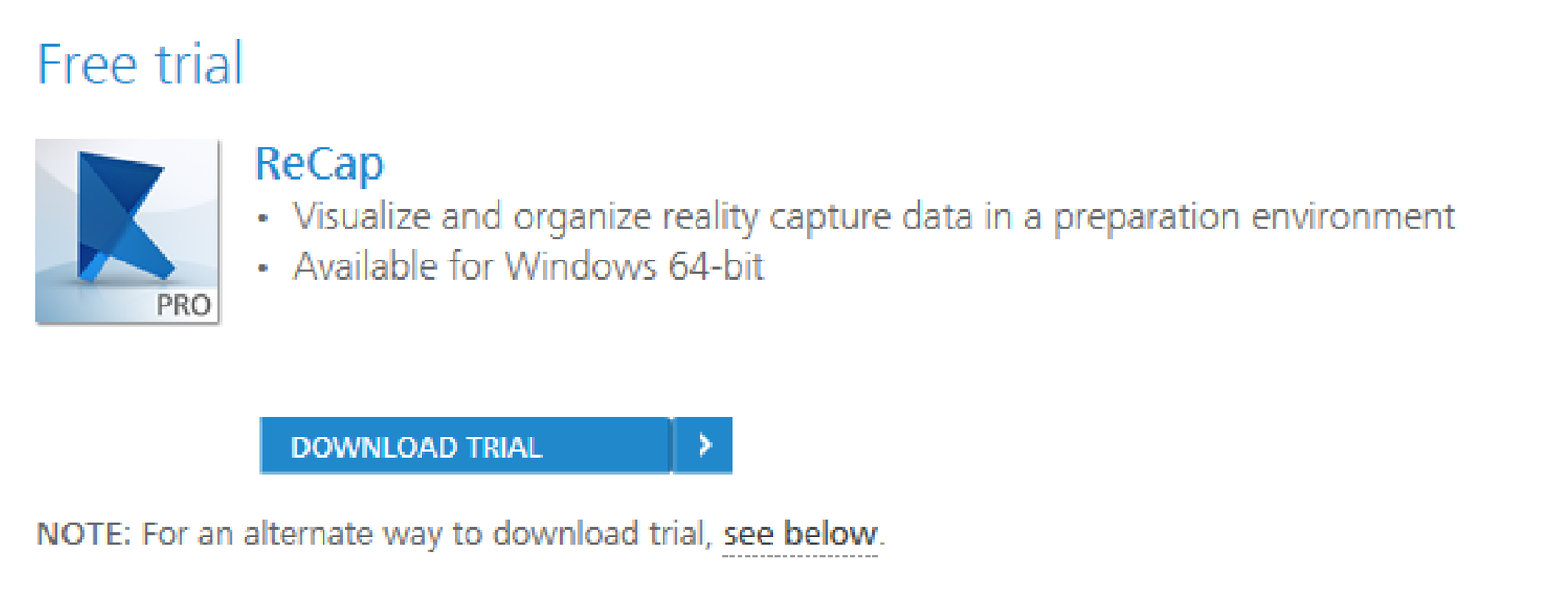
Understand and use Autodesk® ReCap® software

Understand and use Autodesk® ReCap® software

- ReCap = Reality Capture
- Not a Scanning Tool
- Edit and Visualize 3D Data from Laser Scans

Understand and use Autodesk® ReCap® software

- How do you get it?
  - PlantDS
  - FactoryDS
  - BuildingDS
  - ProductDS
  - InfrastructureDS
- You can download a Free 30-Day Trial at *www.autodesk.com/products/recap/free-trial*



Understand and use Autodesk® ReCap® software

What is the difference between ReCap and ReCap Pro?

Autodesk® ReCap Features

Laser Scans Features	Standard	Pro
Indexing	●	●
Visualization	●	●
Measurements	●	●
Editing	●	●
Scan Publication to ReCap 360	●	●
Scan-to-scan Registration		●
Survey Control Verification		●

- *The Pro features of ReCap are activated under term-based rental plan.*
- *30 day trial for Pro features included with ReCap download.*

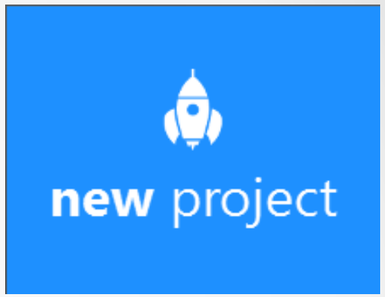
AUTODESK® RECAP

AUTODESK.

Import registered scans from Autodesk® ReCap® into AutoCAD® Plant 3D software

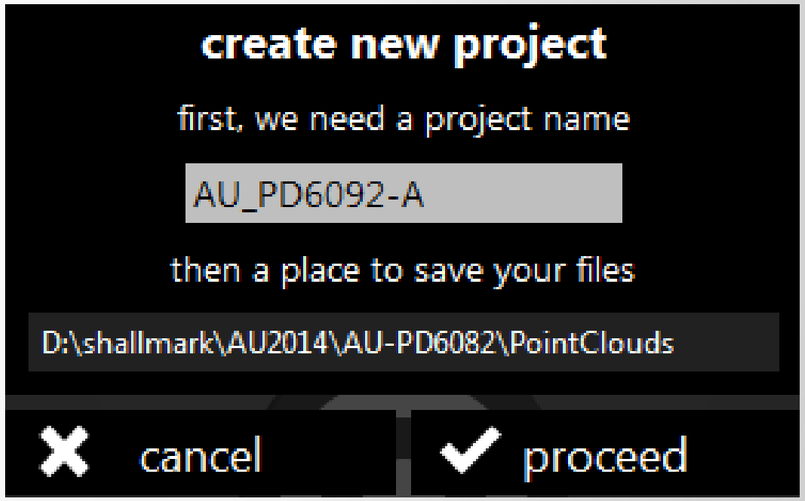
Import registered scans from Autodesk® ReCap® into AutoCAD® Plant 3D software

ReCap uses Projects.
Look for this icon to create a new project.



The new project will require a name and path.

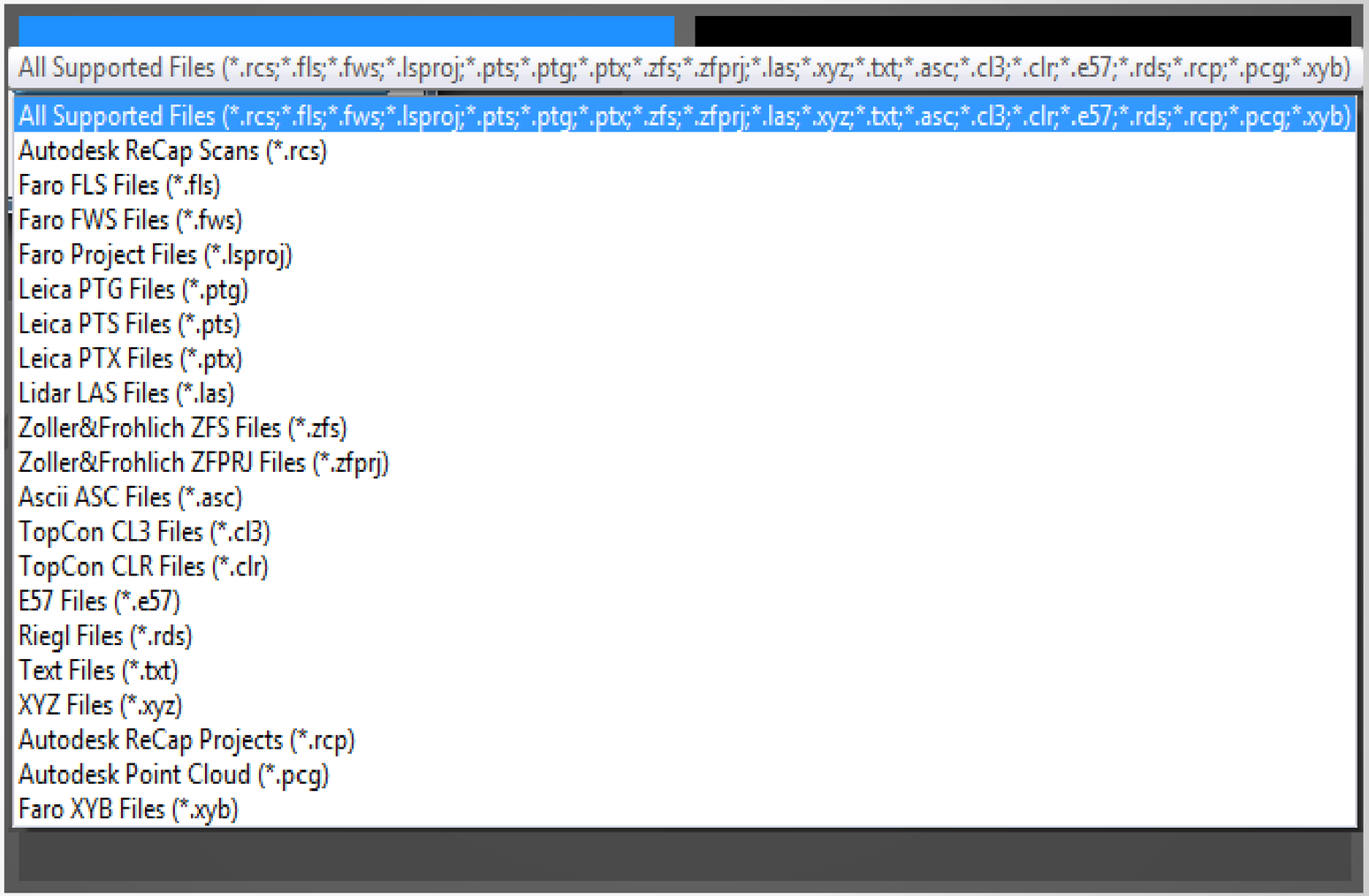
Path Option: Create a “PointClouds” subfolder in the Plant3D Project location



Import registered scans from Autodesk® ReCap® into AutoCAD® Plant 3D software

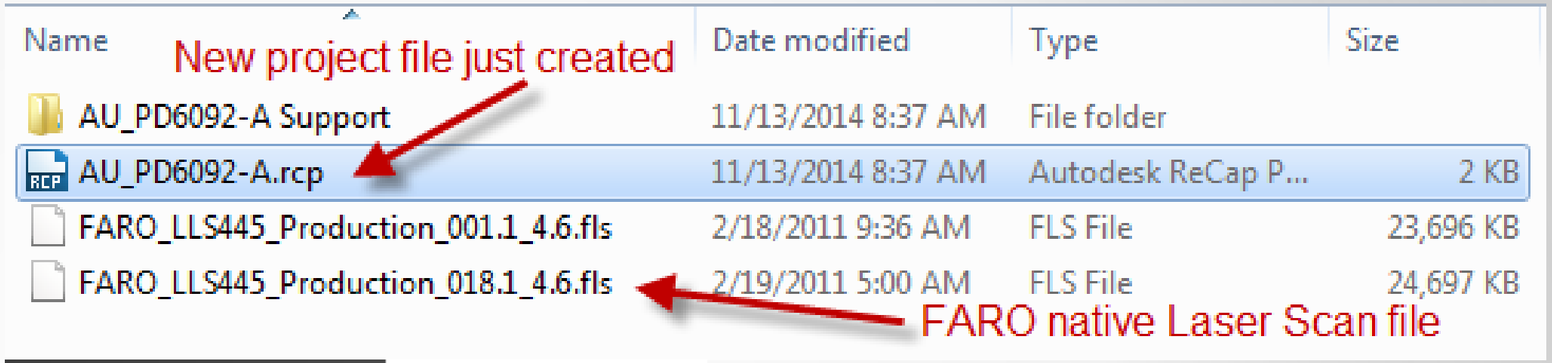
Import the scans

Many scan file types to choose from



Import registered scans from Autodesk® ReCap® into AutoCAD® Plant 3D software

Select multiple scan files to import at once



Importing Progress

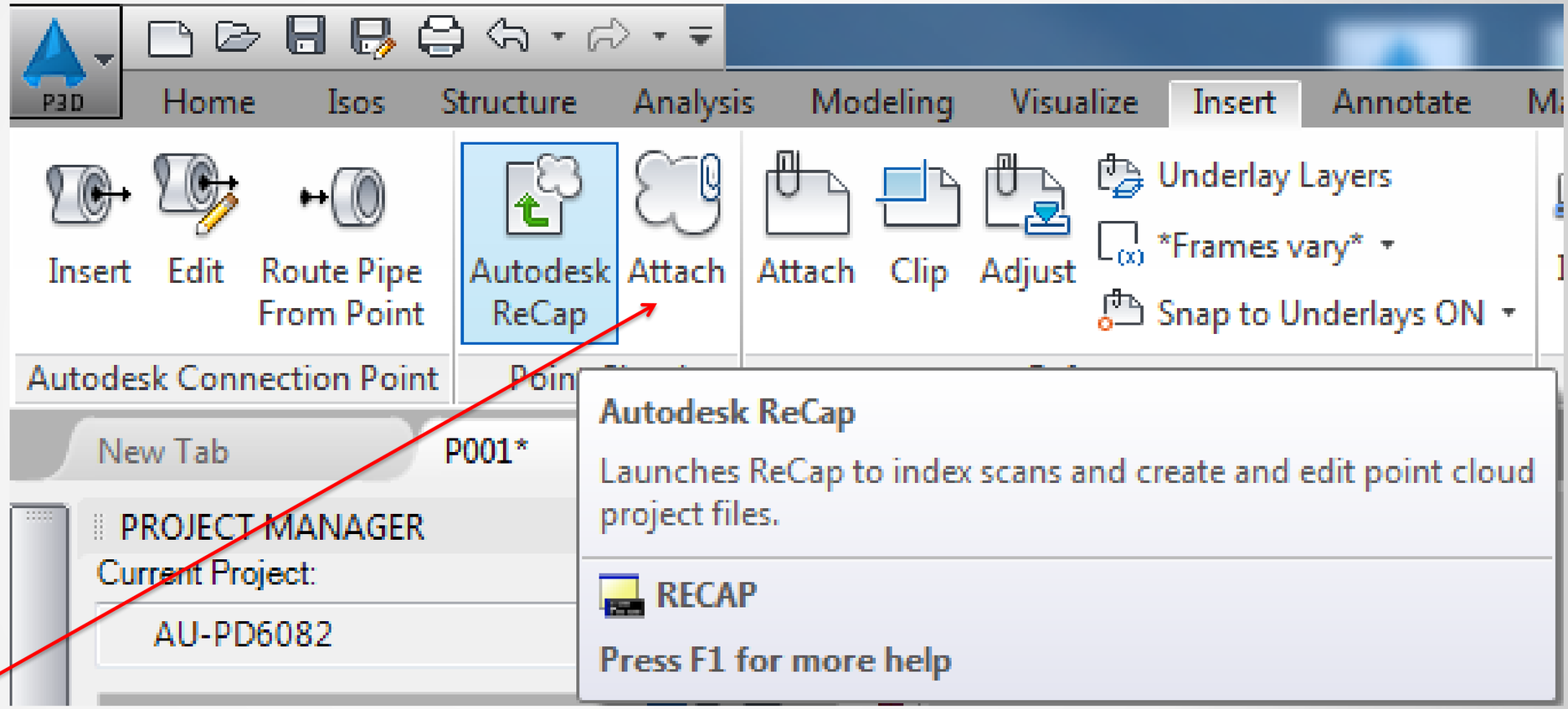
Index the Scans

*

Add piping and equipment to your as-built AutoCAD® Plant 3D model

Add piping and equipment to your as-built AutoCAD® Plant 3D model

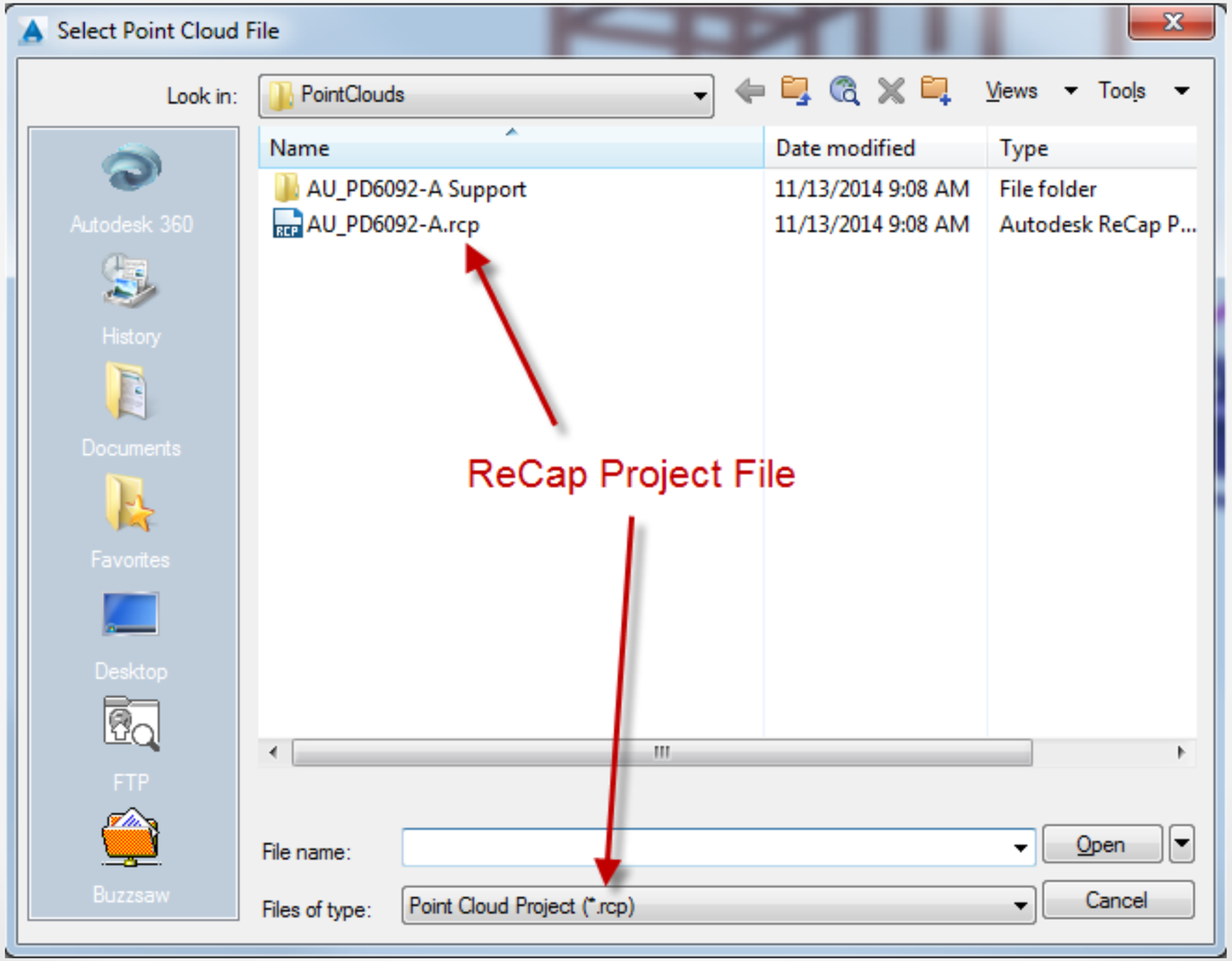
You will find Autodesk ReCap Command included in the INSERT Tab in the Ribbon



Attach a ReCap file

Add piping and equipment to your as-built AutoCAD® Plant 3D model

RCP is the file extension for a ReCap Project.

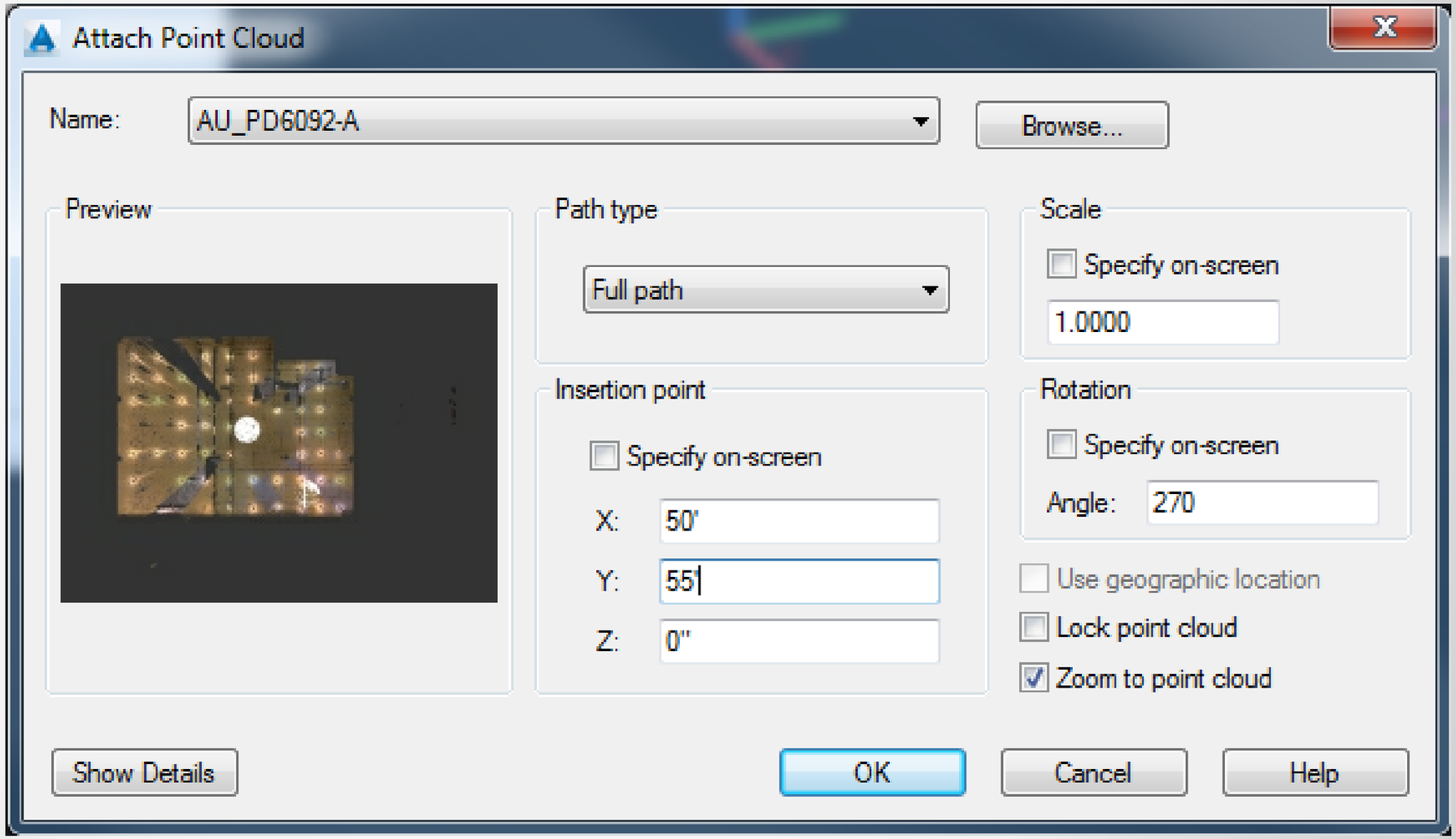


Add piping and equipment to your as-built AutoCAD® Plant 3D model

Insert the Point Cloud as the desired coordinates and angle.

Scale should be 1.0

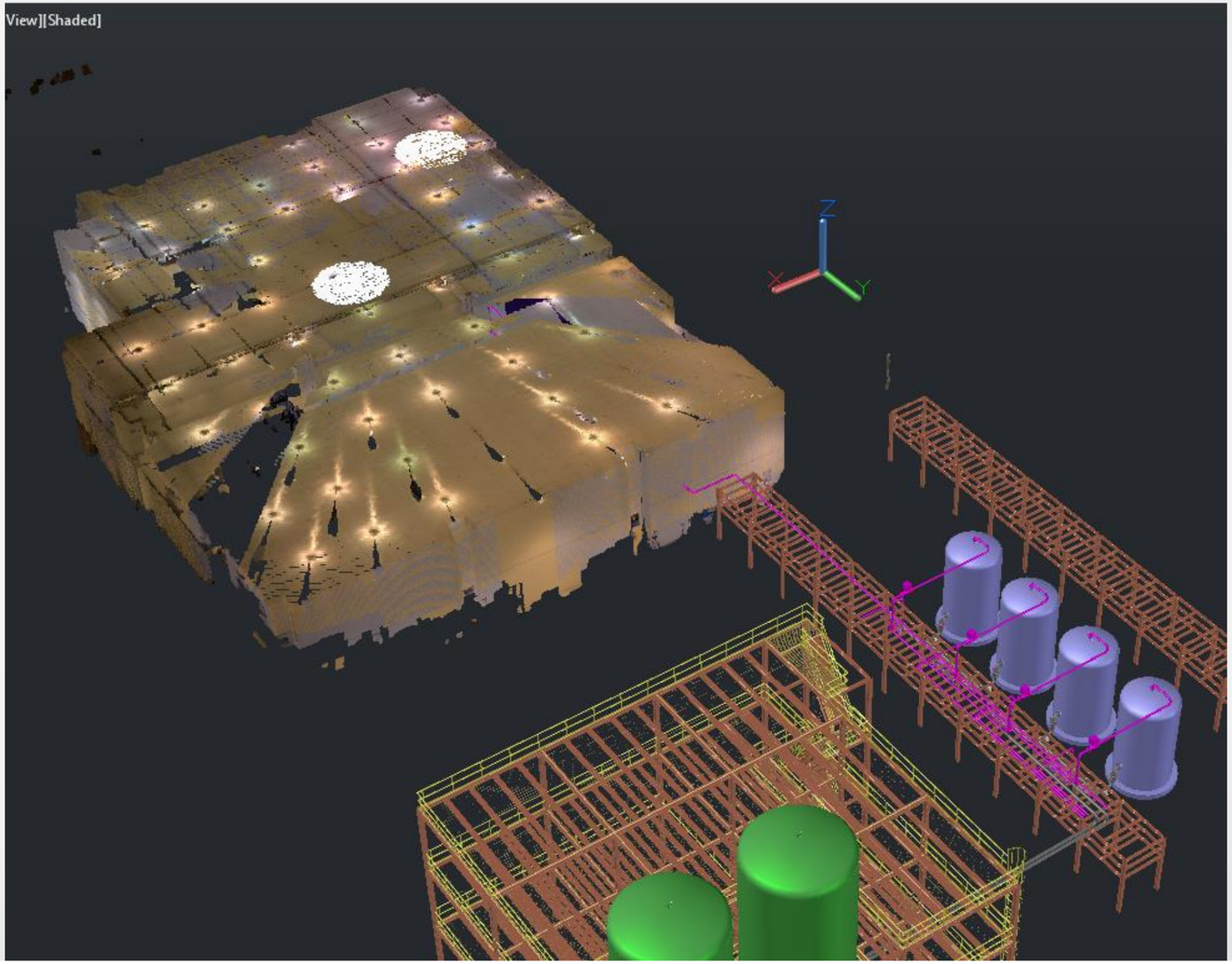
*



Add piping and equipment to your as-built AutoCAD® Plant 3D model

The Point Cloud is inserted with an existing Plant 3D Model

Big Scan! We need to create Regions!



Add piping and equipment to your as-built AutoCAD® Plant 3D model

TIP!

If you need to make changes to the ReCap Project, like adding Regions, you will need to close the DWG model that has the Point Cloud attached.

“In use” Point Clouds cannot be saved in ReCap as it is already “in use” in Plant 3D.

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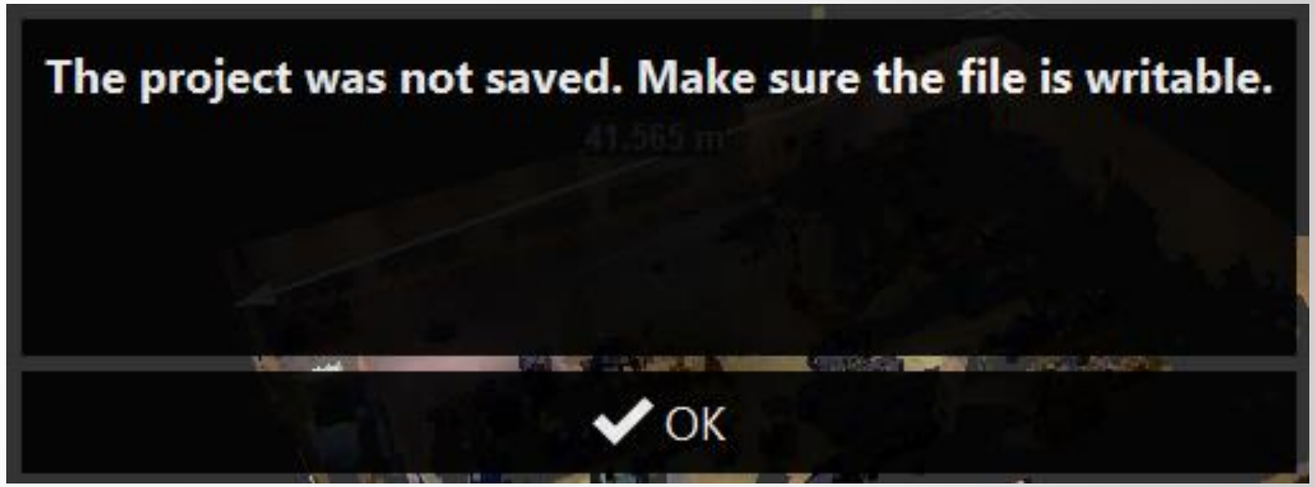
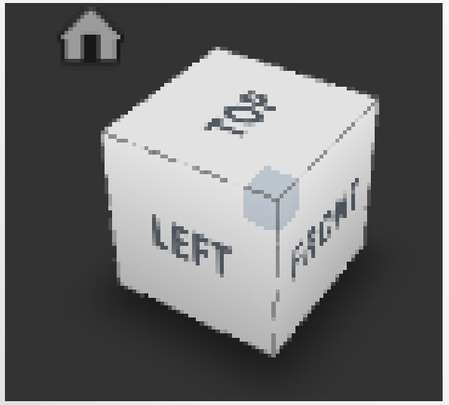


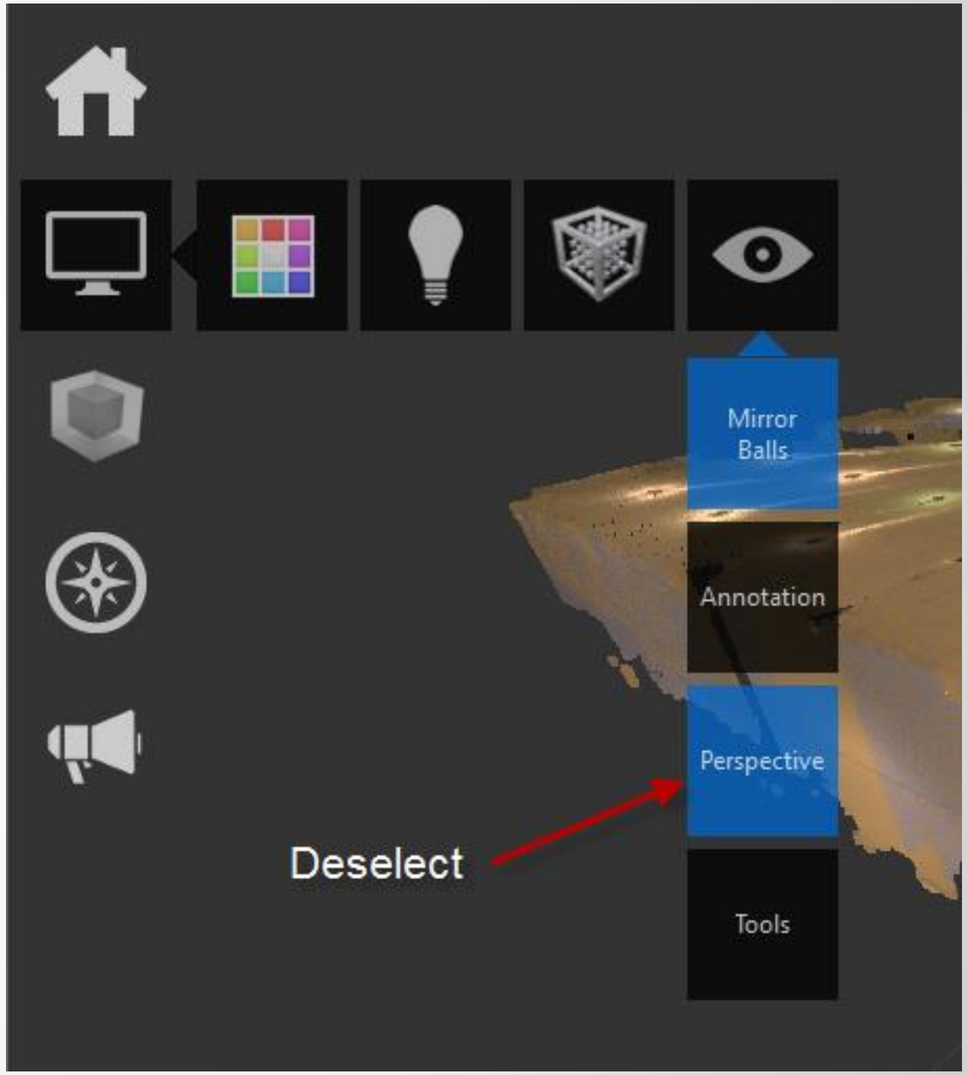
Add piping and equipment to your as-built AutoCAD® Plant 3D model

Creating Regions in ReCap

TIP! ~ Turn off Perspective View

TIP! ~ Use the View Cube when making Region Selections





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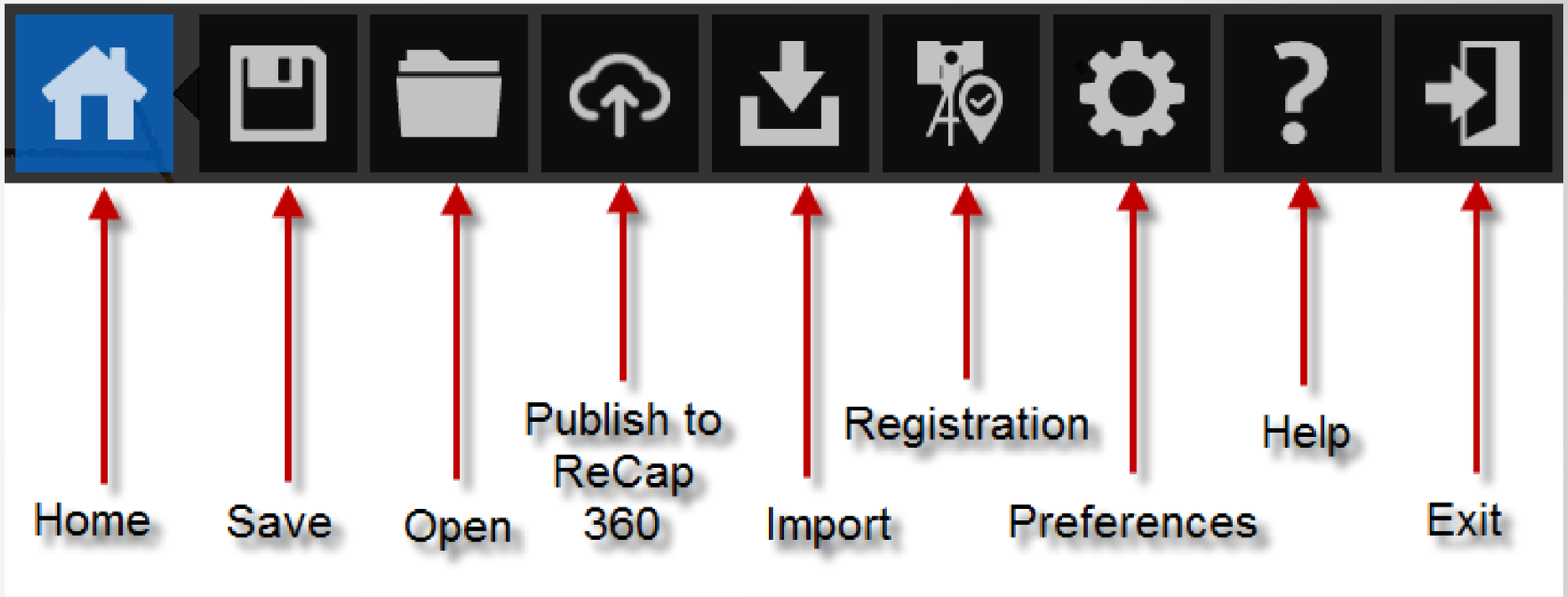
Understand and use some of the functionality available in Autodesk® ReCap® software

Understand and use some of the functionality available in Autodesk® ReCap® software

Other commands exist in fly-out menus



Understand and use some of the functionality available in Autodesk® ReCap® software

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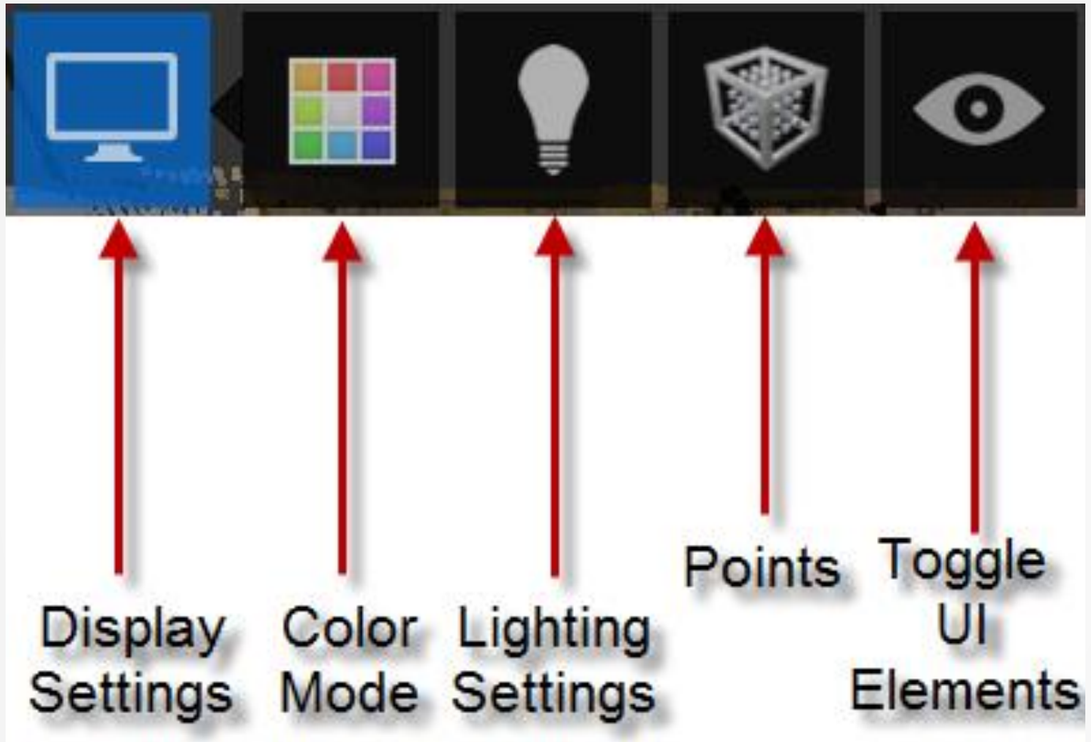
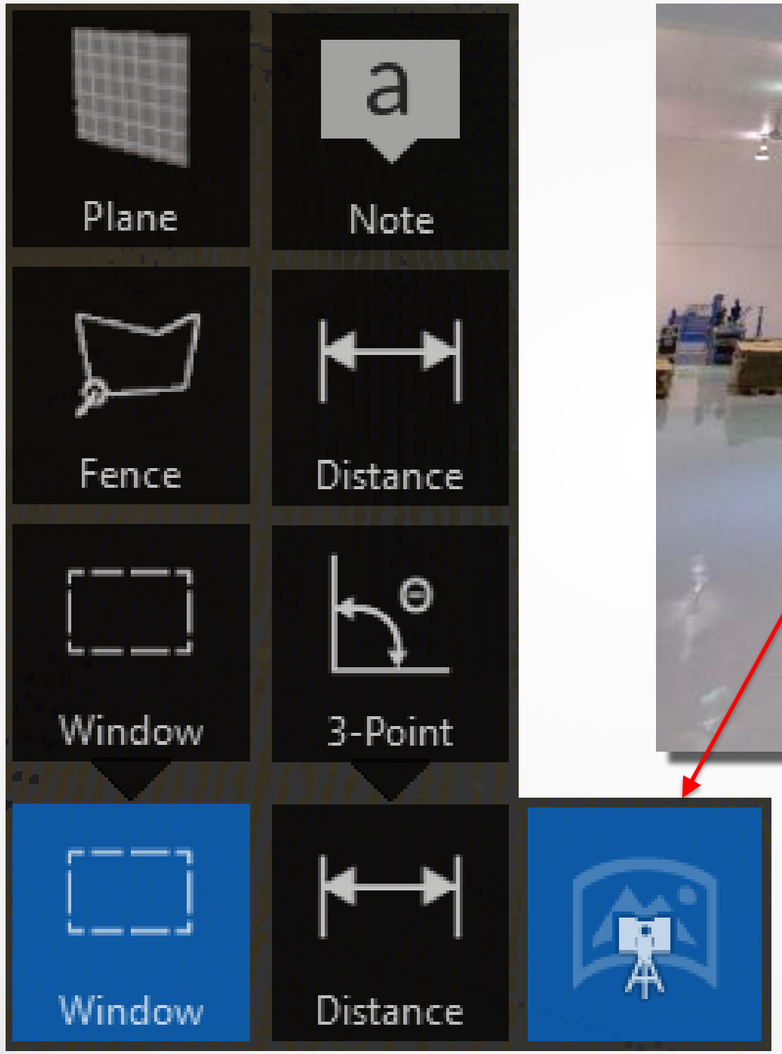


Navigation

Understand and use some of the functionality available in Autodesk® ReCap® software

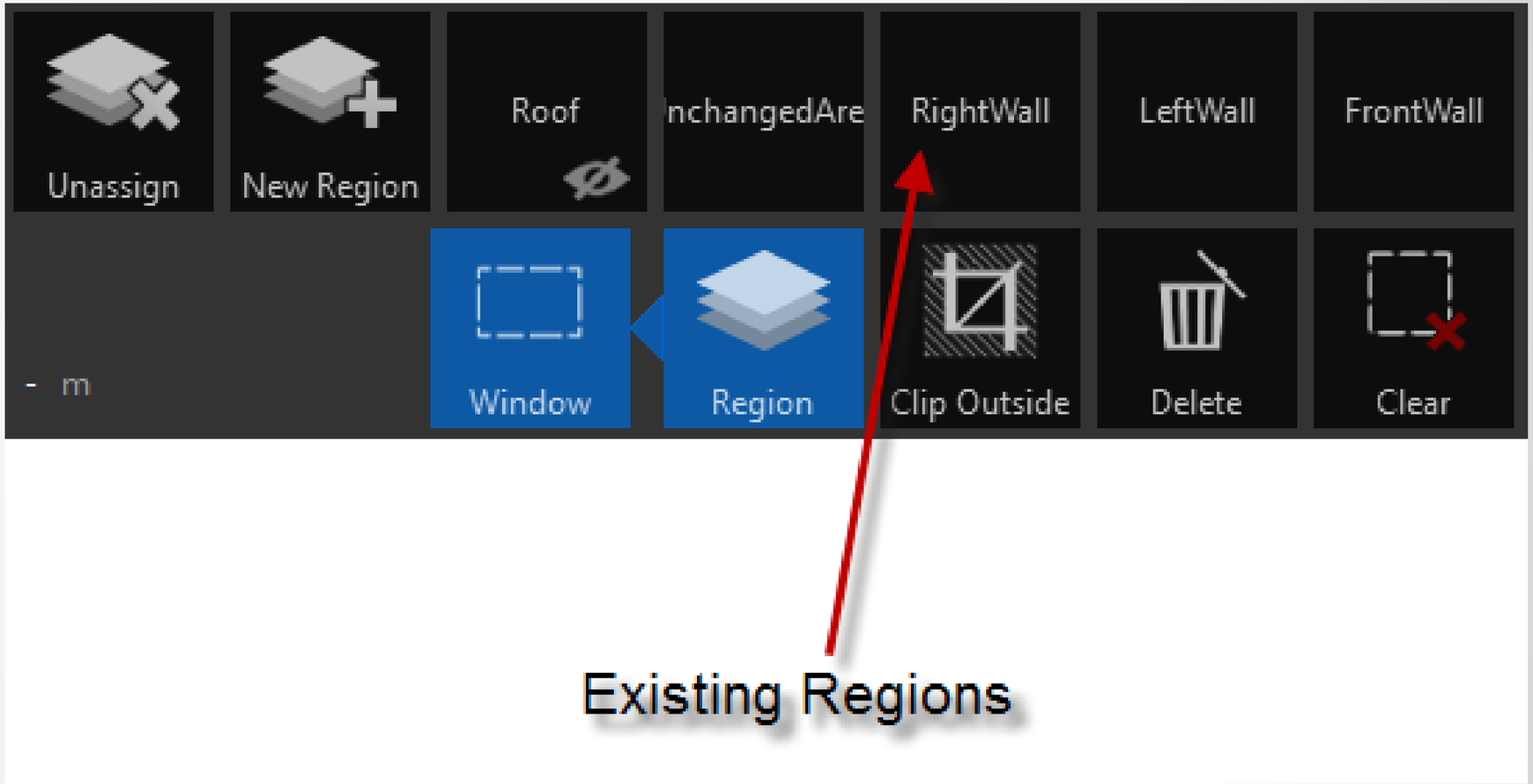
Other commands exist in fly-up menus on the bottom of the application

Scanorama is the photo realistic scan from the scan locations



Understand and use some of the functionality available in Autodesk® ReCap® software

Once a Window, Fence or Plane selection is made, you will see Region options



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Hopefully, you have learned the following:

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Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2014 passes given out each day!
- Best to do it right after the session
- Instructors see results in real-time

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