



BUILT BY **SURVEYORS** FOR **SURVEYORS**

How to Implement **Connected Survey Workflows** with **Trimble Access**

Design Changes

On large construction projects, there are frequent design changes.
For example, the original utility plan gets updated and modified because of....

ENGINEERS

1 day of Rework = hourly rate x 8
Incorrect Setout + construction = \$\$\$\$

In a **Connected workflow**, the design changes in the cloud
get to the field within 5 minutes.

It prevents rework!

Data Delays

In large organizations with survey and drafting teams, the surveyor might finish field work at 4pm, drive an hour to the office, + arrive at 5pm to begin data transfer or wait until the next day. Processing + drafting begins the next day.

In a **Connected workflow**, the processing + drafting can begin at 4:01pm after synchronization. It saves time!

Data Backup

A surveyor puts the data collector on the truck's roof as they are packing up. They forget about it and drive off.

Rather than taking out the surveyor's stakes as usual, a dozer runs over the data collector. All field data is lost since the last manual back-up, a week ago.

**1 Week of lost data + Construction mistake =
Potentially millions in liability**

In a **Connected workflow**, data is sync'd + backed-up regularly. It protects spent time + effort, assures field records, + limits liability!

Managing BIM files

Surveyor uses complex 3D models without good layer control + attribution in the field. They spend 30 minutes in the field or office isolating the components needed for stakeout.

In a **Connected workflow**, a survey manager can easily isolate the needed layers + geometry in Trimble Connect, and then send it surveyors in the field.
Save data prep time and unlock the value of the 3D model in the field .
(greater context, better visualization, flexibility with all data)

Managing Job Files

On a large construction project, numerous Job files are created a day for stakeout + conformance work. Finding the right Job file can take time + be challenging for surveyor or office data processing staff.

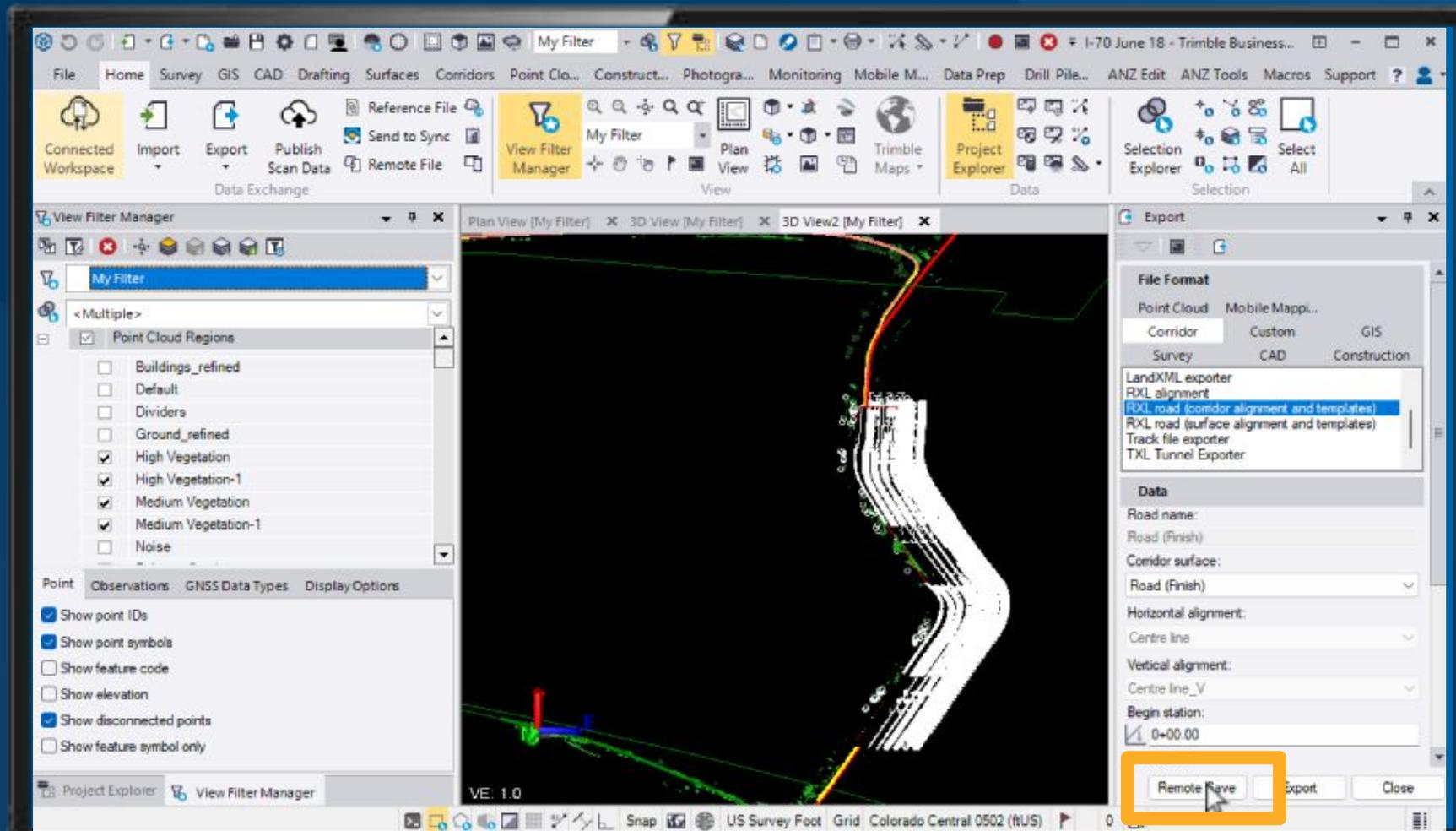
In a **Connected workflow**, view all Job data on a map and use tags in Trimble Connect to search + find Jobs easier.
Save time + stress!



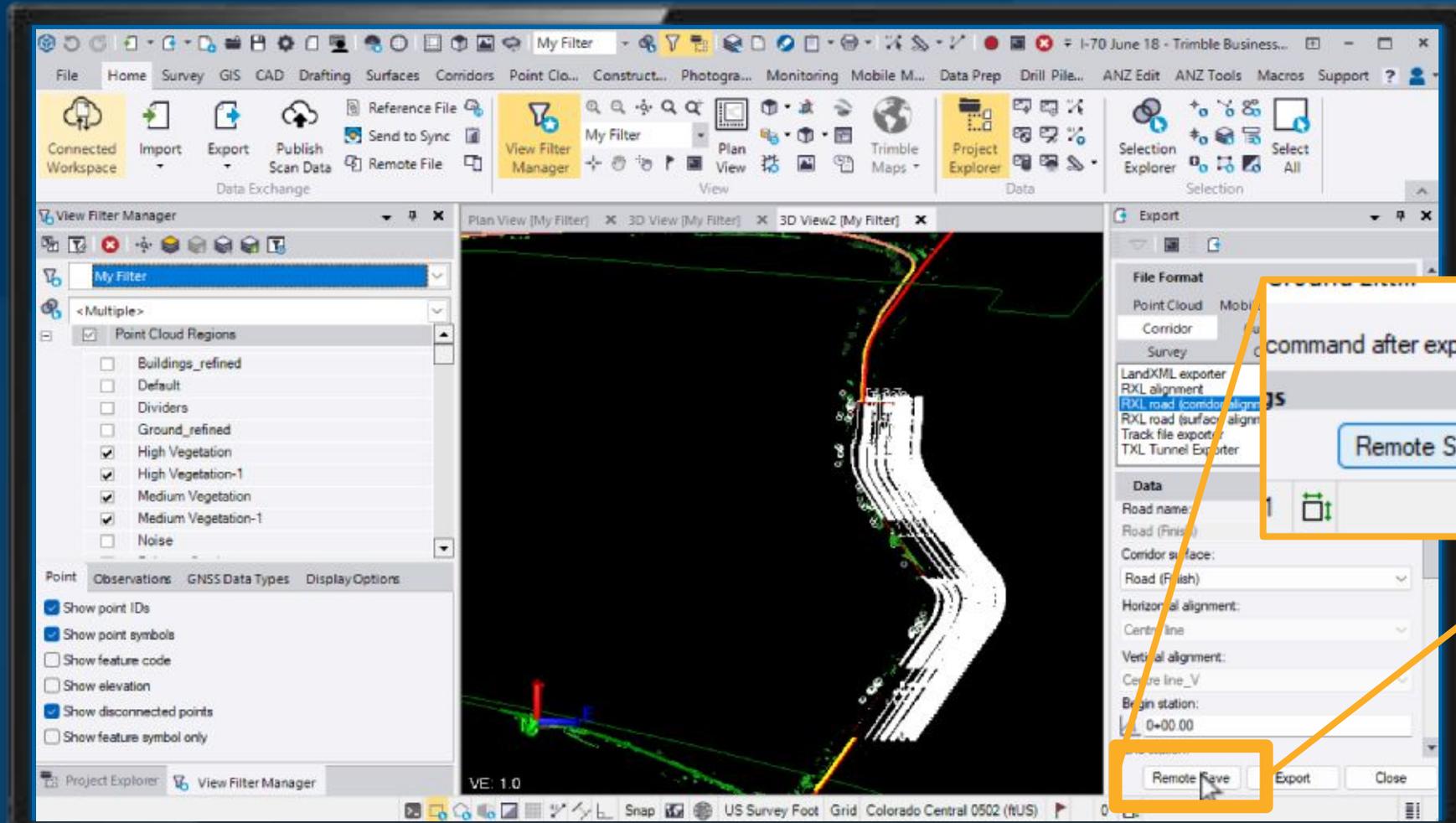
Trimble Access Cloud Workflows



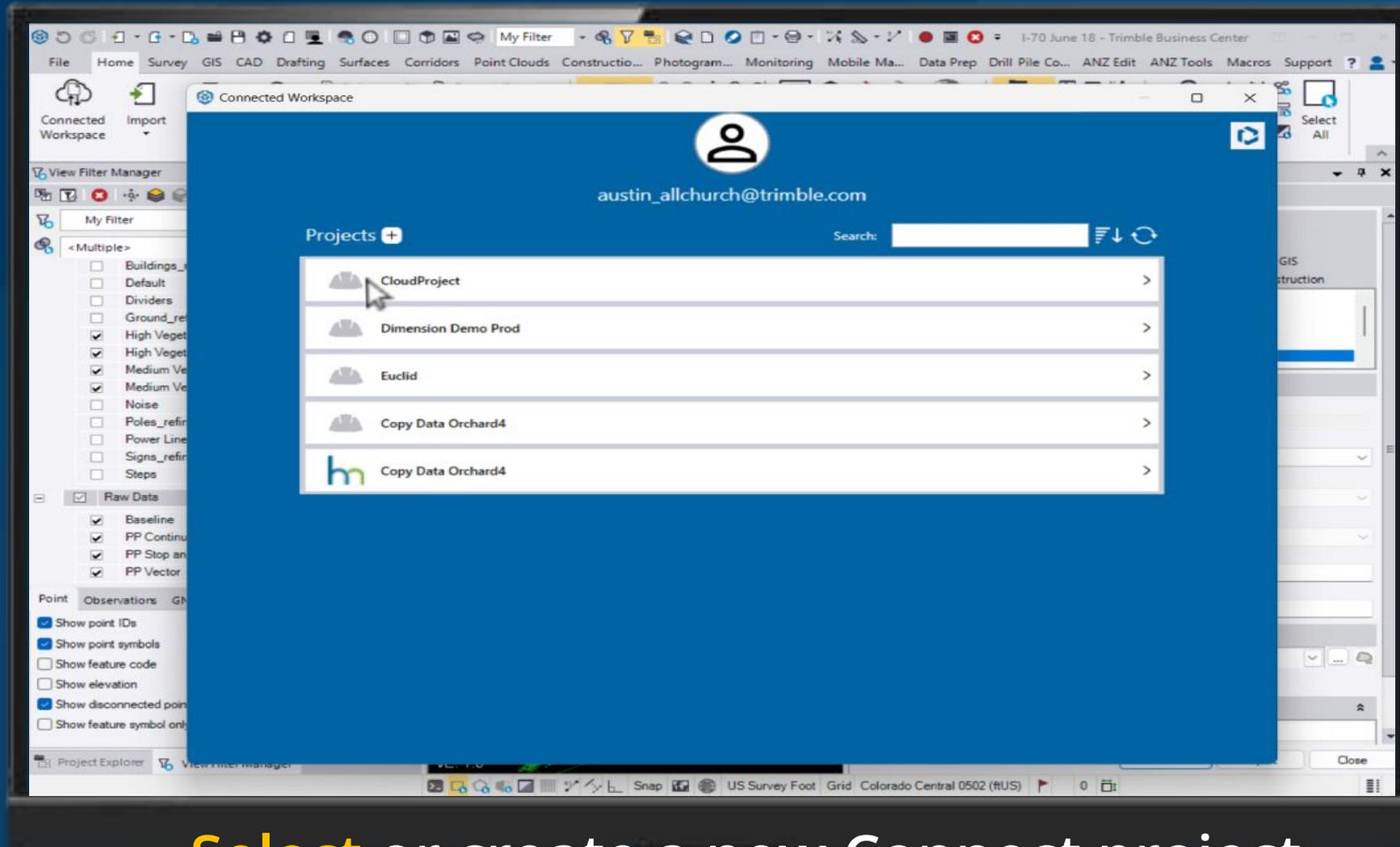
01 Publishing designs to the cloud



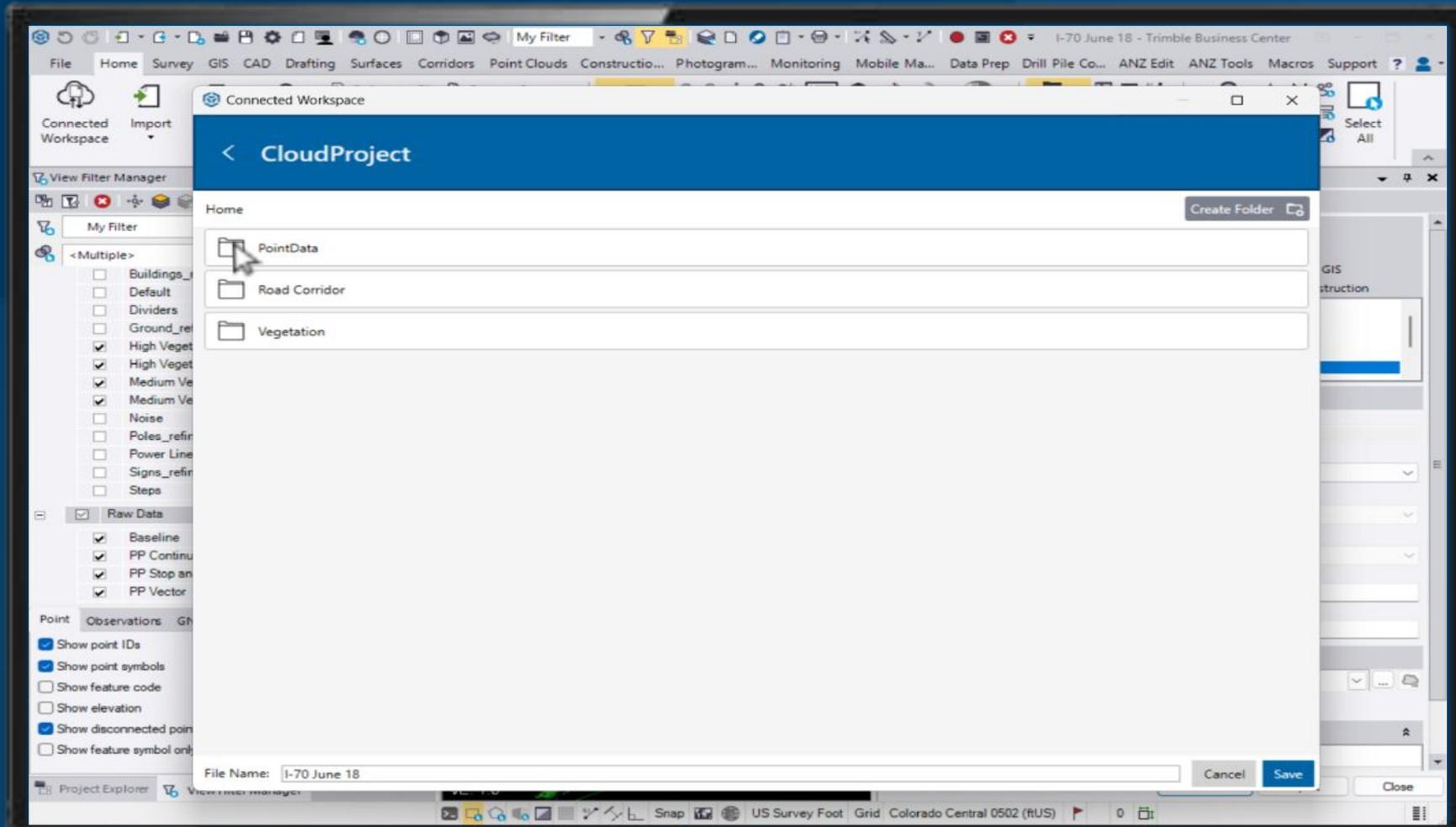
Remote Save ensures your project team always have access to the data they need.



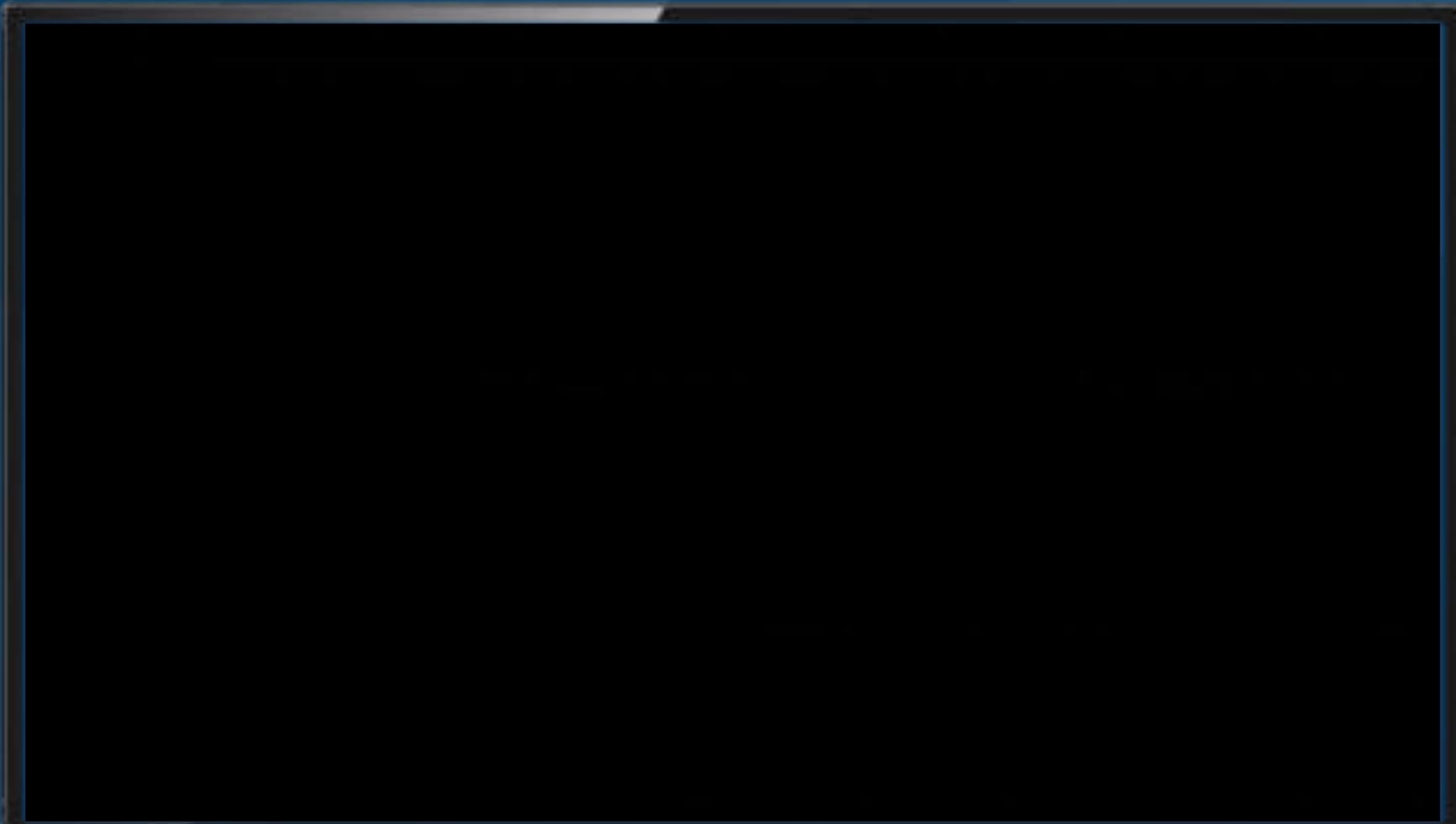
Remote Save ensures your project team always have access to the data they need.



Select or create a new Connect project



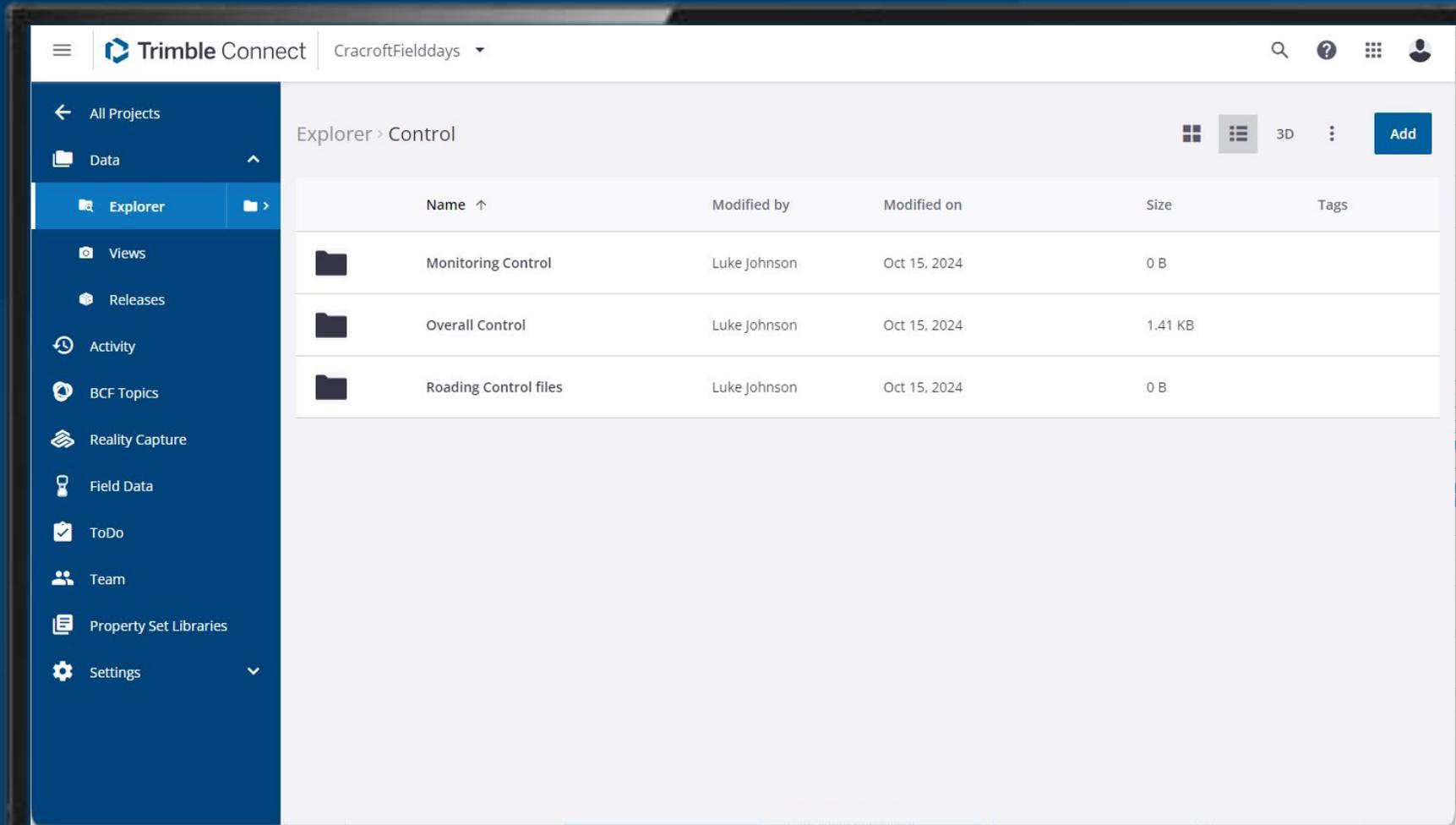
Organize files using the Trimble Connect project explorer to make them easy to find.



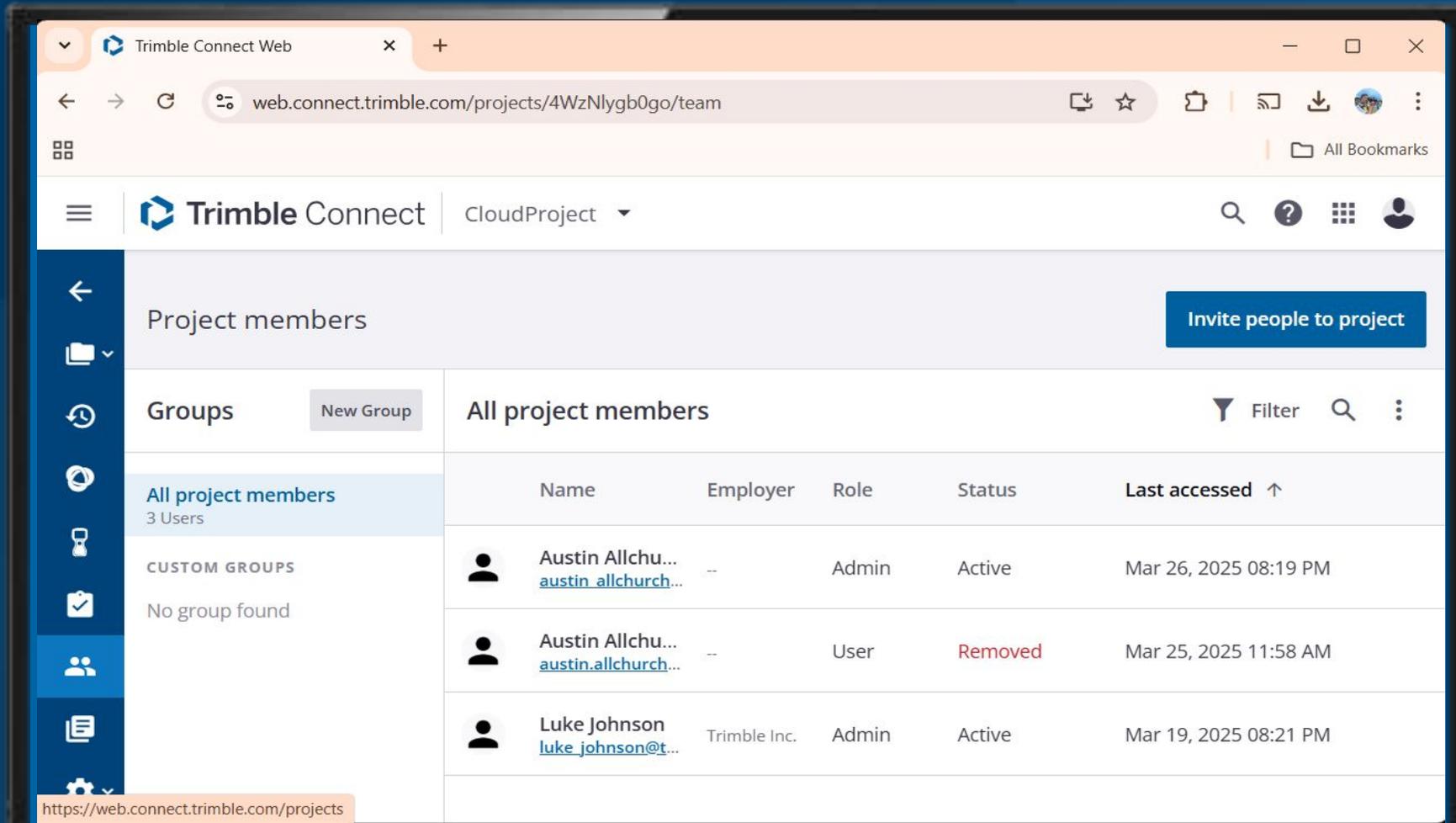
Alternatively you can **Drag and Drop files** into the Connect project using the Connect web browser.



02 Managing Data in the cloud



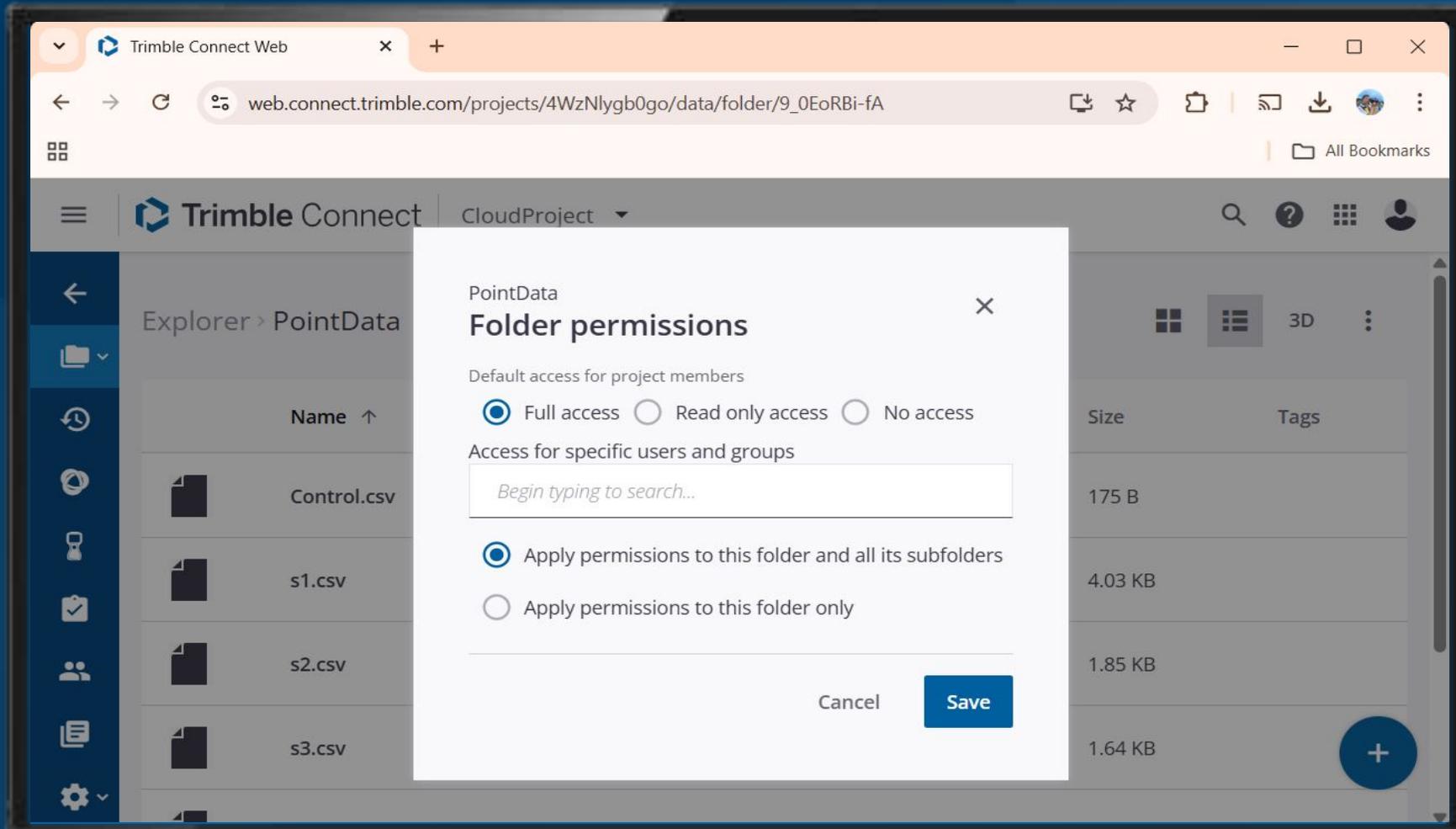
Organize files using the Trimble Connect project explorer to make them easy to find.



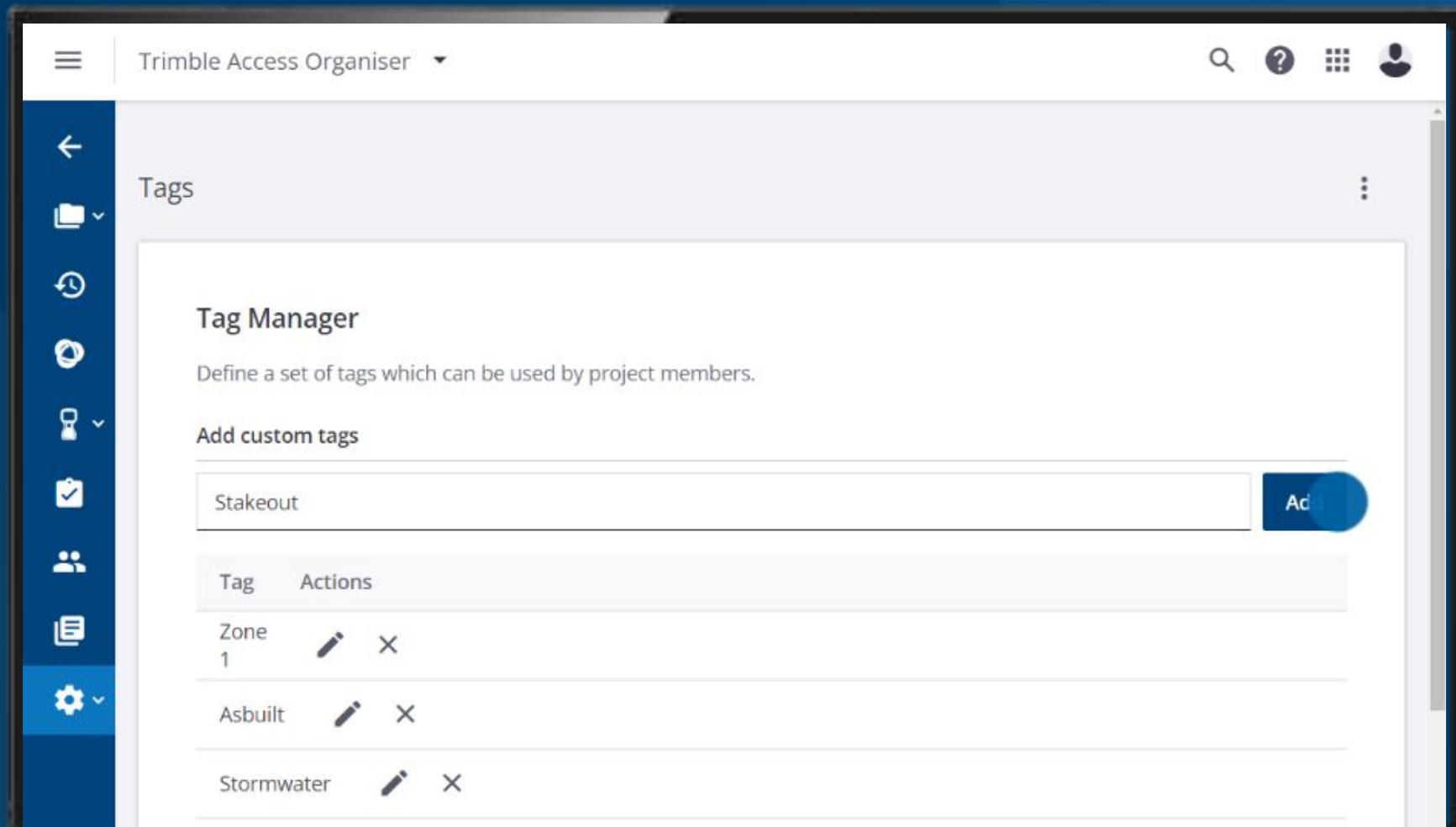
The screenshot displays the Trimble Connect web interface for managing project members. The browser address bar shows the URL `web.connect.trimble.com/projects/4WzNlygb0go/team`. The page title is "Project members" and includes a button to "Invite people to project". A sidebar on the left contains navigation icons, with the "Project members" icon highlighted. The main content area shows a table of "All project members" with columns for Name, Employer, Role, Status, and Last accessed. The table lists three users: Austin Allchurch (Admin, Active), Austin Allchurch (User, Removed), and Luke Johnson (Admin, Active).

Name	Employer	Role	Status	Last accessed
Austin Allchurch austin_allchurch...	--	Admin	Active	Mar 26, 2025 08:19 PM
Austin Allchurch austin.allchurch...	--	User	Removed	Mar 25, 2025 11:58 AM
Luke Johnson luke_johnson@t...	Trimble Inc.	Admin	Active	Mar 19, 2025 08:21 PM

Manage team members using the Connect web browser to ensure that they have access to the data they require.



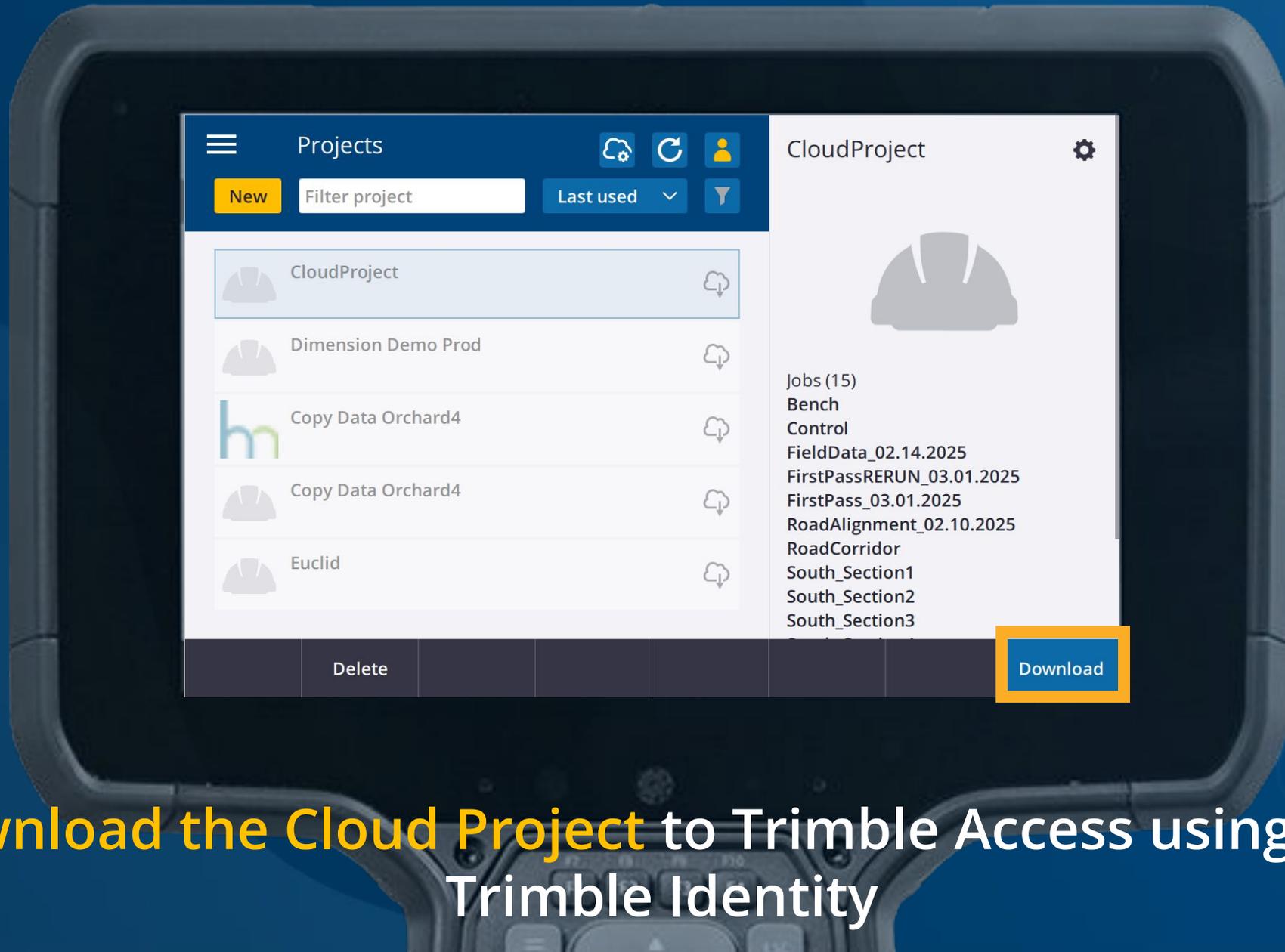
Users can be added to **Groups** and **Permissions** can be applied to individual people or groups.



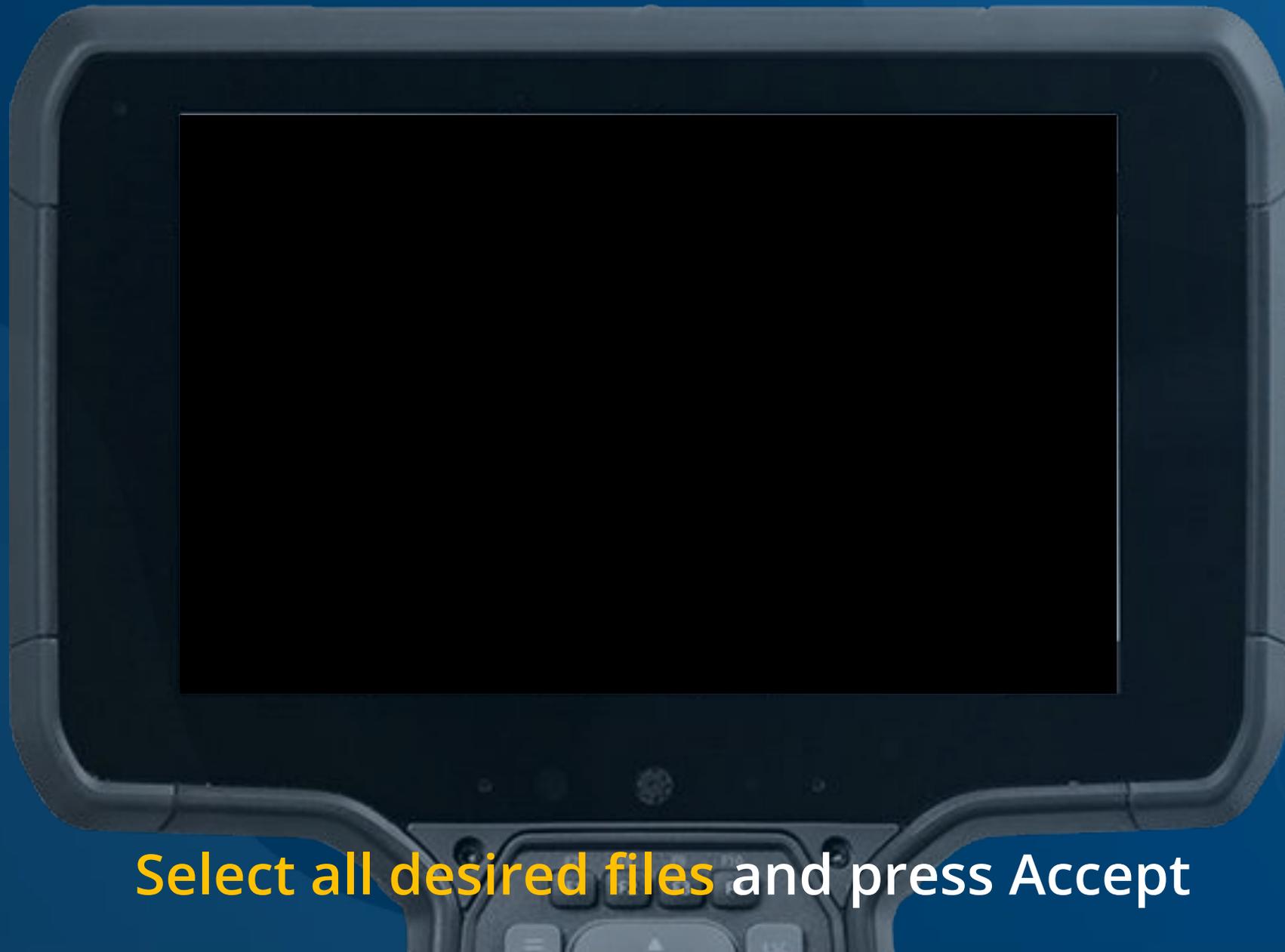
In Trimble Connect you can create **Tags** for the project to help organise your files and jobs.



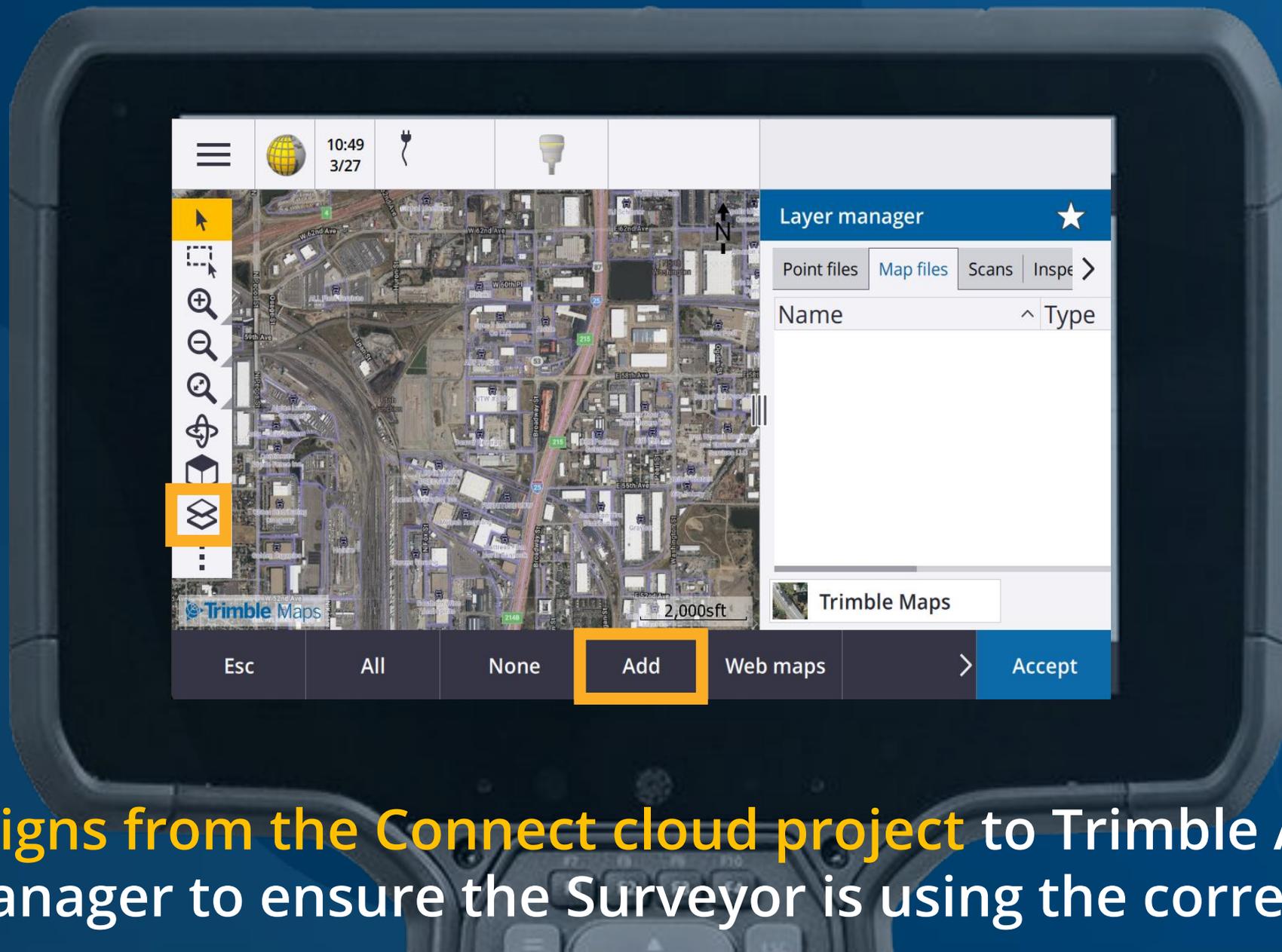
03 Using designs in the Field



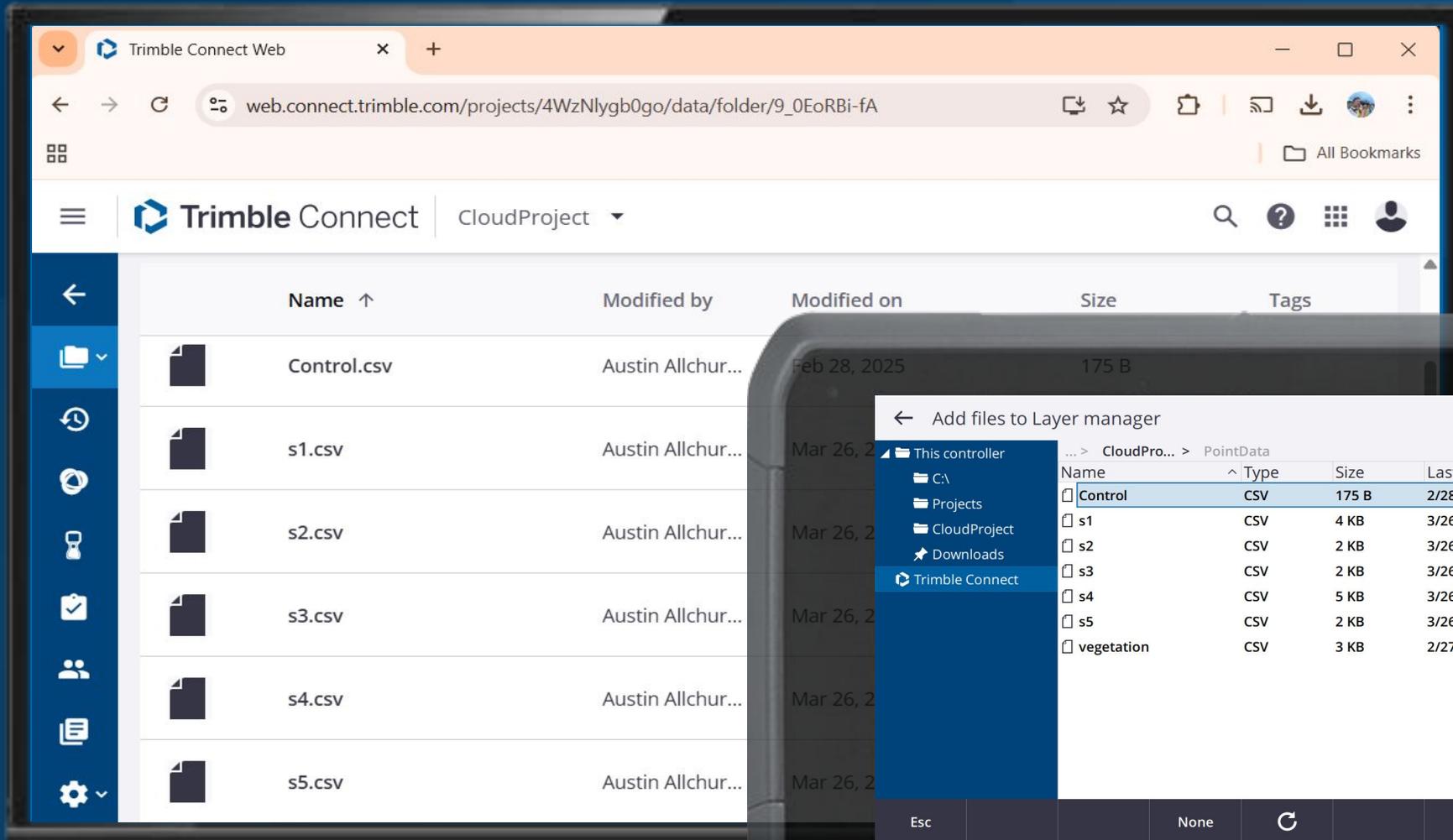
Download the Cloud Project to Trimble Access using your Trimble Identity



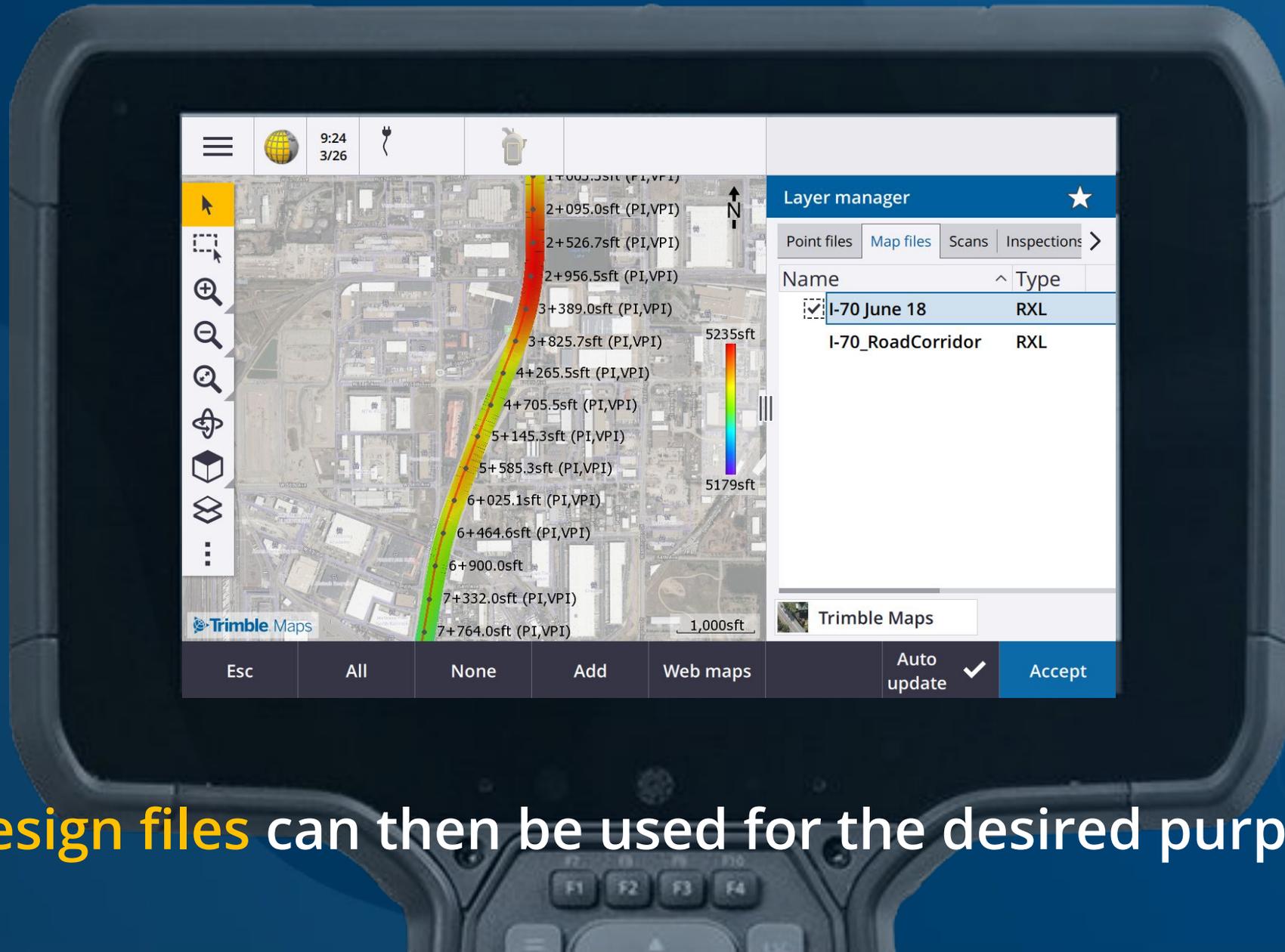
Select all desired files and press Accept



Add designs from the Connect cloud project to Trimble Access layer manager to ensure the Surveyor is using the correct data.

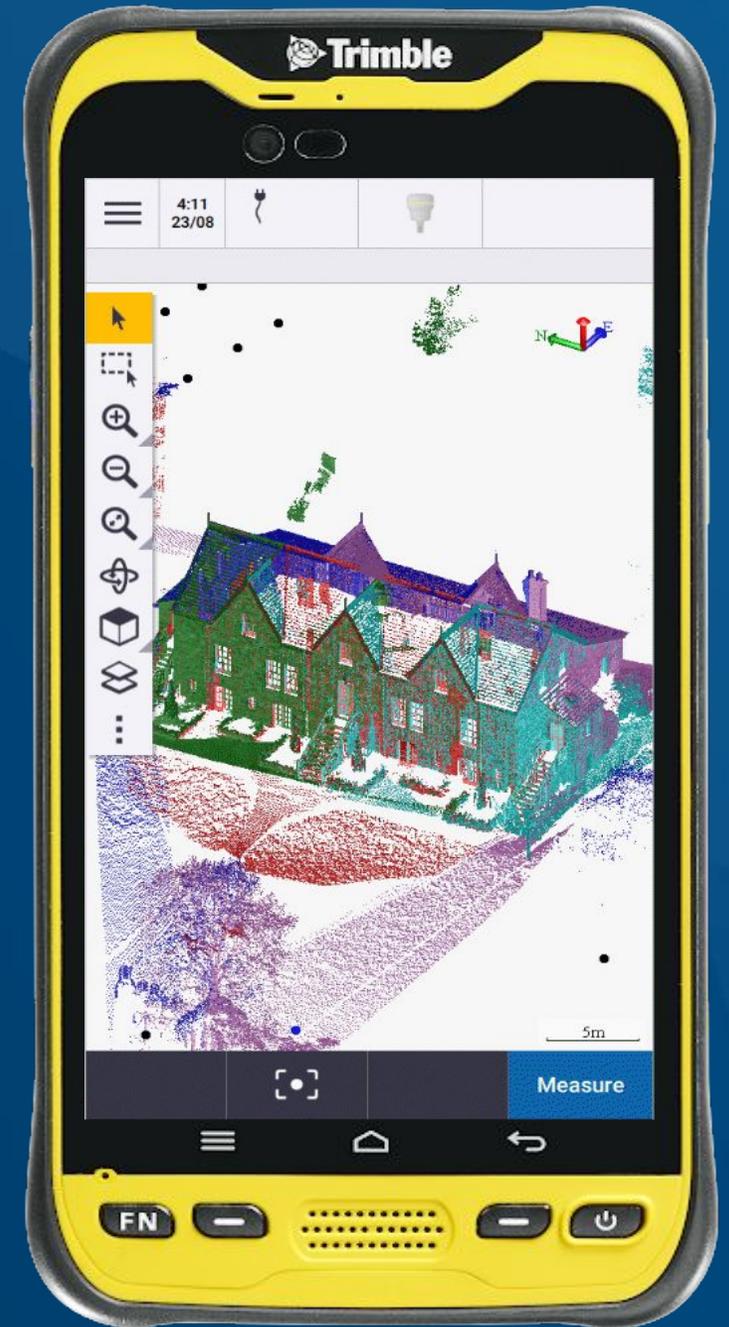


Staying connected and informed on site is essential. Trimble Access ensures you always have access to critical data.

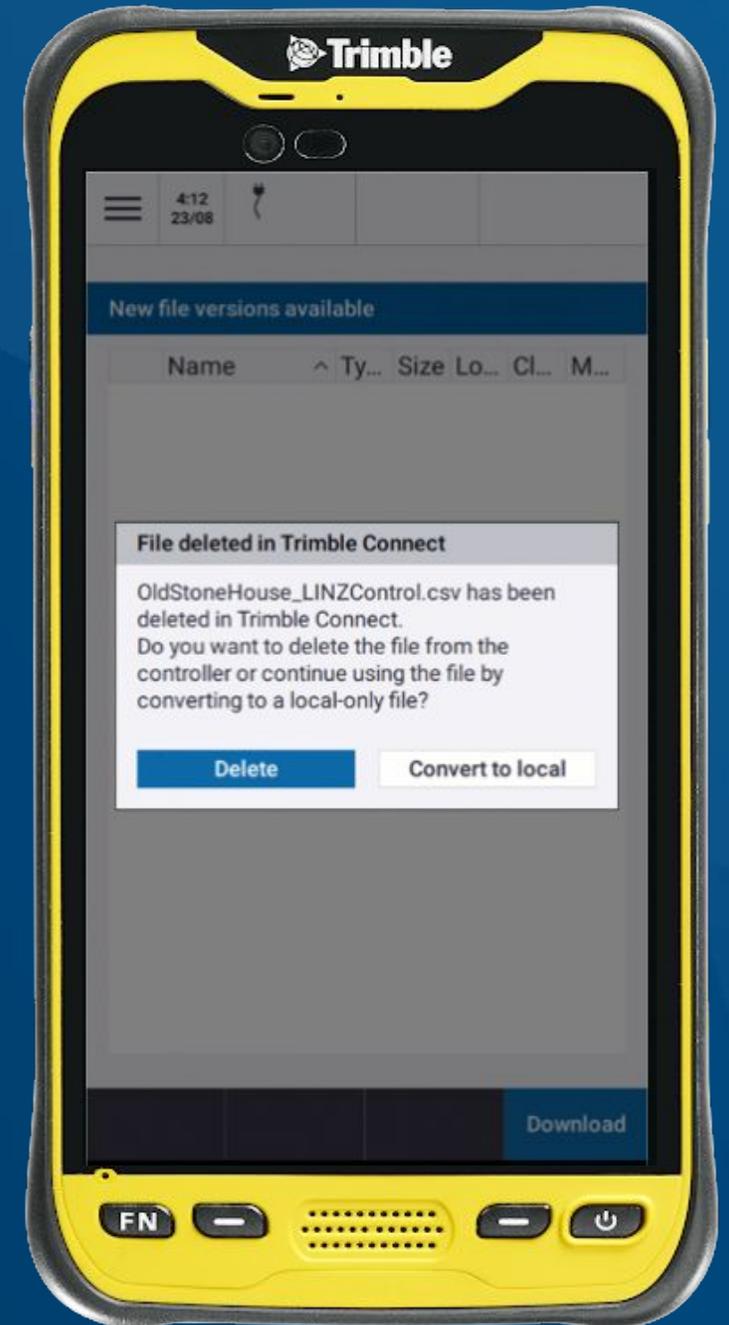


Design files can then be used for the desired purpose

When Design files are updated in the cloud, the field user is notified and prompted to download the new version.

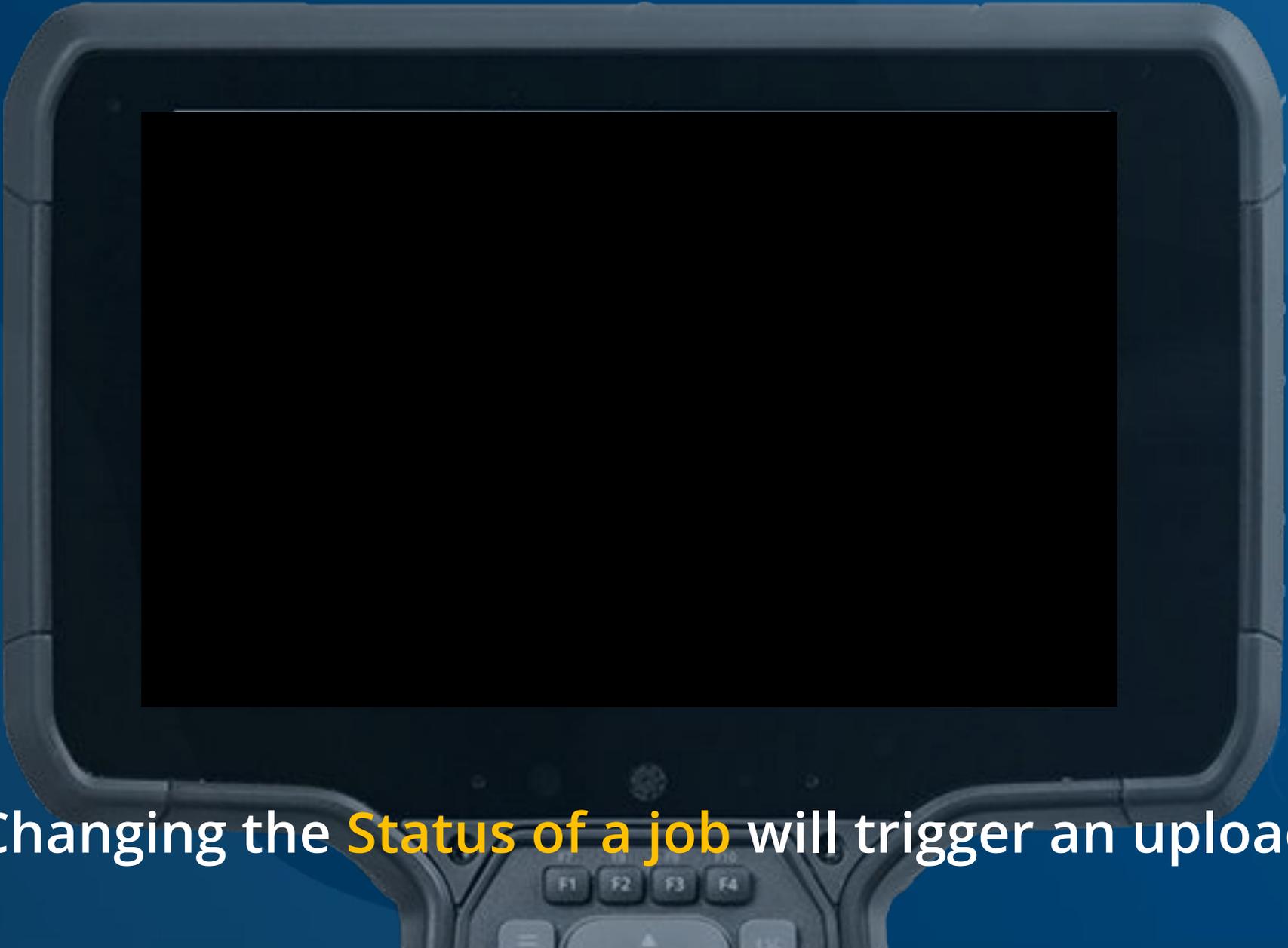


If a file is deleted from Connect, the user is alerted and asked if they would like to delete it or convert it to a local file

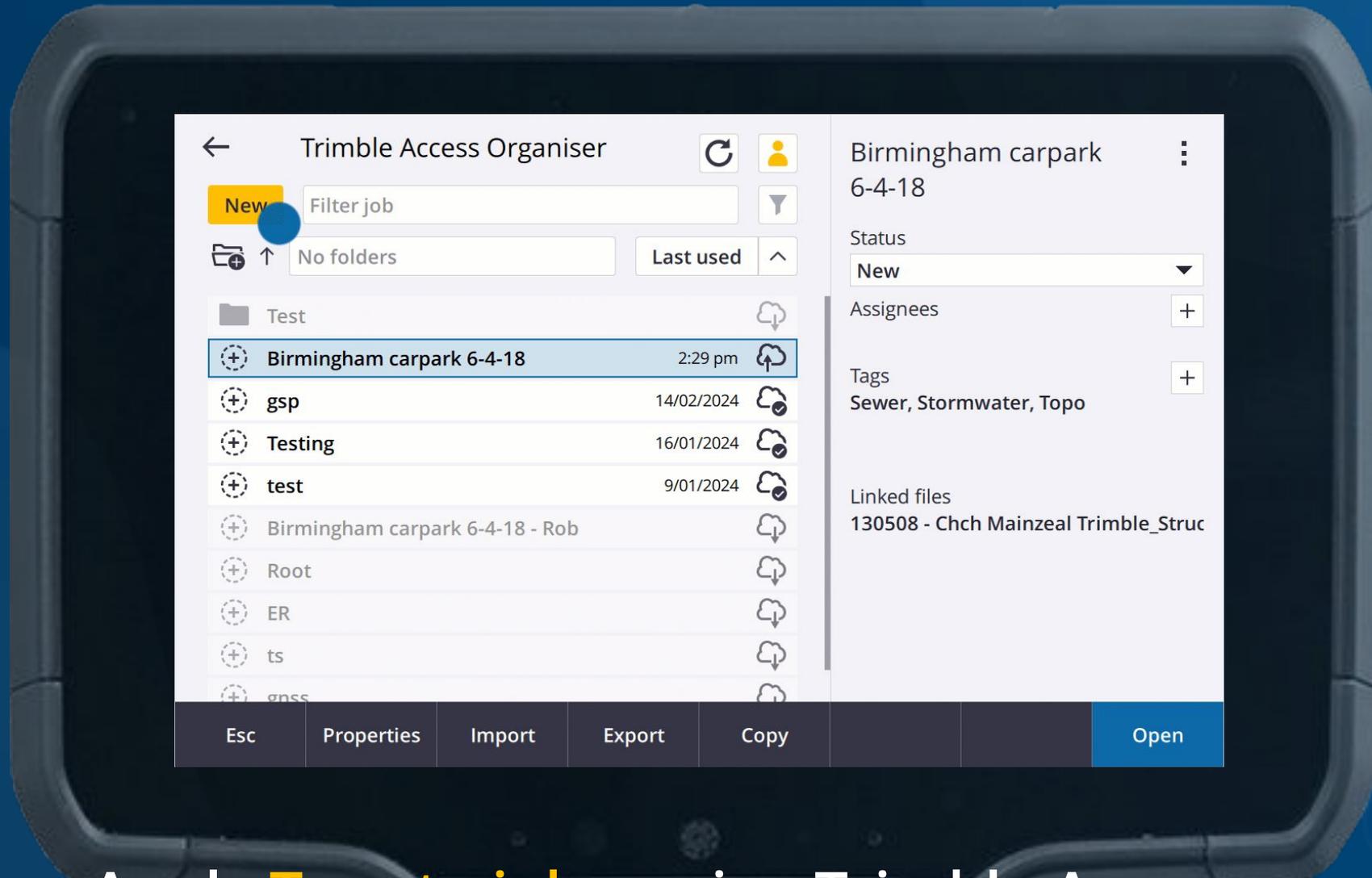




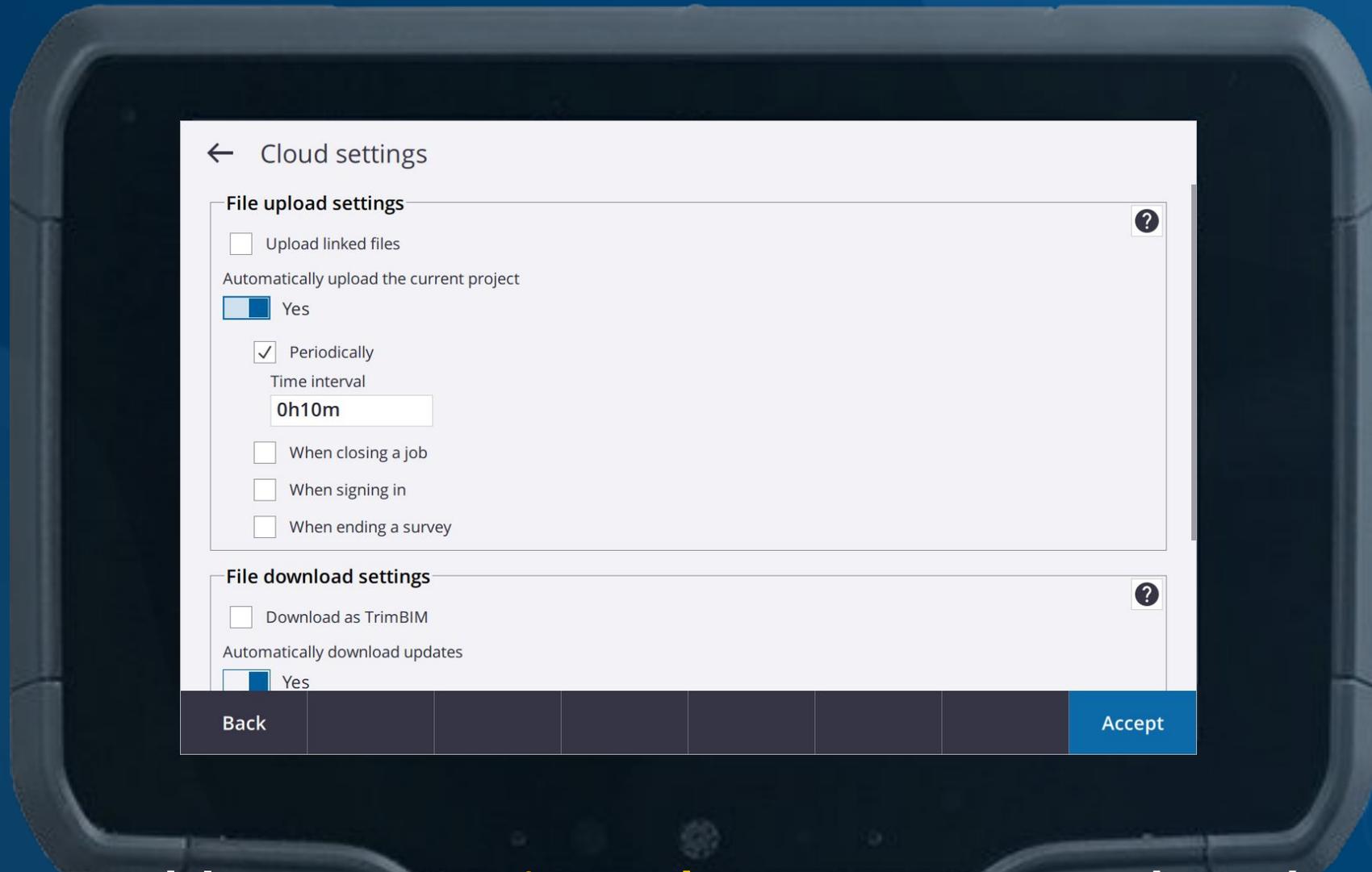
04 Send finished jobs to the Cloud

A ruggedized tablet device with a black screen and a grey protective frame. The device is shown from a slightly elevated front perspective. The screen is currently blank. Below the screen, a portion of the device's control panel is visible, showing several function keys labeled F1, F2, F3, and F4, along with a directional pad and other navigation buttons.

Changing the **Status of a job** will trigger an upload.



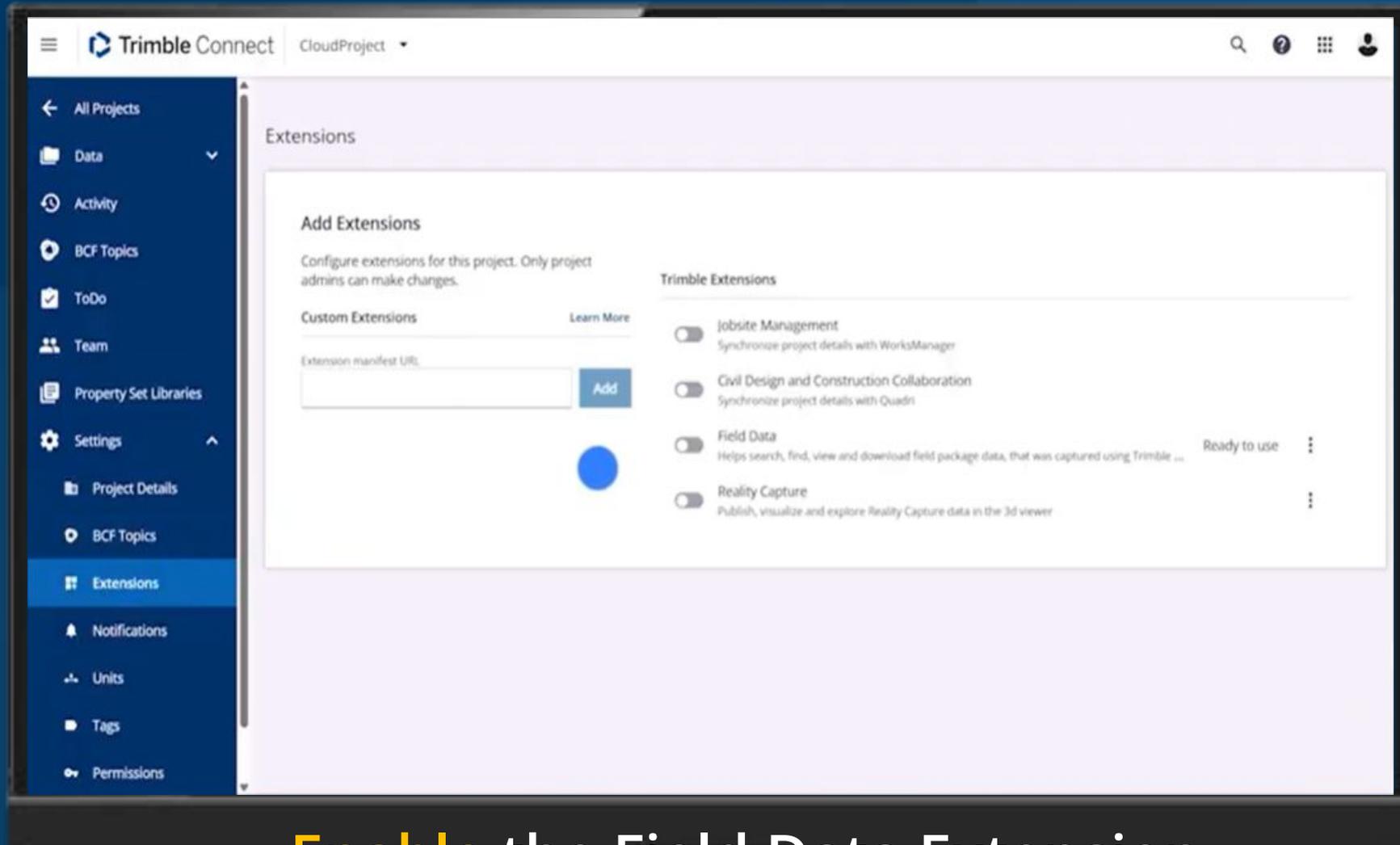
Apply **Tags to jobs**, using Trimble Access or Field Data Extension to help find and identify jobs.



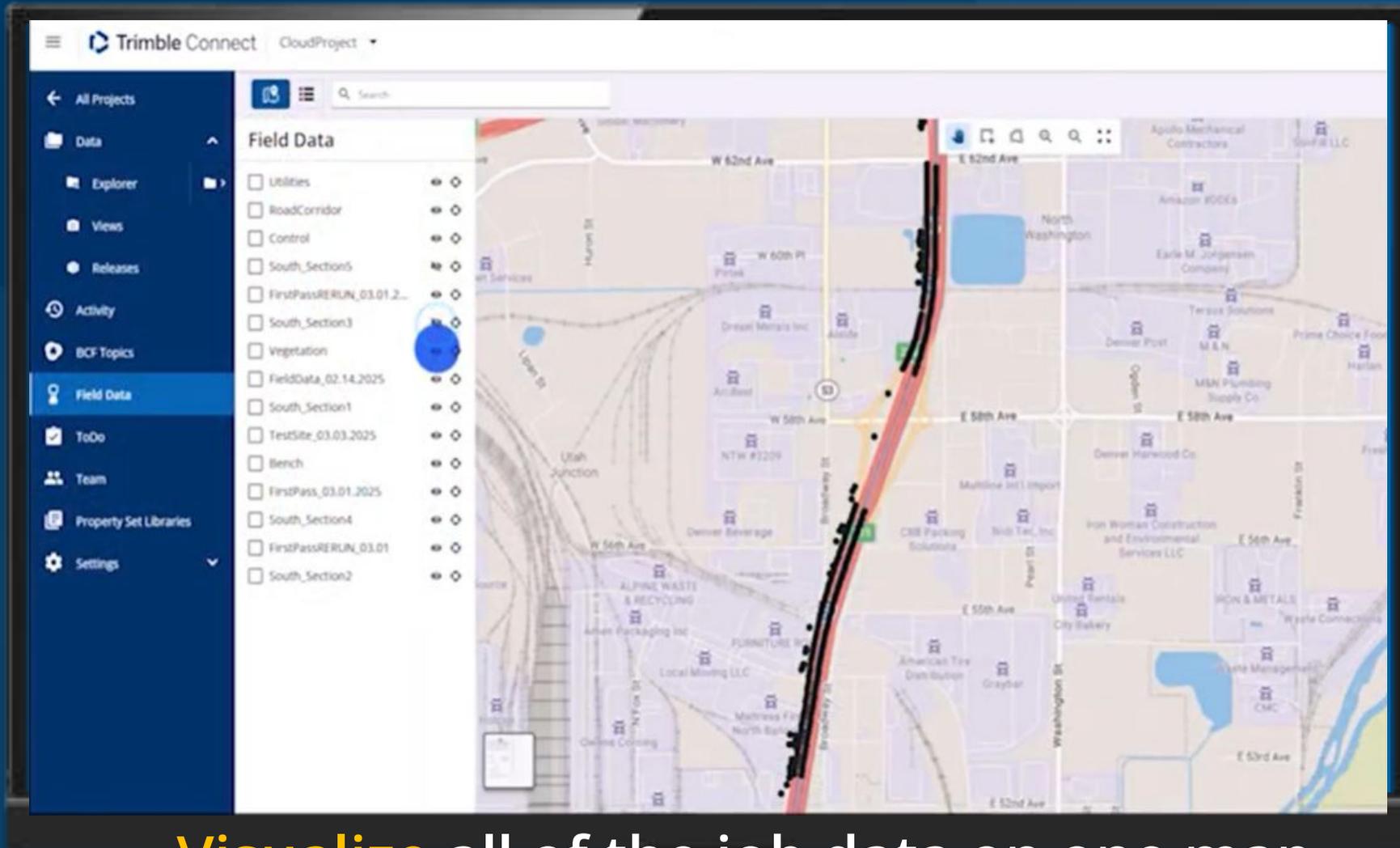
Enable **Automatic updates** to ensure that the data is automatically shared



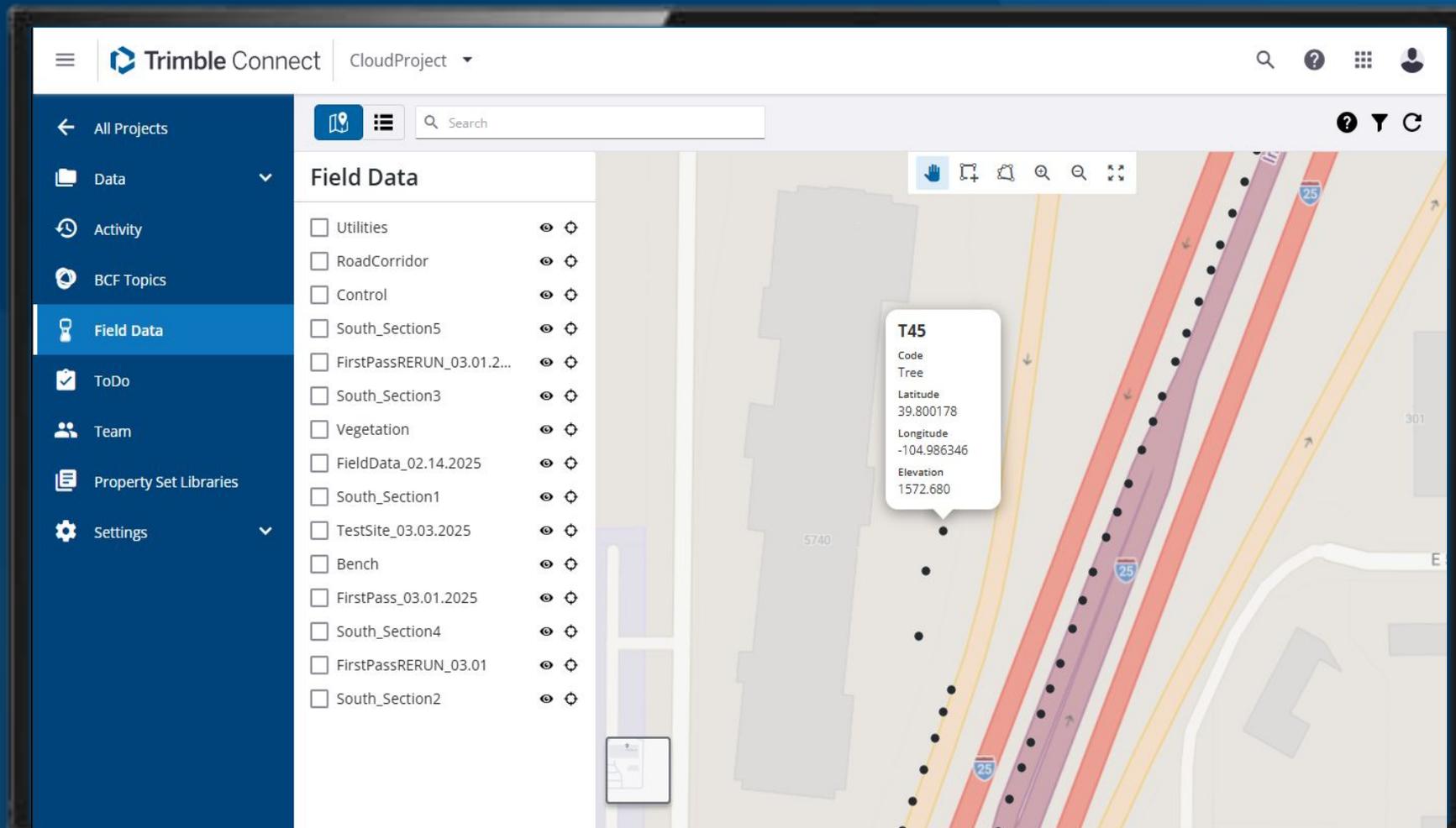
05 Manage Jobs in the cloud



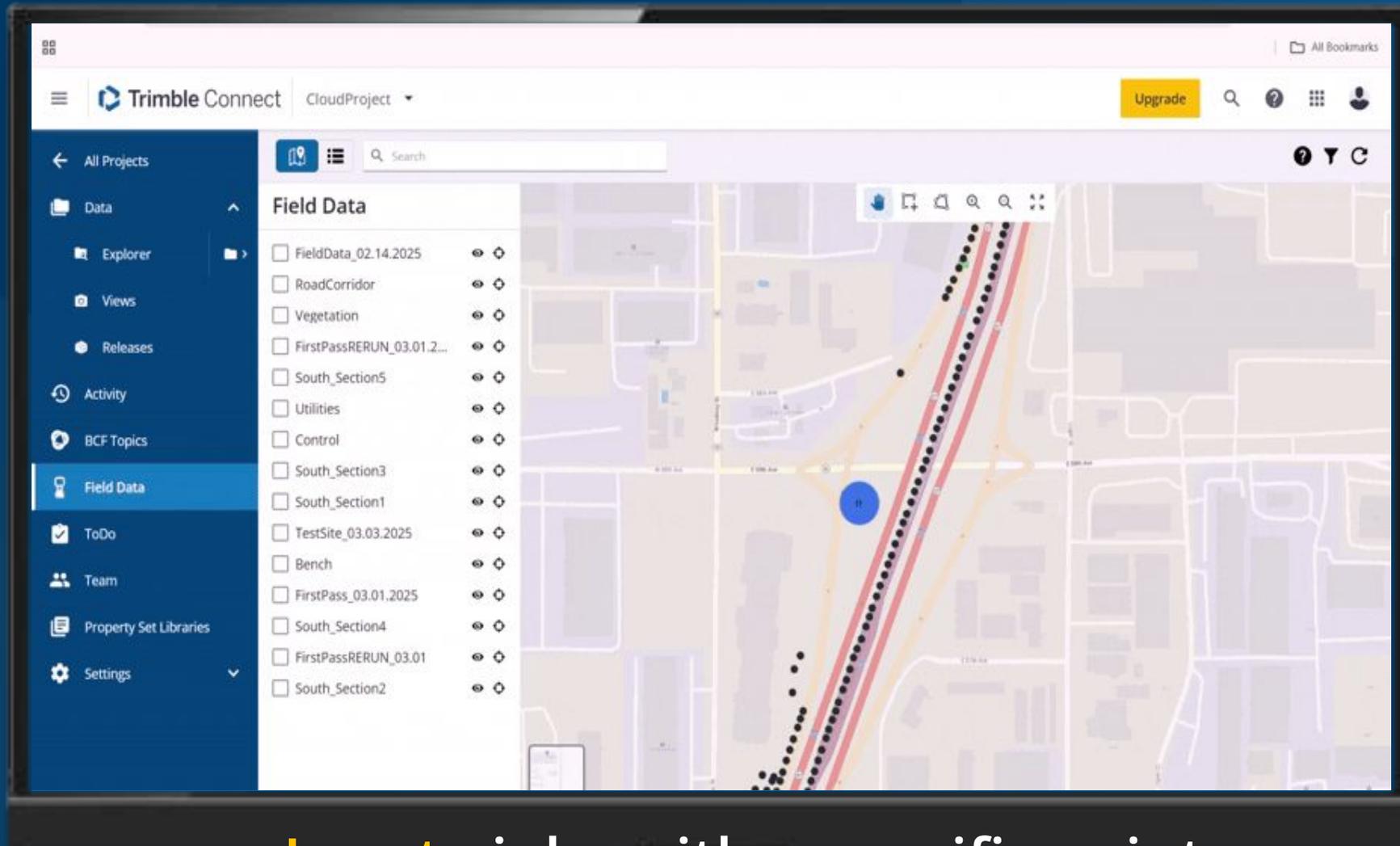
Enable the Field Data Extension



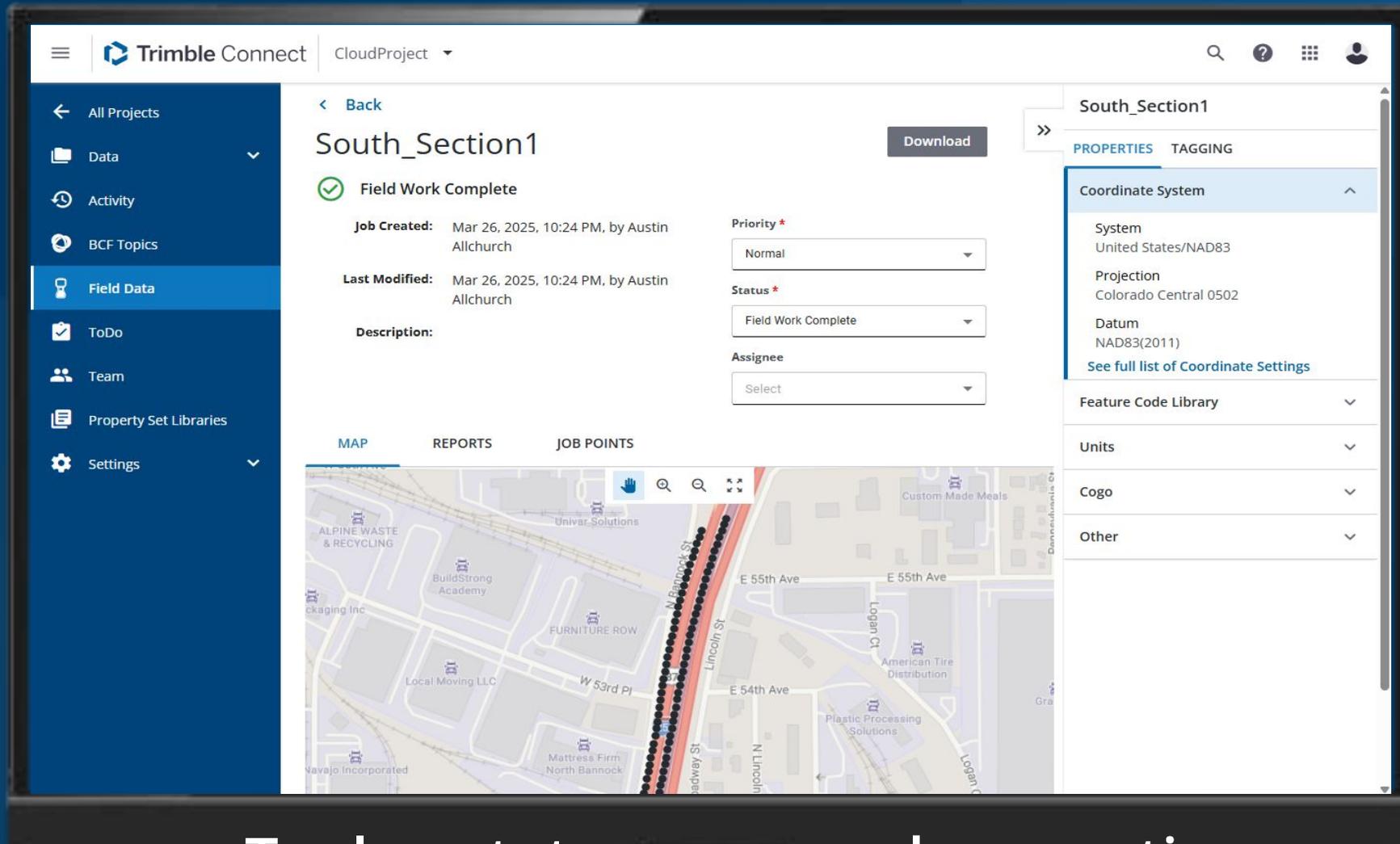
Visualize all of the job data on one map



Review Feature coded points with their attributes



Locate jobs with a specific point



Tools – status, map and properties

Trimble Connect
Dimension Demo Prod

🔍
?
☰
👤

- ← All Projects
- 📁 Data
- 🕒 Activity
- 🗺️ BCF Topics
- 👤 Field Data - stage
- 📌 ToDo
- 👥 Team
- 📄 Property Set Libraries
- ⚙️ Settings

← Back
Download

Birmingham carpark 6-4-18

✔️
Field Work Complete

Job Created: Nov 09, 2024, 06:49 PM, by Luke Johnson

Last Modified: Nov 09, 2024, 06:54 PM, by Luke Johnson

Description:

Priority *

Normal

Status *

Field Work Complete

Assignee

Select

Birmingham carpark 6-4-18

PROPERTIES
TAGGING

Coordinate System

System
New Zealand/NZGD1949 (LC)

Projection
Mt Pleasant

Datum
New Zealand Geodetic 1949 (LC)

[See full list of Coordinate Settings](#)

Feature Code Library

Units

Cogo

Other

MAP
REPORTS
JOB POINTS

<input type="checkbox"/>	Name	Fil...	Size	Modified By	Modified On	
<input type="checkbox"/>	Survey Report.pdf	pdf	1.3 MB		Nov 09, 2024, 06:49 PM	⋮
<input type="checkbox"/>	Check shot report.pdf	pdf	26.14 KB		Nov 09, 2024, 06:49 PM	⋮

Reports

Trimble Connect CloudProject

South_Section1

Field Work Complete

Job Created: Mar 26, 2025, 10:24 PM, by Austin Allchurch

Last Modified: Mar 26, 2025, 10:24 PM, by Austin Allchurch

Description:

Priority: Normal

Status: Field Work Complete

Assignee: Select

MAP REPORTS **JOB POINTS**

Image	Name	Code	Classification	Northing	Easting
	11524	CE	Normal	522974.355m	958345
	11532	CE	Normal	522965.146m	958342
	11542	CE	Normal	522953.628m	958338
	11553	CE	Normal	522940.932m	958333
	11564	CE	Normal	522928.198m	958329

South_Section1

PROPERTIES TAGGING

Coordinate System

System: United States/NAD83

Projection: Colorado Central 0502

Datum: NAD83(2011)

Feature Code Library

Units

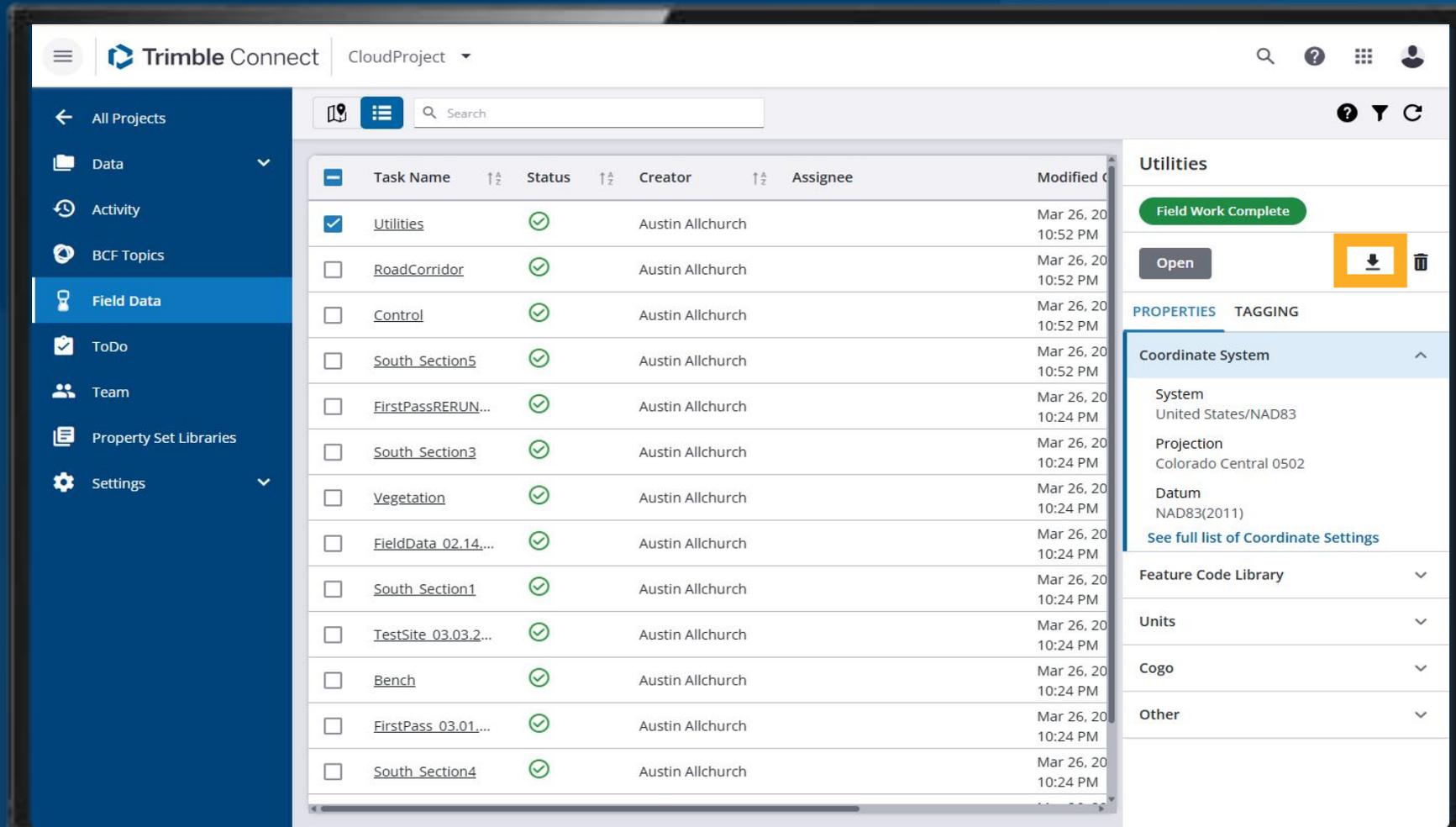
Cogo

Other

Point list – With photos



06 Utilizing staked data from the cloud



The screenshot displays the Trimble Connect web application interface. The top navigation bar includes the Trimble Connect logo, a dropdown menu for 'CloudProject', and search and user icons. A left sidebar contains navigation options: All Projects, Data, Activity, BCF Topics, Field Data (highlighted), ToDo, Team, Property Set Libraries, and Settings. The main content area features a search bar and a table of tasks. The table has columns for Task Name, Status, Creator, Assignee, and Modified. The first task, 'Utilities', is checked and has a status of 'Complete'. A right-hand panel shows the 'Utilities' task details, including a 'Field Work Complete' button, an 'Open' button, and a download icon (highlighted with a yellow box). Below this, the 'PROPERTIES' tab is active, showing the 'Coordinate System' section with details for System (United States/NAD83), Projection (Colorado Central 0502), and Datum (NAD83(2011)).

Task Name	Status	Creator	Assignee	Modified
<input checked="" type="checkbox"/> Utilities	Complete	Austin Allchurch		Mar 26, 2020 10:52 PM
<input type="checkbox"/> RoadCorridor	Complete	Austin Allchurch		Mar 26, 2020 10:52 PM
<input type="checkbox"/> Control	Complete	Austin Allchurch		Mar 26, 2020 10:52 PM
<input type="checkbox"/> South_Section5	Complete	Austin Allchurch		Mar 26, 2020 10:52 PM
<input type="checkbox"/> FirstPassRERUN...	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> South_Section3	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> Vegetation	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> FieldData_02.14...	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> South_Section1	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> TestSite_03.03,2...	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> Bench	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> FirstPass_03.01...	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM
<input type="checkbox"/> South_Section4	Complete	Austin Allchurch		Mar 26, 2020 10:24 PM

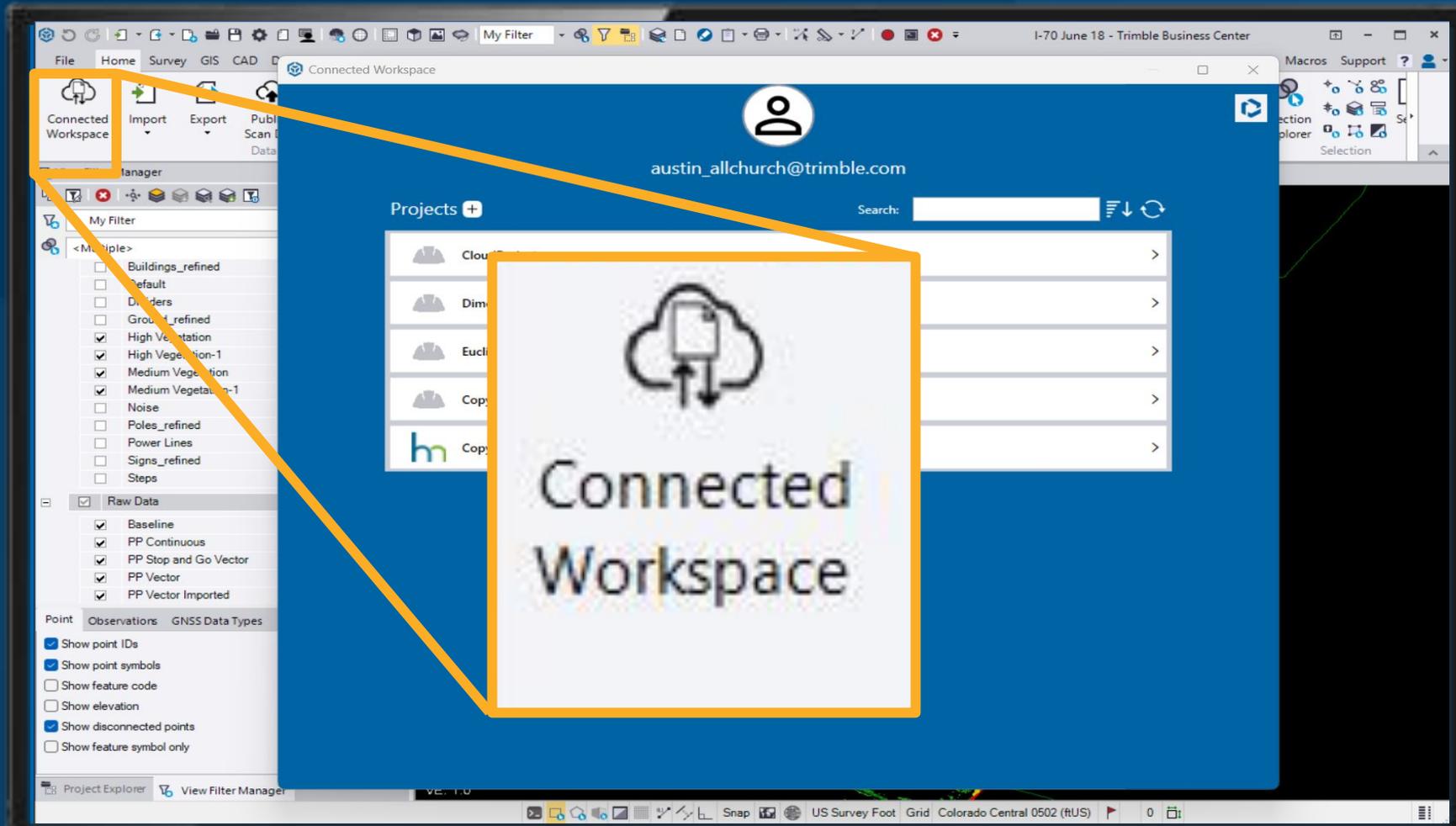
Download your jobs directly from the extension

Trimble Connect CloudProject

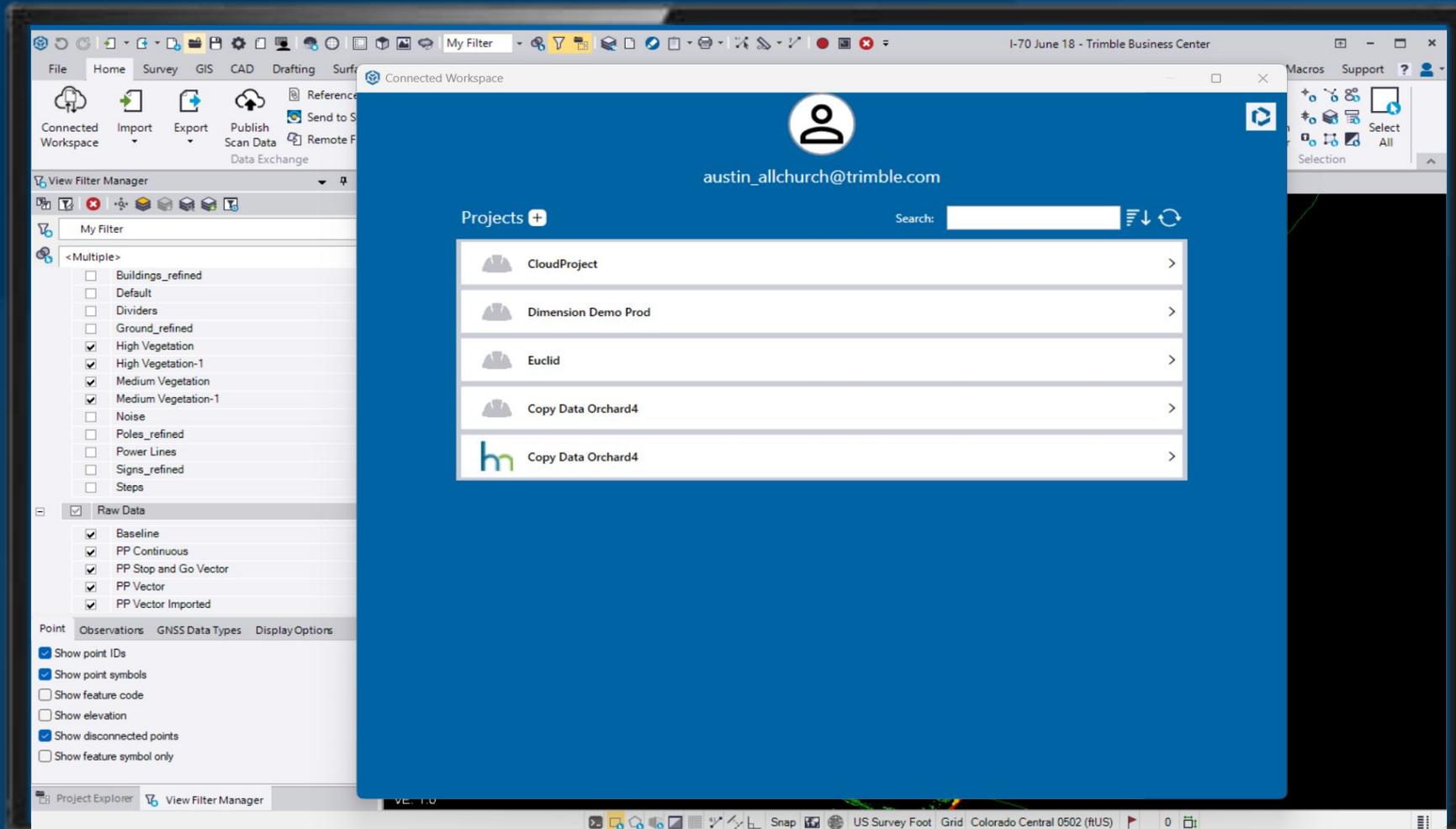
CloudProject

Folder/Job Name	Status	Creator	Assignee	Modified On	Tags
SouthSections					
<input type="checkbox"/> RoadAlignment_02...	✔	Austin Allchurch		May 14, 2025, 04:37 PM	⋮
<input type="checkbox"/> Utilities	✔	Austin Allchurch		May 14, 2025, 04:36 PM	⋮
<input type="checkbox"/> Bench	✔	Austin Allchurch		May 14, 2025, 04:36 PM	⋮
<input type="checkbox"/> TestSite_03.03.2025	✔	Austin Allchurch		May 14, 2025, 04:36 PM	⋮
<input type="checkbox"/> FirstPassRERUN_03...	✔	Austin Allchurch		May 14, 2025, 04:35 PM	⋮
<input type="checkbox"/> Vegetation	✔	Austin Allchurch		May 14, 2025, 04:35 PM	⋮
<input type="checkbox"/> RoadCorridor	✔	Austin Allchurch		May 14, 2025, 04:34 PM	⋮
<input type="checkbox"/> temp	✔	Austin Allchurch		May 14, 2025, 04:34 PM	⋮
<input type="checkbox"/> Control	✔	Austin Allchurch		May 14, 2025, 04:34 PM	Points ⋮

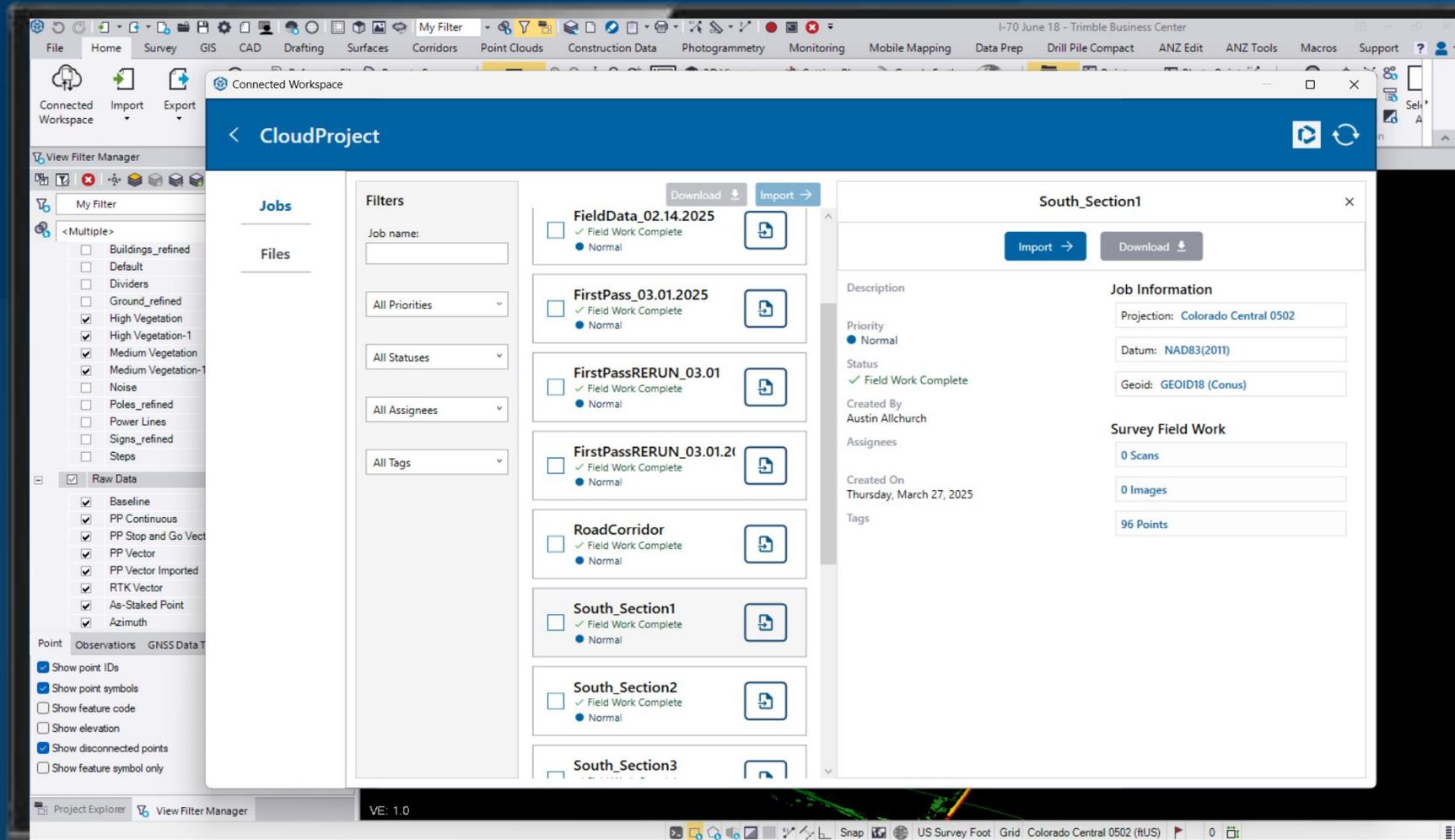
Manage your Access folders in the Folders Tab



Or use the **Trimble Business Center Connected Workspace** to insure you always have access to critical data.



Select from your Connect projects to ensure you are working with the most up to date data.



Review the field data prior to import to ensure you have selected the correct job.



Questions?

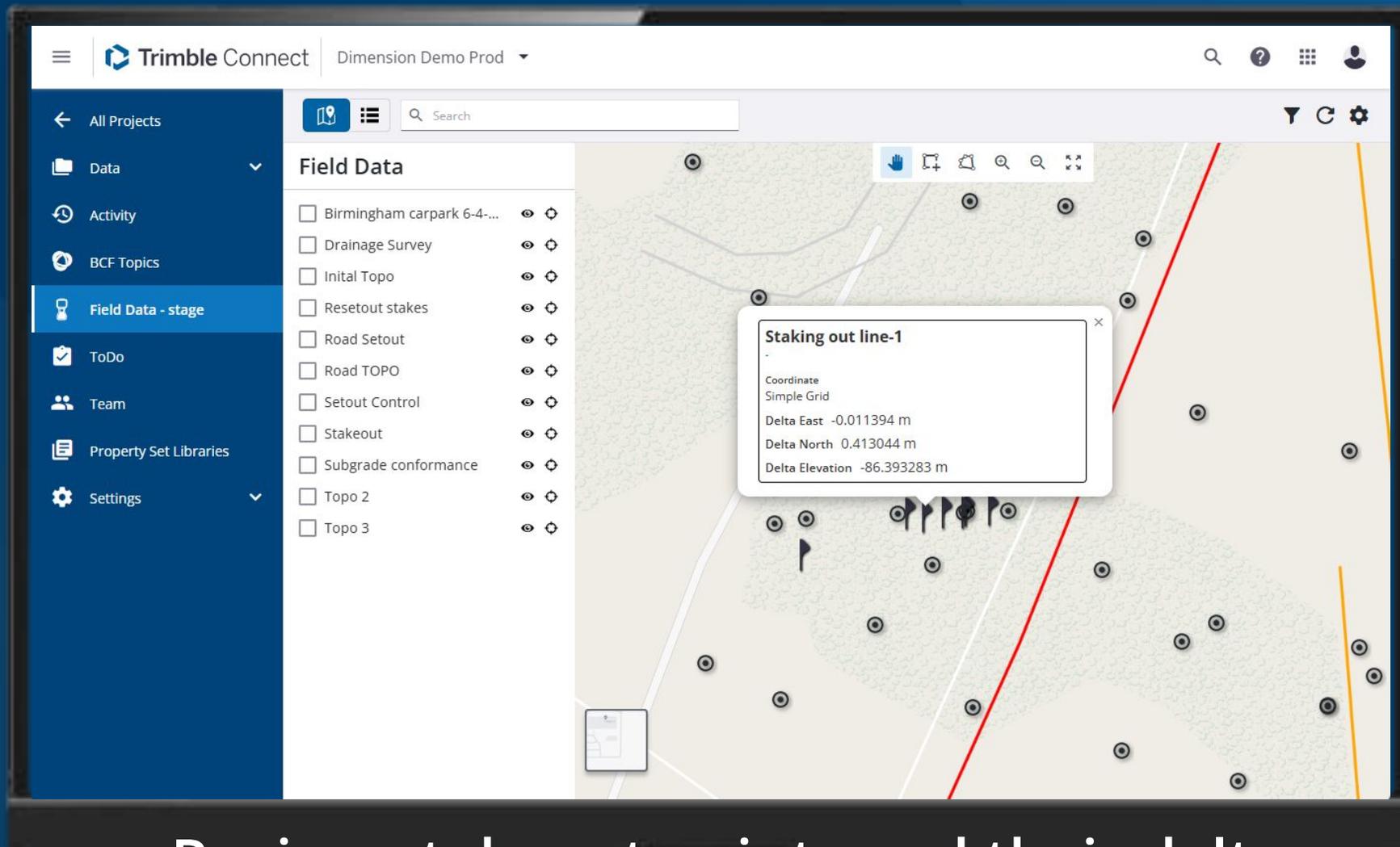


BUILT BY **SURVEYORS** FOR **SURVEYORS**

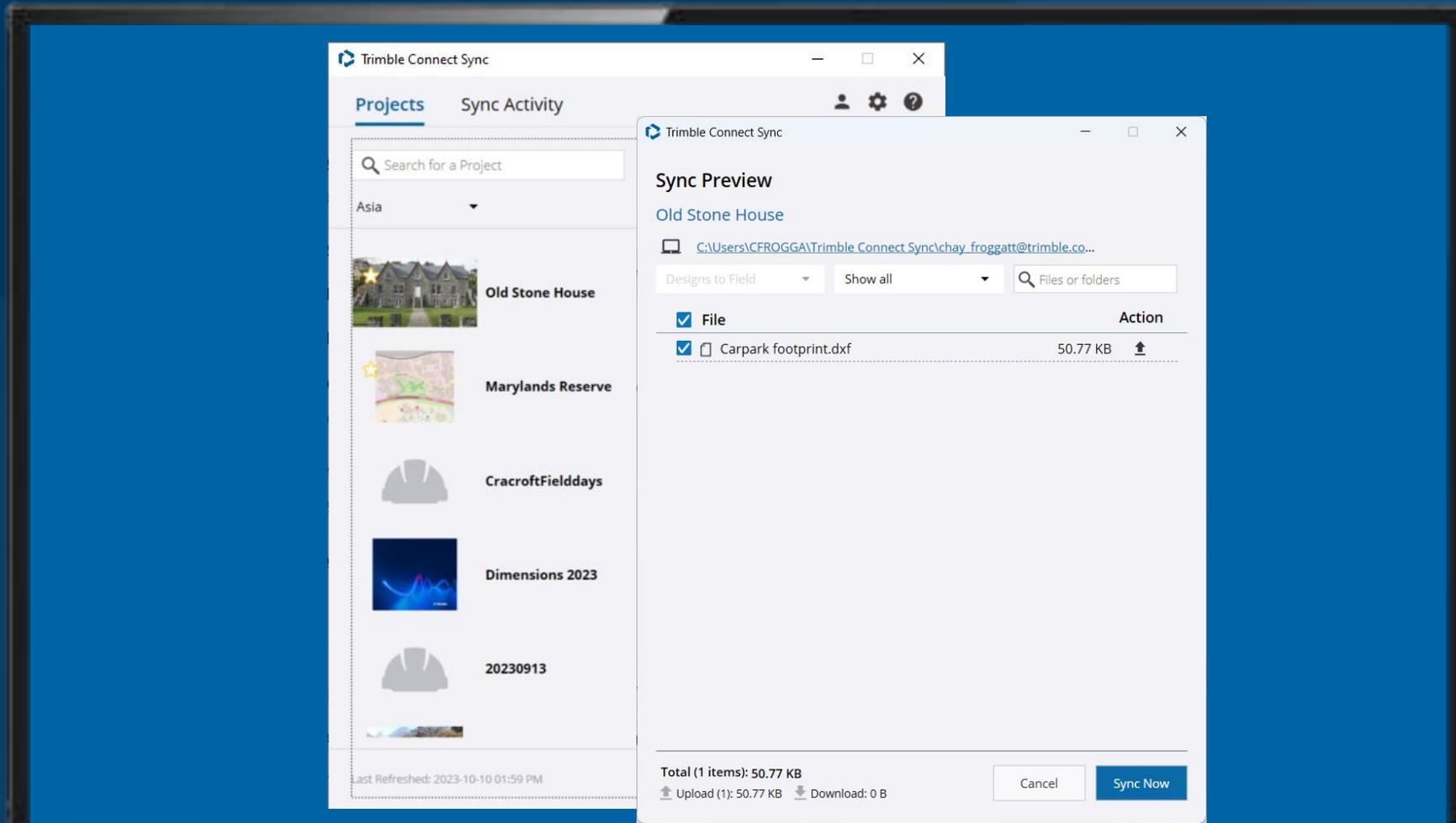
Cloud workflows - ADVANCED



Sync local design files to Trimble Connect



Review stakeout points and their deltas

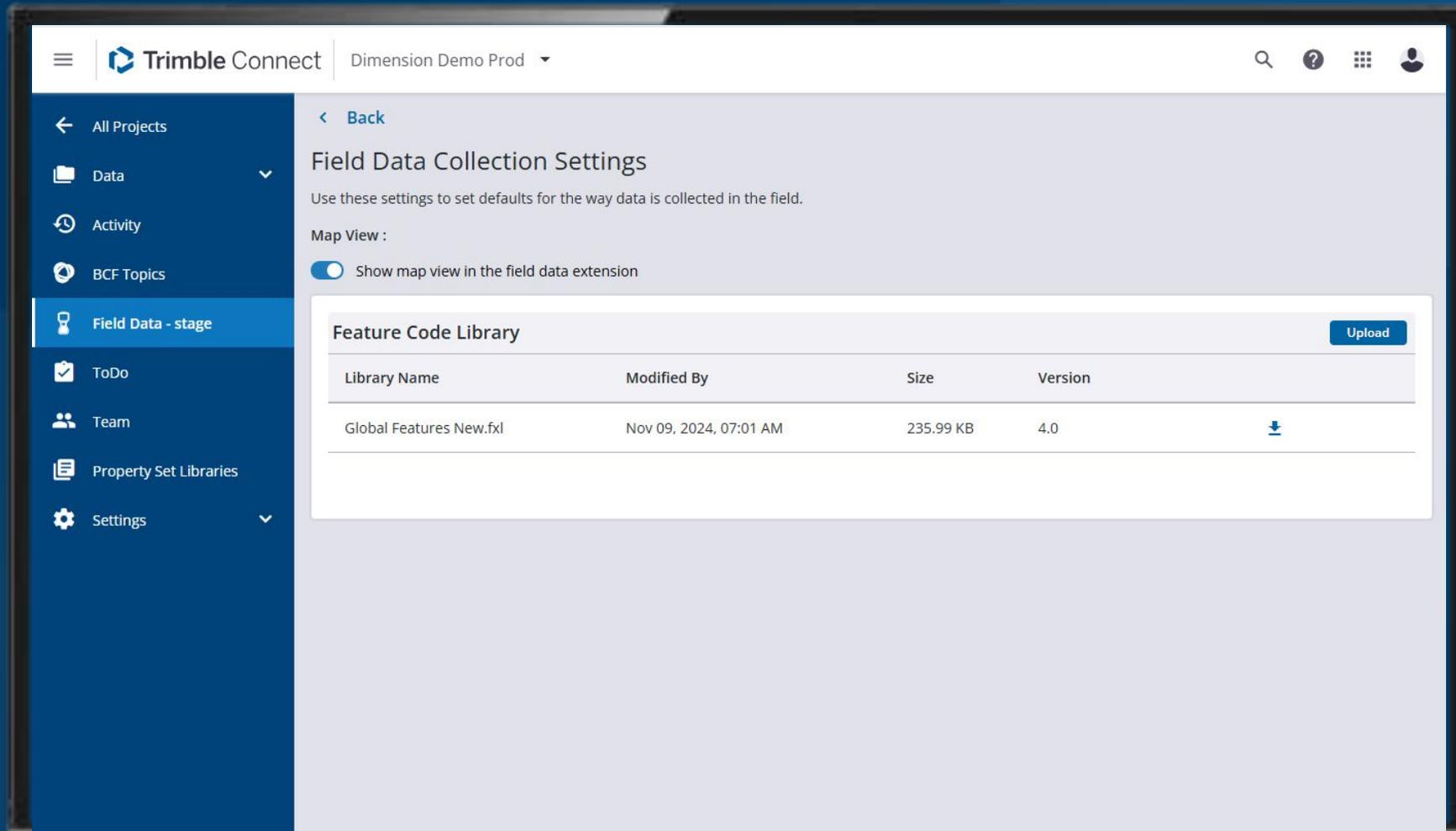


Trimble Connect Sync keeps files stored on your computer synchronized with your Trimble Connect projects.

Trimble Connect **Property Sets**



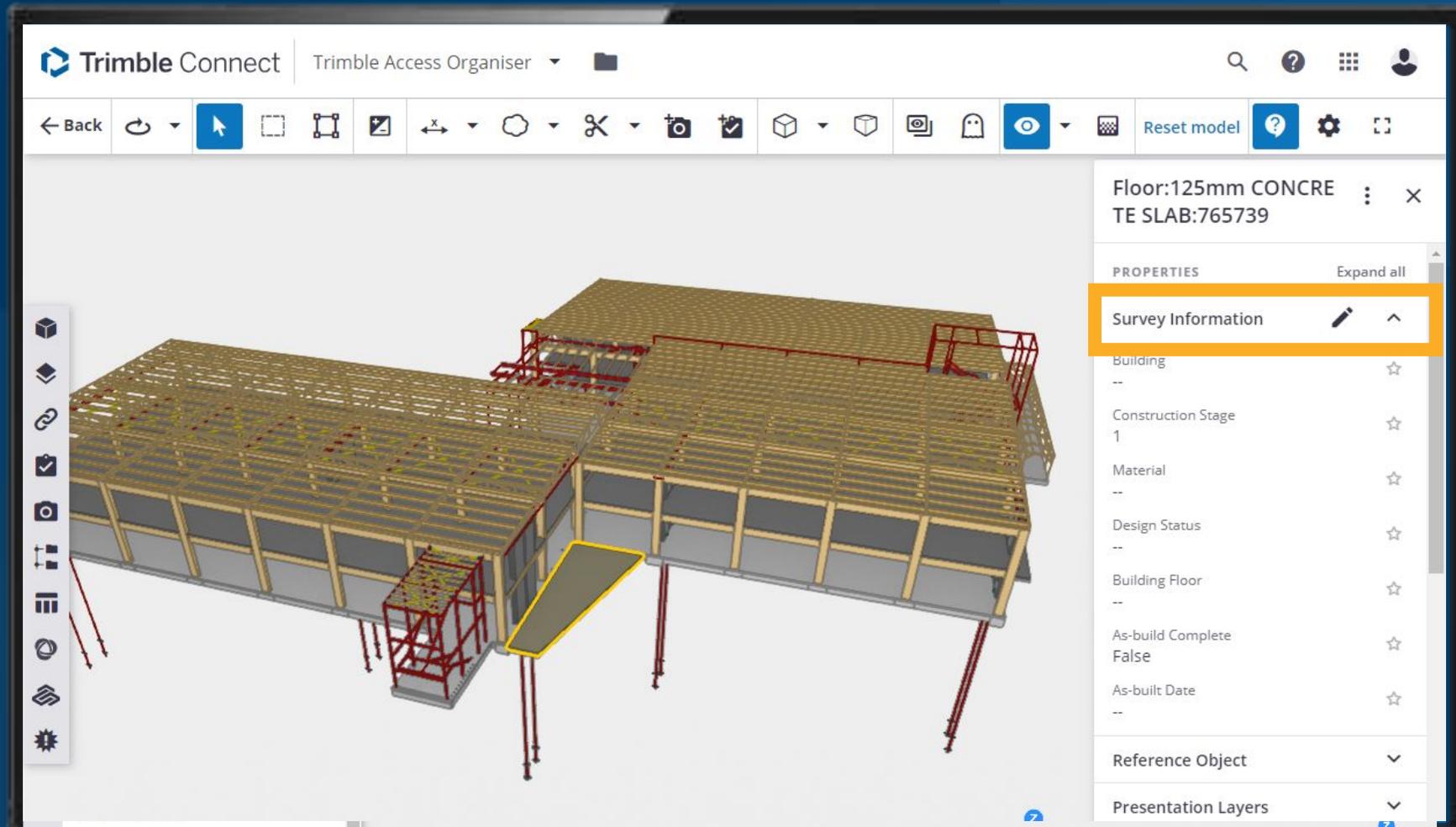
Property Sets are additional editable attributes, that you can add to BIM files.



The screenshot shows the Trimble Connect web interface. The top navigation bar includes the Trimble Connect logo, the project name "Dimension Demo Prod", and search, help, and user icons. The left sidebar contains navigation options: All Projects, Data, Activity, BCF Topics, Field Data - stage (highlighted), ToDo, Team, Property Set Libraries, and Settings. The main content area is titled "Field Data Collection Settings" and includes a "Back" link, a description of the settings, a "Map View" section with a toggle for "Show map view in the field data extension", and a "Feature Code Library" section with an "Upload" button. Below the upload button is a table with the following data:

Library Name	Modified By	Size	Version	
Global Features New.fxl	Nov 09, 2024, 07:01 AM	235.99 KB	4.0	

If you want to show linework, then you need to upload your project Feature code library

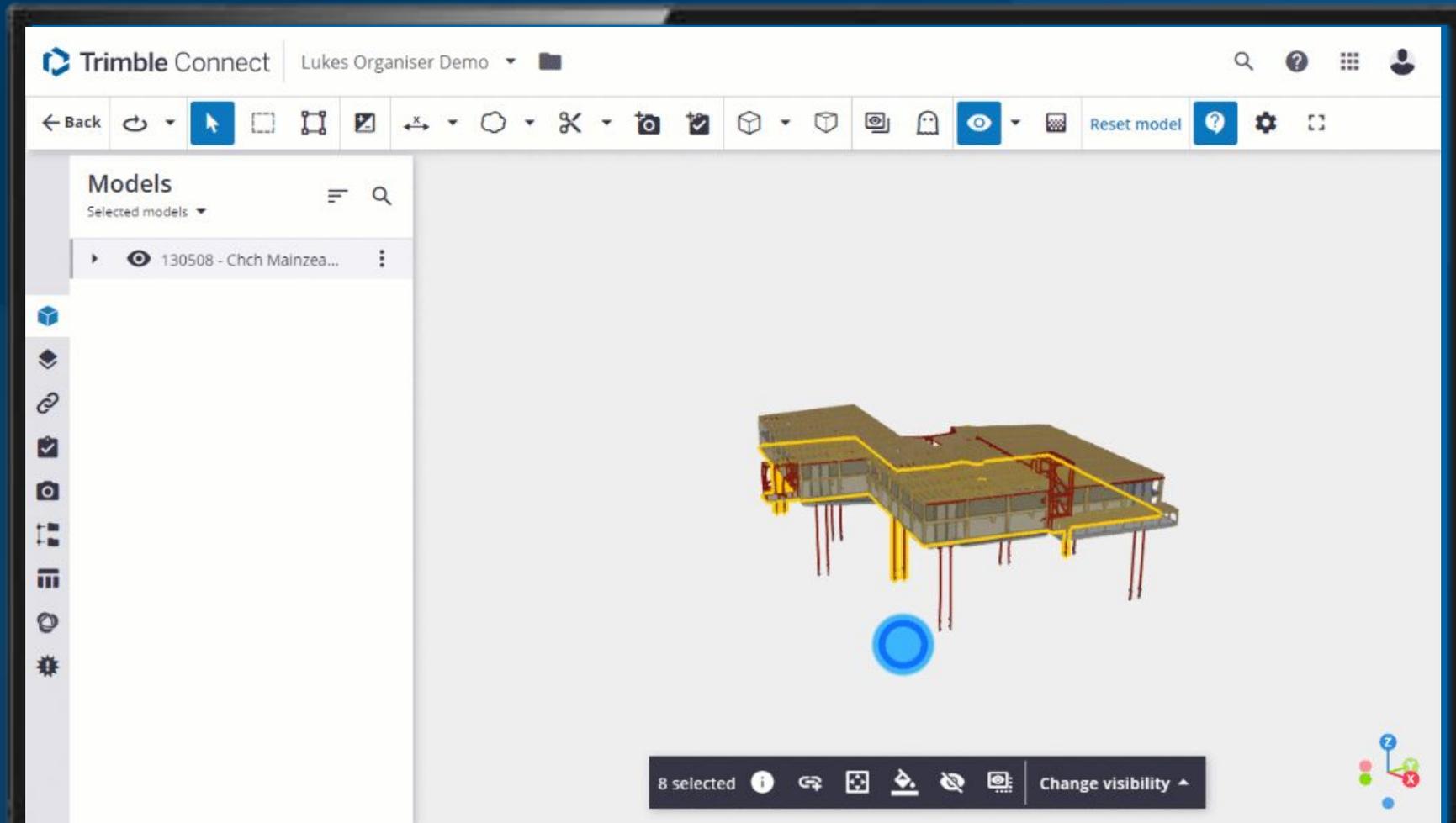


Users can edit **Property Sets** from a range of different places and all updates will show up in the cloud.

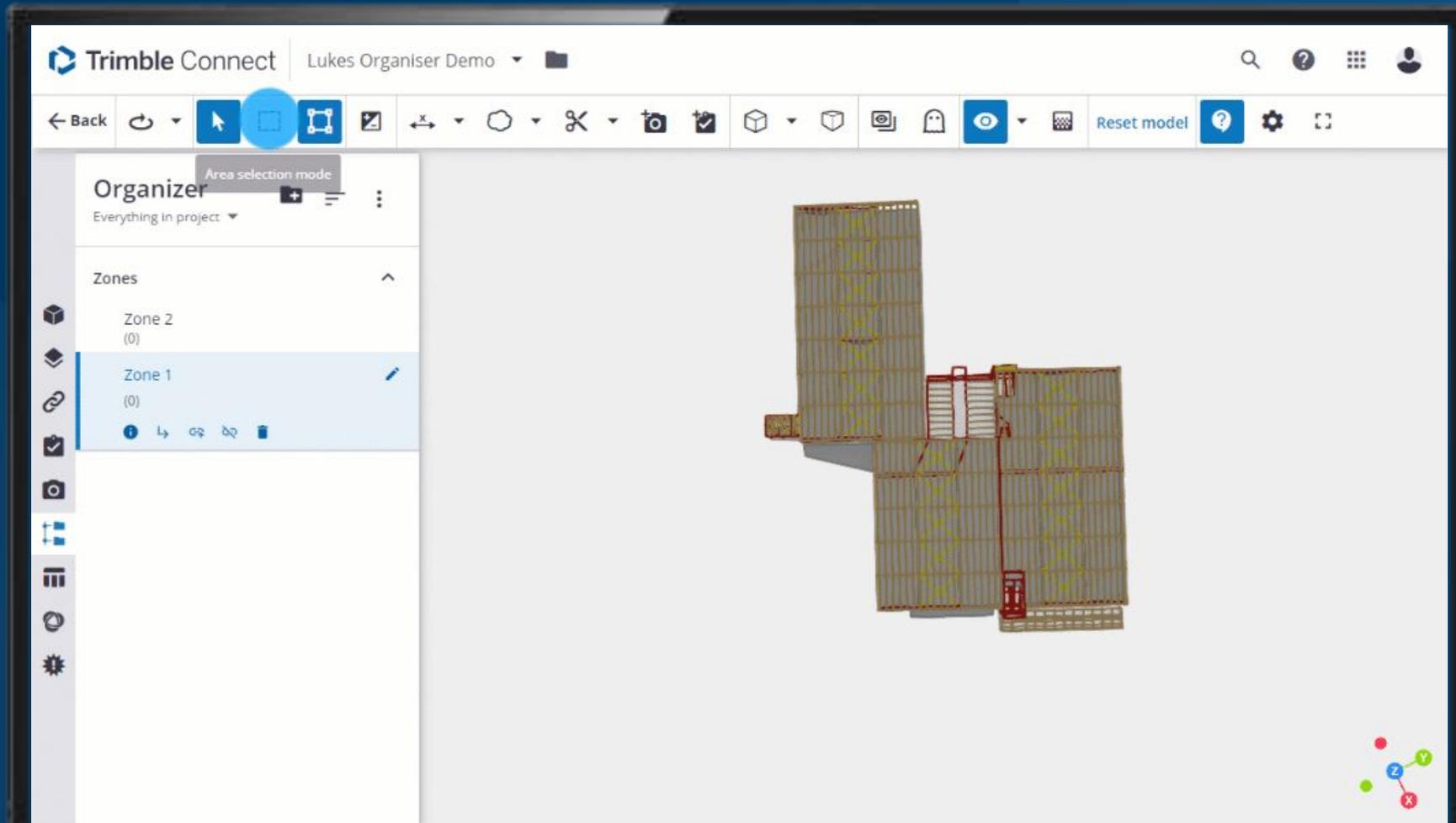
Trimble Connect **Organiser**



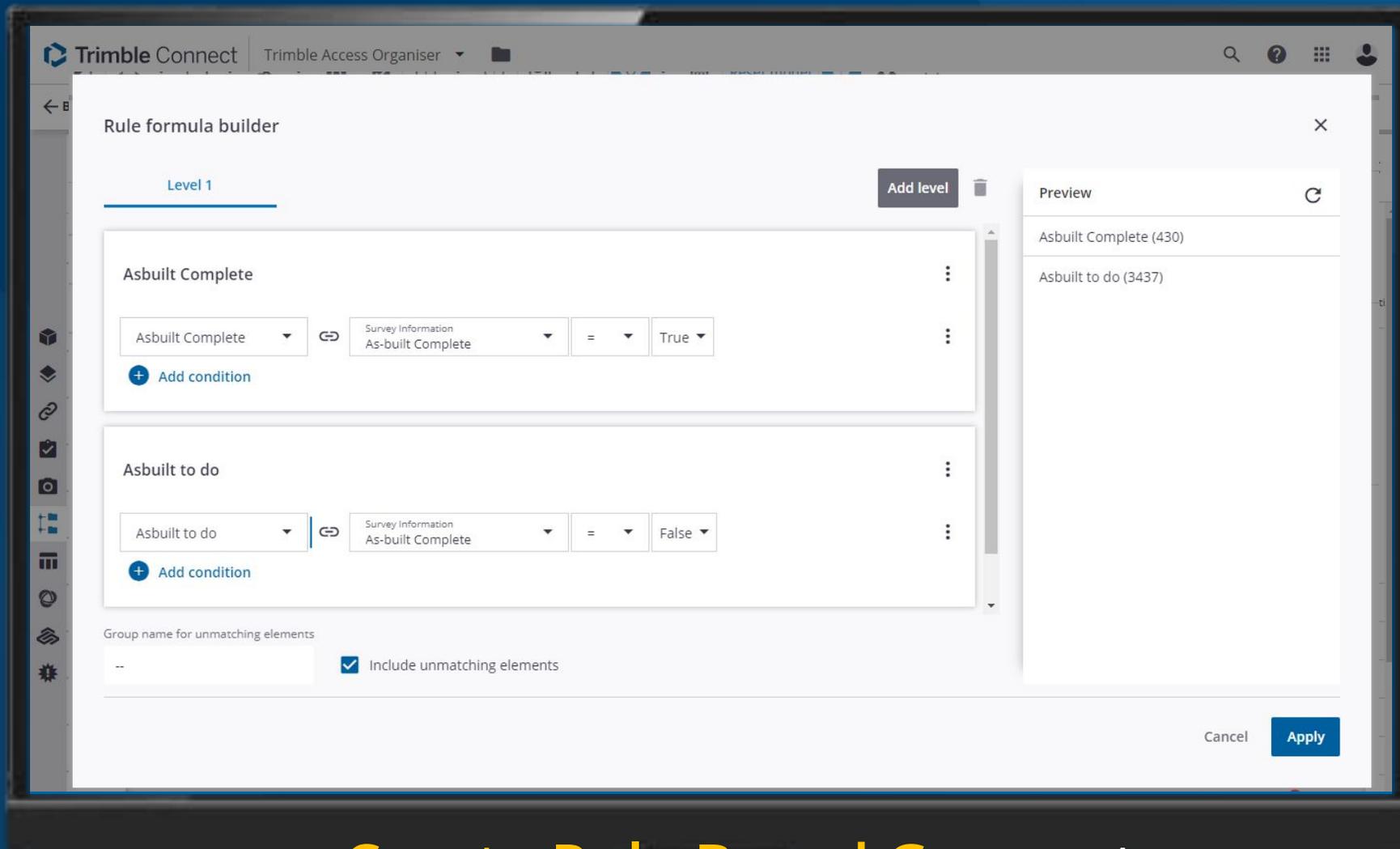
The Trimble Connect **Organiser** is a tool in the 3D viewer that can be used to **Organise** files.



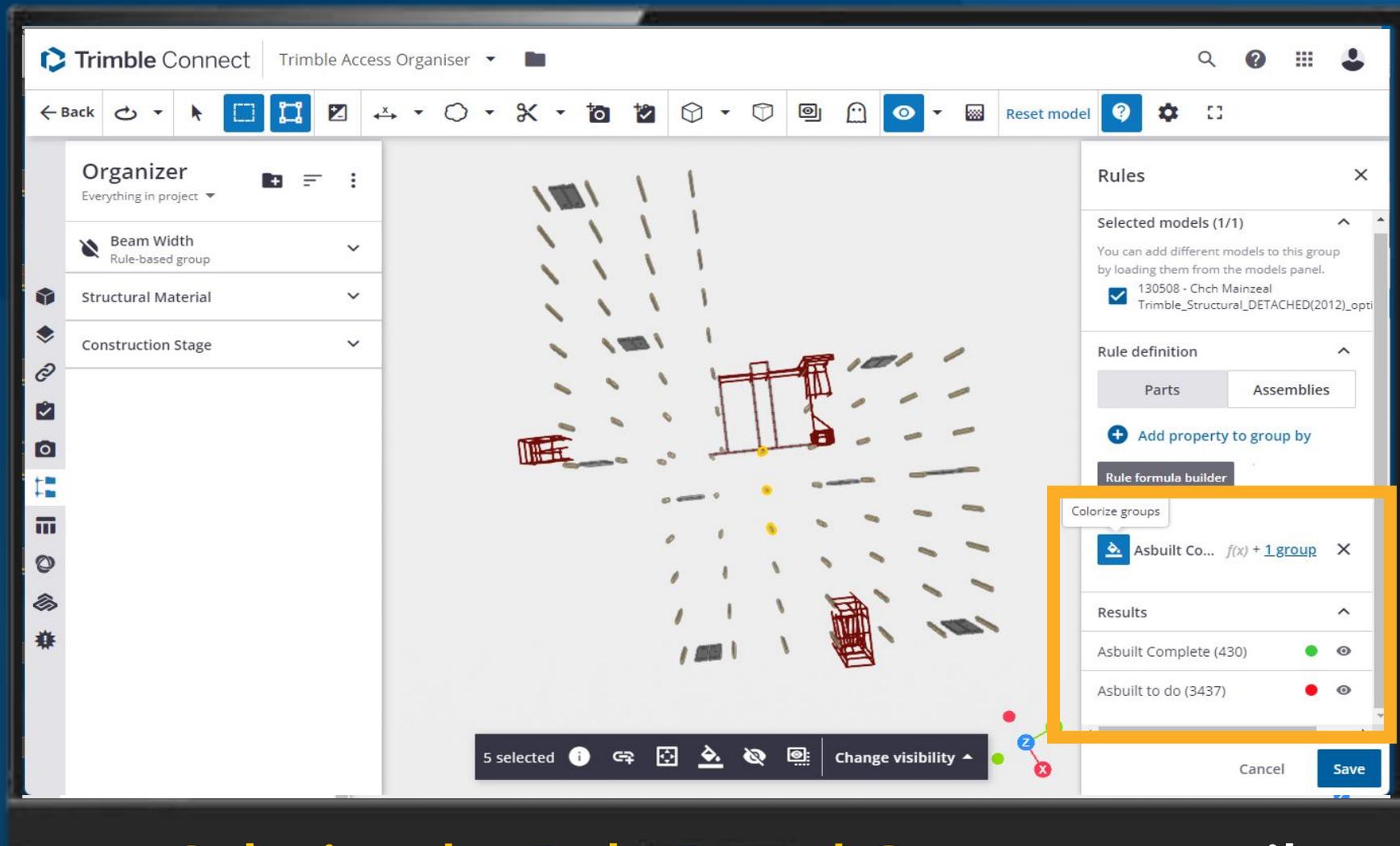
Here we are creating a **Manual Group** called Zones to break up our file into Zone 1 and Zone 2.



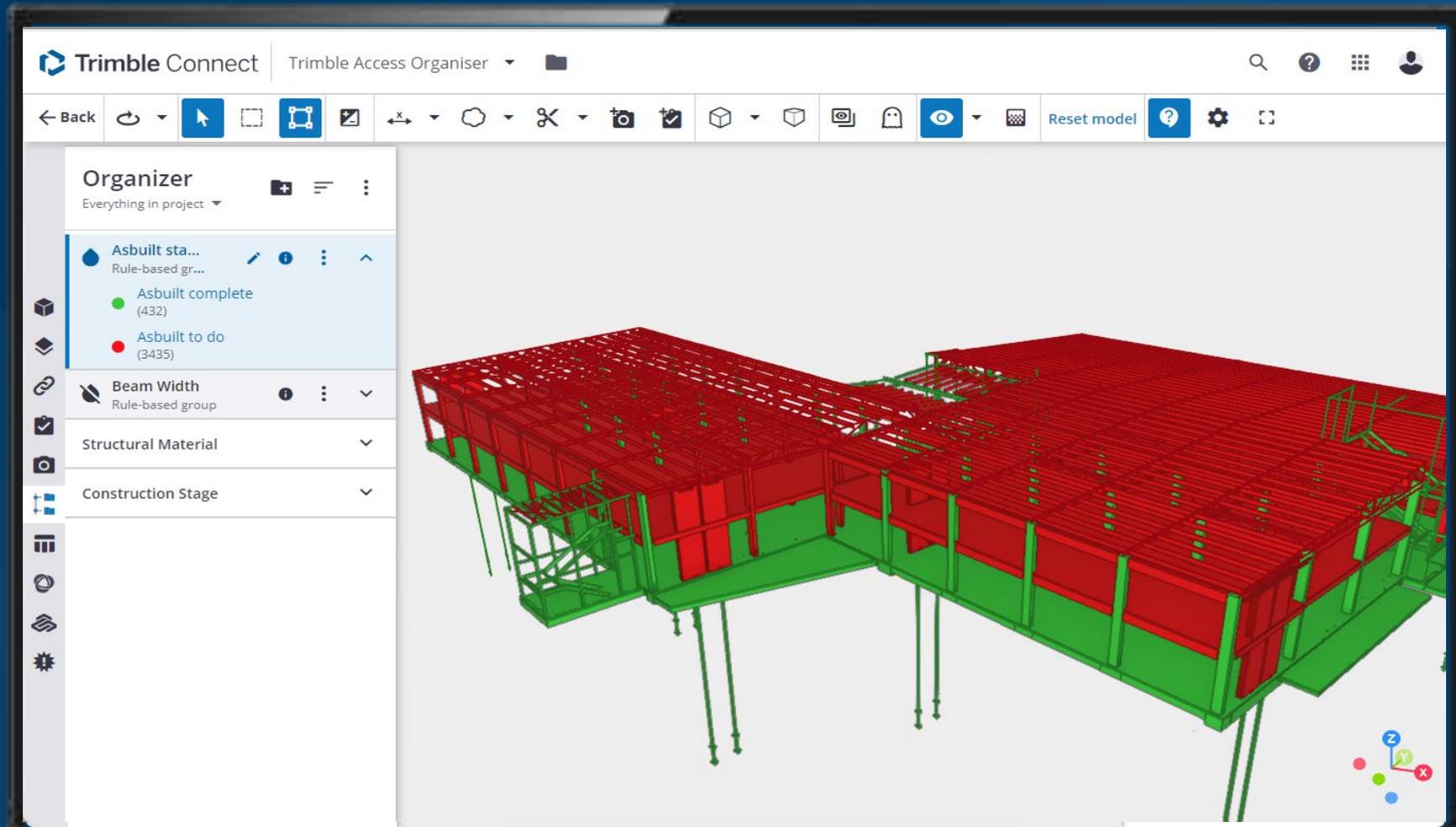
Select the elements you would like to add to the group and click the Link button.



Create Rule Based Groups to use rules to organise your model.



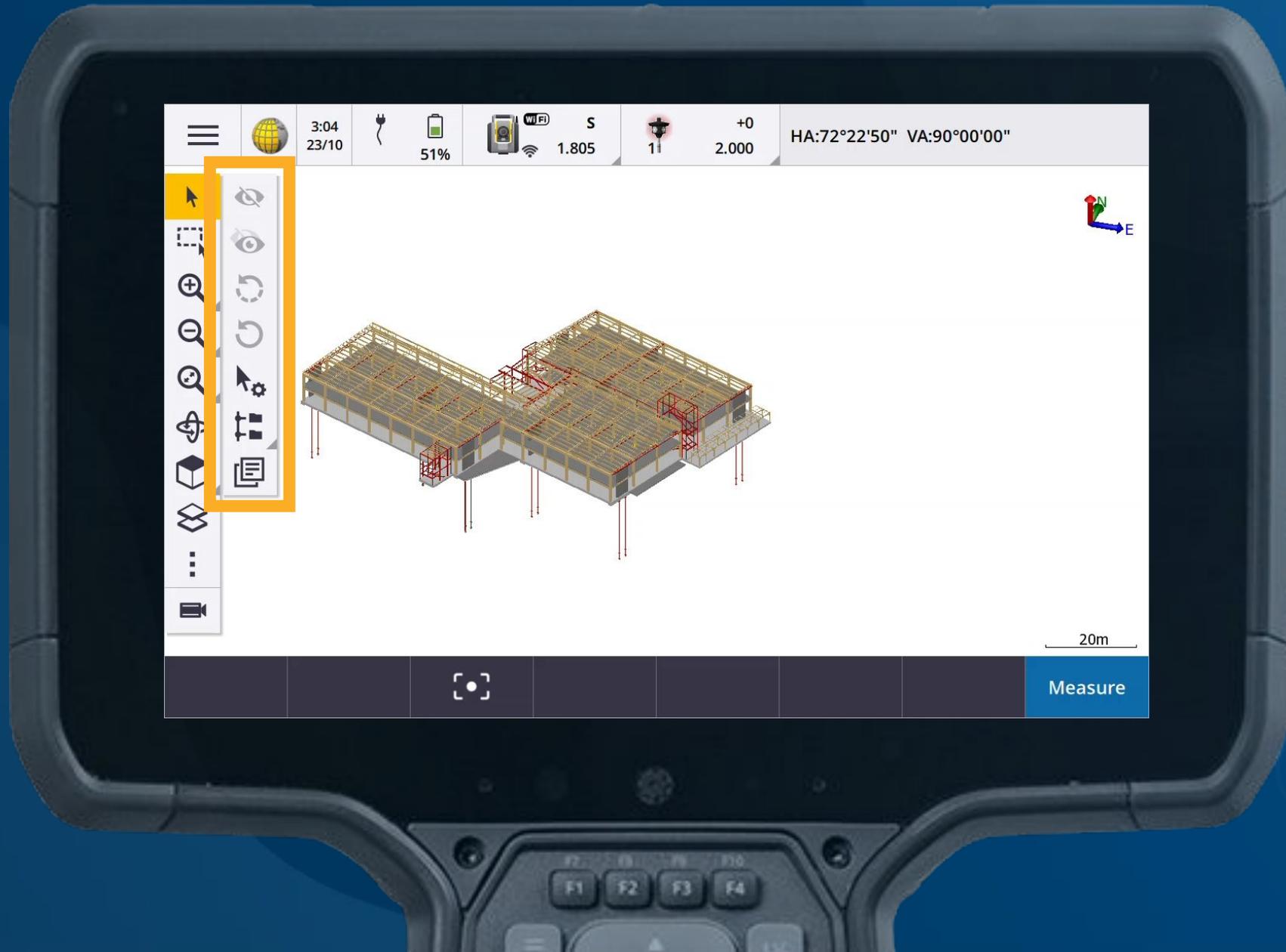
Colorize the Rule Based Groups to easily identify which elements fall into a certain group.

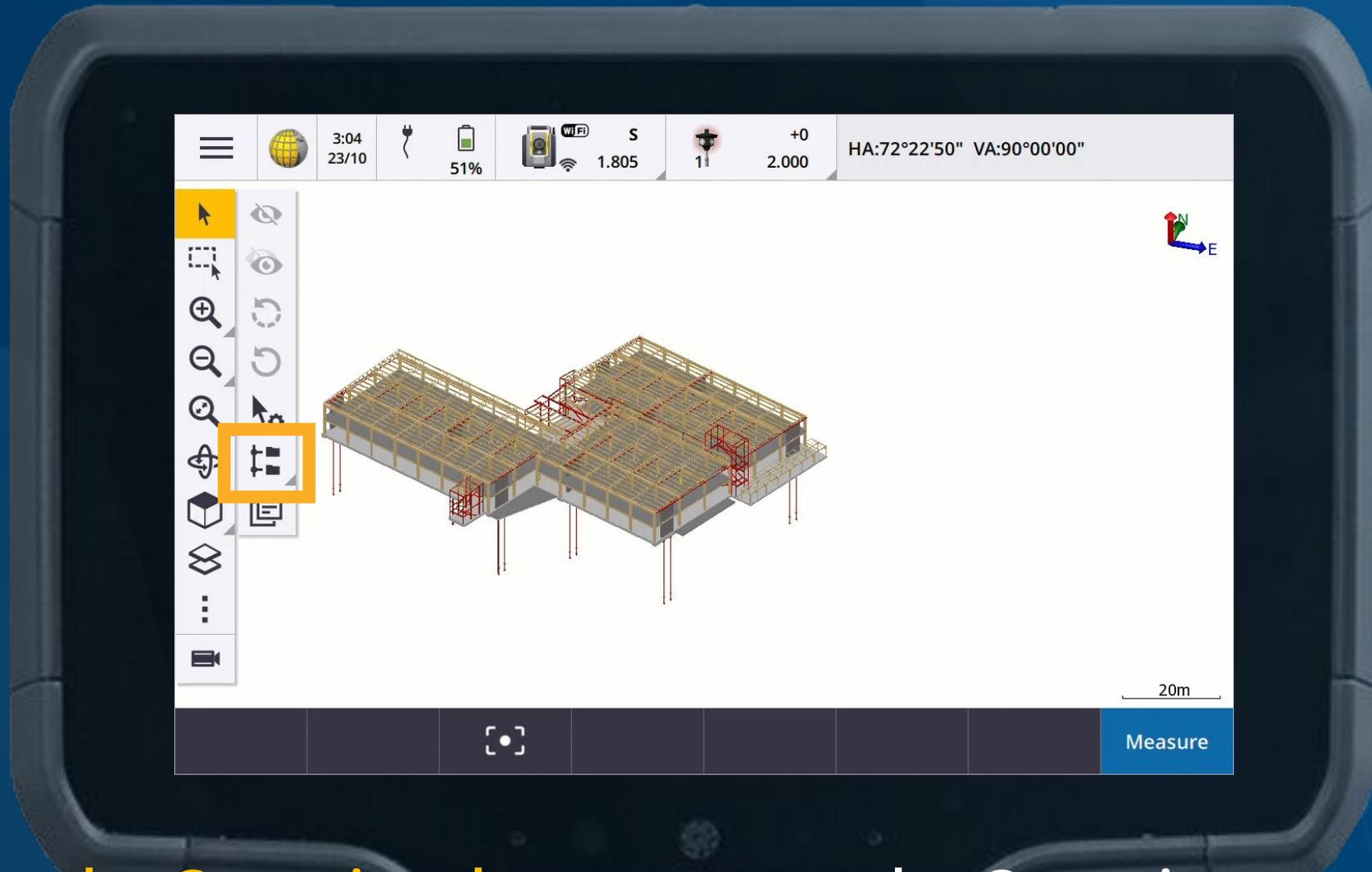


Visualize the result to ensure you are fully up to date with the project status.

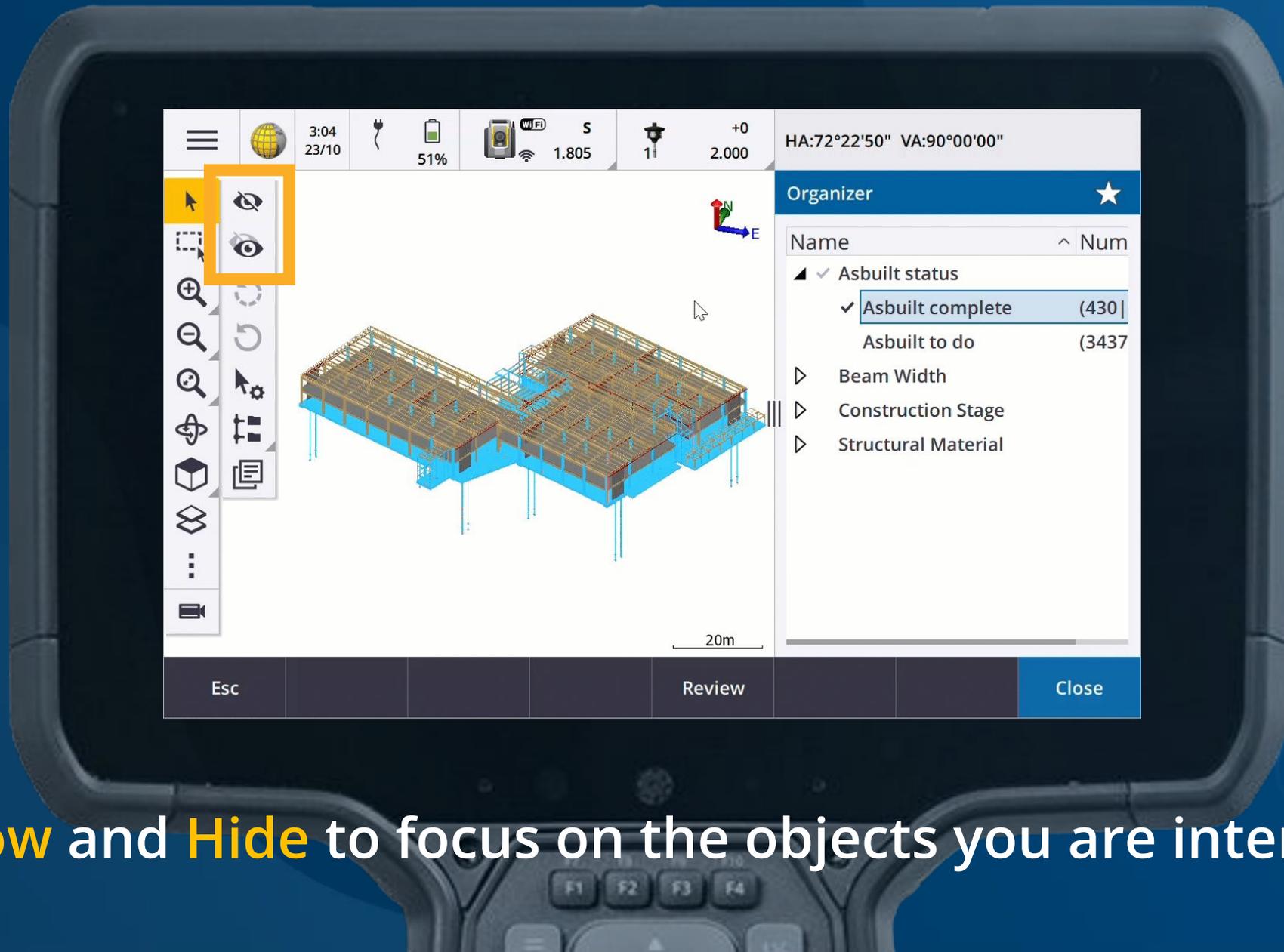


Use the Trimble Connect **Organiser** groups in Trimble Access to manage large BIM files in the field

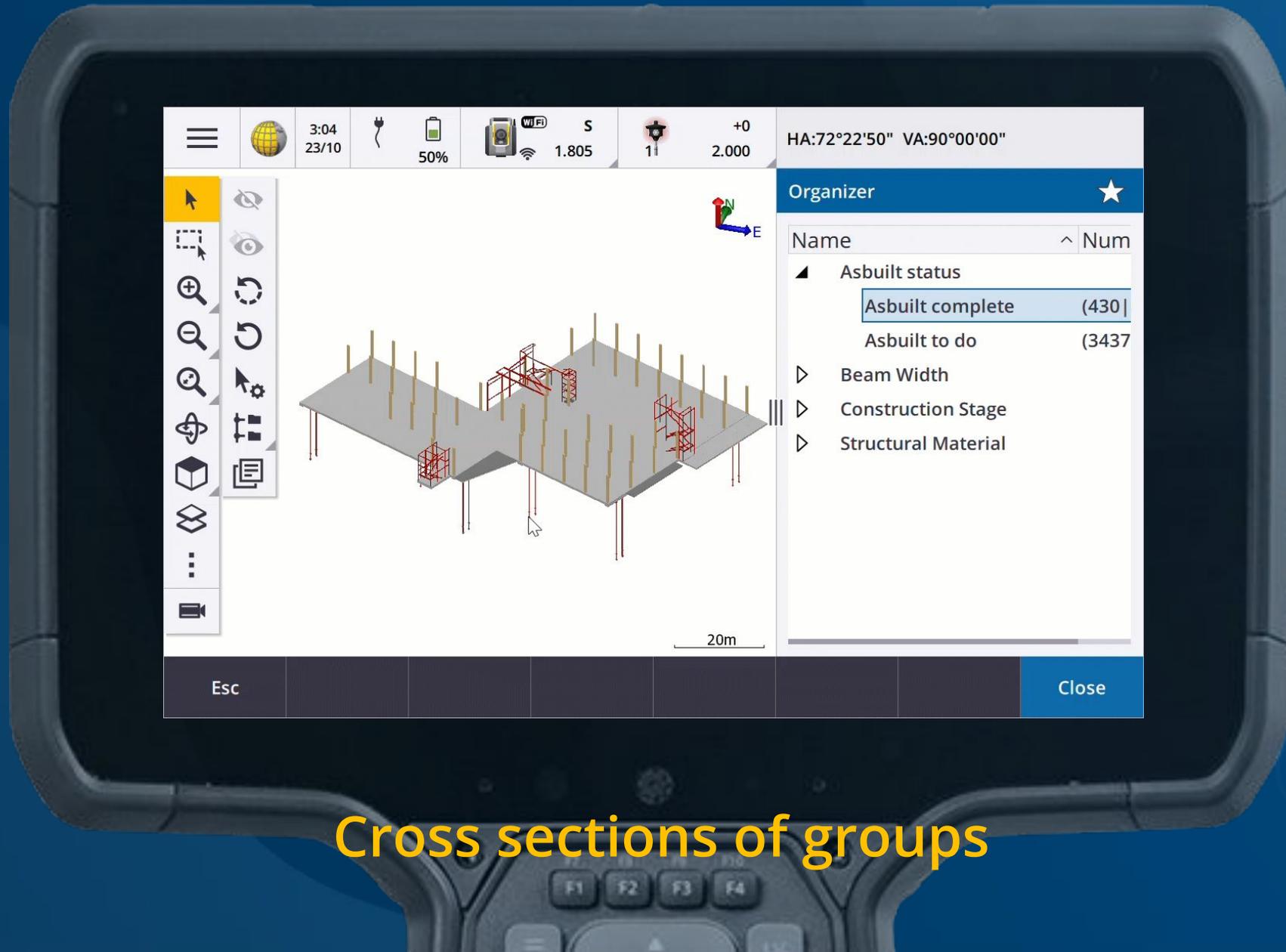




Use the **Organiser button** to get the Organiser groups from Trimble Connect.



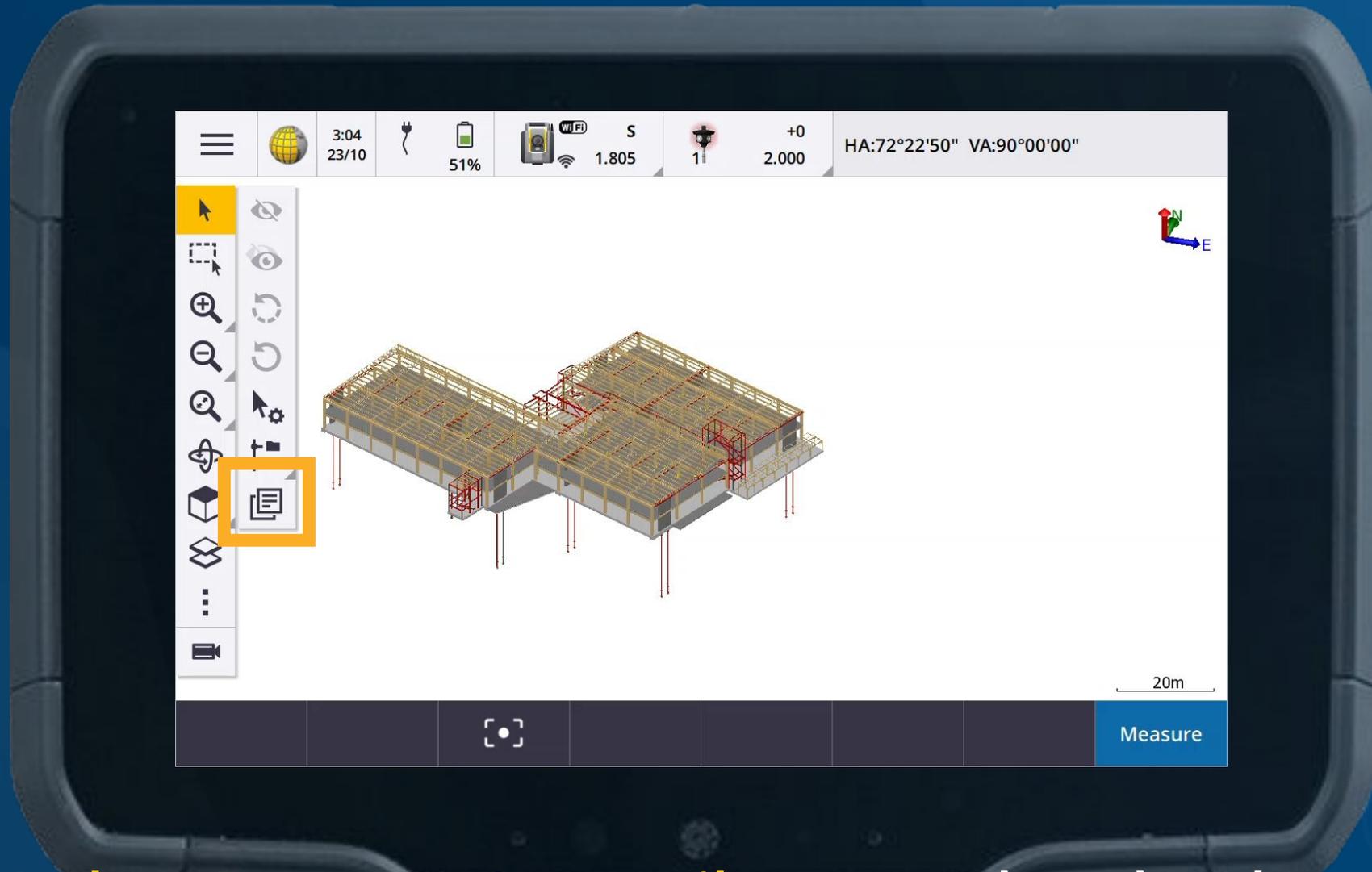
Use **Show** and **Hide** to focus on the objects you are interested in.



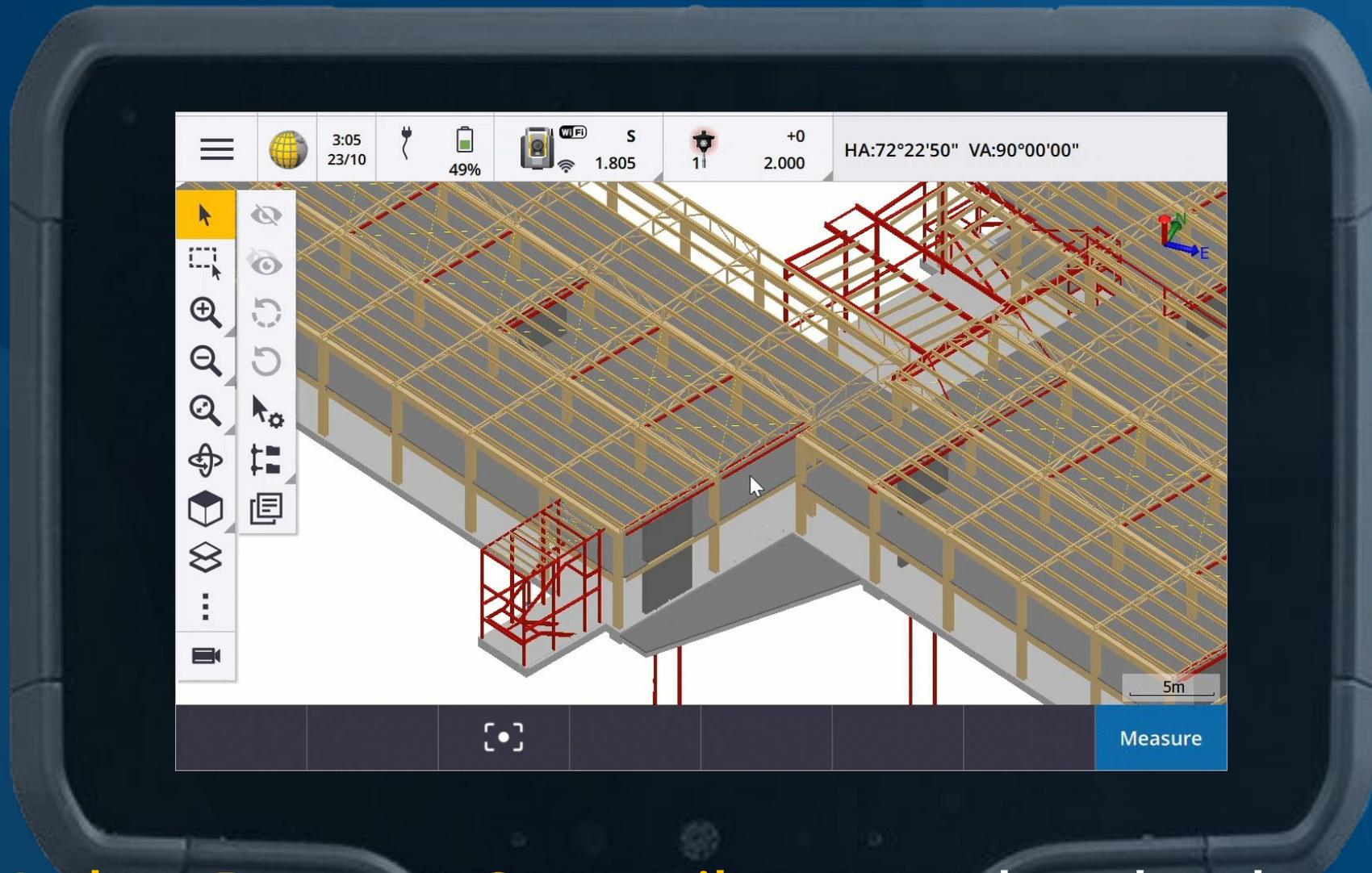
Cross sections of groups



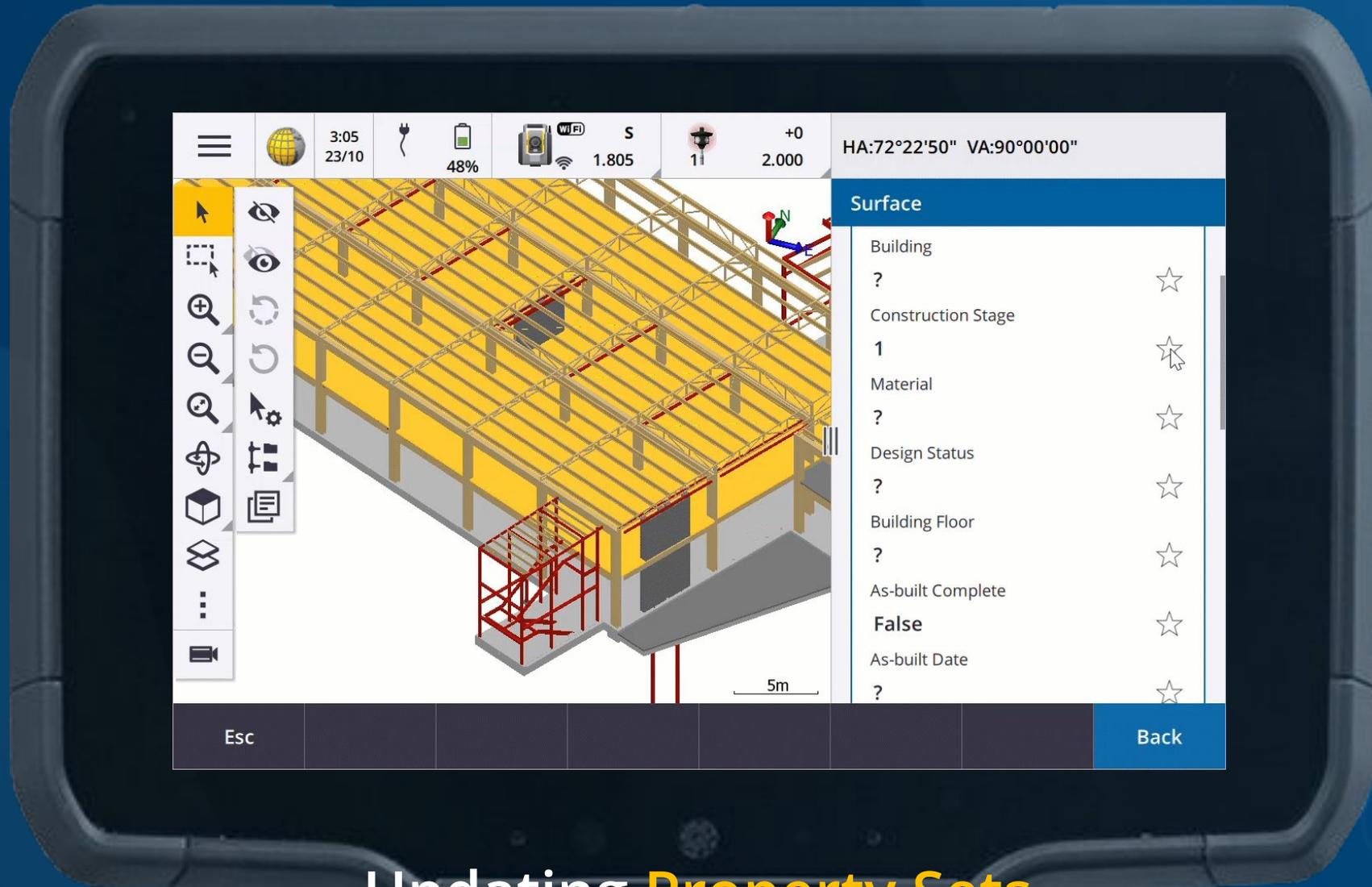
Edit **Property set** values in Trimble Access to add attribution to BIM files in the field



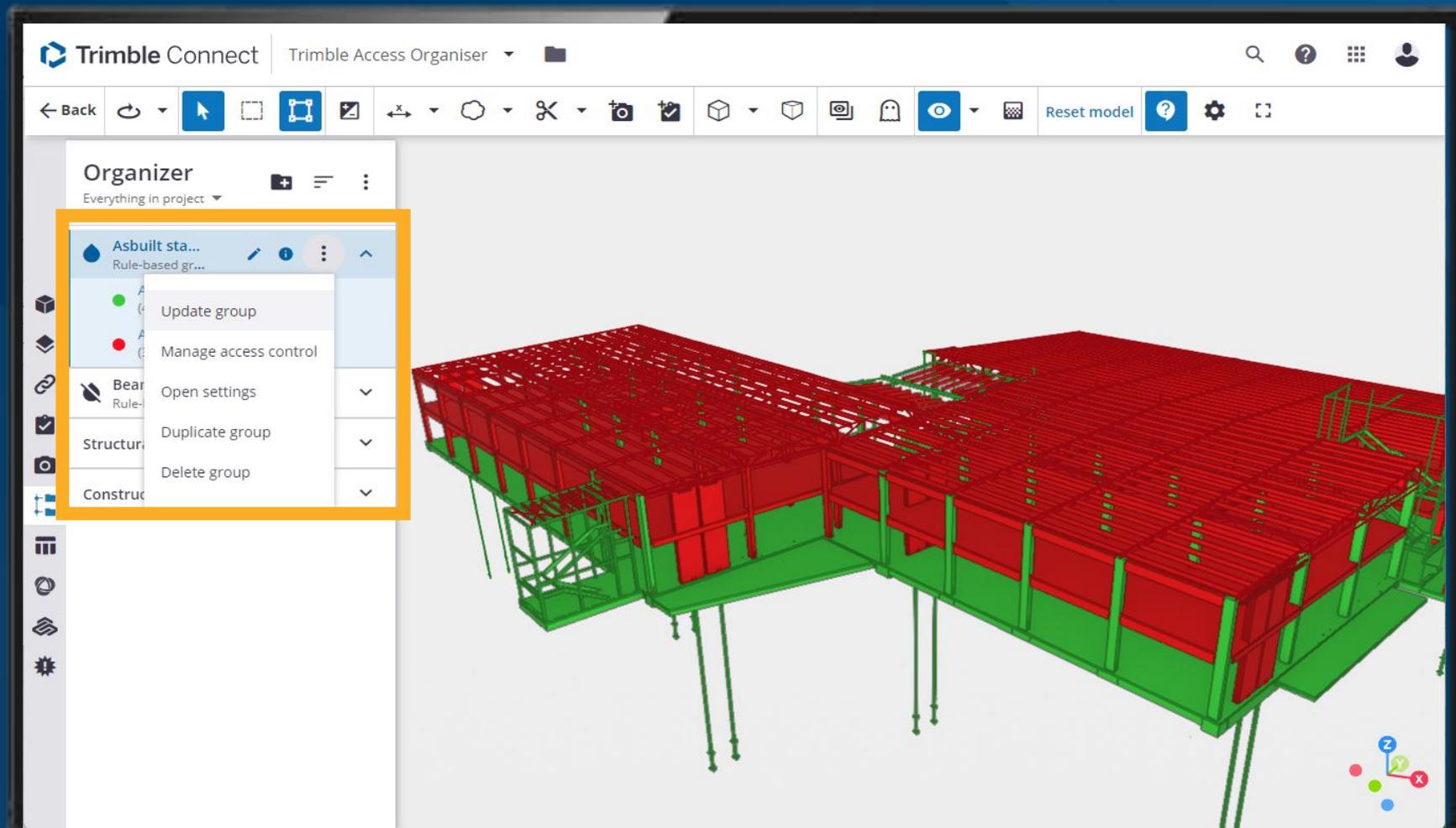
Update Property Set attributes so that the change can be seen by project team members.



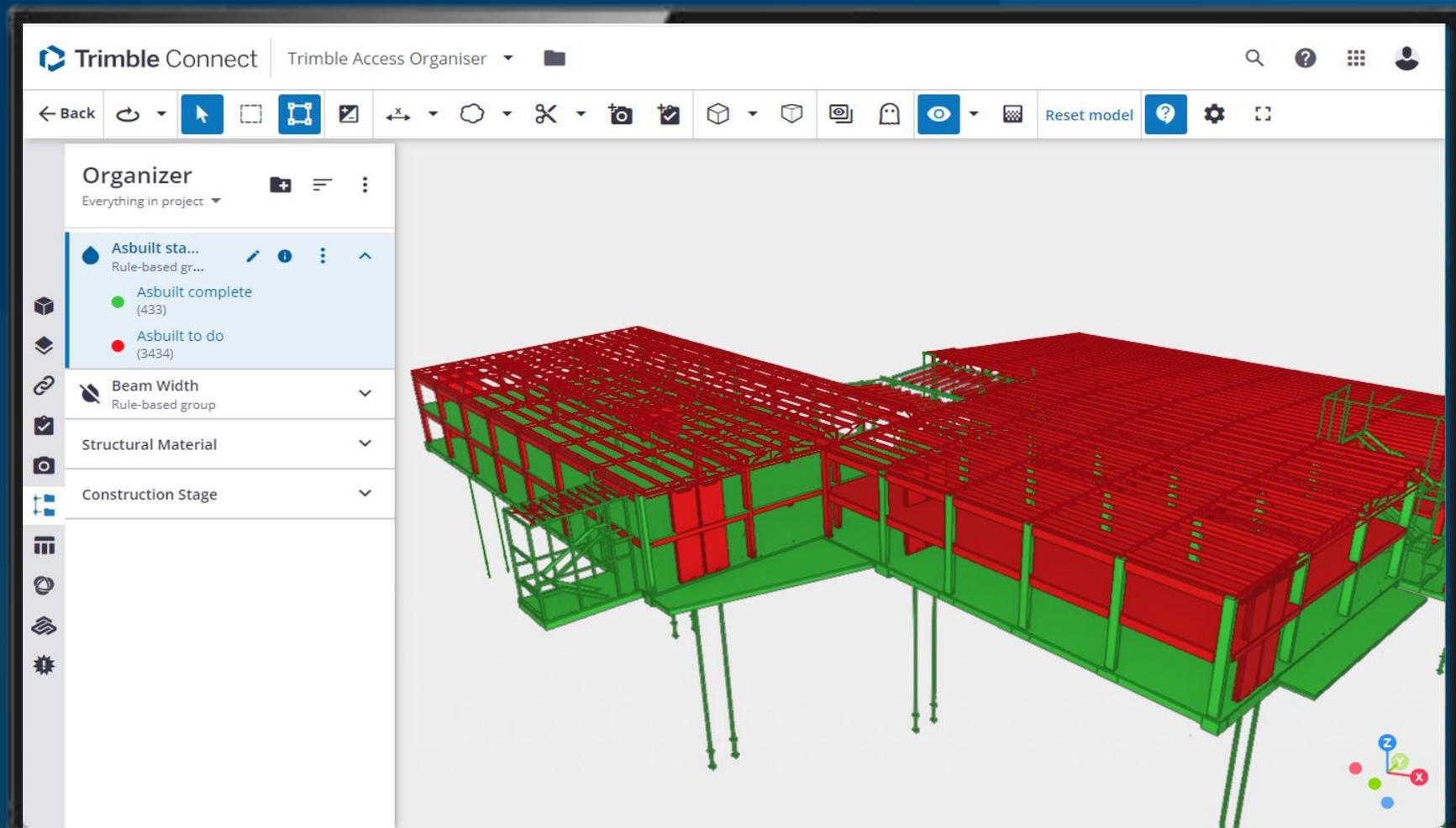
Update Property Set attributes so that the change can be seen by project team members.



Updating **Property Sets**.



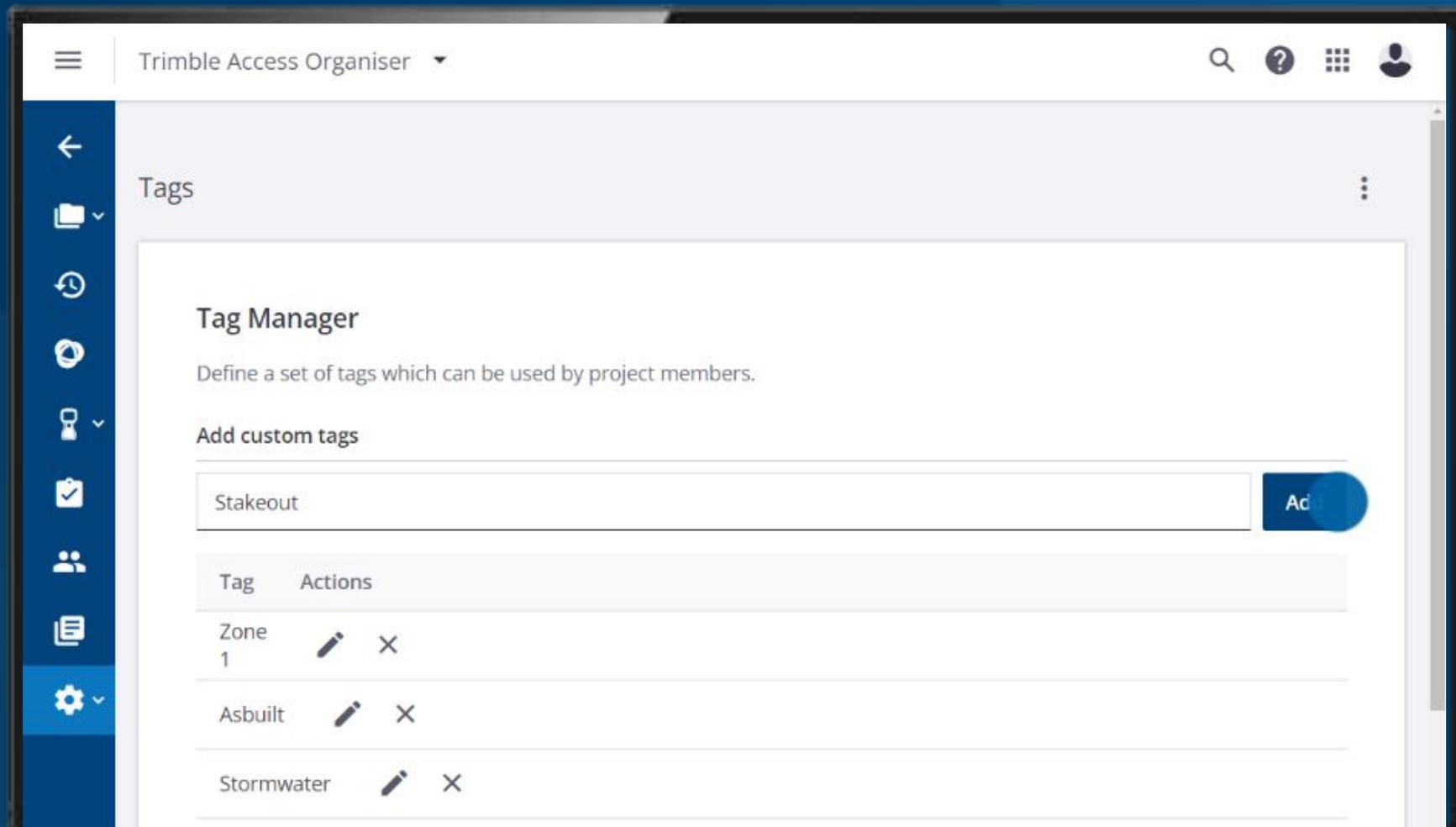
Users can edit Property Sets from a range of different places and all updates will show up in the cloud.



Users can edit Property Sets from a range of different places and all updates will show up in the cloud.



Attribute jobs to help identify and find them later



In Trimble Connect you can create **Tags** for the project to help organise your files and jobs.



Explore the latest version today:
geospatial.trimble.com/en/products/software/trimble-access