



Release Notes

CIVIL DESIGN AND ENGINEERING

March 2023

Quantm 2023.2

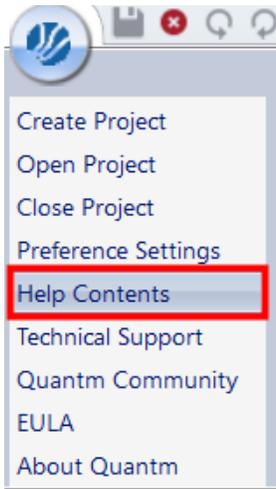
New and improved features	2
New Help system	2
Contours (height curves) saved in the scenario	2
250 km version able to choose manual or local optimization	3
Add a cost unit for CO2	4
Crossing rule for structures	5
Possible to turn off structure(s)	6
Fixed	7
Scaling issue for Crossing rule for features/zones	7
Crossing Clearances Rules for Culvert	8
Import reference alignment	9
Change name: Catalog --> Template	10
Reaching Sales, Support, and the Community	11



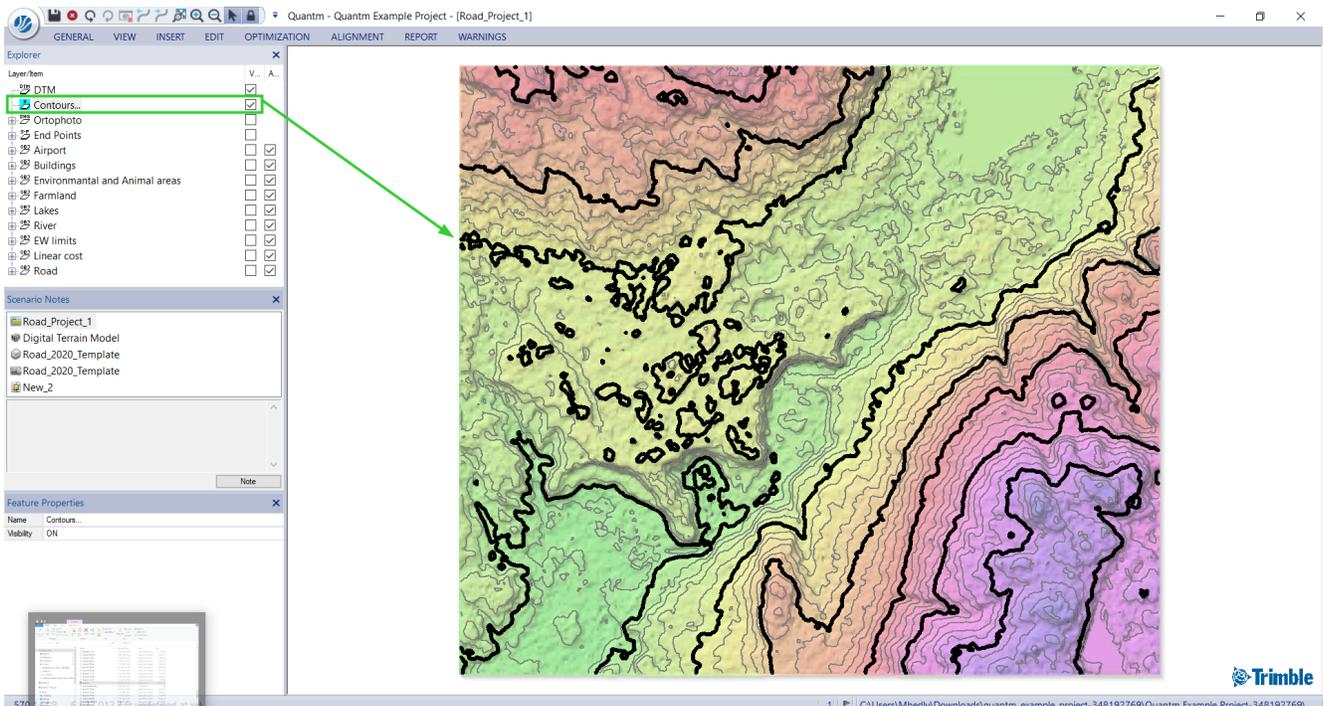
New and improved features

New Help system

A new Quantm help page can be found [here](#). Or navigate directly from Quantm.



Contours (height curves) saved in the scenario



250 km version able to choose manual or local optimization

Users with the 250 km version of Quantm can now choose to run optimizations as before on the server or use the local machine. The server will of course be a lot faster than using the local CPU's for long optimizations.

Corridor Identification

Optimization Type

Free to Roam Geometric

Quick Seed Curvilinear

Corridor Corridor Width (m)

Name

Job name:

Number of Alignments (25)

Description

Free to Roam Optimization – Produces a sample of alignments exploring the available land surface

Notes:

Submit by: (dropdown menu showing options: Local Processor, Local Processor, Manual)

Add a cost unit for CO2

Cost Parameters ✕

Global | Material | Geology | Fill | Template Materials | Bridge | Tunnel | Wall | Culvert | Area | Linear | Fixed

Earth movement cost

Haul	<input type="text" value="8,50"/>	€/m ³ /km	<input type="text" value="1,00"/>	CO2/m ³ /km
Dump	<input type="text" value="8,50"/>	€/m ³	<input type="text" value="3,00"/>	CO2/m ³
Borrow	<input type="text" value="10,00"/>	€/m ³	<input type="text" value="3,00"/>	CO2/m ³

CO2	<input type="text" value="40"/>	€/tonne
-----	---------------------------------	---------

Crossing rule for structures

It is possible to cross a zone or a feature with a structure over or under. You can apply two different crossing types depending if you cross over or under.

Crossing type

Name: New road Width (m): 10 Layer: Road

Earth moving: No effect Usable (m3): 0 Unusable (m3): 0

Reference altitude: Natural surface Clearance (m): < -5.00 or > 5.00

Crossing type: Structure (feature) No. of cells: 1

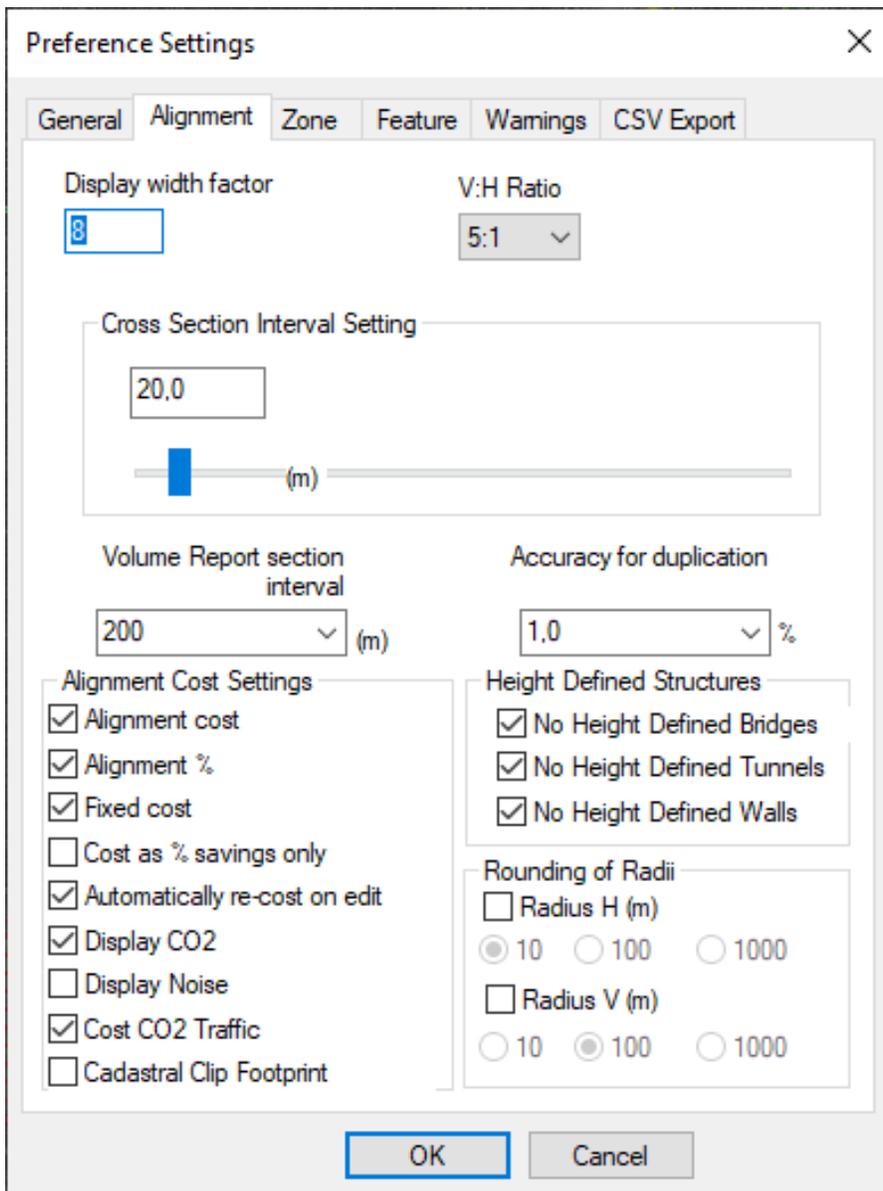
Bridge type	
Unspecified	
Bridge over Road and Rail	
Bridge over Water	
Bridge over Land	
New...	

Underpass type	
Unspecified	
Bridge over Road and Rail	
Bridge over Water	
Bridge over Land	
New...	

OK Cancel

Possible to turn off structure(s)

In preference setting you can turn off structures; bridges, tunnels and retaining walls.





Scaling issue for Crossing rule for features/zones

The scaling of the bridge type windows has correct scaling and it's possible to view the entire name of the bridge type

The screenshot shows a dialog box titled "Road Feature" with a close button (X) in the top right corner. The dialog contains several input fields and dropdown menus:

- Name:** Text box containing "New road"
- Width (m):** Text box containing "10"
- Layer:** Dropdown menu showing "Road"
- Earth moving:** Dropdown menu showing "No effect"
- Usable (m3):** Text box containing "0"
- Unusable (m3):** Text box containing "0"
- Reference altitude:** Dropdown menu showing "Natural surface"
- Clearance (m):** Text box containing "< -4.00" and a button with three dots
- Crossing type:** Dropdown menu showing "Underpass"
- No. of cells:** Text box containing "1"

At the bottom, there is a list box for "Bridge type" with a green border. The list items are:

- Unspecified (highlighted in blue)
- Bridge over Road and Rail
- Bridge over Water
- Bridge over Land
- New...

At the bottom of the dialog are "OK" and "Cancel" buttons.

Crossing Clearances Rules for Culvert

It's now possible to apply a culver crossing clearance.

The image shows a software dialog box titled "Road Feature" with a close button (X) in the top right corner. The dialog contains several input fields and dropdown menus:

- Name:** "New road" (text input)
- Width (m):** "10" (text input)
- Layer:** "Road" (dropdown menu)
- Earth moving:** "No effect" (dropdown menu)
- Usable (m3):** "0" (text input)
- Unusable (m3):** "0" (text input)
- Reference altitude:** "Natural surface" (dropdown menu)
- Clearance (m):** "< -4.00" (text input, highlighted with a green border) and a "..." button.
- Crossing type:** "Underpass" (dropdown menu)
- No. of cells:** "1" (text input)

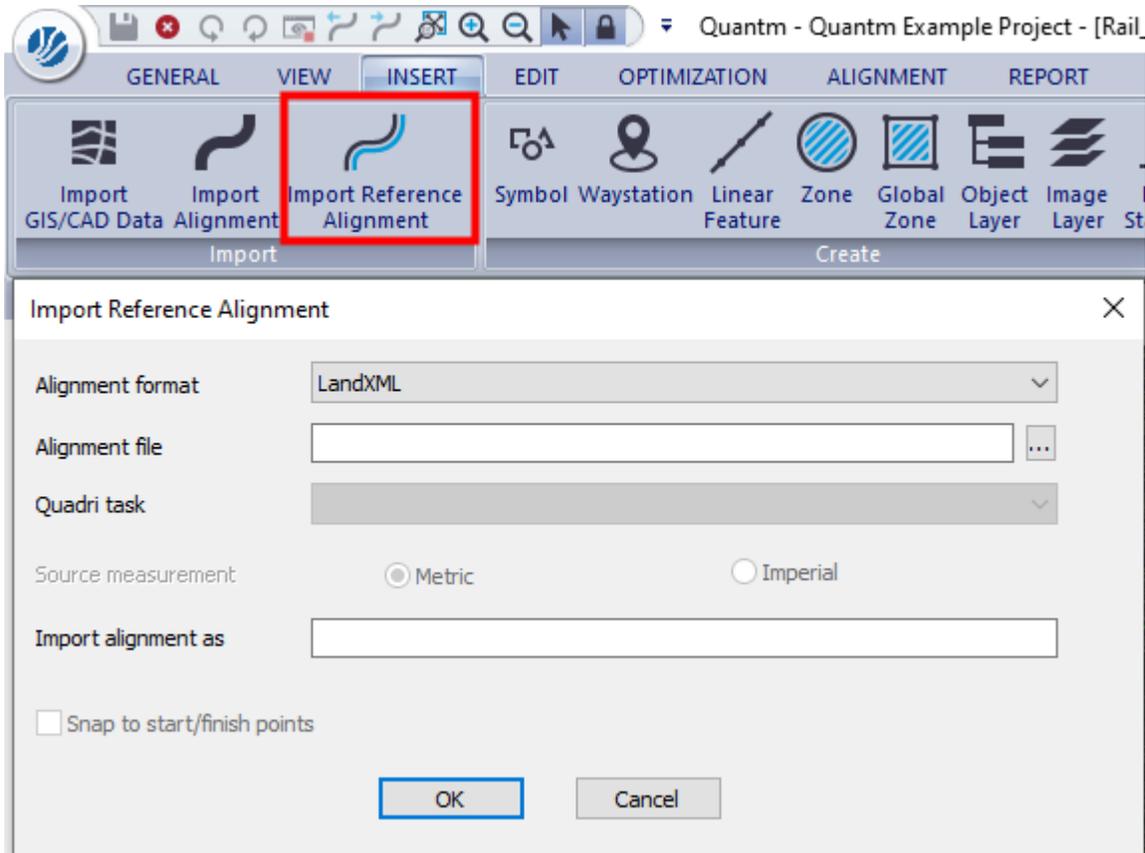
At the bottom, there is a table for "Bridge type" with the following rows:

Bridge type
Unspecified
Bridge over Road and Rail
Bridge over Water
Bridge over Land
New...

At the bottom of the dialog are "OK" and "Cancel" buttons.

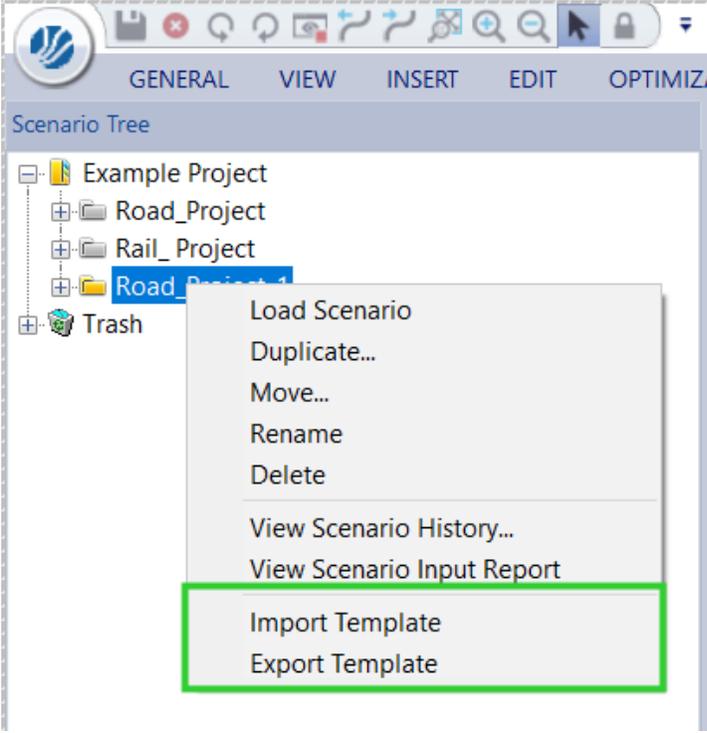
Import reference alignment

Is now working with the new version 2023.2 and you can now import or receive alignments with the existing cross section, tunnels and bridges.



Change name: Catalog --> Template

For terminologic reasons, the former name "catalog" is change name to "template"



Reaching Sales, Support, and the Community

For more information, please use these resources:

Quantm Resource Center

Search for release notes, installation guide, license activation guide, learning guides, and technical articles, and more in the [Quantm Resource Center!](#)

Quantm Support email

Visit civil.support@trimble.com.

Trimble Connected Construction

Read more about how Trimble construction software solutions connect each lifecycle phase of your civil construction projects [here](#).

