

# Infrakit

## Basics - guide



**Infrakit**  
Your digital transformation partner



# Part 1

## Features and functions

1. Login
2. Settings
3. Overview of the map page
  - Notifications and projects
  - Measuring tools
  - Map image
4. Map layers
  - Map layers tab
  - Map levels in project settings
5. Models tab
6. Drawings tab
7. Documents tab
8. As-built tab
9. Photos tab
10. Saved views
11. Equipment tab
12. 2D Cross Section
13. Cross section window
14. Long section
15. Long section window





# Part 2

## Features and functions

- 16. Files page
- 17. As-built page
  - Adding as-built points
  - Filtering as-built points
  - Editing as-built points
  - Information of as-built points
  - Downloading as-built points
- 18. Photos page
- 19. Equipment page
  - Usage statistics
  - Assignments
  - Accuracy
- 20. Visualization page (3D)



# Part 1

## Features and functions

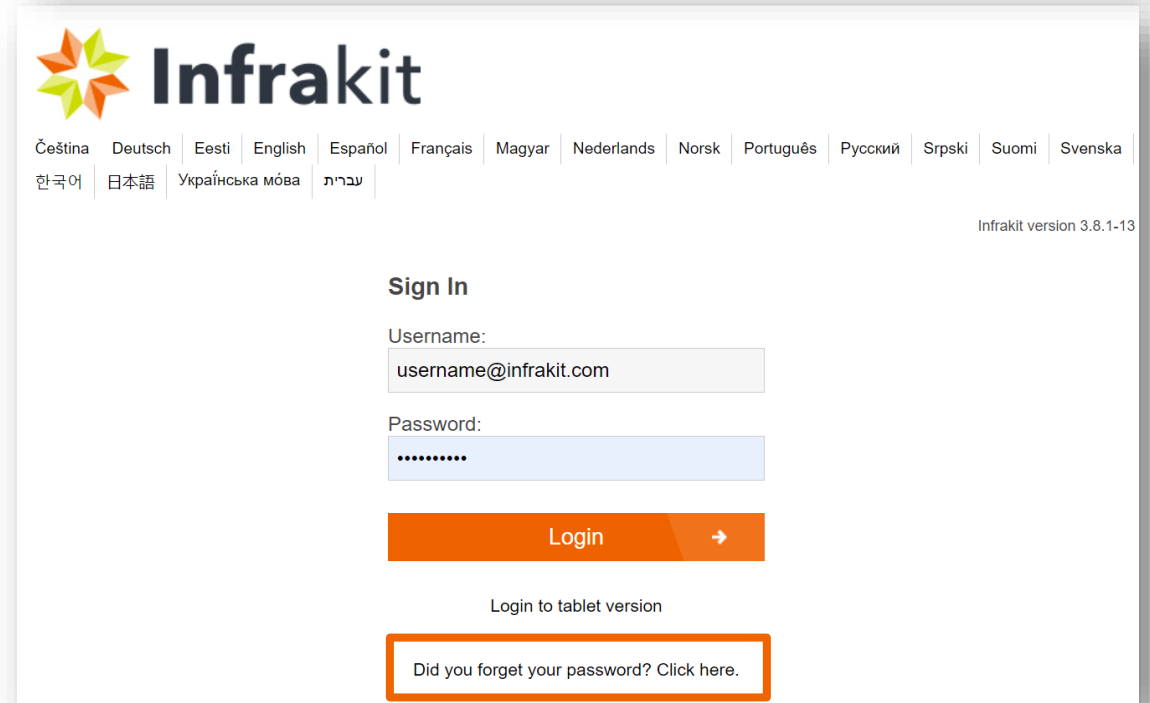
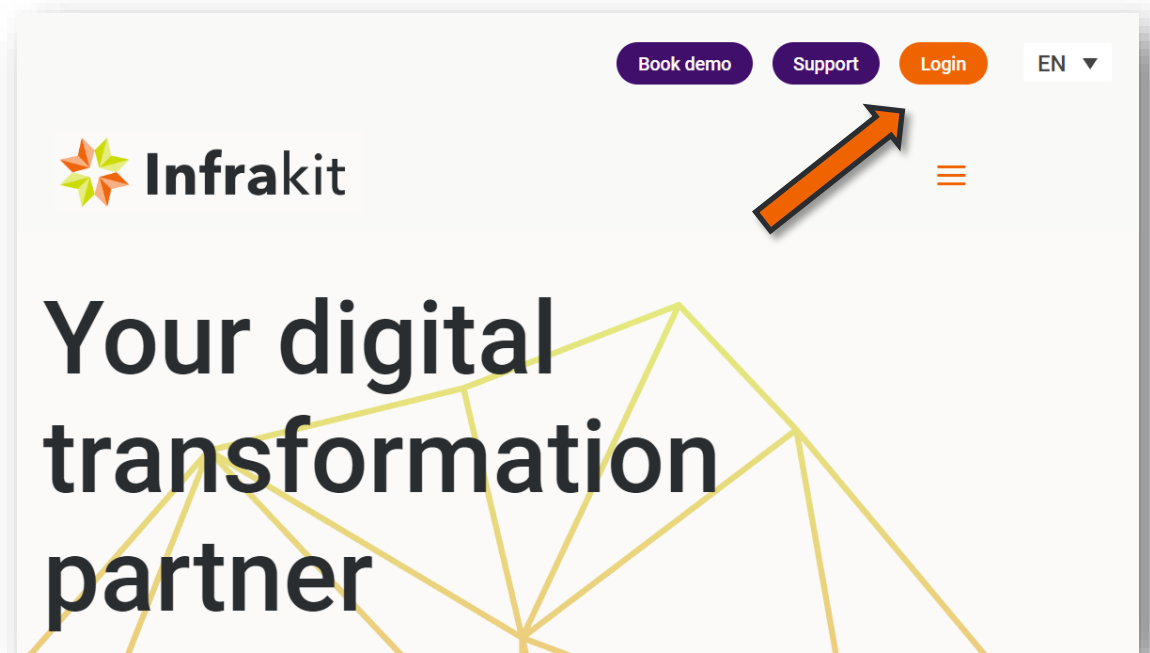
1. Login
2. Settings
3. Overview of the map page
  - Notifications and projects
  - Measuring tools
  - Map image
4. Map layers
  - Map layers tab
  - Map levels in project settings
5. Models tab
6. Drawings tab
7. Documents tab
8. As-built tab
9. Photos tab
10. Saved views
11. Equipment tab
12. 2D Cross Section
13. Cross section window
14. Long section
15. Long section window





# Login

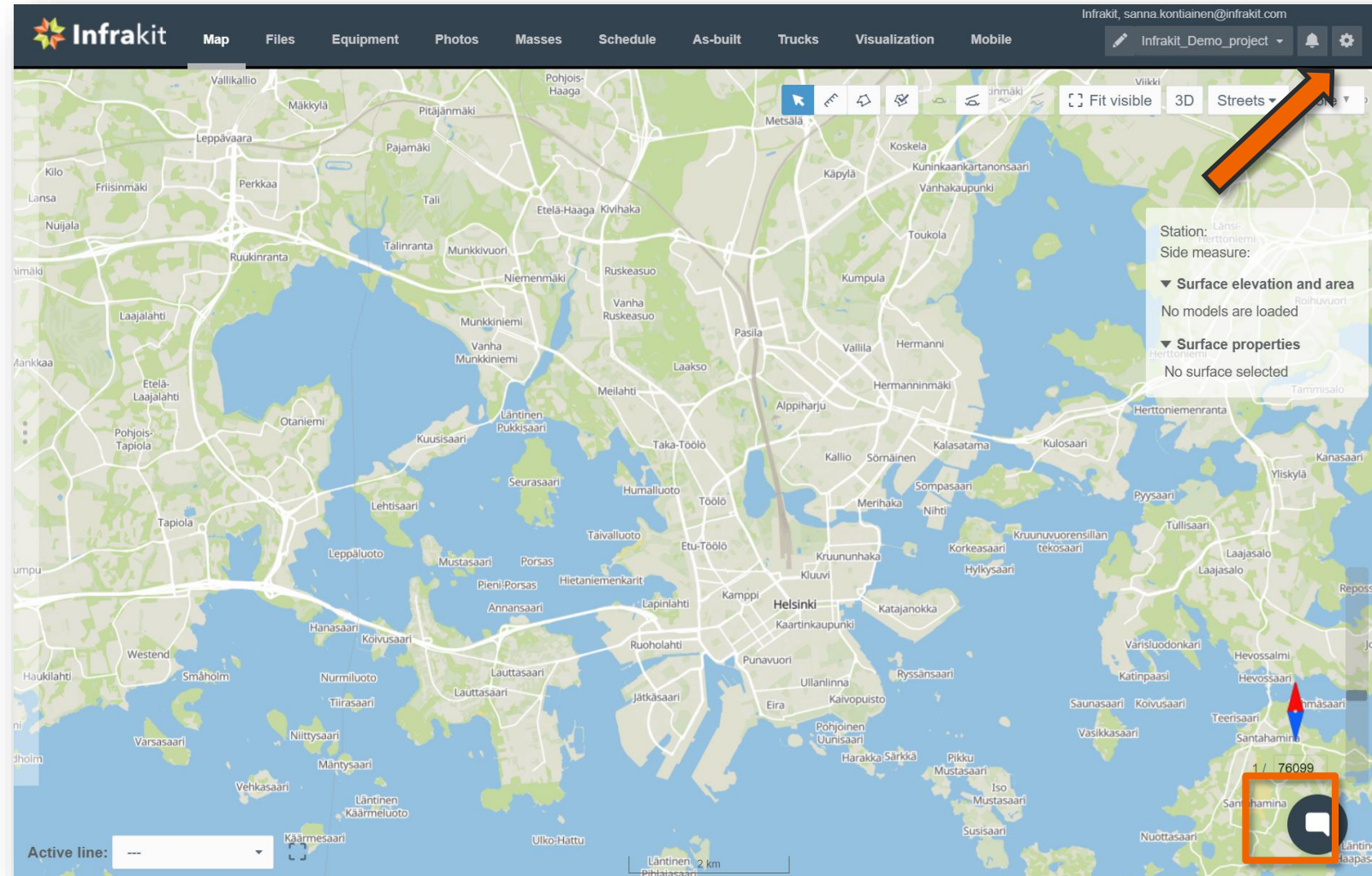
1. Type the url in the browser:  
<https://infrakit.com/fi/>
2. Select "Login" in the upper right corner
3. Enter your username and password
  - **You will receive your username**
    - Either from your organization's administrator
    - Or from Infrakit [support@infrakit.com](mailto:support@infrakit.com)
  - On this page you can also
    - Change the language from the top bar
    - Login to Infrakit tablet version
    - Request a new password



# Settings

Settings are located under “gear” button:

- Project settings
  - You can change the project settings
- User settings
  - Personal information and change of language and password
- Project invitations
  - Accepted project invitations
- Support / FAQ
  - Open Infrakit Knowledge base
- Log out





# Project settings

## Coordinate system

- This setting defines the coordinate system of the project

## Local offset

- If a local transformation has been made to the coordinate system, the offset is entered here

## Height system

- Affects height in FIELD application - Set correctly

## Project alignment

- Default active alignment for the project (FIELD)

## Project worksite map

- Trucks application

## Project terrain map

- The terrain model of the initial data is always shown as a dashed line in the cross sections

## Project bedrock surface model


- The bedrock surface model of the initial data is always shown as a dashed line in the cross sections


## Project border map

- Break lines of the 2D plane are shown as vertical lines for cross-sections, e.g. takeover boundaries


## Codes mapping file

- Interprets the legend for measurement codes

 **Basic settings**

 **Groups**

### Coordinate system

ETRS-GK23  or EPSG code EPSG:

ETRS89 / GK23FIN

**Datum transformation grid file:**

**Local offset:**  
northing (m):   
easting (m):

### Height system (Geoid)

### Cross Section

Width:  m

Y scale:

Logpoint search displacement:  m

### Project alignment

K2\_ml\_tg.xml (version 1)

Select main alignment:

### Project worksite map (for trucks)

E18\_Demo\_map!BG.dxf (version 2)

Select worksite map:

### Project terrain map

Kt40\_Maastomalli\_maaralaskenta\_mm.xml (version 1)

Select terrain map:

### Project bedrock surface model

Project has no bedrock surface model.

Select bedrock surface model:

### Project border map

Project does not have borders map

Choose borders map:

### Codes mapping file

Infra\_Rakentajakoodaus\_v.2.31.nfcl (version 1)

Choose codes file:

# Overview of the map page

Project selection  
Notifications  
Settings

Pages for different features



Map

Files

Equipment

Photos

Masses

Schedule

As-built

Trucks

Visualization

Mobile

Infrakit\_sanna.kontinen@infrakit.com

Infrakit\_Demo\_project



Fit visible

3D

RTK\_Drone\_6.8.2021

More

**Measuring tools**  
- Distance  
- Area measuring

Logpoint  
selection

**Cross and long sections**  
- Based on active alignment  
- Or free/bounded

Fit the selected  
elements on the  
map screen

Activating  
the 3D view of the  
elements  
visible on the screen

Map tile layer  
selection

**Additional tools**  
- Map image  
- Clear map state

Station:  
Side measure:  
a:  
▼ **Surface elevation and area**  
No models are loaded  
▼ **Surface properties**  
No surface selected

**Compass**

Direction and rotation

**Scale**

You can also enter a scale

1 / 834

**Create support ticket**  
Or explore knowledge base



Models

Models

Drawings

Documents

As-built

Photos

Masses

Saved views

Map tile layers

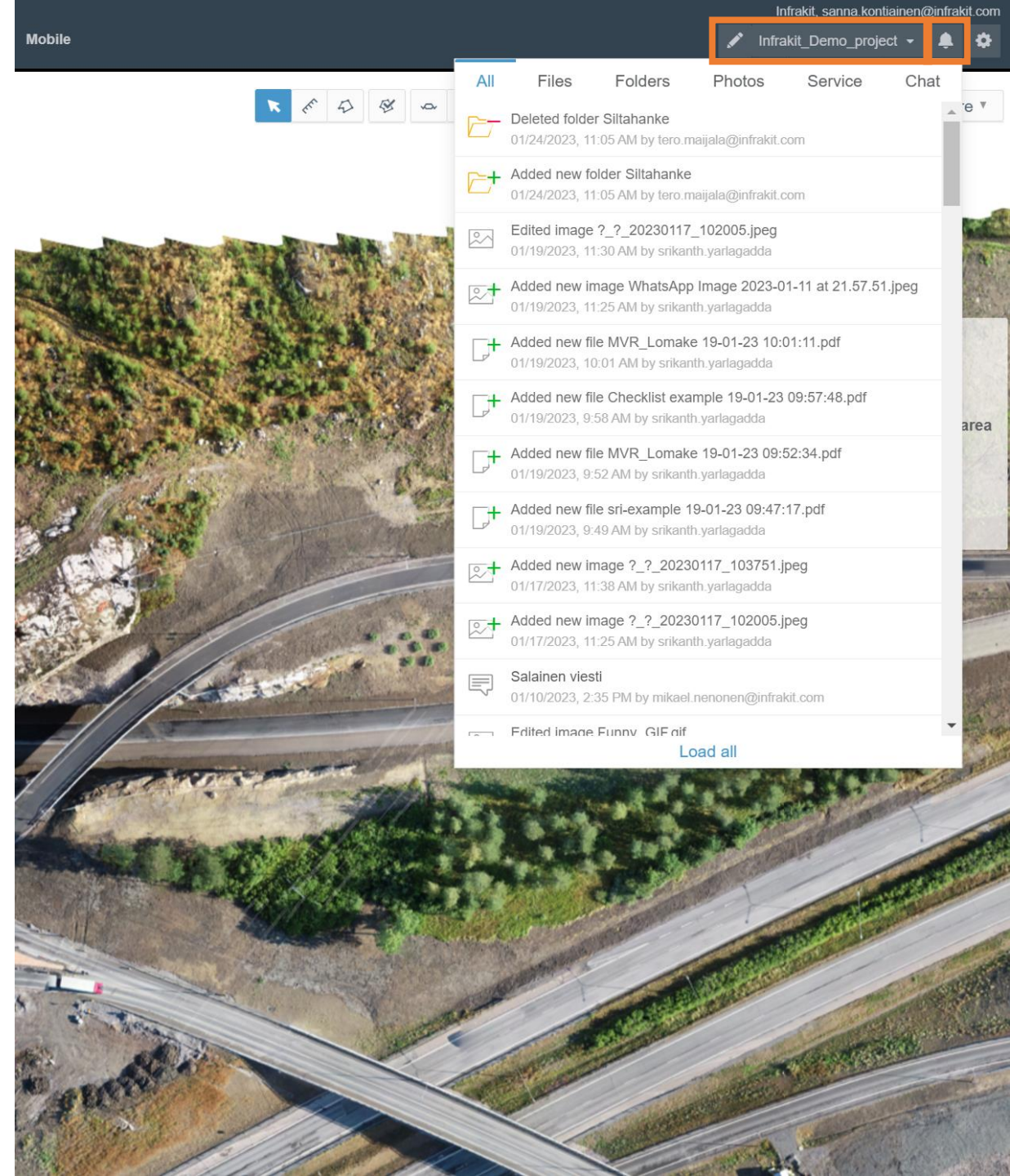
Tabs

Active alignment



# Notifications and projects

- You can find project notifications behind the “bell” icon in the upper right corner
- The number on top of the bell indicates the number of activities that took place between login times by event type
  - All – All events of the project
  - Files – Added / Removed files
  - Folders – Added / Removed folders
  - Photos – Added / Removed photos
  - Service – Infrakit's general announcements, e.g. new application version
  - Chat – The project's conversation, which everyone in the project can see
- You can select a project from the drop-down menu on the left side of the bell
- If you are the admin of the project, you can press the pencil symbol next to the project listing to access the admin page of the project, where you can:
  - Edit the coordinate system, height system, organization, truck mode
  - Edit the user list by inviting users
  - Edit equipment (machines)
  - Integrate the project into different machine control systems





# Measuring tools

## Distance measurement



You can measure distances by selecting the start point and the end point with the mouse.

- End measuring by double-clicking, the line remains visible

✓ For example, the distance between wells

## Area measurement



You can measure the areas by selecting the desired area point by point with the mouse.

- End measuring by clicking on the starting point or by double-clicking, the area remains visible

✓ For example, asphalt squares from an orthoimage

## Map image

Map image

You can take a screenshot of the map page view from behind the "more" button by selecting "Map image"

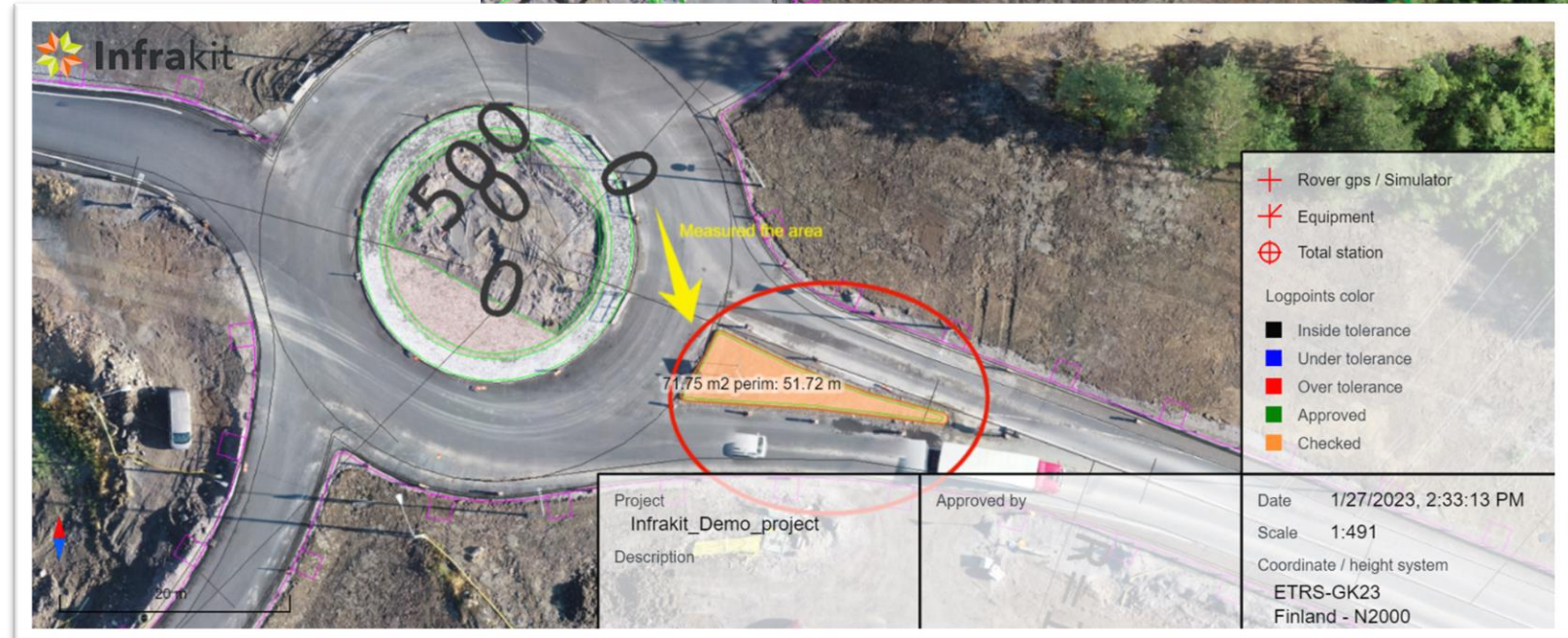
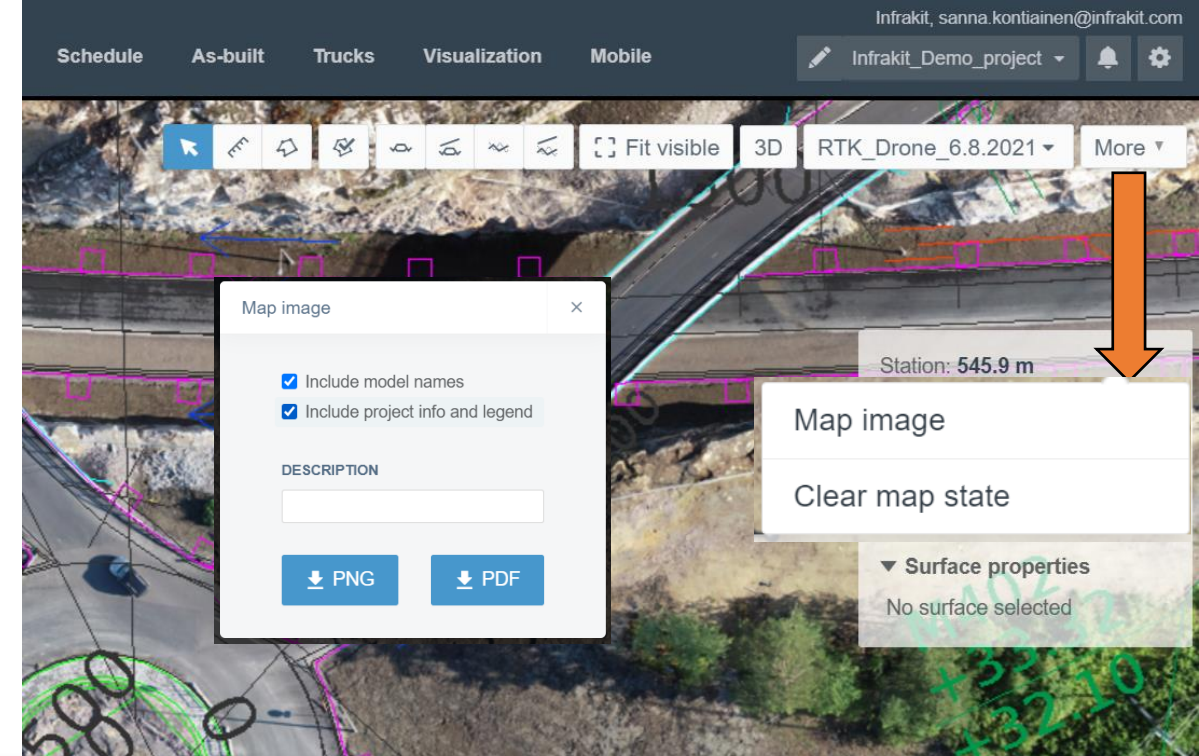
✓ E.g. to include in documents or as an e-mail attachment





# Map image

- Map image (takes a screenshot \*.png / \*.pdf)
  - You can take a screenshot of the map page view
  - Add a title / legend and description to the map image
  - You can use the map image as an e-mail attachment
- All the information displayed on the screen will be included in the map image
  - Comments on the saved view
  - Measurements taken on the screen (length, area)
  - Models
  - Drawings
  - Document symbols
  - As-built points
  - Photo symbols
- Workflow (example on the right)
  - Activate the desired elements on the map
  - Measure the distances and areas you need
  - Save view
  - Comment/Draw → "Send"
  - Take a map image of the view
  - Select "PDF"



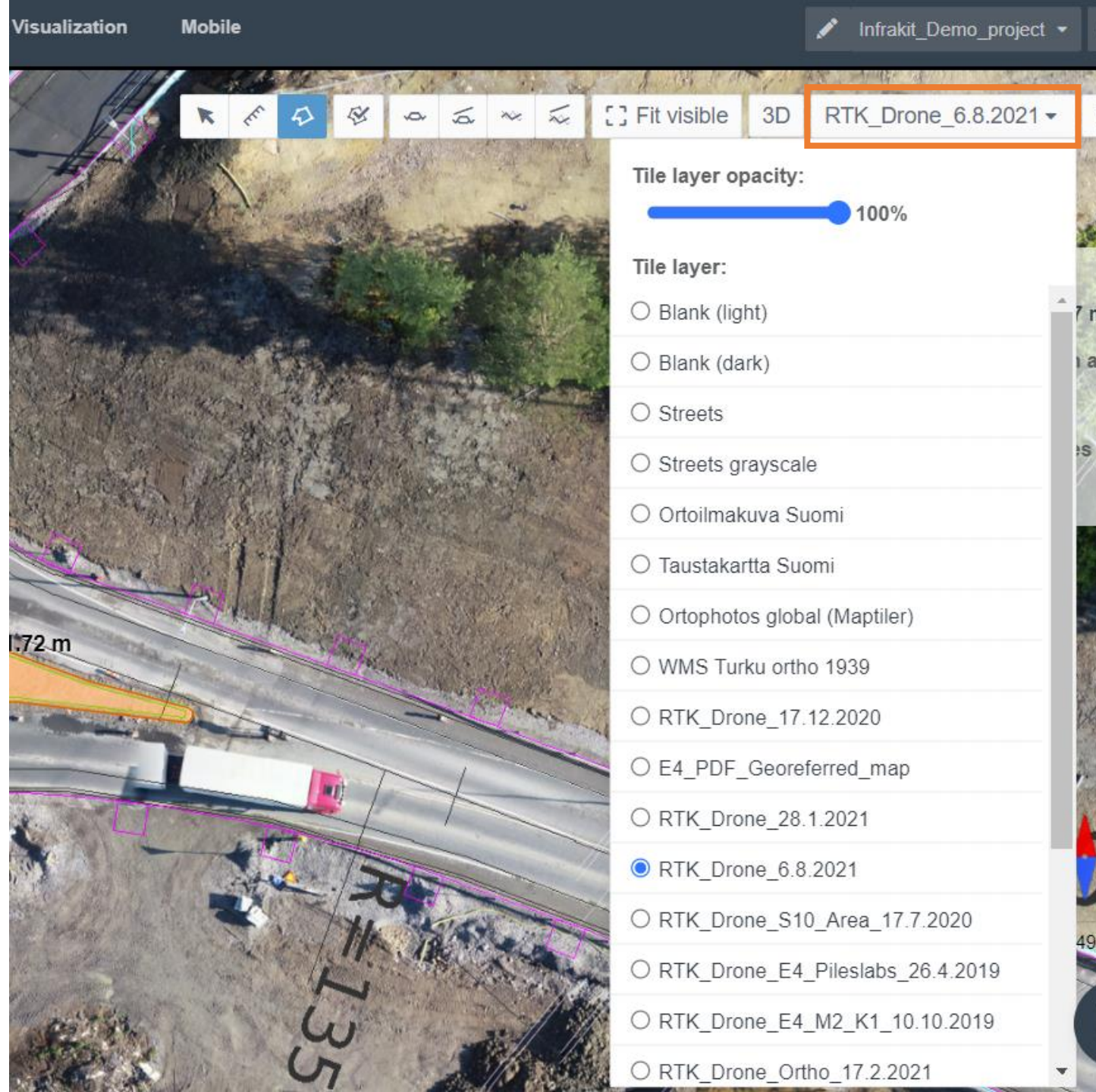


# Map layers

- You can change individual map tile layers to be the background map from the pull-down menu
- The transparency of the individual map tile level is adjustable
- Infrakit has different standard layers for map tiles by default, for example:
  - Blank ( light ) – Empty (light background)
  - Blank ( dark ) – Empty (dark background)
  - Streets – Street map (in colors)
  - Streets Grayscale – Street map (gray scale)
  - Ortoilmakuva Finland - Aerial image Finland
  - Orthophotos global ( Mapbox ) – Global aerial view provided by Mapbox
  - Background map of Finland – Street map
  - Orthophotos global ( Maptiler ) – Global aerial view provided by Maptiler
- From the pull-down menu you can also find project-specific map tile layers added to the project, e.g. aerial photos produced by drone or open data map layers

\*Support for open map services, WMS, WMTS, XYZ

\*see separate instructions: "Map layers: Project settings"





# Map layers tab

- In map layers tab you can :
  - Activate several map layers simultaneously
  - Set layer-specific transparency
  - Change the order of map layers – layers listed above on the list will be on top on the map
- Organize map layers based on creation date (timeline)
- Ortho + street maps
- You can display more information by activating several map layers on top of each other and changing transparencies

The screenshot displays the Infrakit web application interface, specifically the 'Map tile layers' tab. The top navigation bar includes links for Map, Files, Vehicles, Photos, Masses, Schedule, As-built, Trucks, Visualization, Visualization (New), and Mobile. The 'Map tile layers' panel on the left lists various map layers with checkboxes and transparency sliders. A callout box indicates '3 layers selected' and another shows a 'Transparency slider 20% - 100%'. A blue arrow points to a 'Settings' menu with options 'Deselect all' and 'Reset order'.

**Map tile layers**

- ☐ Blank (light)
- ☐ Blank (dark)
- ☒ RTK\_Drone\_28.1.2021 Transparency slider 20% - 100%
- ☐ RTK\_Drone\_17.12.2020
- ☒ RTK\_Drone\_S10\_Area\_17.7.2020 Transparency slider 20% - 100%
- ☐ Streets
- ☐ Streets grayscale
- ☐ Ortoilmakuva Suomi
- ☐ Ortophotos global (Mapbox)
- ☒ austakartta Suomi Transparency slider 20% - 100%
- ☐ Ortophotos global (Maptiler)
- ☐ Turku 1939 WMS
- ☐ E4\_Pileslabs\_26.4.2019
- ☐ RTK\_Drone\_6.8.2021
- ☐ E4\_M2\_K1\_10.10.2019

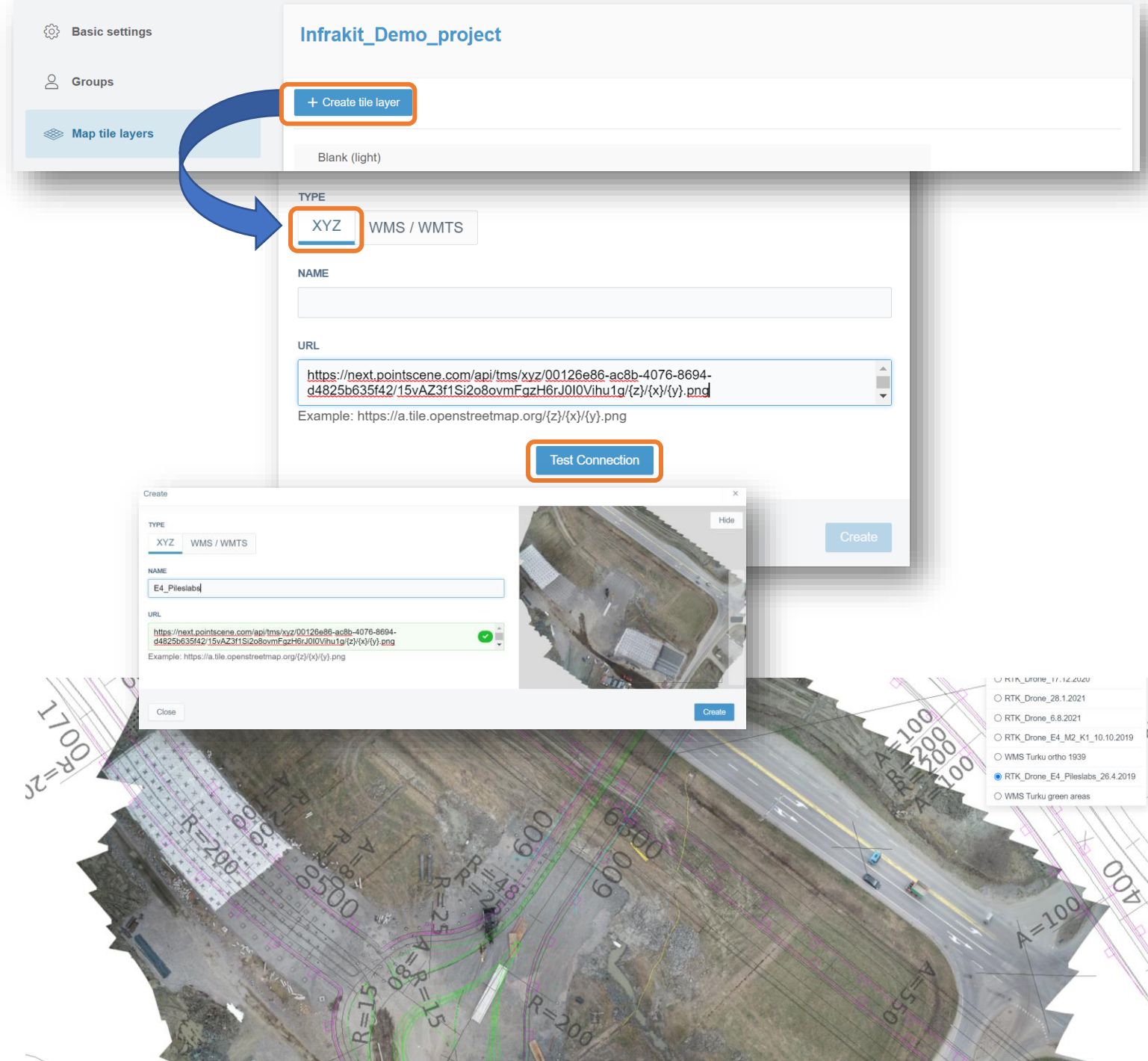
**Settings**

- Deselect all
- Reset order

Active line: ---

# Map layers : Project's settings XYZ maps

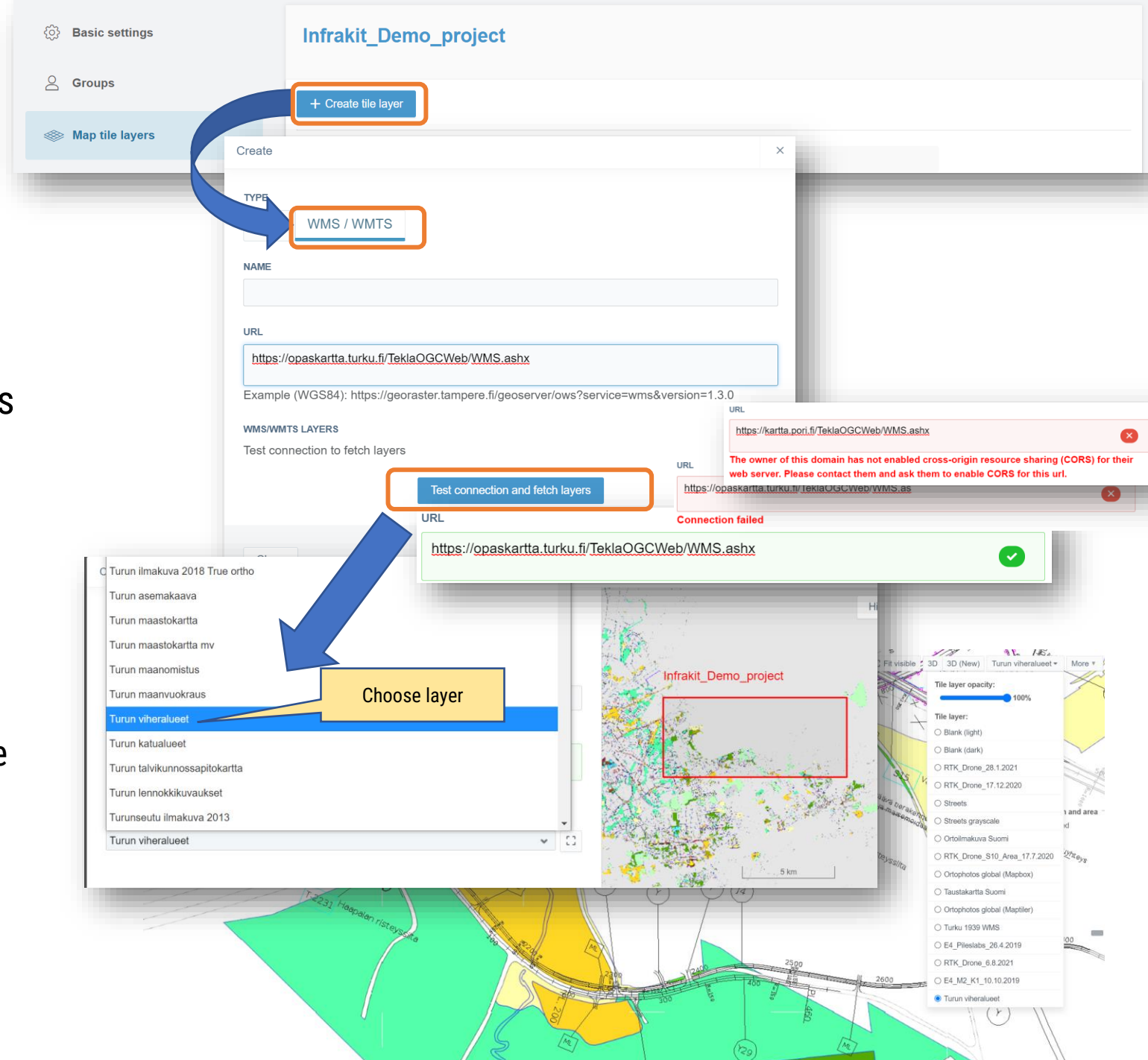
- You can add **open interfaces** XYZ maps in the project settings
- Choose
  - Map level
  - Create a new map layer (XYZ)
  - Enter the URL
  - Test connection and fetch layers
    - If the connection fails, make sure service address is correct
  - choose wanted layer and name it





# Map layers : Project's settings WMS/WMTS maps

- You can add **open interfaces** WMS/WMTS maps in the project settings
- Choose
  - Map level
  - Create a new map level (WMS/WMTS)
  - Enter the URL
  - Test connection and fetch layers
    - If the connection fails, make sure service address is correct
  - choose wanted layer and name it
- Added map levels are visible also to other users and in mobile app



# Models tab

On the models tab, you can find all the project's models

## 1. Model selection

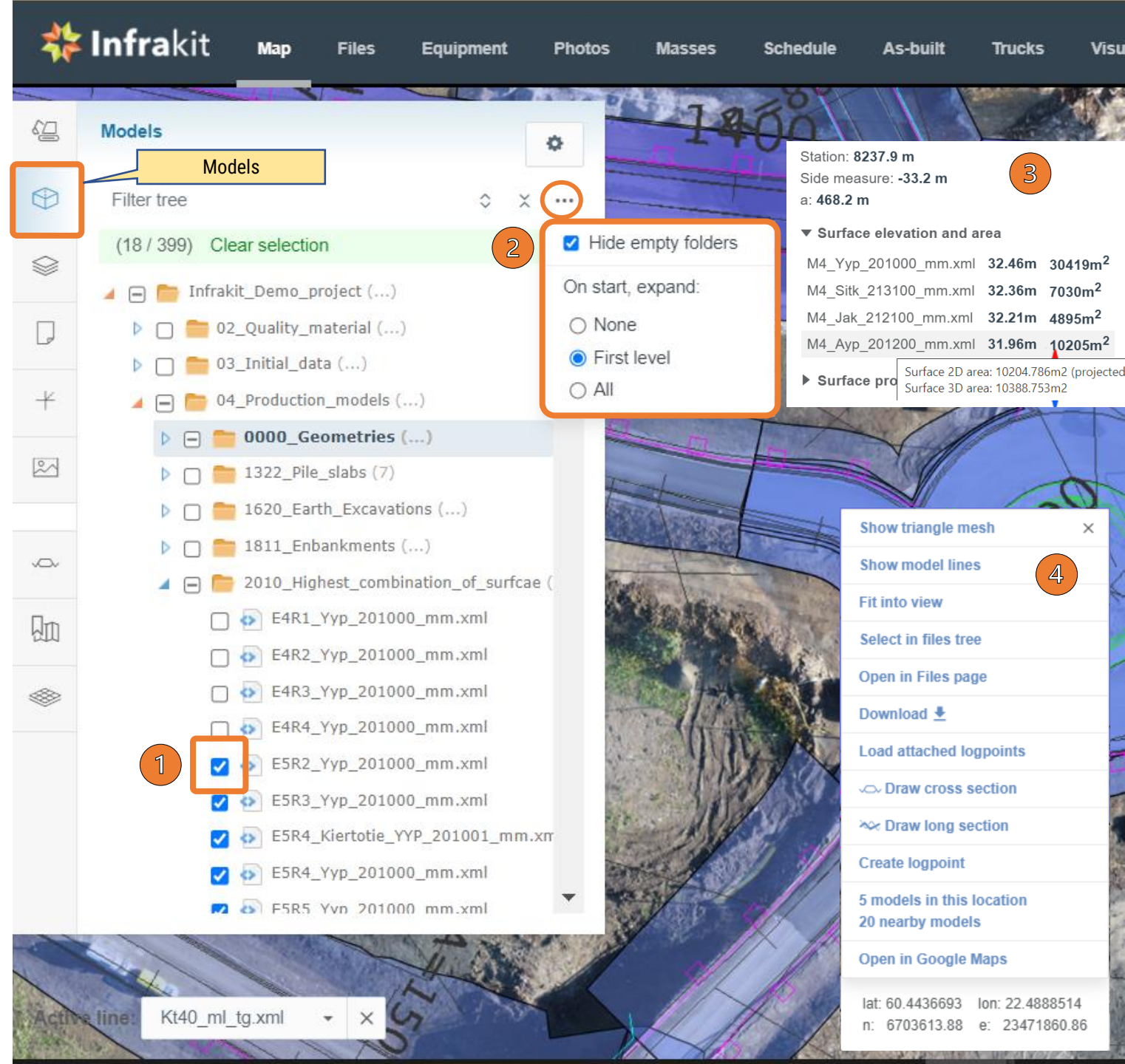
- Put a check mark in the box in front of the model name, Infrakit will visualize the model area on the map in blue color
- By clicking on the model name, Infrakit focuses the view on the selected model
- You can select all models in a folder by holding down the "Shift" key and putting a check mark in the box in front of the folder
- If you wish, you can also select all models on the screen at once by selecting "select all"

## 2. Limiting the number of visible folders

- Hide empty folders by pressing the circled "3 dots" and choosing "Hide empty folders", with this function Infrakit only shows those folders with files that can be interpreted as models
  - Makes it easier to find information
- You can also choose whether the directory is expanded every time a tab is opened

## Additional functions / information for models

3. Infrakit shows additional model information by clicking on the model (height at the cursor position, 2D surface area, and 3D surface area when you hover the mouse cursor over the 2D surface area reading)
4. Right-click on the model to open an additional menu. In the menu you can
  - Display the triangle mesh of the model
  - Show the breka lines of the model
  - Fit the selected model to the map
  - Select the model file from the directory
  - Open the model in files page
  - Download the model to your computer
  - Load the as-built points attached to the model
  - Create a manual as-built point at the point indicated by the marker
  - Open the menu that shows the models at the cursor position and the models in the surrounding environment
  - Open the selected point in Google Maps (models will not be displayed)





# Models tab

## 1. Model settings

You can adjust the transparency of the models you choose and the information displayed about the models\* (\*point data only)

On the Models tab, it is also possible to search for files by typing in the search field:

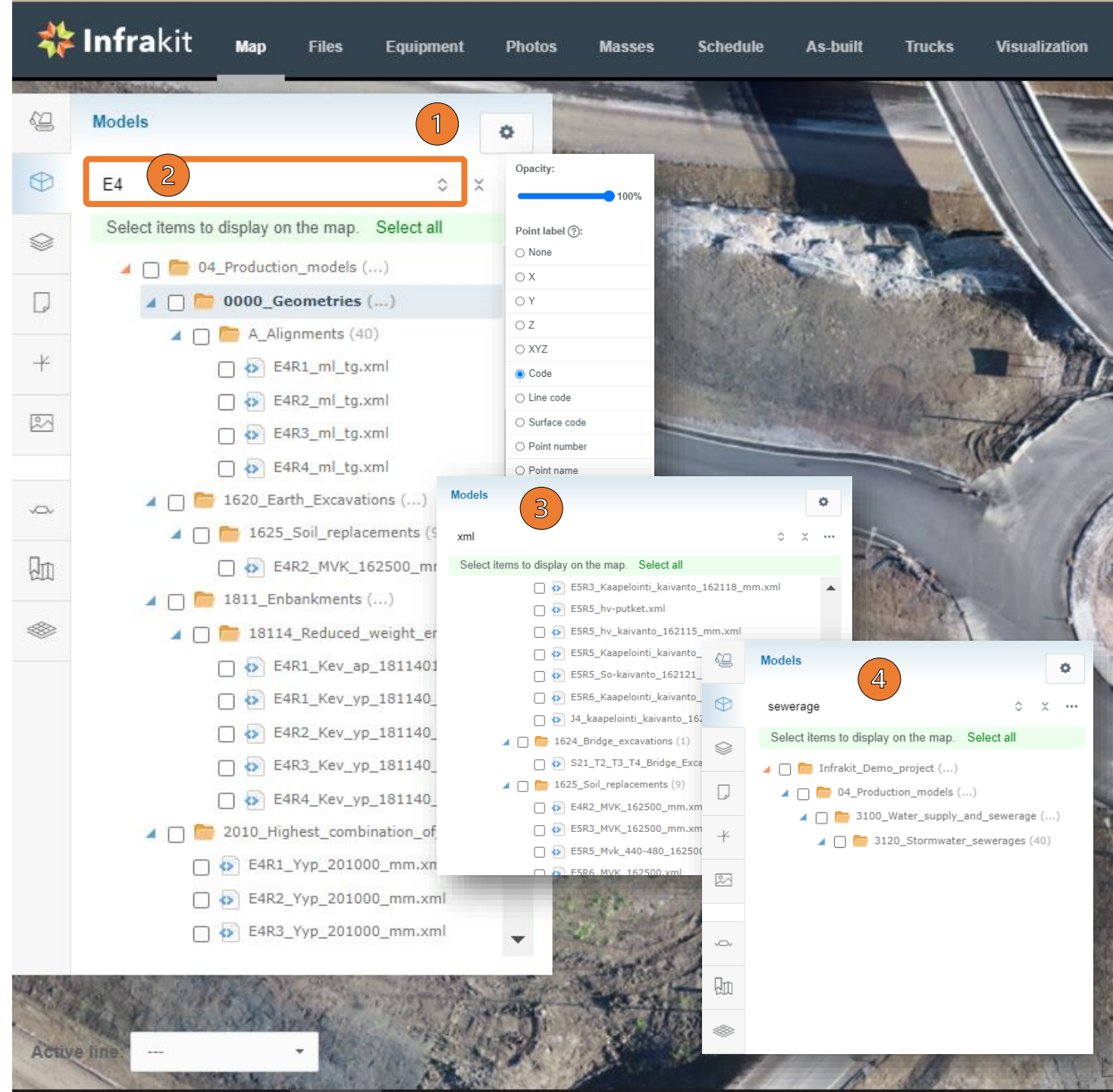
2. The model name or part of the model name
3. File extension
4. Folder name

**Tip 1 :** Use the search function on the map page and open the file "files page" by pressing the right mouse button and selecting

[Open in Files page](#)

**Tip 2 :** Download the file you are looking for directly from the 2D map page to your computer by pressing the right mouse button and selecting

[Download](#) 



# Drawings tab

Drawings refer to 2D materials in vector form, which are most commonly known as CAD images or design files. The most common formats for drawings are DWG, DXF, but there are other formats as well.

On the Drawings tab, you can find all 2D vector drawings recognized by Infrakit

## 1. Selection of drawing

Put a check mark in the box in front of the name of the drawing, Infrakit visualizes the drawing in the map view

By clicking on the name of the drawing, Infrakit focuses the view on the selected drawing

You can select all the drawings in the folder by holding down the "Shift" key and putting a checkmark in the box in front of the folder

If you wish, you can also select all drawings on the screen at once by selecting "select all"

## 2. Limiting the number of visible folders

Hide empty folders by pressing the circled "3 dots" and choosing "Hide empty folders", with this function Infrakit will only show those folders with files that can be interpreted as drawings

You can also choose whether the directory is expanded every time a tab is opened

## 3. Settings for drawings

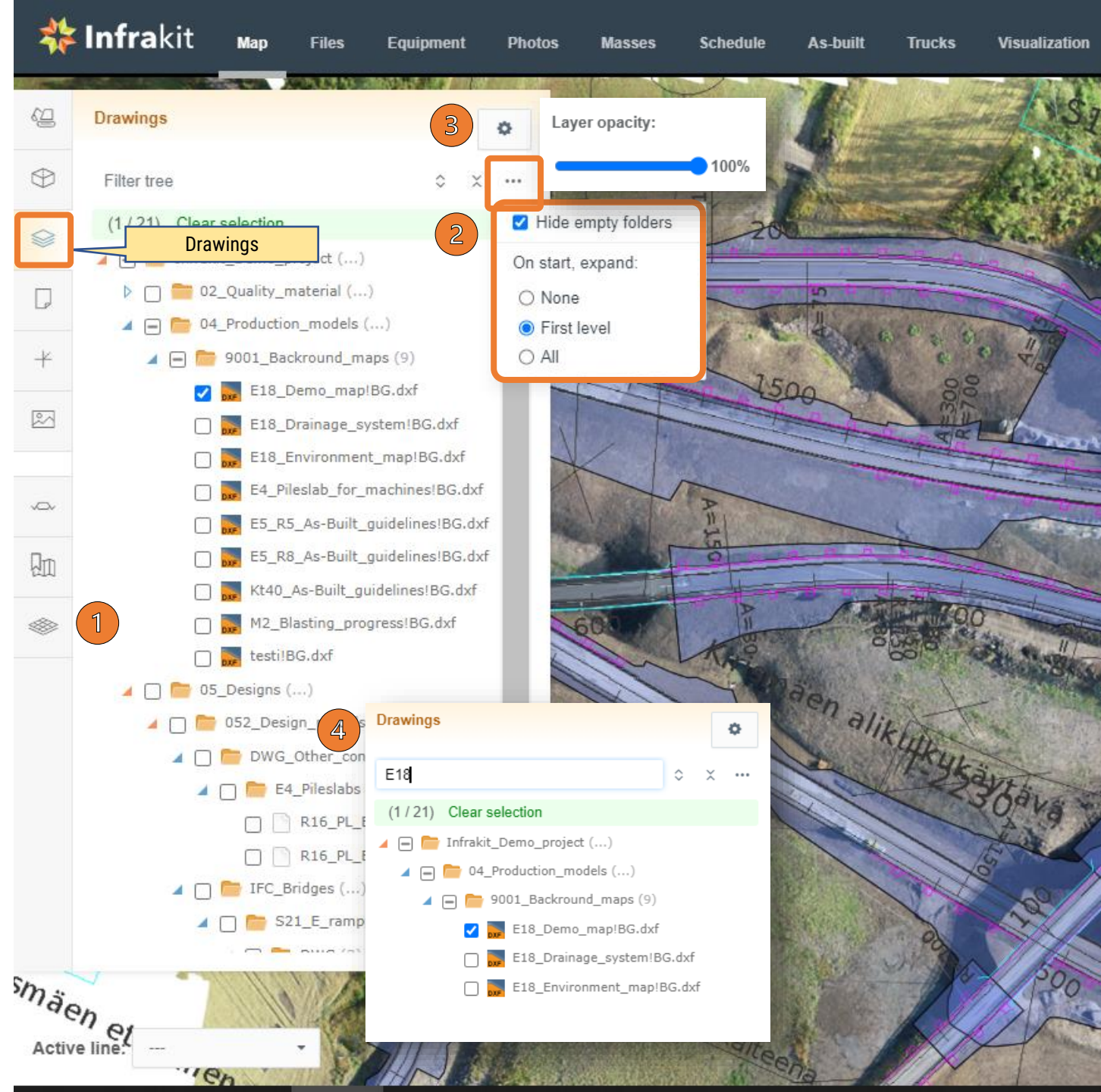
You can adjust the transparency of the selected drawings in the settings menu

## 4. On the Drawings tab, it is also possible to search for files by typing in the search field:

Name or part of the name of the drawing

File extension

Folder name





# Documents tab

- Infrakit's map page has a separate documents tab that shows the PDF documents brought to the project

- There are various search filters for documents that can be used to search the folders that contain documents according to the filters you have set

- Filters are folder filters in documents, first select the folders to be included in the search and filter by date, user or search term, Infrakit shows the folders that contain documents. The number after the folder name tells if the folder contains the file in question. (It also shows folders that do not contain the document you are looking for, in which case the reading in brackets is 0/xx)

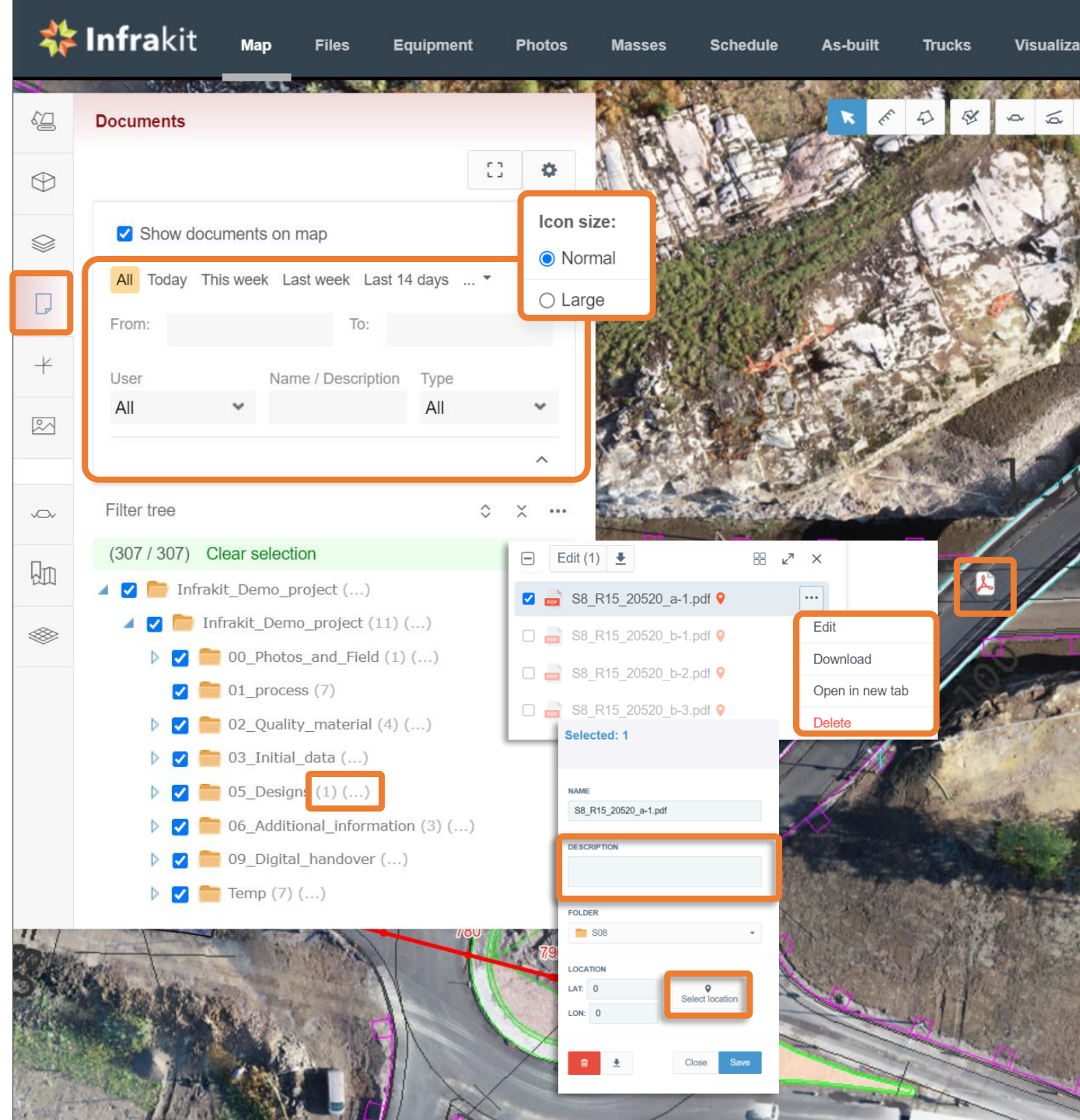
- The document can be placed on the map by editing the document

- Select the document and alternatively press "Edit" at the bottom of the opened document or select "Edit" from the three dots after the file name
  - After that, press the "Select location" tool and click on the map to indicate the location of the document on the map and save

- In document editing menu you can:

- Change the file name of the document
  - Give the document additional information such as a "description" of the document's content, a free caption, etc.
  - Change the folder of the document

✓ **Tip 1** : Place e.g. the well maps, installation photos, etc. needed by the site near the object, this way the documents are easy to open in the field by clicking on the map in a mobile browser



# As-built tab

On the as-built tab, you can find the measurements taken directly into Infrakit's database with work machines and/or measuring devices.

Here you will not find points uploaded as files (e.g. \*.gt, \*.xml, \*.kof ...), they can be found on the models tab

There are various filters that can be used to search for as-built points from the directory

Time-, code-, user- and device-based filters work by first selecting the folders from which to search, then setting the desired filters.

Infrakit displays the folders that contain points with filtered properties

You can also search for as-built points of certain file by entering the file name or part of the file name

Based on the search term, Infrakit filters the files to which as-built points are connected

The visibility of the as-built point and the displayed information can be adjusted from the settings menu

Color

Size of as-built points

Text to display for points

**Tip 1:** Free text is often used in the coding of as-built points. To search for as-built points based on the code, select all folders and open the "Code" filter → you can see all the codes used in the as-built points, e.g. "Base courses", "Base", "Basecourse" = the same thing, slightly different name

**In Infrakit, the symbols used for as-built points**

+ Rover gps / Simulator  
+ Equipment  
+ Total station

The screenshot shows the Infrakit web application interface. The top navigation bar includes links for Map, Files, Equipment, Photos, Masses, Schedule, As-built, Trucks, Visualization, and Mobile. The main content area is titled "As-built" and features a "Bulk edit" button and a "Draw line (linecode)" dropdown. Below these are filters for "From:" (Today, This week, Last week, Last 14 days) and "To:" (All, Today, This week, Last week, Last 14 days). There are also filters for "Code" (All), "User" (All), and "Equipment" (All). A "Filter tree" is visible, showing a hierarchy of folders and files. A specific folder, "E4R1", is highlighted. A "Show only out of tolerance" checkbox is present. A "Settings" menu is open, showing options for "Show lines", "Color" (Newer logpoints, Older logpoints), "Time heatmap", "Tolerance", "Tolerance and approval", "Logpoint size" (Normal, Large), "Logpoint label" (dZ, X, Y, Z, XYZ, Code, Line code, Surface code, Point name, Point number, Side measure, Date), and "Labels are shown when map is zoomed in" (Shift+Click to select multiple). A list of points is displayed, including "144 (P) (Lähde)", "190 (P) (Avokallion hajapiste/-)", "2001 (P) (TakyTarke mittaja)", "201000 YYP", "2032 (P) (RTK-Toteuma kaivukone)", "205 (P) (Muu rakenne)", "234 (P) (Valaisinpylväs)", "607 (L) (Valaistuskaapeli, erittelemätön)", "83 (P) (Kiskokosketin)", "94 (P) (Masto)", "97 (P) (Kaapelikaivo)", "9999", "9999 infrakit\_checkpoint", "AS\_BUILT\_PNT", "Kloak", "P110M (L) (Paineviemäri110mm)", "R1000T (L) (Rumpu1000mm teräs)", "Sewer", "Vand", and "Water". A "Click to select" button is also visible.



# As-built tab

You can edit several as-built points by selecting

Bulk edit

A menu opens where you can choose

Do you select points individually or

Do you draw the area inside which the points are selected

After selection, a new side menu opens where you can

See e.g. dZ averages of the points you selected

Download the as-built points as a file in different formats

Change the status of the selected point group -> checked / approved  
(note. The selection cannot be canceled)

Change properties of the selected point group

Folder

Model connection

Alignment

Equipment

Linecode (T2)

Point number (T4)

Point name

Code (T3)

Surface code (T1)

After making the desired changes, press "Save" and the changes will be saved in the Infrakit database

You can also draw a break line between the as-built points by selecting

Draw line (linecode)

You can fit the selected as-built points on the screen by pressing

Fit

**Tip 1** : The points can be restored with the help of Infrakit's technical support if you delete as-built points from Infrakit's database by accident. Data can ALWAYS be returned from the database back to the project.

The screenshot displays the Infrakit software interface for the 'As-built' tab. The top navigation bar includes 'Map', 'Files', 'Equipment', and 'Photos'. The main content area shows a 'Bulk edit' button, a 'Draw line (linecode)' button, and a 'Filter tree' section. A dropdown menu is open, showing options for 'All', 'Today', 'This week', 'Last week', and 'Last 14 days'. Below this, there are fields for 'From:', 'To:', 'Code', 'User', and 'Equipment'. A checkbox for 'Show only out of tolerance' is also present. The 'Filter tree' section shows a selection of '(84 / 545)' points, with a 'Clear selection' button. A blue arrow points from the 'Bulk edit' button to the 'Click to select' and 'Area selection' options. Another blue arrow points from the 'Area selection' option to the 'Properties' panel on the right. The 'Properties' panel includes sections for 'APPROVAL STAGE' (DON'T CHANGE, CHECKED, APPROVED), 'FOLDER' (2121\_Subbase\_courses), 'MODEL' (E4R2\_Jak\_212100\_mm.xml), 'ALIGNMENT' (E4R2\_ml\_tg.xml), 'EQUIPMENT' (No equipment), 'LINE CODE', 'POINT NUMBER' (Multiple values), 'POINT NAME', 'CODE' (2032), and 'SURFACE CODE' (212100). The bottom of the panel has a 'Close' button and a 'Save' button.

# Approval of as-built points

You can approve and check as-built points either:

1. By editing the point/points
  - From the edit menu, select the approval status as checked or approved, depending on the agreement
2. By selecting a point on the map and clicking Check or Approve from the menu that opens

×

Line code: null

Number: 23

Name:

Code: 2032 (P) (RTK-Toteuma kaivukone)

Model: E4R2\_Jak\_212100\_mm.xml

Alignment: E4R2\_ml\_tg.xml

Station: 80.538

Km station:

Side measure: 6.22m

Surface code: 212100

dE: 0 dN: 0 dZ: -0.019

x: 6704344.92

y: 23470167.286

z: 23.456

Date: 09/22/2021, 10:47 AM

Point source: Simulator

Equipment: XMAS\_Demo\_Excavator

There are no approvals for this logpoint.

👁 Check

✅ Approve

Delete

Edit

Selected: 9

Average Dz: -0.0026

Dz std. deviation: 0.0

In tolerance: 9 / 9

Checked: 2 / 9

Approved: 2 / 9

APPROVAL STAGE

☒ DON'T CHANGE

☐ CHECKED

☐ APPROVED

☐ FOLDER

2121\_Subbase\_courses

☐ MODEL

E4R2\_Jak\_212100\_mm.xml

☐ ALIGNMENT

E4R2\_ml\_tg.xml

☐ EQUIPMENT

No equipment

☐ LINE CODE

☐ POINT NUMBER

Multiple values

☐ POINT NAME

☐ CODE

2032

Toteumapiste kaivukone, RTK-GNSS

☐ SURFACE CODE

212100

Jakavat kerrokset, yläpinta

🗑

Close

Save

Download

CSV

GT

InframodelXML

kof

LandXML



# Photos tab

Infrakit's map page has a separate photos tab which shows the photos uploaded to the project.

There are different search filters for photos that can be used to search the folders that contain photos according to the filters you set

The filters are folder filters in photos tap, first select the folders to be included in the search and filter by date, user or search term, Infrakit shows the folders that contain photos and the number after the folder name tells if the folder contains the file in question. (It also shows folders that do not contain the photo you are looking for, in which case the reading in brackets is 0/xx)

Photos that contain location information are automatically placed on the map at the location defined by the location information

Photos that do not contain location information can be placed on the map by selecting a photo from the directory and editing the image's properties

Select a photo and press either "Edit" at the bottom of the opened photo or alternatively select "Edit" from the three dots after the file name

After that, press the "Select location" tool and click on the map to indicate the location of the photo on the map and save

In photo editing menu you can also:

Changes the name of the photo

Give the photo additional information such as a "description" of the content, a free caption, etc.

Change the photo folder

**Tip 1 :** When you use the Infrakit mobile version either with a browser or with the FIELD application, the images automatically get the correct location and are immediately visible in the browser version.

**Tip 2:** Report safety observations, deviations, plan changes, sudden obstacles such as a surprising cable, pipe or rock directly from the construction site to the project office.

The screenshot displays the Infrakit web application interface. At the top, a navigation bar includes tabs for Map, Files, Equipment, Photos, Masses, Schedule, As-built, Trucks, Visualization, and Mobile. The 'Photos' tab is selected, showing an aerial map view with a photo pin. A sidebar on the left contains a 'Filter tree' with a list of folders: 'Infrakit\_Demo\_project (3)', 'Infrakit\_Demo\_project (6)', '00\_Photos\_and\_Field (40)', '02\_Quality\_material (9)', and 'Temp (15)'. The photo pin on the map is labeled '500'. A photo editing menu is open, showing options: 'Edit', 'Download', 'Open in new tab', and 'Delete'. The photo details panel on the right shows fields for NAME, DESCRIPTION, FOLDER, ALIGNMENT, LOCATION, and HEADING IN DEGREES.

# Photos tab

Infrakit photo formats (\*.jpg / \*.jpeg / \*.tiff / \*.tif / \*.gif)

- A regular photo
- 360° photo
- Animated GIF image

Photo symbols on the map



A regular photo



360 - photo (panorama)

A regular photo

- The photo preview opens by moving the mouse over a single image
- By clicking on the image symbol, the image opens larger
- The image opens in a new tab by clicking on the lower right corner

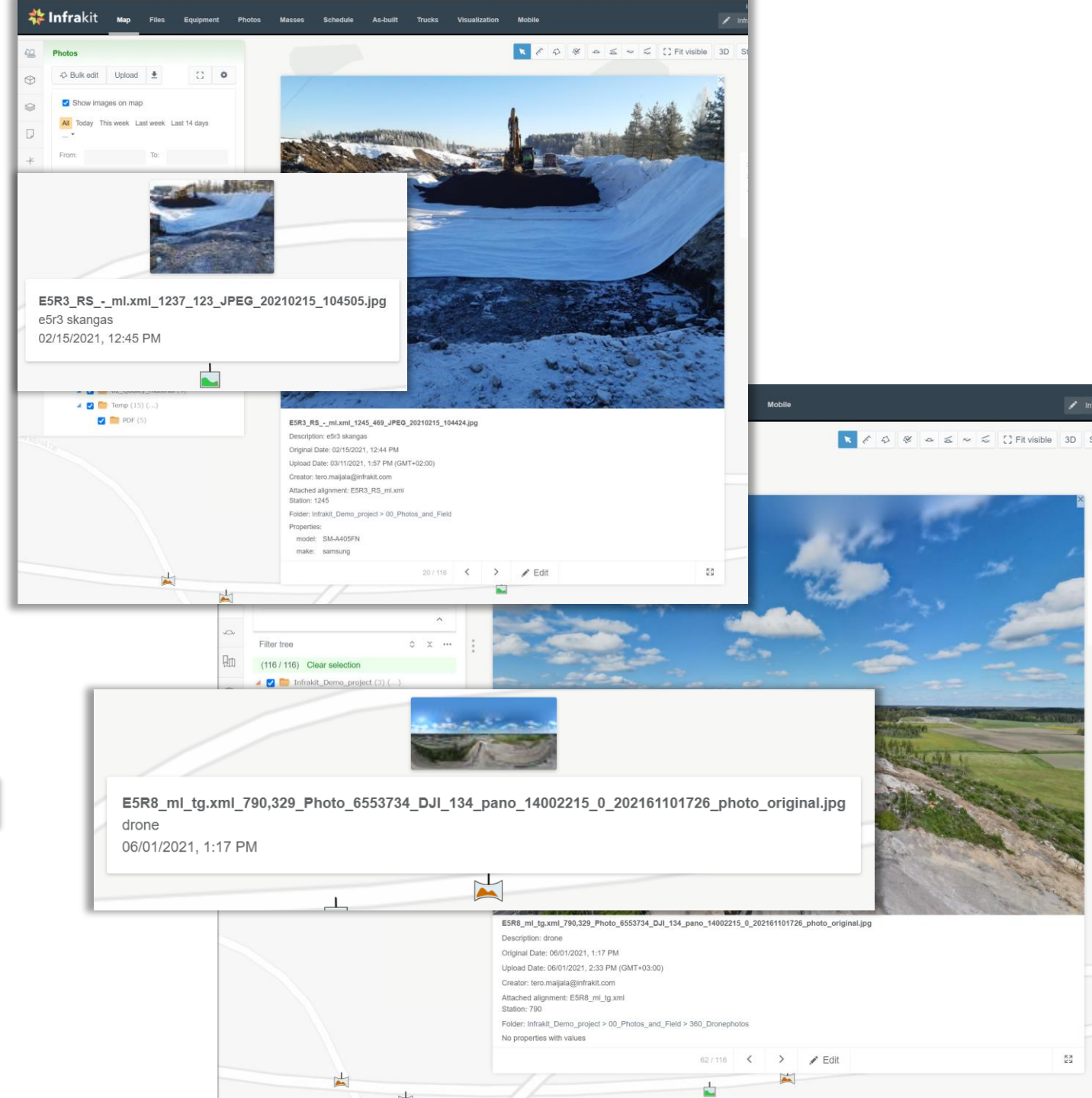
360 - photo

- The photo preview opens by moving the mouse over a single image
- By clicking on the image symbol, the image opens larger
- You can rotate the image by moving the mouse over the image and holding down the first mouse button at the same time
- The image opens in full screen size by pressing the bottom right corner or by pressing the one on the left side of the image
- You can zoom in on the photo by rotating the mouse wheel button or by using the tools on the left side of the image

Animated GIF image

- The photo preview opens by moving the mouse over a single image
- The animation does not work in the preview phase, the GIF image is opened in a new tab by pressing from the bottom right corner

**Tip1:** Use 360° photos to create a real-time observation image for e.g. the project's weekly meetings





# Saved views

- The saved views tab allows you to create different ready-made views to share or create your own personal views.

- Infrakit saves all your choices from different tabs and you can return to the situation you saved by clicking on the view

- You can create a saved view of any situation shown on the map and save it in the folder of your choice.

- The saved view can be commented;

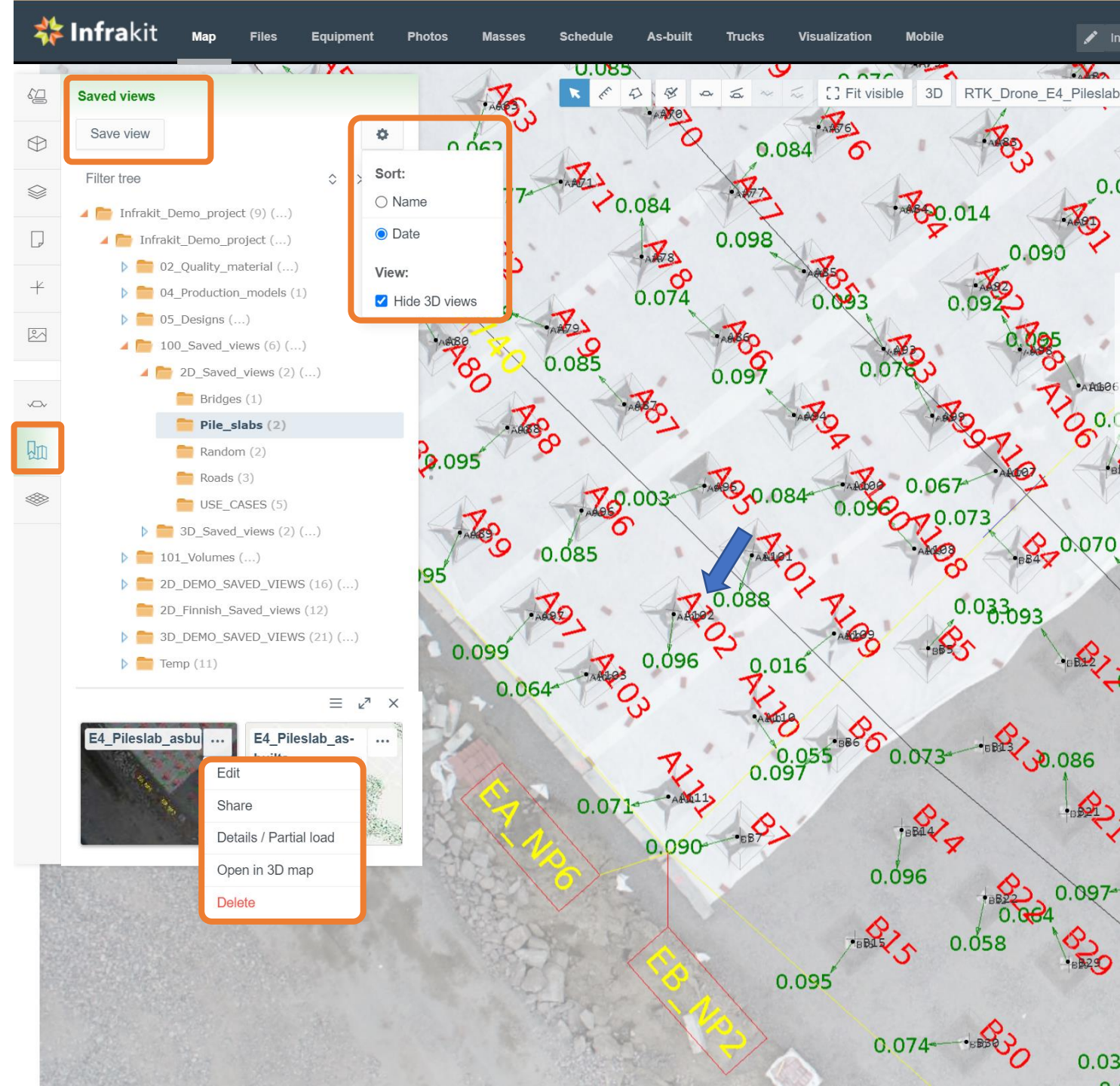
- To text dialogue
- By writing text on the map
- By drawing symbols or freehand

- Additional information can be attached to a saved view:

- Attachments (PDF documents)
- Links to websites

- ✓ **Tip1** : Add a link to the saved view, which takes you for example to the Infrakit file folder (e.g. the folder containing the quality documents and files related to the view)

- ✓ **Tip2**: Share the saved view to workgroups, the subscriber, the supervisor, the view also works in a mobile browser.



# Saved views

## Creating a saved view in the "Saved views" tab

- Select the files you want to display from the other tabs, zoom, center the view and then go to the "Saved views" tab
- Select the folder where you want to save your view
- Press "Save view" at the top → a preview of the view appears at the bottom
- Click the button in the upper right corner of the view preview icon and select "Edit"
- Name the view as you wish, write a description, you can still change the folder and choose visibility Public / Secret
  - Public, visible to all project users
  - Secret, only visible for the one who saved the view

## Commenting on a saved view

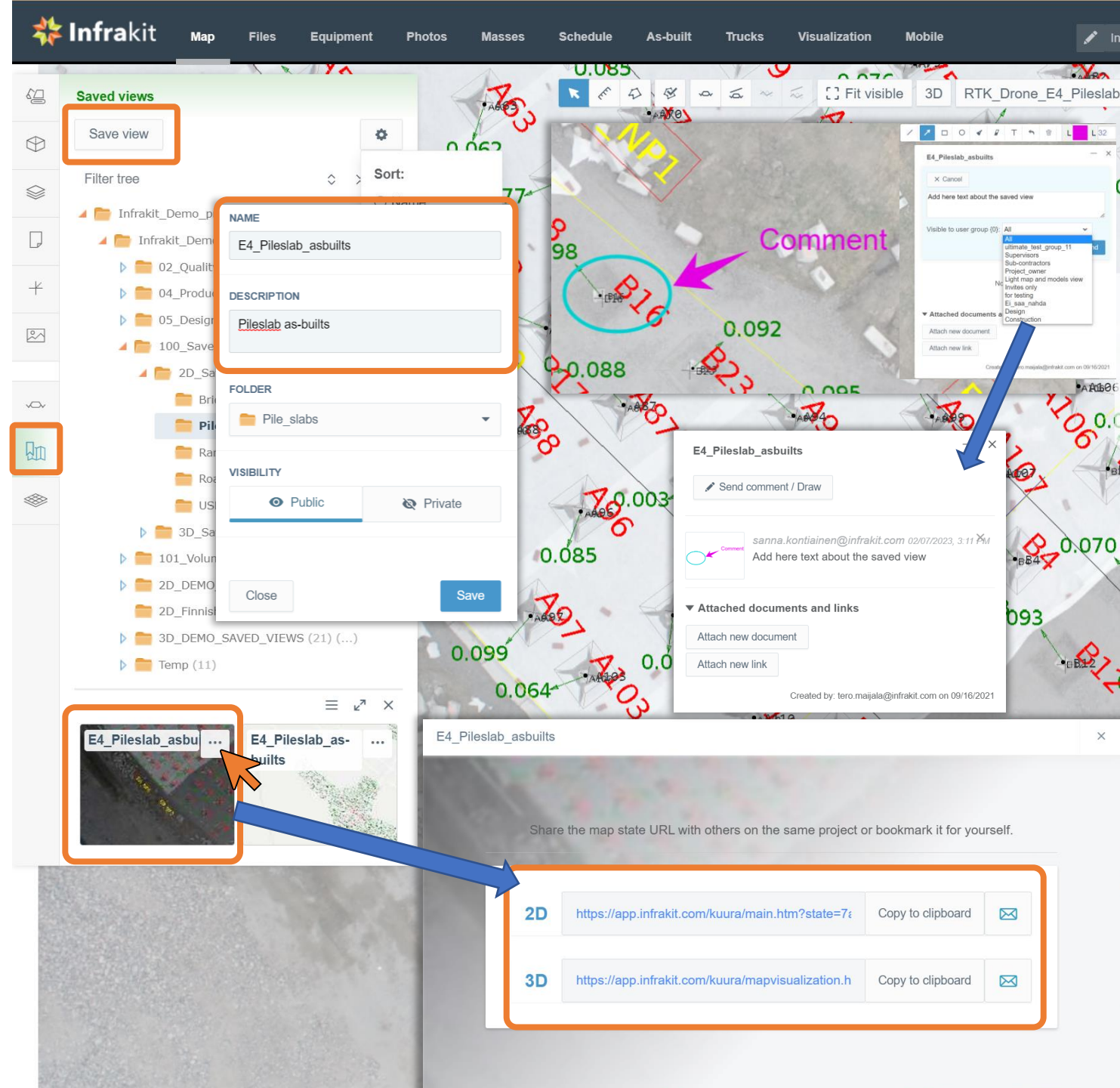
- If you want to draw on the view, click on the preview icon of the created view and in the dialog that opens you will find "Send a comment / Draw" → click
- The drawing tools will open, choose a color and a drawing tool, you can also choose a text tool and comment on the map
- Write comments on the view (see screenshot)

## Sharing a saved view as a link

- Click the button in the upper right corner of the view preview icon and select "Share"
- Select the link you want, whether it is a 2D view (Map page) or a 3D view (Visualization)

**Tip1 :** Add a link to the saved view, which takes you for example to the Infrakit file folder (e.g. the folder containing the quality documents and files related to the view)

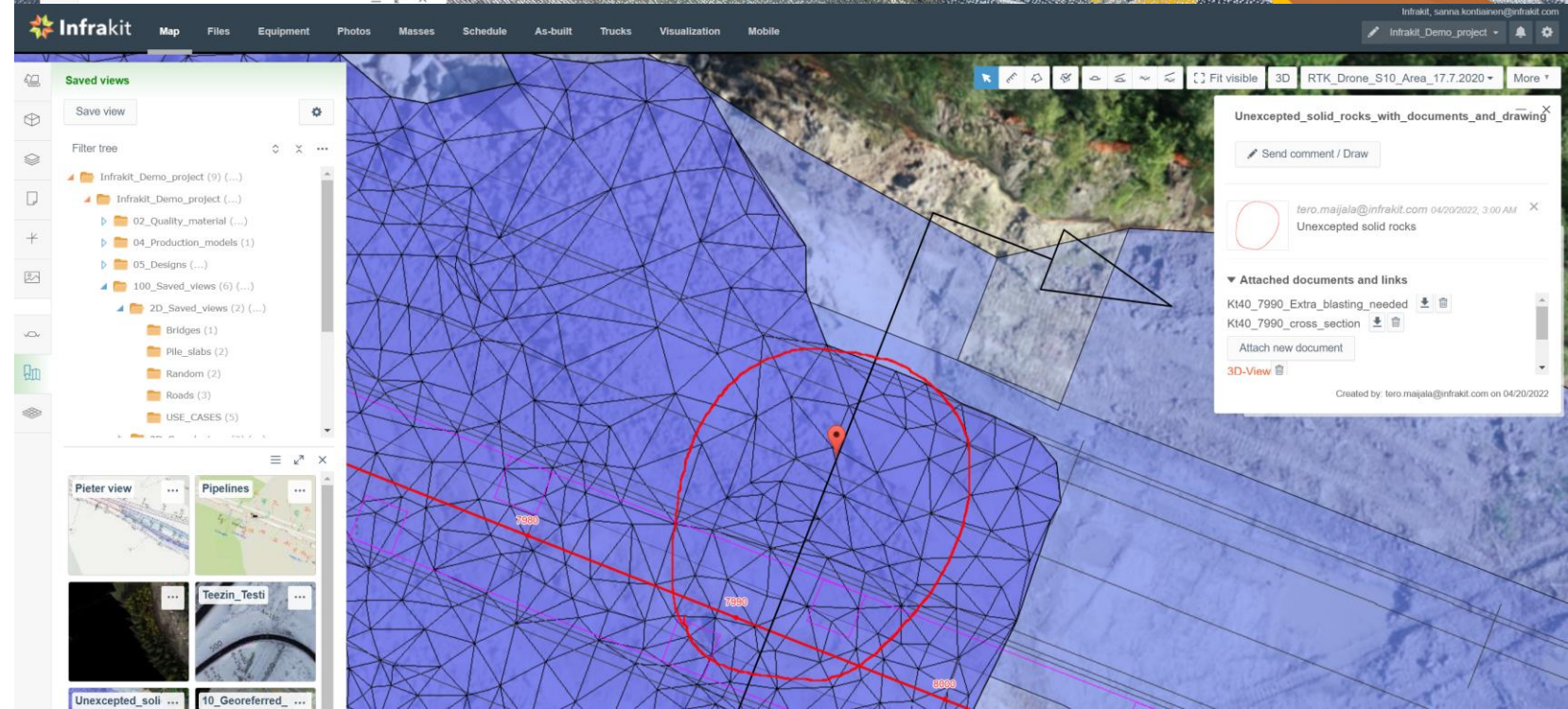
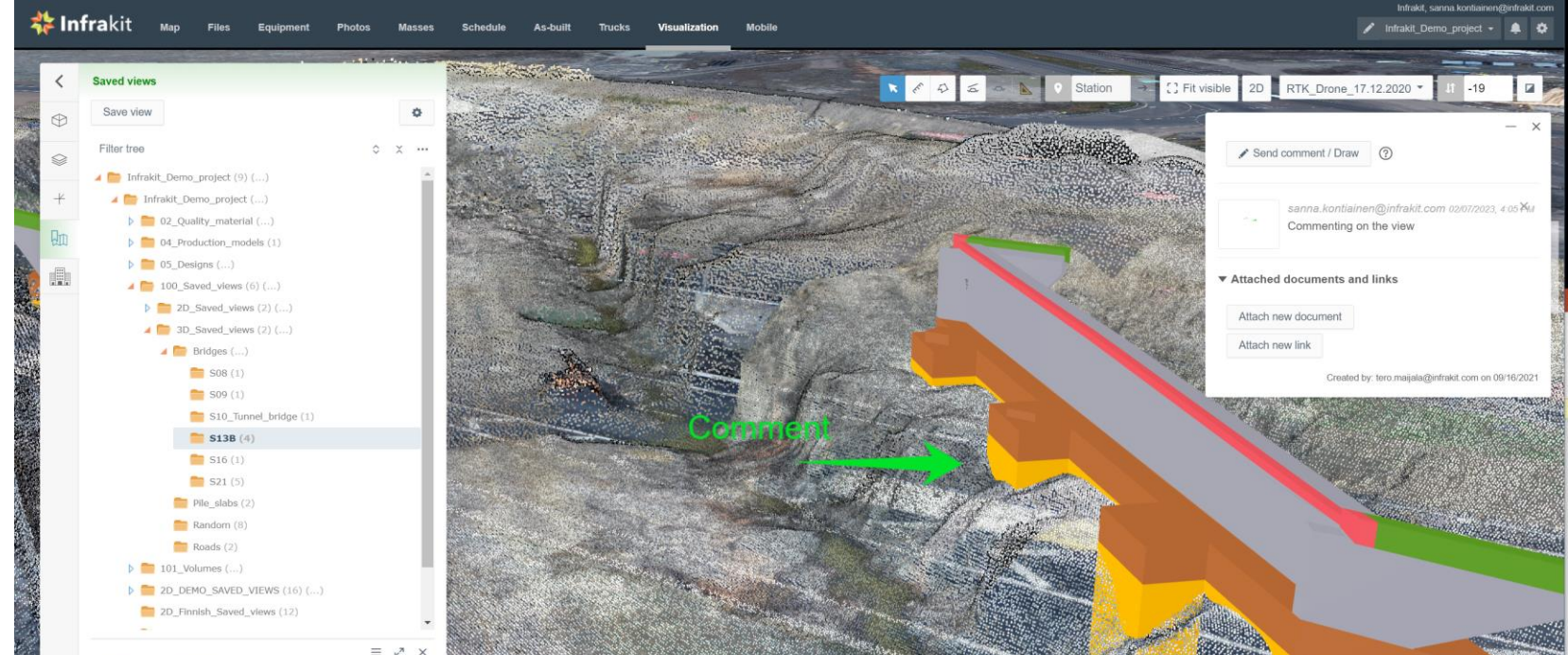
**Tip2:** Share the saved view to workgroups, the owner, the supervisor, the view also works in a mobile browser.





# Saved views

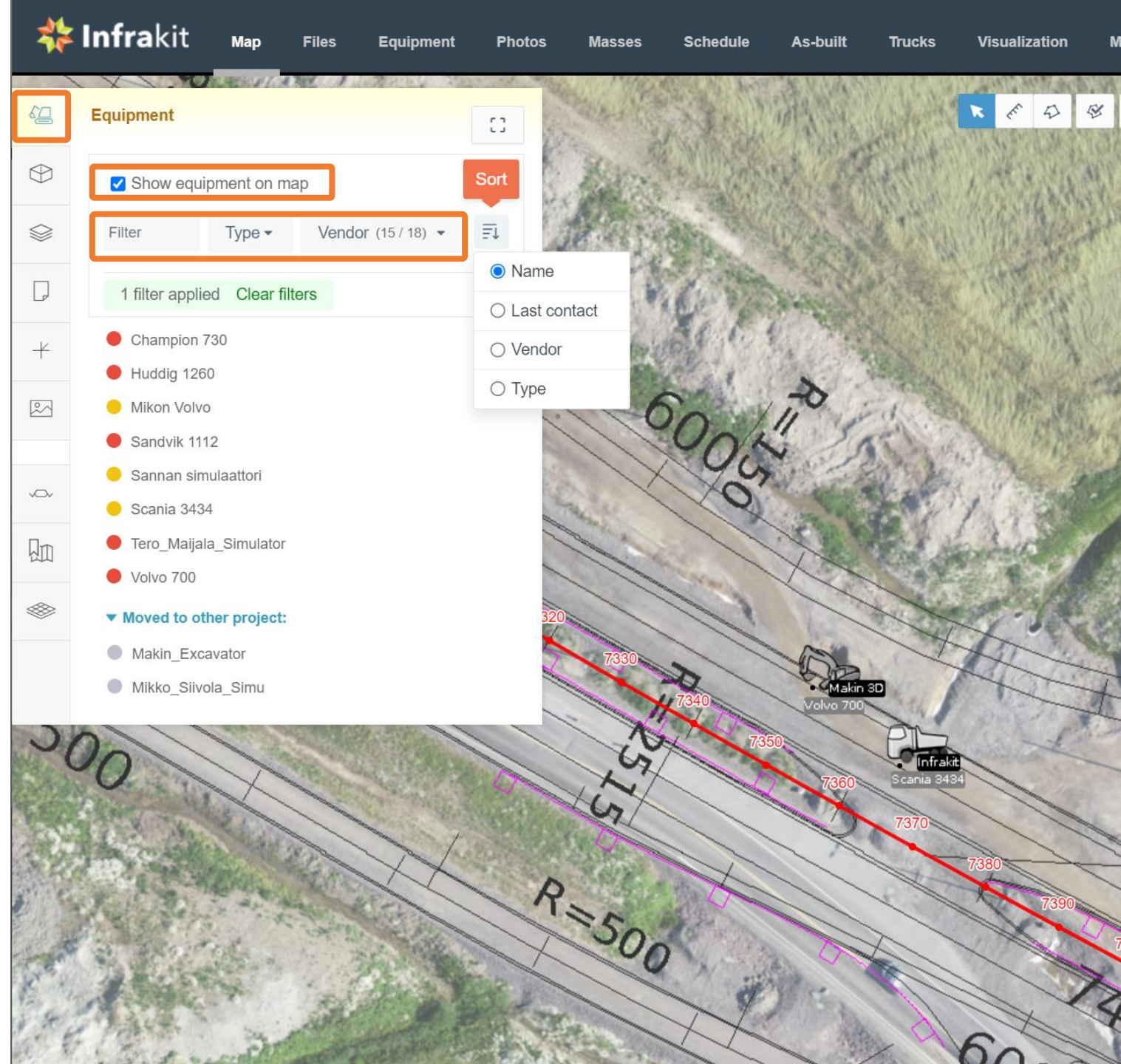
- Saved views work on both 2D ( Map ) and 3D ( Visualization ) pages with same logic
  - Choose the files you want and save view
  - Share saved view if you want





# Equipment

- On the Equipment tab, you can see an overview of the equipment connected to the project
- You can choose whether the equipment are displayed on the map
- You can filter the equipment based on name, type and vendor
- You can sort the equipment listing by name, last connection, vendor or type
- Color explanations:
  - The device is online and the models are up to date
  - The device is offline /passive for more than 15 minutes, the models are up to date
  - The device models have not been updated or there is another problem, e.g. a connection problem
  - The device is set "on hold" and the assignment remain ready when the device returns





# 2D Cross Section

## Cross-section from the alignment



You can get a cross-section from any point on the alignment. The cross-section is always perpendicular to the alignment.

You need an alignment and it should be selected as active from the bottom left of the map view.

## Free cross-section



You can get a cross-section from any point by first selecting the left and then the right edge of the cross-section

You don't need a alignment.

By default, the models and vector files visible on the map are drawn to the cross section (vector files are generally at 0 level)

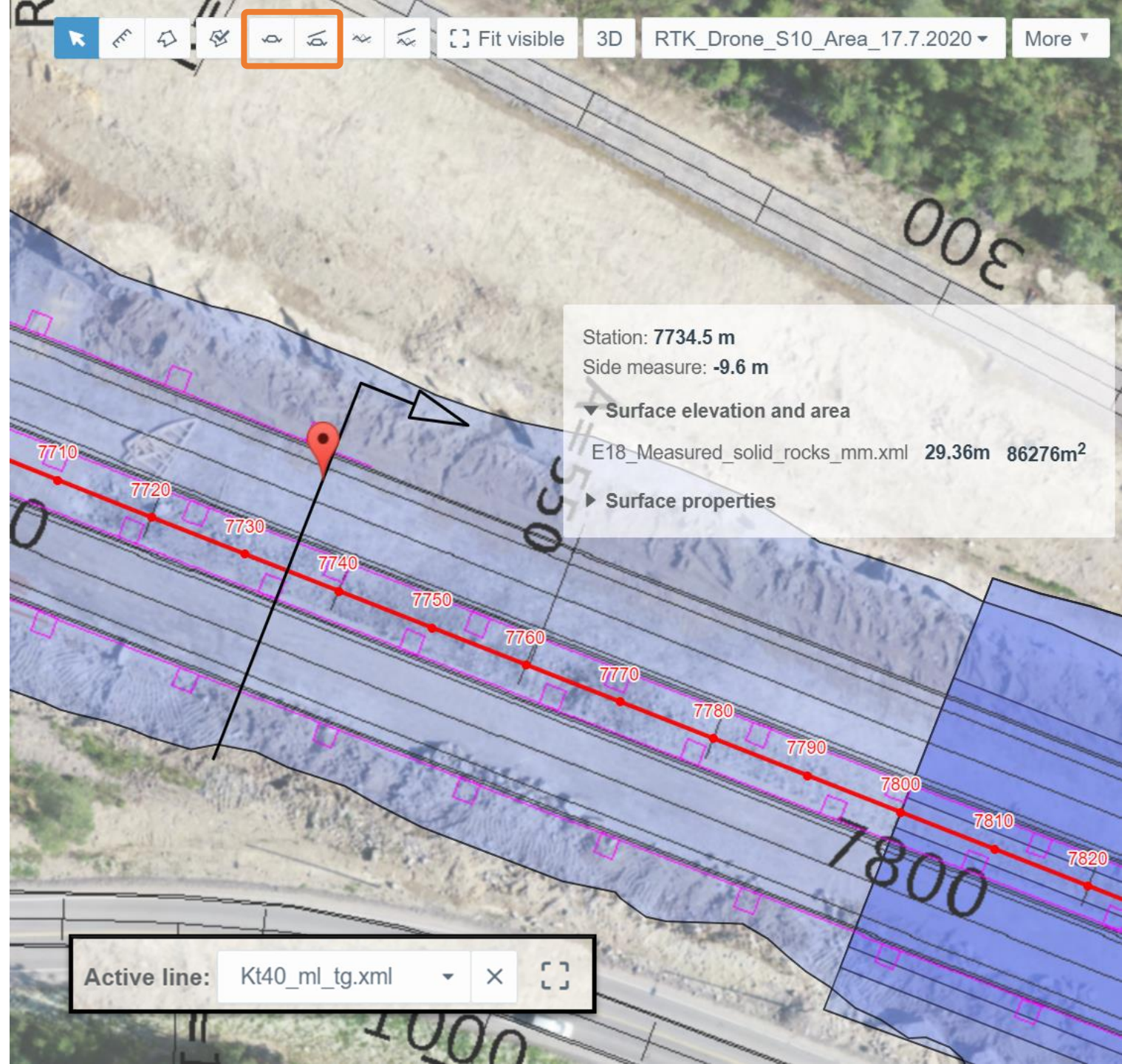
If models or vector data are not selected, all models located at that point are drawn in the cross section.

The 2D Cross Section window opens automatically after selecting the drawing point of the cross section

**Tip1** : You can activate the alignment by pressing the first mouse button over the red line

**Tip2** : You can draw a cross-section by pressing the right mouse button on the map and selecting from the menu that opens

Draw cross section



# Cross section window

In the cross-section window, you can view the models of the selected station as a 2D cross-section

Note the type of cross-section  
perpendicular to the line of measure or  
free cross-section

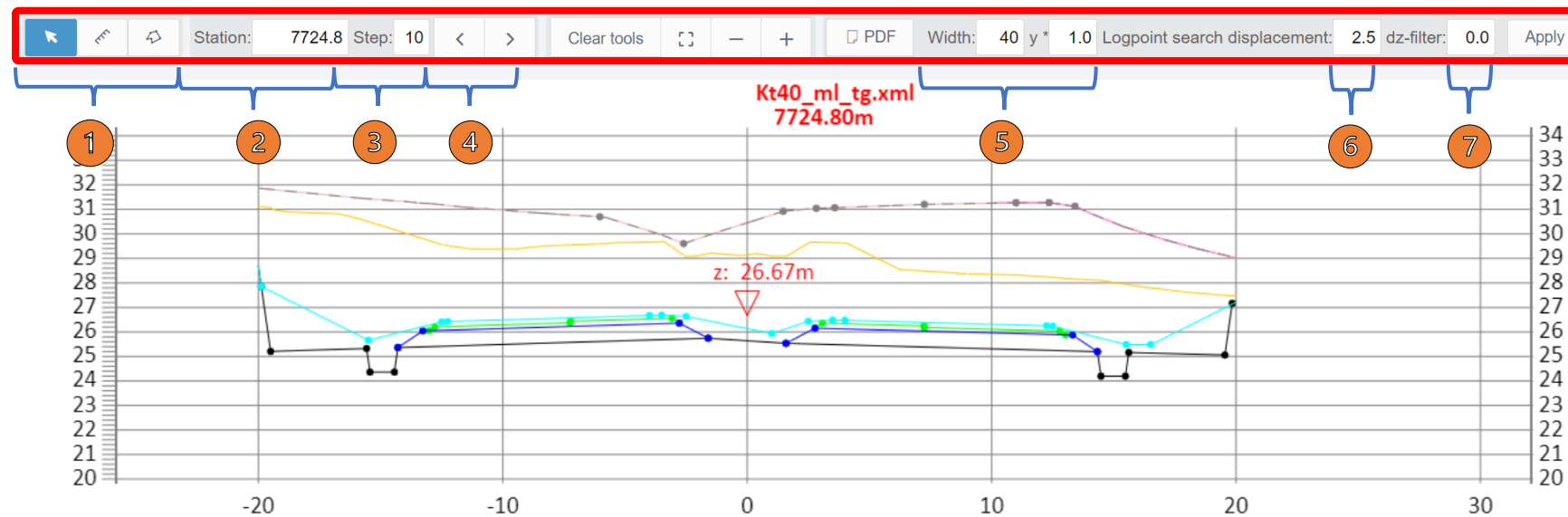
At the top of the page you will find the tools:

1. Measuring tools  
Distance  
Surface area
2. Set the station
3. Set the step interval (e.g. 10 = 10m)
4. Forward and backward scrolling buttons
5. Sets the cross-section width and height factor
6. Search distance for as-built points (forward and backward, m)
7. dZ of the height filter of as-built points (the value beyond which as-built points are not shown in the cross-section)

At the bottom, you can see a cross-section of the materials shown as a list

The color of the text is the same as the surface visible in the cross-section

You can hide models individually by removing the check mark in front of the name



☐ ☐ ☐

- ☒ Kt40\_Ayp\_7500-7800\_201200\_mm.xml (Surface code: 201200)
- ☒ Kt40\_Sitk\_7500-7800\_213100\_mm.xml (Surface code: 213100)
- ☒ Kt40\_Jak\_7500-7800\_212100\_mm.xml (Surface code: 212100)
- ☒ Kt40\_Yyp\_7500-7800\_201000\_mm.xml (Surface code: 201000)
- ☒ E18\_Measured\_solid\_rocks\_mm.xml (Surface code: 2)
- ☒ J4\_Lahtotieto\_Maastomalli\_mm.xml (Surface code: 1)
- ☒ KT40\_mmalli\_Gk23\_N2000\_29112017\_rev3.mm.xml (Surface code: 1)
- ☒ Kt40\_Maastomalli\_maaralaskenta\_mm.xml

☐ Turns the pipe symbols on/off in the cross-section (Pipenetworks xml file)

☐ Switch as-built points on/off in the cross-section By default all on

☐ Switch surface models on/off in the cross-section By default all on



# Long section

Long section along the entire length of the alignment



You get a long section along the entire length of the alignment

You need an alignment and the alignment should be selected as active

Bounded long section between stations you choose



You can choose the start and end station from the active line, the long section is shown between these stations

You need an alignment and the alignment should be selected as active

By default, the models you have selected to the map are drawn to the long section

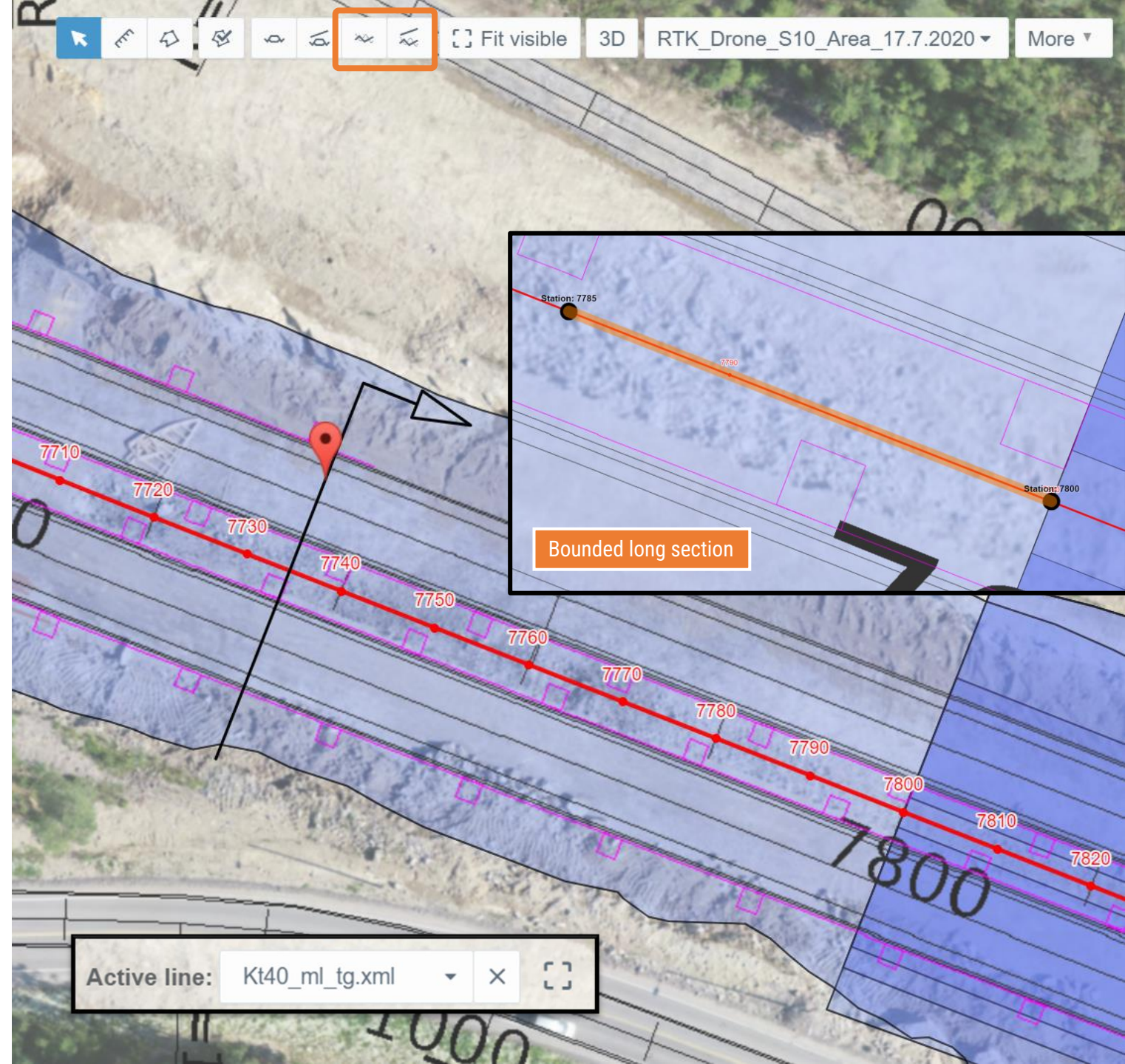
If no model is selected, all models located in the area of the long section are drawn to the long section window.

The long section window opens automatically after clicking the icon.

**Tip1** : You can activate the alignment by pressing the first mouse button over the red line

**Tip2** : You can draw a longitudinal section by pressing the right mouse button on the map and selecting from the menu that opens

 Draw long section



# Long section window

In the long section window, you can view the models of the alignment you have chosen (= usually the center line of the street, road) as a long section

The long section draws the elevation plane of the surfaces at alignment

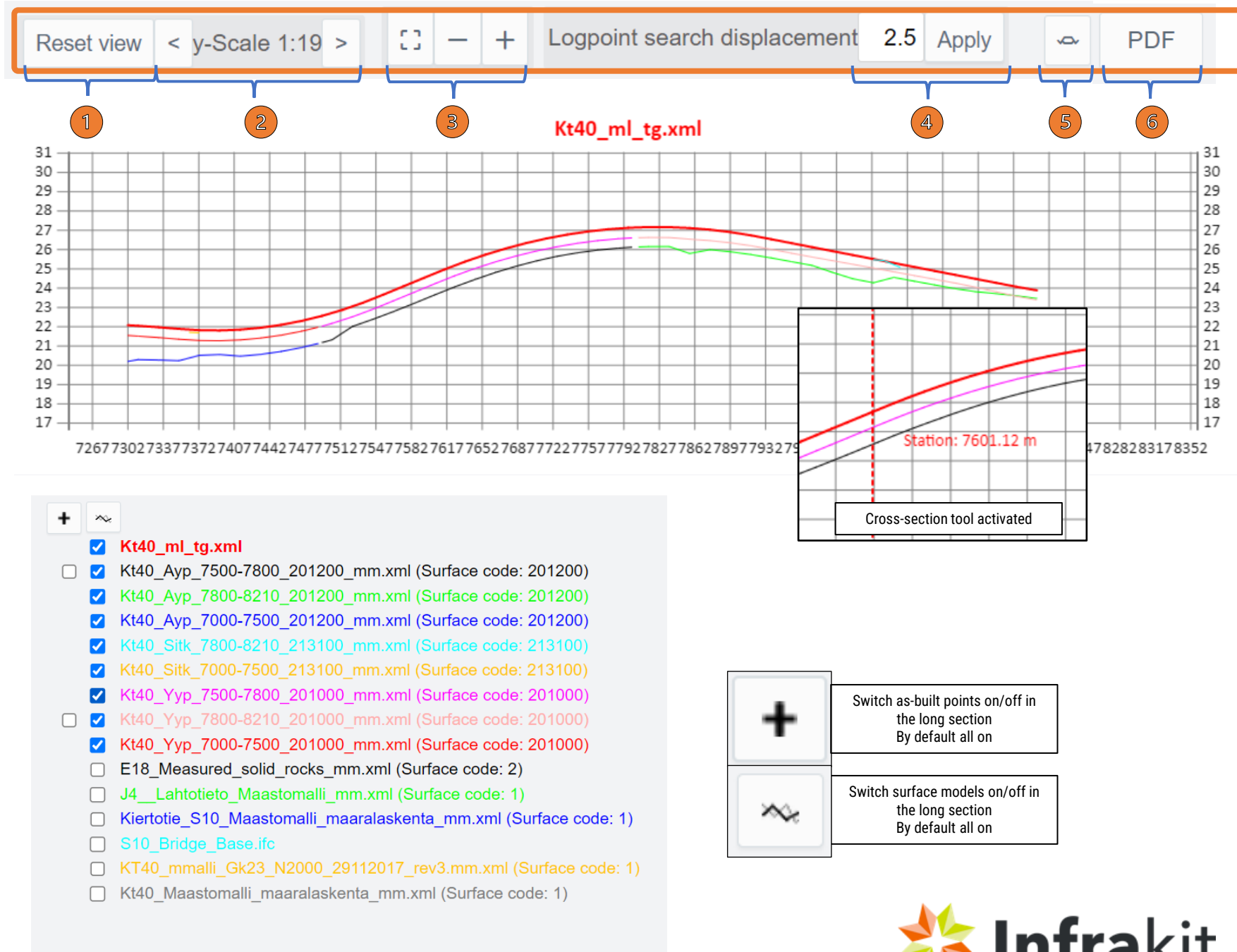
At the top of the page you will find the tools:

1. Returns the view to the moment the window was opened
2. Sets the height factor of the long section
3. Zoom buttons  
Adjust the view  
Zoom out (-) / Zoom in (+)
4. The search distance of the objects from the long section to the lateral direction (m)
5. Cross-section tool, which can be pressed to activate the possibility to search for the desired stake point from the long section
6. PDF button – Prints the longitudinal section in PDF format

At the bottom, you can see a list of the models shown in the long section

The color of the text is the same as the surface visible in the long section

You can hide models/surfaces individually by removing the checkmark in front of the model





# Part 2


## Features and functions

- 16. Files page
- 17. As-built page
  - Adding as-built points
  - Filtering as-built points
  - Editing as-built points
  - Information of as-built points
  - Downloading as-built points
- 18. Photos page
- 19. Equipment page
  - Usage statistics
  - Assignments
  - Accuracy
- 20. Visualization page (3D)




# Files page


1. On the Files page, you can manage and view the project's files



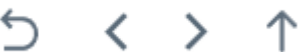
Create new folder or subfolder





Add file to chosen folder

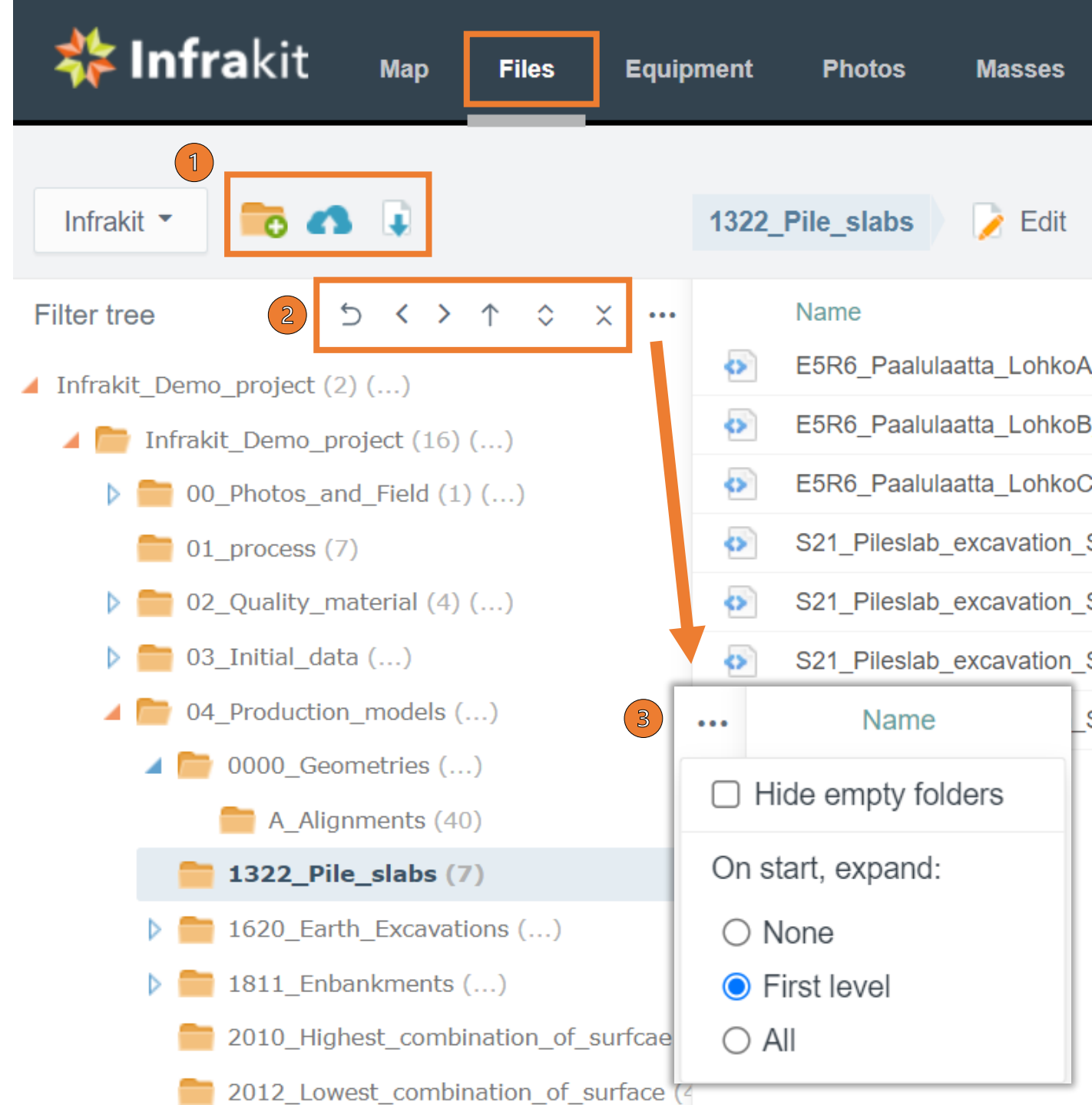


Download folders and files summary excel

2.  Buttons to move in directory

  First opens all folders and subfolders.  
Second reduce all subfolders.

3. Behind the three dots is a button that can be used to hide all empty folders. From there you can also choose whether the files page automatically opens all subfolders or just the title level.

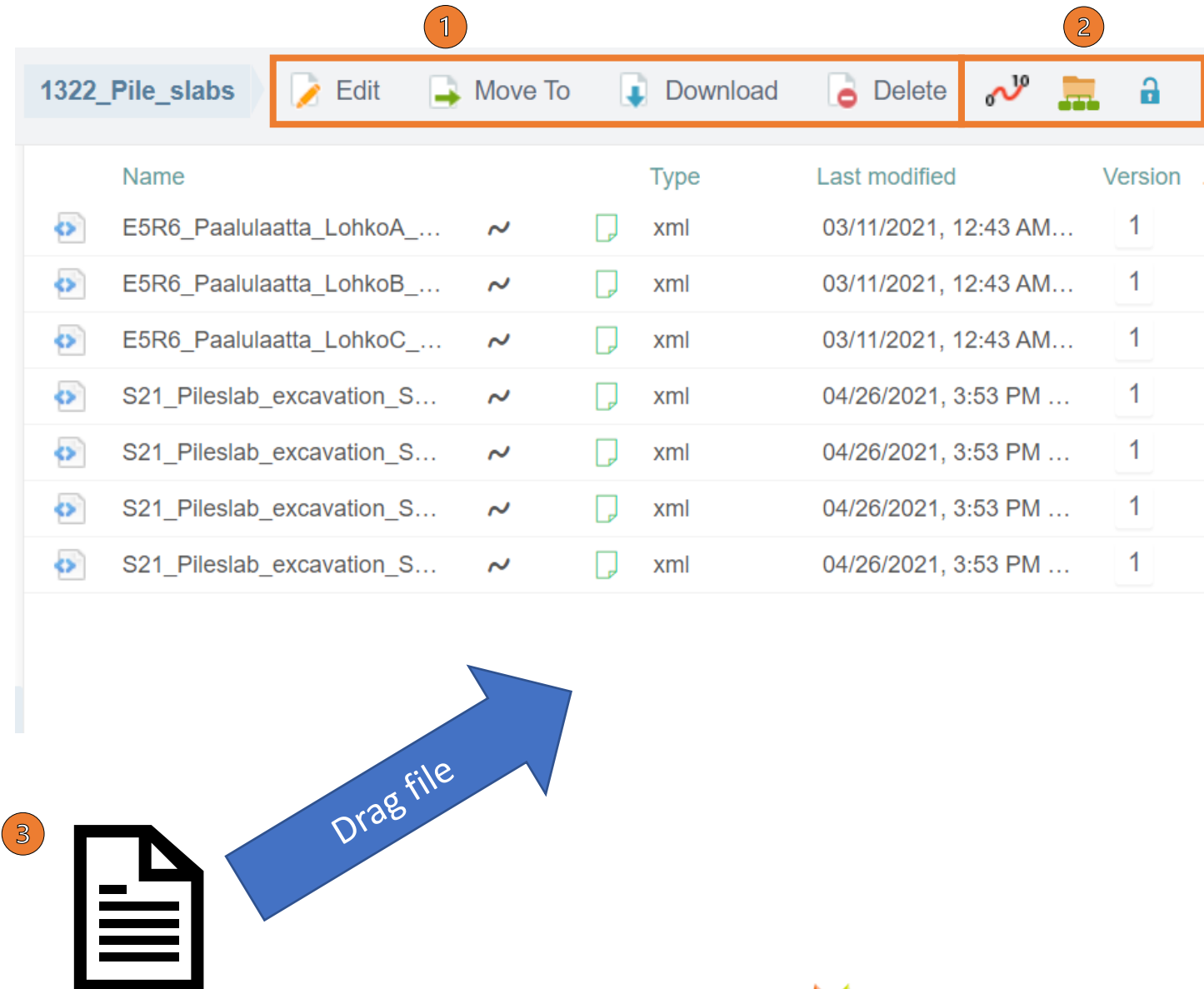


The screenshot shows the Infrakit Files page. The top navigation bar includes 'Infrakit', 'Map', 'Files' (highlighted), 'Equipment', 'Photos', and 'Masses'. Below the navigation bar, there are three icons: a folder with a plus sign (1), a folder with a cloud and plus sign, and a download icon. The main content area shows a 'Filter tree' on the left and a list of files on the right. The 'Filter tree' contains a hierarchy of folders, with '1322\_Pile\_slabs (7)' selected. The file list on the right shows files with names like 'E5R6\_Paalulaatta\_LohkoA' and 'S21\_Pileslab\_excavation\_S'. An orange arrow points from the three dots menu in the file list to a dropdown menu that appears. This menu has a 'Name' header, a 'Hide empty folders' checkbox, and a section 'On start, expand:' with three radio button options: 'None', 'First level' (selected), and 'All'.



# Files page

1. You can edit, move, download and delete the selected folder
2. The selected folder can be attached to an alignment, so that the future as-built points for this model will automatically be attached to alignment, the stakenumber and the offset.  
You can set properties for the folder or limit its visibility to the groups defined in the project settings
3. You can upload entire directory or files by dragging.



# Files page

## Adding a new version

A new version of the file with the same name can be added by dragging the new file into the window where the old version is.






Infrakit automatically creates a new version of the file.

New version of the file with different name is added as follows:

1. Click the file name
2. Click the pen
3. Select the new file

The file name can also be changed instead of selecting a new file.



1

Name	
	<u>E4R1_ml_tg.xml</u>
	E4R2_ml_tg.xml
	E4R3_ml_tg.xml
	E4R4_ml_tg.xml
	E5R1_ml_tg.xml

E4R1\_ml\_tg.xml



2

Version	1
Size	5.67 kB
Last modified	06/07/2021, 2:14 PM (tero.maijala@infrakit.com)
Description	
File link	 Download <span>Copy to clipboard</span>
File contents	1 alignments <span>Reparse</span>

LAYER TYPE	NAME	CODE	SURFACE CODE	TERRAIN CODE
ALIGNMENT	E4R1_RS - ml			

3

E4R1\_ml\_tg.xml

Choose File No file chosen

× ✓ Save



# Files page

After clicking on the file name, you can also:

1. Write description for the file  
For example additional information about the file
2. Download the file
3. Copy the file link to the clipboard
4. Reparse the file  
The file is read into the system again

E4R1\_ml\_tg.xml

Version1

Size5.67 kB

Last modified06/07/2021, 2:14 PM (tero.maijala@infrakit.com)

Description

File link

File contents

1 alignments

Download

Copy to clipboard

Reparse

LAYER TYPE	NAME	CODE	SURFACE CODE	TERRAIN CODE
ALIGNMENT	E4R1_RS - ml			

INFO - landxml.units | metric | 1 | 1 | 1 | 1

INFO - application | 3D-Win | 6.5.1.9

INFO - landxml.alignment | E4R1\_RS - ml

# Files page

The version history is managed behind the clock icon

1. Click on the line of the file and it will turn gray
2. Click on the clock icon
3. Set active version
4. Previous versions can also be downloaded

The screenshot shows the Infrakit Files page. At the top, there's a toolbar with icons for Move To, Download, Delete, and a clock icon (labeled 2). Below the toolbar is a table of files:

Name	Type	Last modified	Version	Size
E5R4_RS_ml.xml	xml	04/27/2021, 7:58 AM...	1	5.42 kB
E5R5_ml_tg.xml	xml	11/23/2020, 10:27 A...	2	8.31 kB
E5R6_ML.xml	xml	03/11/2021, 12:41 A...	1	6.23 kB
E5R8_ml_tg.xml	xml	11/23/2020, 10:26 A...	1	6.5 kB

An orange arrow points from the clock icon in the toolbar to the Version History modal. The modal shows the version history for the selected file, E5R5\_ml\_tg.xml (8 KB). It lists two versions:








- Version: 2 (Active version) - Last modified: 11/23/2020, 10:27 AM (tero.maijala@infrakit.com)
- Version: 1 - Last modified: 11/23/2020, 10:27 AM (tero.maijala@infrakit.com)

The modal includes a 'Set As Active Version' button (labeled 3) and a download icon for the previous version (labeled 4). The file name in the modal is E5R5\_ml\_tg (1).xml (8 KB).




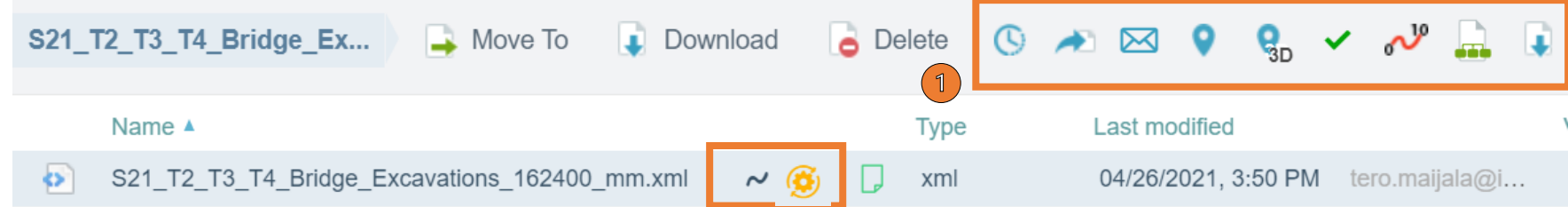
# Files page

## 1. File Tools:

-  Create shortcut of the file to another folder
-  Email another user a link to the file
-  View the file on a map or in a 3D view (opens a new tab)
-  Approve the file
-  Attach alignment to the file
-  Set file properties
-  Download the InfraModel surface model inspection report

## 2. Additional file information:



-  Attached alignment
-  Warning about file parsing error











# Model inspection service

With the help of the service, you can check whether the file that has been downloaded is compliant with Inframodel format.  
Service activated by organization admin.

## Symbols:

-  OK, the model passed the inspection
-  The model did not pass the inspection, serious flaws or errors that might prevent the use of the model during the construction phase

You can download a pdf report on the model inspection by clicking on the document symbol.

Name ▲			Type
	Y7_MVK_162500_mm.xml	~	 xml
	S14_T1-T2_MVK_162500_mm.xml	~	 xml
	M2_MVK_162500_mm.xml	~	 xml
	K2_Mvk_162500_mm.xml	~	 xml



Yhteenveto tarkistetuista osioista

Elementti	Pisteet	Yhteensä	%
1.1 LandXML	5	6	83.33%
1.2 Units	3	3	100.00%
1.3 CoordinateSystem	1	1	100.00%
1.4 Project	6	6	100.00%
1.5 Application	8	9	88.89%
1.6 FeatureDictionary	4	4	100.00%
3.1 Surfaces	217	361	60.11%



# As-built page

From the folder structure on the left side, choose which folder's points you want to view.

(...) after the folder name tells you that there are points in its subfolders, and the number in brackets tells you how many as-built points are in that folder.

You can view all the points by clicking the box of the topmost folder while pressing shift-key.

The screenshot shows the Infrakit web application interface. The top navigation bar includes links for Map, Files, Equipment, Photos, Masses, Schedule, and As-built (which is highlighted with an orange border). On the left, a 'Filter tree' sidebar displays a hierarchical folder structure. The 'Infrakit\_Demo\_project (77) (...)' folder is expanded, showing subfolders like '00\_Photos\_and\_Field (1)', '02\_Quality\_material (...)', '001\_Road\_structures (...)', '2012\_Lowest\_surface (...)', 'K11\_As\_built (89)', 'Deviation\_reports (1)', '03\_Initial\_data', '04\_Production\_models (...)', and 'Temp (108)'. The '2012\_Lowest\_surface (...)' folder is selected, and its subfolder 'K11\_As\_built (89)' is also selected. On the right, a table displays logpoints. The table has columns for ACTIONS, DATE, POINT NUMBER, CODE, and SURFACE CODE. The first four rows of data are visible, showing logpoints for 05/04/2022 at 7:06 AM with point numbers 53, 54, 55, and 56. Each row has a checkbox in the ACTIONS column and a location pin icon. The CODE column shows '2001 (P) (TakyTarke mittaaja)' and the SURFACE CODE column shows '201200'.

Import logpoints









Filter tree

- ☐ Infrakit\_Demo\_project (35) (...)
- ☒ Infrakit\_Demo\_project (77) (...)
  - ☐ 00\_Photos\_and\_Field (1)
  - ☐ 02\_Quality\_material (...)
    - ☐ 001\_Road\_structures (...)
      - ☒ 2012\_Lowest\_surface (...)
        - ☒ K11\_As\_built (89)
        - ☐ Deviation\_reports (1)
      - ☐ 03\_Initial\_data
      - ☐ 04\_Production\_models (...)
      - ☐ Temp (108)

Add filter

Showing all 89 logpoints | Download logpoints | Clear filters

Change...

<input type="checkbox"/>	ACTIONS	DATE	POINT NUMBER	CODE	SURFACE CODE
<input type="checkbox"/>	 	05/04/2022, 7:06 AM	53	2001 (P) (TakyTarke mittaaja)	201200
<input type="checkbox"/>	 	05/04/2022, 7:06 AM	54	2001 (P) (TakyTarke mittaaja)	201200
<input type="checkbox"/>	 	05/04/2022, 7:06 AM	55	2001 (P) (TakyTarke mittaaja)	201200
<input type="checkbox"/>	 	05/04/2022, 7:06 AM	56	2001 (P) (TakyTarke mittaaja)	201200

# As-built page

From the "Show columns" button at the top, you can choose which properties of the point is shown in the table.

From the bottom, you can scroll through the pages of the table, and change how many points are displayed on the page.

Show columns ▾

X	Y	Z	DZ
6705504.599	23469350.141	22.996	0.000
6705505.201	23469345.957	22.869	-0.000
6705493.865	23469353.389	22.755	0.000
6705494.681	23469348.603	22.901	0.000

Show columns ▾

☒ Actions

☒ Date

☒ Point number

☒ Code

☒ Surface code

☐ Line code

☒ Point name

☒ x

☒ y

☒ z

☒ DZ

☐ Author

☒ Approval stage

☒ Type


☒ Model name

☒ Equipment name

NoneAll

⏮️ ⏪ 1 5 ⏩ ⏭

20 ▾

 **Infrakit**



# Adding as-built points

Add as-built points from the button in the upper left corner. The right folder must be first selected by clicking on the folder name.

Select the file from which you import the points and then select the correct equipment type.

You can choose alignment and model for the as-built points.

Note that the points do not have to be in the same folder as the used model.

The screenshot displays the Infrakit web application interface. The top navigation bar includes the Infrakit logo and links for Map, Files, Equipment, Photos, Masses, Schedule, and As-built. The main content area features a 'Filter tree' on the left with a list of folders. An orange arrow points from the 'Import logpoints' button in the upper left corner to the 'K11\_As\_built' folder in the filter tree. The 'Import logpoints' modal dialog is open, showing options for uploading logpoints in various formats (.gt, .xml, .csv, .geo, .kof, .zip). The 'Folder' field is set to 'K11\_As\_built'. The 'Choose Files' button is highlighted, and the 'Rover gps' radio button is selected under the 'Equipment' section. The 'Alignment' dropdown is set to 'K2\_ml\_tg.xml' and the 'Model' dropdown is set to 'E4R1\_Ayp\_201200\_mm.xml'. The dialog has 'Close' and 'Confirm' buttons at the bottom.

**Import logpoints**

Upload logpoints in .gt, .xml, .csv, .geo, .kof, .zip formats

Folder  
K11\_As\_built

Choose Files No file chosen

☒ Rover gps  
☐ Total station  
☐ Equipment

Alignment  
K2\_ml\_tg.xml

Model  
E4R1\_Ayp\_201200\_mm.xml

Close Confirm

# Filtering as-built points

You can filter as-built points with the "Add filter" button at the top. There is a list of properties that can be used to filter points.

Filtering can be done with many properties at the same time, for example a specific date and surface code.



The number in brackets after the feature indicates the number of points that have that property.

The screenshot displays the Infrakit web application interface. At the top, a dark navigation bar contains the Infrakit logo and several menu items: Map, Files, Equipment, Photos, and Masses. Below this, a light gray header area features an "Import logpoints" button on the left and an "Add filter" button on the right, which is highlighted with an orange rectangular box. The main content area is divided into two panels. The left panel, titled "Filter tree", shows a hierarchical list of project folders: "Infrakit\_Demo\_project (35) (...)", "Infrakit\_Demo\_project (77) (...)", and "00\_Photos\_and\_Field (1)". The right panel displays a list of filterable properties, each with an unchecked checkbox: Date, Point number, Code, Surface code, Line code, Point name, x, y, z, DZ, Model name, Model on equipment, pdop, hdop, vdop, and Type. An orange arrow points from the "Add filter" button in the top header to the "Model name" checkbox in the filter list. Below the filter list, a "Select all" link is visible, followed by a scrollable list of individual point features. Each feature is represented by a checkbox, a file name, and a count in parentheses. Examples include "E4R1\_Yyp\_201000\_mm.xml (2)", "E4R2\_Jak\_212100\_mm.xml (9)", "E5R3\_Ayp\_201200\_mm.xml (1)", "E5R4\_Kiertotie\_Ayp\_201201\_mm.xml (4)", "E5R5\_Ayp\_201200\_mm.xml (10)", "E5R5\_Jak\_212100\_mm.xml (31)", "E5R6\_Paalulaatta\_LohkoA\_Ap\_V2\_132200\_mm.xml (2)", "E5R8\_Jak\_212100\_mm.xml (27)", "E5R8\_Lightpoles\_xy.xml (4)", "K11\_Ayp\_201200\_mm.xml (90)", "K11\_Jak\_212100\_mm.xml (26)", "K5\_J2\_Ayp\_v2\_201200.xml (7)", "K5\_J2\_Yyp\_201000\_mm.xml (3)", "Kt40\_Ayp\_5760-6240\_201200\_mm.xml (1)", "Kt40\_Ayp\_6240-7020\_201200\_mm.xml (8)", "Kt40\_Ayp\_7500-7800\_201200\_mm.xml (83)", "Kt40\_Jak\_6240-7020\_212100\_mm.xml (3)", and "Kt40\_Maastomalli\_maaralaskenta\_mm.xml (2)". At the bottom of this list, "Cancel" and "Apply" buttons are visible.




# Editing as-built points




You can change the properties of the selected points from the Change button. It opens a list of properties that can be edited with the tool. The tool writes new data over the old one.


-  Delete selected points
-  Selected points open on the map page

You can edit several points at once. Select several points at once from the ☒ - box in front of the row

Add filter

Showing all 542 logpoints |  Download logpoints ▾ | Clear

 Change... ▾  

 Change...

Model

Alignment

Equipment

Folder















Code

Surface code

Line code

Point number

Point name

	ACTIONS	DATE ▾ 	POINT NUMBER 	CODE 
<input checked="" type="checkbox"/>	 	01/23/2023, 7:57 AM	1	2032 (P) (RTK-Toteuma kaivukone)
<input checked="" type="checkbox"/>	 	01/18/2023, 4:12 PM		
<input checked="" type="checkbox"/>	 	01/17/2023, 9:34 AM	16	AS_BUILT_PNT
<input checked="" type="checkbox"/>	 	01/17/2023, 9:33 AM	15	AS_BUILT_PNT
<input type="checkbox"/>	 	01/17/2023, 9:33 AM	14	AS_BUILT_PNT









# Information of as-built points



By clicking the location symbol, the point opens on the map page (opens new tab)



The edit history of the point opens by clicking the clock symbol

<input type="checkbox"/>	ACTIONS	DATE	POINT NUMBER	CODE	SURFACE CODE
<input type="checkbox"/>	 	01/17/2023, 9:34 AM	16	AS_BUILT_PNT	201200
<input type="checkbox"/>	 	01/17/2023, 9:33 AM	15	AS_BUILT_PNT	201200
<input type="checkbox"/>	 	01/17/2023, 9:33 AM	14	AS_BUILT_PNT	201200
<input type="checkbox"/>	 	01/17/2023, 9:33 AM	13	AS_BUILT_PNT	201200

Activity history				×
DATE	USERNAME	ACTION	DESCRIPTION	
01/23/2023, 9:53 AM	@infrakit.com	Changed Model	from: - to: E5R6_Paalulaatta_LohkoA_Ap_V2_132200_mm.xml	
01/18/2023, 4:12 PM		Created Logpoint		
				Close



# Downloading as-built points

You can use "Download logpoints" - button to download the as-built points to the computer in desired format. If no point is selected, all points in the table are downloaded. If something is selected, only the selected points are downloaded.

"Generate PDF-report" button can be used to download the as-built report either for all or only selected/filtered points. The report shows how many points there are and how they are within tolerance.

Download logpoints

CSV

GT

InframodelXML

kof

LandXML

Clear filters

Generate PDF-report


Include all project's as-builts

Selected / Filtered as-builts only

Show columns

	SURFACE CODE	POINT NAME	X
K-	212100		6703732.846
kaivukone)			6703744.620
16	AS_BUILT_PNT	201200	6704769.005

Infrakit BIM Services


 **Infrakit**

As-built Report

Infrakit\_Demo\_project

2/8/2023, 2:22:47 PM

Folder / Model	Total logpoints	Inside tolerance [Avg.err / Max.err]	Under tolerance [Avg.err / Max.err]	Over tolerance [Avg.err / Max.err]	No model
PROJECT SUMMARY					
No Filters used. All Project logpoints included.					

 **Infrakit**

# Photos page

Infrakit

Map

Files

Equipment

**Photos**

Masses

Schedule

As-built

Trucks

Visualization

Mobile

Infrakit, sanna.kontinen@infrakit.com

Infrakit\_Demo\_project

Add folder

Add image

Select images

Move selected images to folder

Download selected

Download folder

Download all images (105)

Download images summary (Excel)

Infrakit\_Demo\_project

00\_Photos\_and\_Field

360\_Dronephotos

360\_Fieldphotos

BAUMA\_2022

GIF\_Animations

QA\_Photos

00\_Photos\_and\_Field.jpg

00\_Photos\_and\_Field\_0\_142471,293.jpg

00\_Photos\_and\_Field\_64\_145172,41.jpg

00\_Photos\_and\_Field\_E5R8\_ml\_tg\_8210,34.jpg

0\_JPEG\_20220905\_102515.jpg

0\_JPEG\_20220905\_102719.jpg

0\_JPEG\_20220905\_102934.jpg

16708347708491349288104763844949.jpg

16708348570395735809851936136692.jpg

DJI\_0159.JPG

E4R1\_ml\_tg.xml\_0\_JPEG\_20210922\_143540.jpg

E4R1\_ml\_tg.xml\_0\_JPEG\_20210923\_110100.jpg

E4R1\_ml\_tg.xml\_545,862\_JPEG\_20210928\_110100.jpg

E4R1\_ml\_tg.xml\_545,862\_JPEG\_20211101\_110100.jpg

E4R2\_ml\_tg.xml\_0\_JPEG\_20210922\_102910.jpg

E5R3\_RS\_-\_ml.xml\_1237\_123\_JPEG\_20210922\_102910.jpg

**E5R3\_RS\_-\_ml.xml\_1245\_469\_JPEG\_20210215\_104424.jpg**

E5R6\_ML.xml\_198\_127\_JPEG\_20210212\_090000.jpg

E5R3\_RS\_-\_ml.xml\_1245\_469\_JPEG\_20210215\_104424.jpg

Edit properties

Description: e5r3 skangas


Original Date: 02/15/2021, 12:44 PM

Upload Date: 03/11/2021, 1:57 PM (GMT+02:00)

Creator: tero.maijala@infrakit.com

Attached alignment: E5R3\_RS\_ml.xml

Station: 1245




Photos can be edited, uploaded, moved and downloaded on the Photos page.

Tools for managing photos are on the top of the page. Certain photo's properties can be edited from the top right corner of the selected photo.



# Equipment page

 Infrakit

MapFilesEquipmentPhotosMassesScheduleAs-b

0  
Online


0.0%  
Efficiency

5h  
Work hours


OVERVIEW


EFFICIENCY

USAGE STATISTICS



Filter
































ACTIONS

VENDOR

TYPE

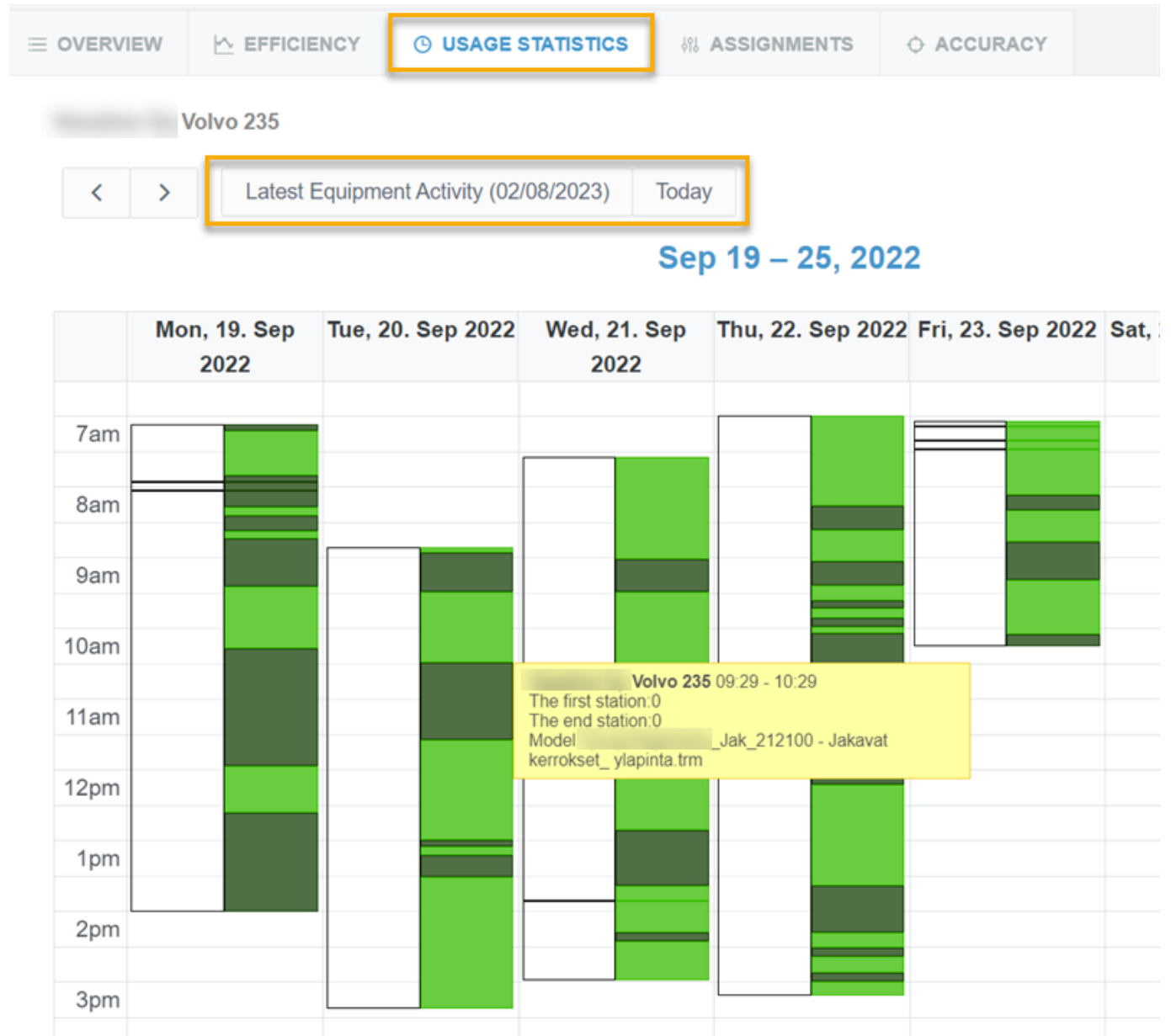
STATION

<div><div></div><div>Champion 730</div></div> <div><div>2</div><div></div><div><div></div></div></div> <div><div>Trimble Earthworks</div><div>Grader</div><div>50.71</div></div>
<div><div></div><div>Huddig 1260</div></div> <div><div></div><div><div></div></div></div> <div><div>DigPilot</div><div>Backhoe</div><div>88.14</div></div>
<div><div></div><div>Infrakit Demo Machine 1</div></div> <div><div>3</div><div></div><div><div></div></div></div> <div><div>Unicontrol</div><div>Excavator</div><div>154.23</div></div>
<div><div></div><div>Infrakit Demo Machine 1 MSI</div></div> <div><div></div><div><div></div></div></div> <div><div>Unicontrol</div><div>Unknown</div><div>154.23</div></div>
<div><div></div><div>Jakob</div></div> <div><div></div><div><div></div></div></div> <div><div>Unicontrol</div><div>Unknown</div><div>0</div></div>
<div><div></div><div>Makin_Excavator</div></div> <div><div></div><div><div></div></div></div> <div><div>Makin 3D</div><div>Excavator</div><div>0</div></div>

- 1  Online
- 1  Offline
-  Not in the project
-  Not synced
- 2  The machine's last accuracy calibration was over 2 weeks ago
- 3  Organization admin can access the Equipment settings
-  Downloading the machine's as-built points from a certain time period
-  Link to Novatron Xsite manage

# Usage statistics

- The usage statistics tab of the equipment page allows you see each machines workin statistics
- Select equipment from the list on the left, and the usage statistics opens in the calendar
- By clicking on the green bar, you can see which model the machine has been working on at that time
- Light green means that the machine has moved at that time, dark green means that the machine has not been moving
- Weeks can be changed with the arrows at the top
- The "Last connection" and "Today" buttons allow you to jump directly to the day in question





## Map

## Files

## Equipment

## Photos

## Masses

## Schedule

### As-built

## Trucks

## Visualization

## Mobile

From the three points, you can assign it to different equipments or delete it.

# Equipment accuracy

1. The equipment accuracy tab shows the accuracy logpoints measured by the machine, and they can be also approved here.

2. The machine accuracy logpoints can also be entered manually.

The coordinates measured by the machine are entered in the "Measured" column.

The coordinates measured by the surveyor are entered in the "Reference" column.

3. In the settings, you can edit the tolerances of the project and choose whether the coordinates of the measured point are showed.

OVERVIEWEFFICIENCYUSAGE STATISTICSASSIGNMENTSACCURACY

P.Salonen Doosan 235 iCON3D

MeasuredReferenceDelta

N: 0N: 0Dn: 0.000

E: 0E: 0De: 0.000

Z: 0Z: 0Dz: 0.000

Distance: 0.000

Code:

Comment:

2

Add point

3

Edit project tolerance

Show coordinates

▼ Suggested points

CODE ↑↓	MEASURED	REFERENCE	DELTA	DISTANCE ↑↓	DATE ↓↑	
9999	Logpoint: 22082510 🔍	KnownPoint: 1	dn: 0.028 de: 0.011 dz: 0.007	0.0309	09/07/2021, 2:44 PM	<div><div>1</div><div>✓ Approve</div><div>×</div></div>

▼ Approved points

CODE ↑↓	MEASURED	REFERENCE	DELTA	DISTANCE ↑↓	MEASURED DATE	APPROVAL DATE	SOURCE	COMMENT
	Manual	Manual	dn: 0.046 de: 0.026 dz: 0.005	0.0531		02/25/2022, 12:16 PM	taneli.laine@hel.fi	

# Visualization (3D)

All models in Infrakit can be viewed in 3D view

## Supported formats

- ✓ IFC, Pipenetworks (XML), triangular surface models (XML, DWG, DXF...)
- ✓ Always have the projects models in right coordinate and height systems for visualization of all project related models **in one single view**



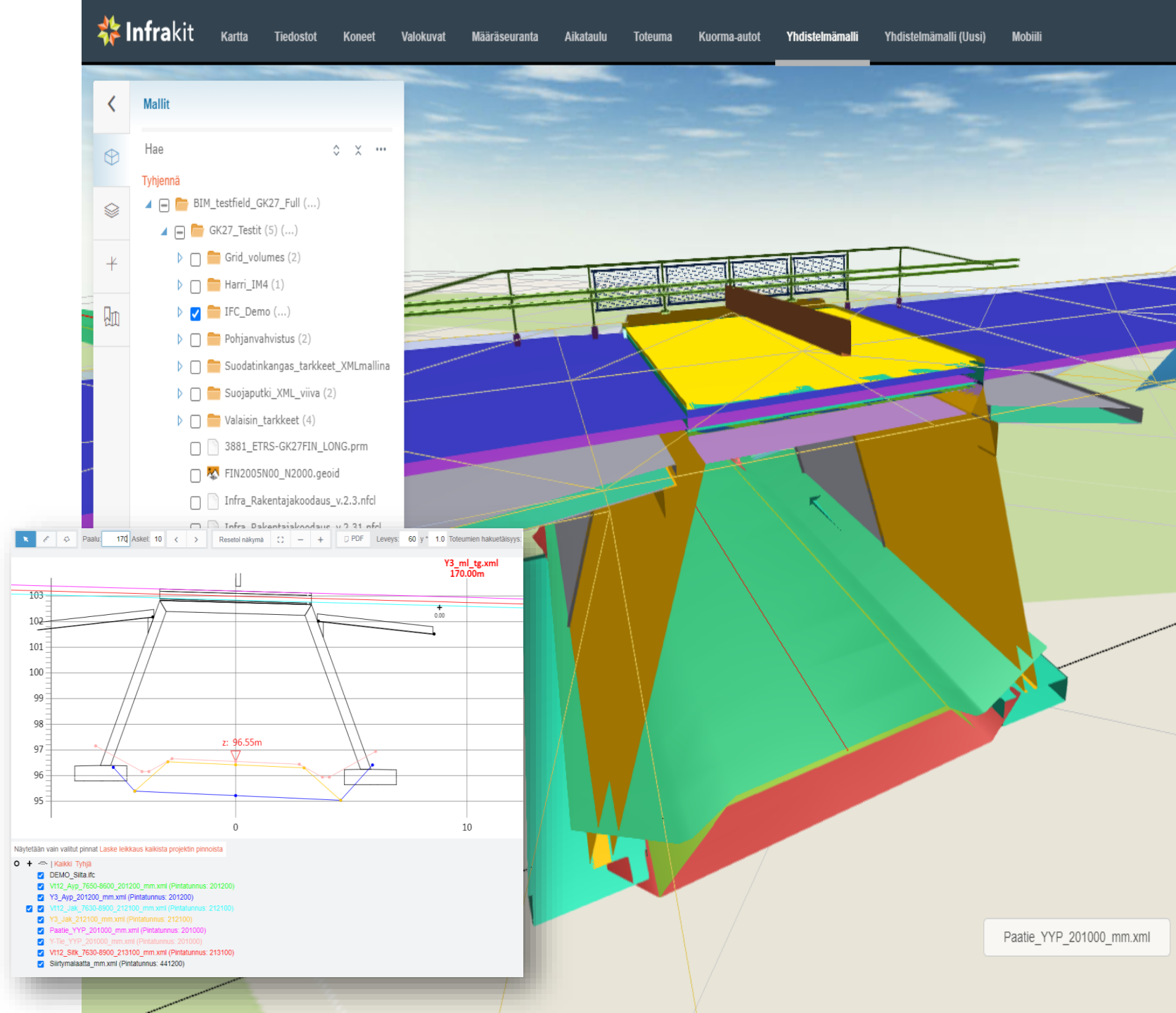


# Visualization (3D)

All models in Infrakit can be viewed in 3D view

## Supported formats

- ✓ IFC, PipenetWorks (XML), triangular surface models (XML, DWG, DXF...)
- ✓ Always have the projects models in right coordinate and height systems for visualization of all project related models **in one single view**



Infrakit support:  
[support@infrakit.com](mailto:support@infrakit.com)

