How to use WebALP

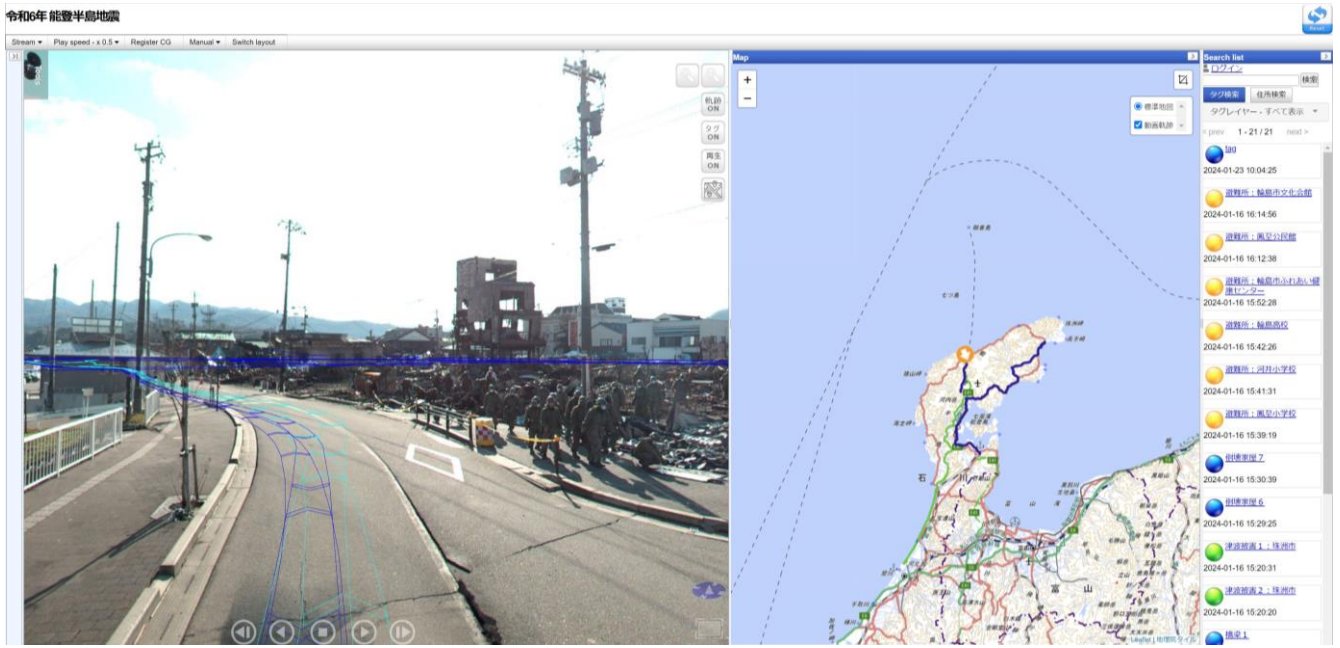
Overview

Due to the Noto Peninsula earthquake in Reiwa 6,
I would like to express my deepest condolences to those who lost their lives, their families, relatives, and related parties, and my heartfelt sympathy to all those affected by the disaster.
We are still anxious, but we pray for the earliest possible recovery and reconstruction of the affected areas.

January 6, 2024 Iwane Research Institute, Inc.

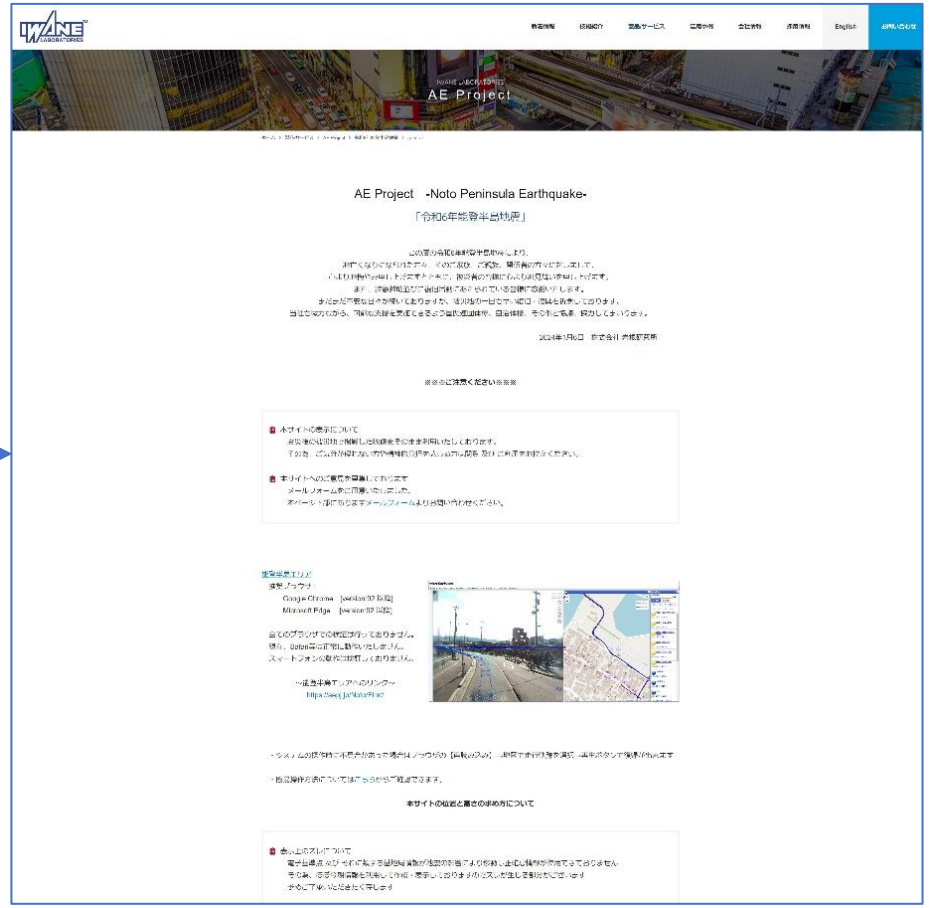
※ Note 1 ※

If there is a problem with the operation or if you feel that the operation is slow (heavy)
Press the Reset button in the upper right corner of the screen.

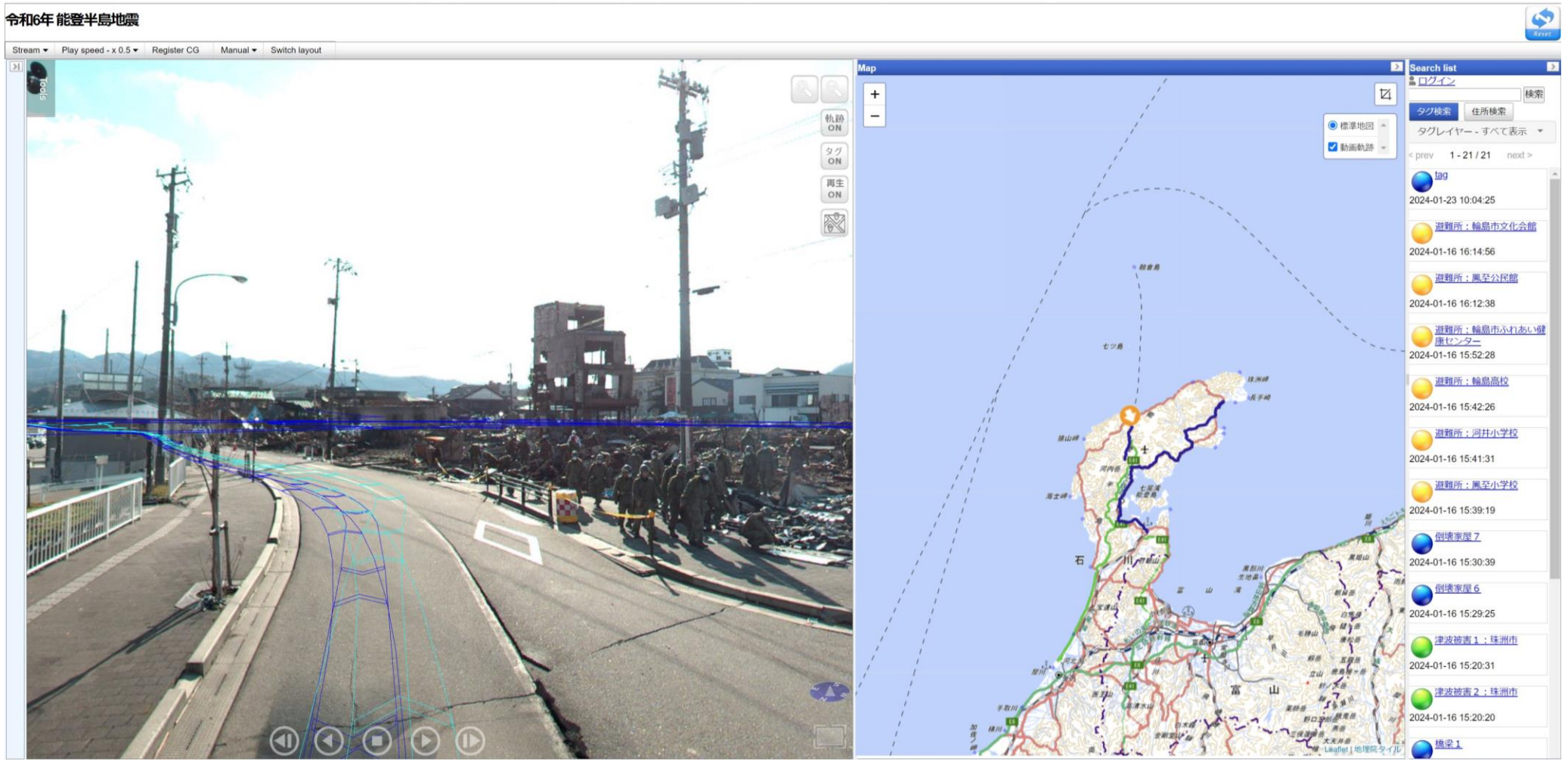


※ Note 2 ※

Due to content updates, function additions, and other circumstances
The URL of the site may be changed.
Therefore, register your favorites (bookmarks, etc.)
When it is on the top page of the iwane.com
Thank you.



Initial display screen

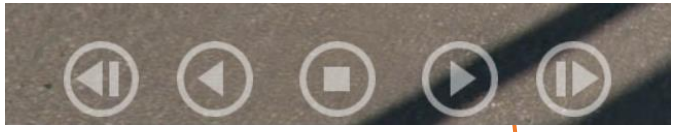


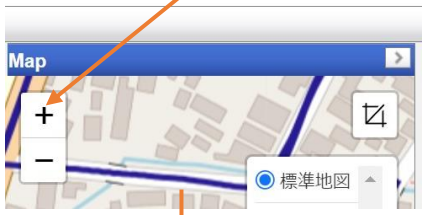
How do I 1

Map zooming in and out
It can also be operated with the mouse

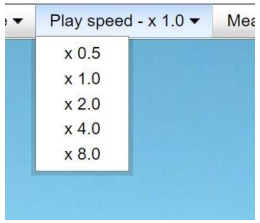
Moving the position of an image from the map
Click on the trajectory with the mouse

Go back one frame, play backward, stop, play, advance one frame

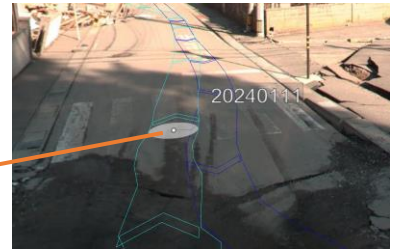




TagsJump
Click on the tag



動画再生速度変更



Date of shooting display
Move the mouse cursor to the trajectory

Click to image
Full screen

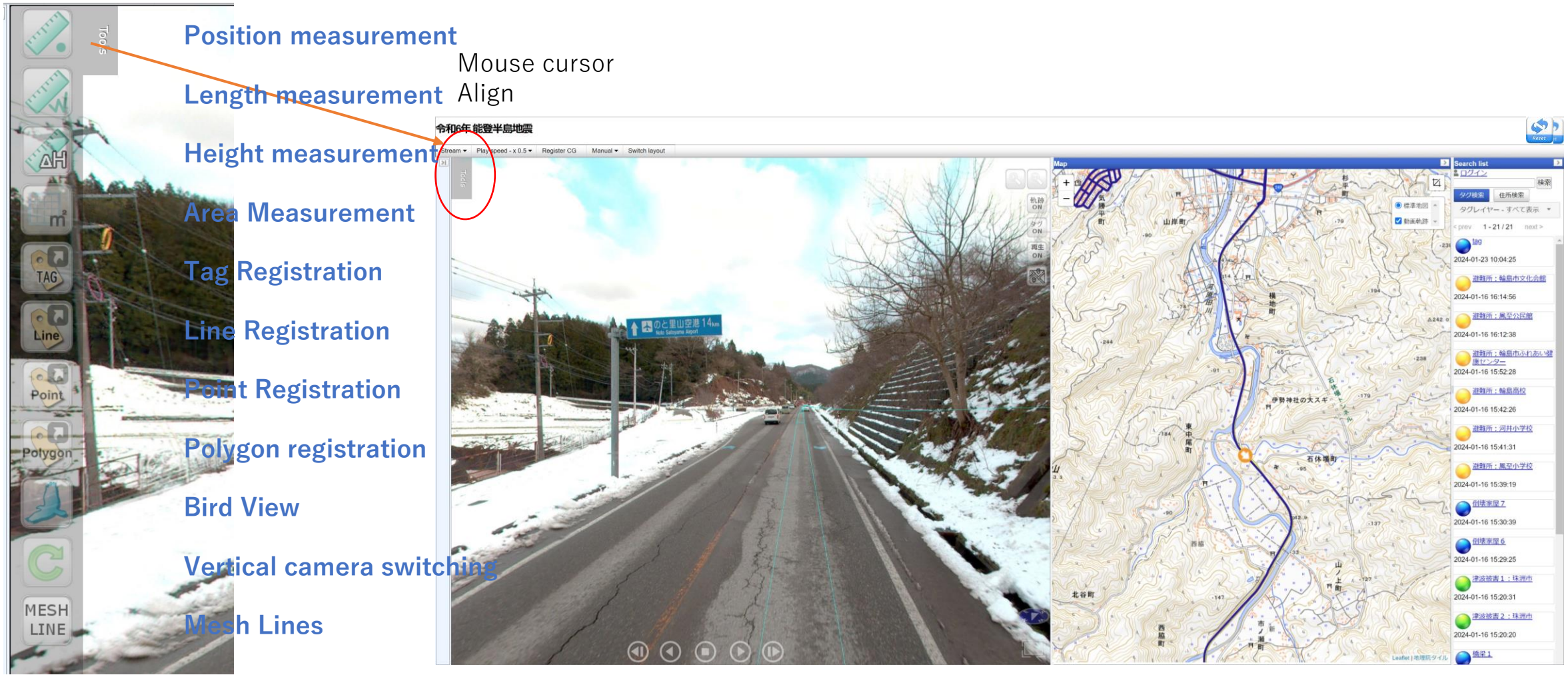
When it is full screen,
Click on the original
Screen Display

Map view

Click the map button in the video
When you click on the
Return to the map screen (initial screen display)

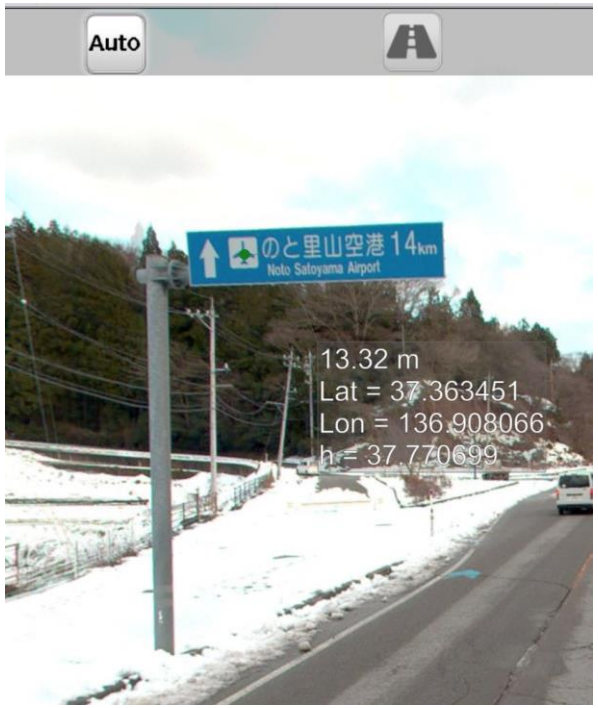
The trajectory (blue line) in the map
When you click on the
Go to the video screen

How to operate Various measurement functions at a glance



How do I do it?　Position measurement 3D の position measurement

1．Select Position Measurement 
In the target area (in the figure below, the pictogram of the airport)
Measure three-dimensional distances
In Auto Measurement (see next page)
Hover your mouse over the pictogram and click



For accurate measurement

How to do it accurately when measuring and registering tags
It is important to get closer to the point you want to choose.
Manipulate the video to get closer to the point you want to select,
If you enlarge the point you want to select and then do it
It is possible to measure and register tags as accurately as possible.
This is relevant for all operations.
When measuring and registering tags, "approach and expand"
Thank you.

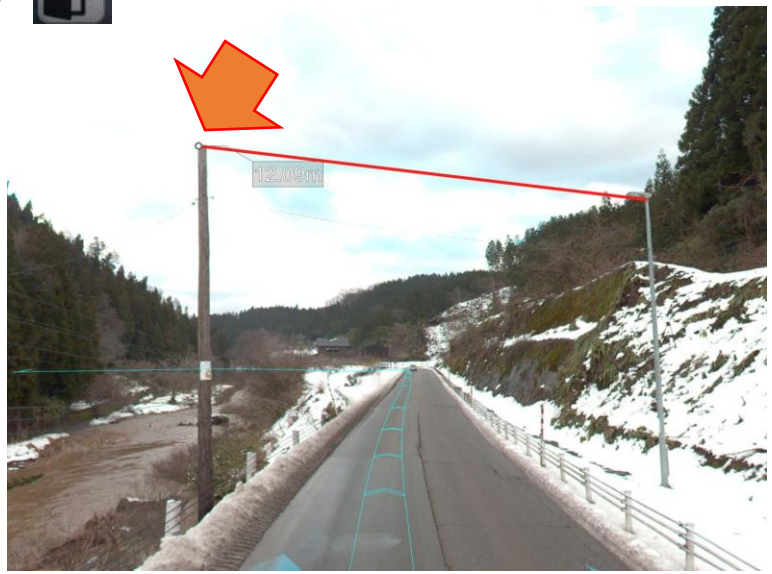
Operation Length measurement 3D distance measurement

Length measurement 

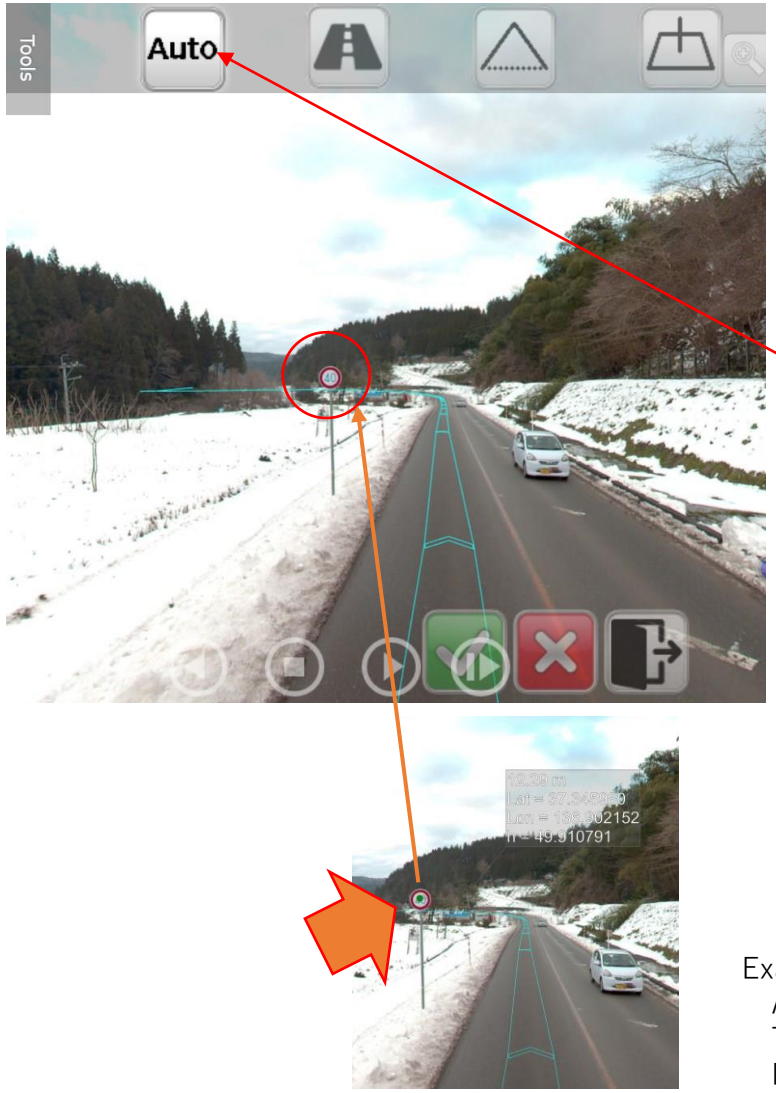
1. Select Length Measurement
   Measure the three-dimensional distance between a street lamp and a utility pole
   First of all, the first point is automatic measurement (see next page)
   Ask. Hover your mouse over a lamppost and click

2. If the second point is obtained by 3D measurement in the same way, it will be from the first point
Displays the distance.
From the third point onwards, the total distance of 1.2.3 is displayed.

Finish with: 



How to 3 AutoMeasure



When you select each function, you can click the icon that appears at the bottom of the screen.
Features include:

From left to right: Measurement OK, Redo measurement, Measurement end

1. Automatic Measurement (Automatic Measurement)
Automatically measures the coordinates of the selected point in the image **Be sure to move it to a position close to the object and measure it.**
The selected feature point in the image is stored on the server in the image before and after the
It automatically searches and calculates.

The automatic search may also fail. Click the image on your keyboard
Move the image with the arrow keys and automatically measure when the measured point is out of alignment with the object
It's a failure. If the points are misaligned, measure in other measurement modes.
Period.

Example)
Advance the image closer to the object and measure the text of the 40-kilometer marker
The result displays the distance from the camera from the top, as well as latitude and longitude elevation.
Even if the image is moved, the point sticks to the object and does not move, so the measurement is successful。

How to Measure Height

3. Height measurement 

1. Select Height Measurement and automatically measure 3D points
When measuring, the perpendicular line is lowered to the road surface plane at the camera position.
Displays its height.

2. When the second point is measured, the ratio of the first point and the second store is high.
Display.
Finish with: 

How do I do it?　How to register a tag

Tags can be viewed by anyone once they are saved

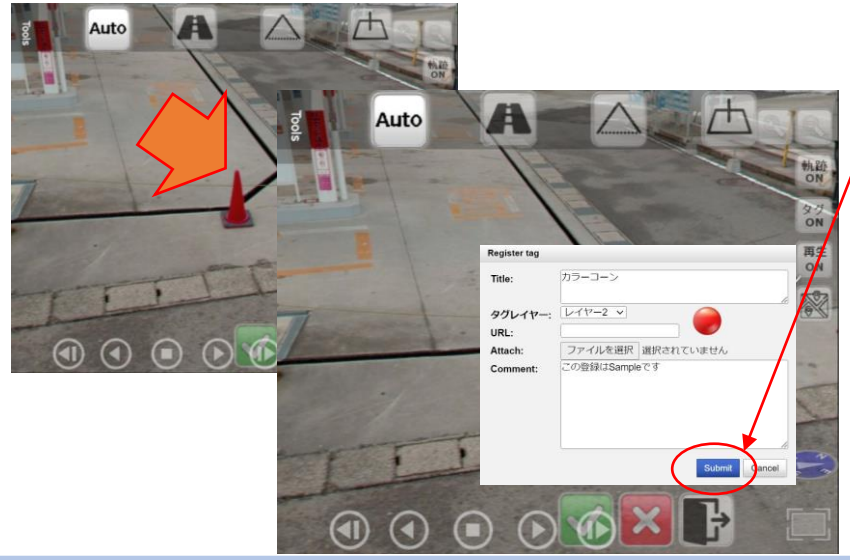
This section provides information about tag registration.

Tag Registration　　***Tag registration is not possible in full-screen display of images.**

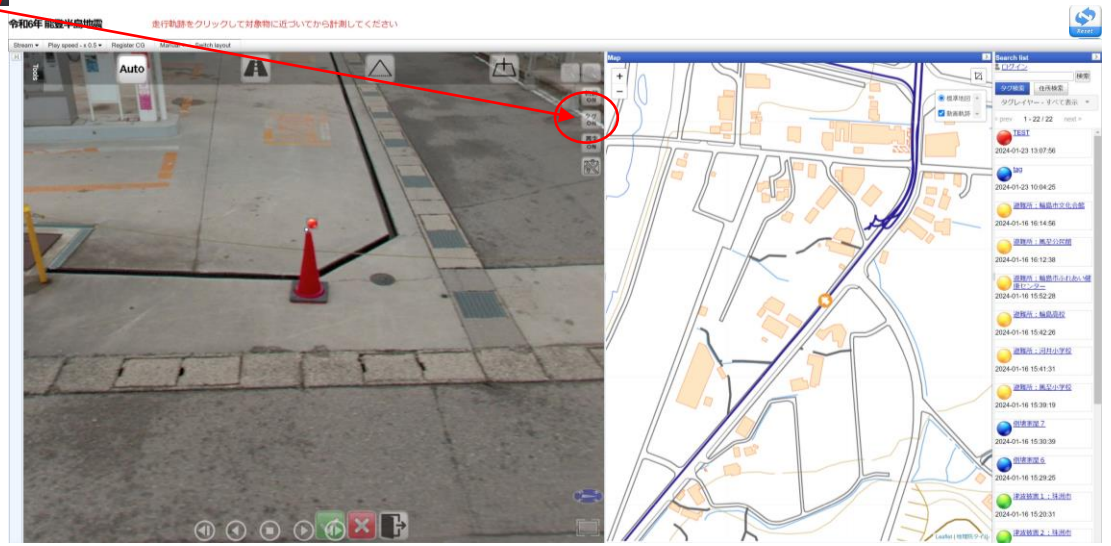
Tag registration creates a 3D tag for the object in the image and shares location information。

1.Select Tag Registration, and then click 

If you click on the place you want to tag and make a dot
The tag information input is displayed.
In the example, a tag is registered in the color cone and the color cone
I'm typing.



2．Click to register the tag.
3．If you don't see the tag, click the button
4．Please display the tag ON.

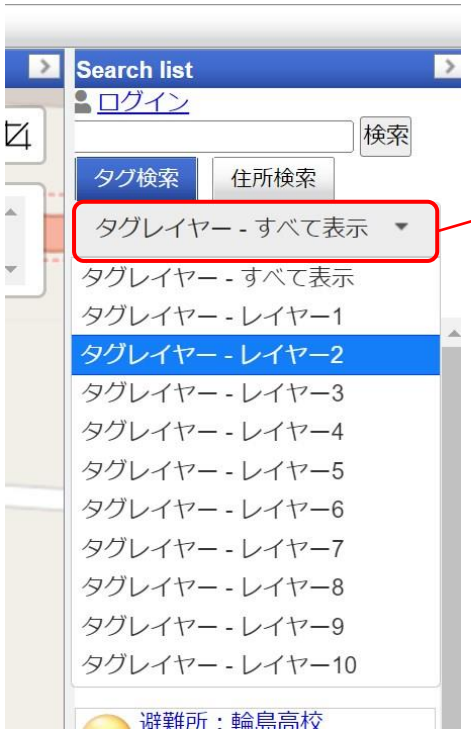


Please finish with 

How to search for tags and addresses

You can search for tags by any string.

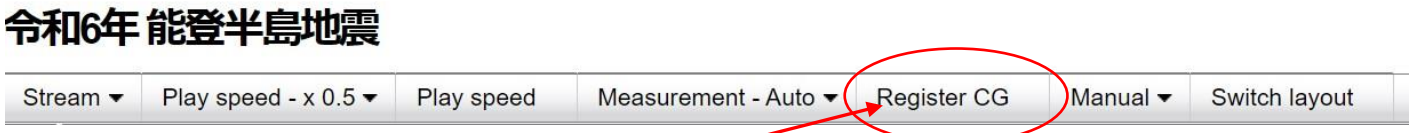
Tags



Tags are layer-managed.
All the basics are displayed, but if you specify a specific layer
Only layers that belong to a particular layer are displayed

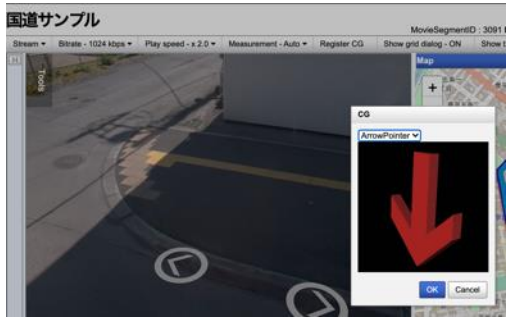
How do I do it?　How to register CG 1

This section describes the registration of CGs. The only CG to be registered is the sample CG that we have prepared.



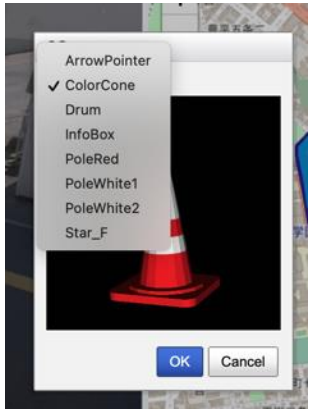
1. Click Menu. Register CG

   CG will appear on the screen



2. Select CG from the list

   Select CG OK

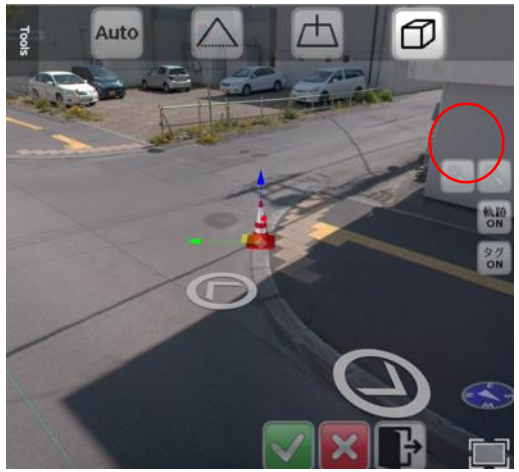


3. Display the measurement screen

   Select the point where you want to place the CG.

How do I do it?　How to register CG 2

4. When you measure a point, CG is displayed.

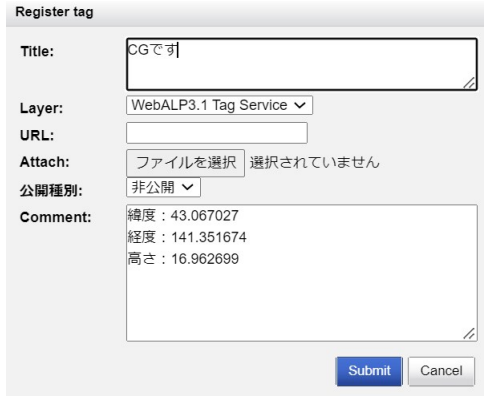


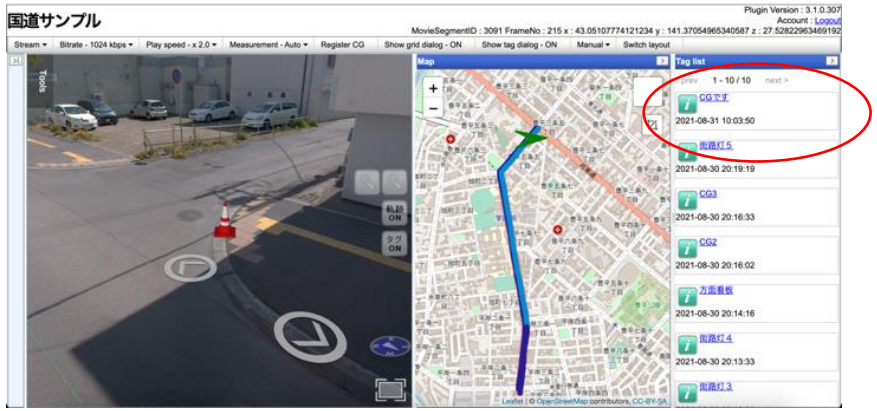
5．  Click to register

6．Enter the name of the CG tag and register the CG tag.

7．The CG is registered as a tag

Registration ends at 

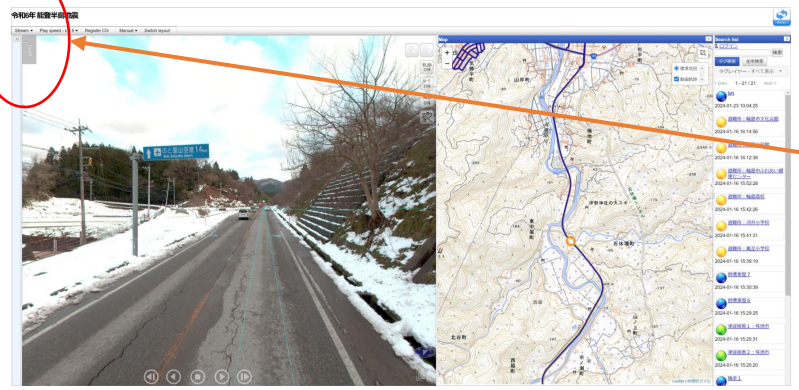




Other 3D point measurement methods

How do I do it? About the measurement method in the image

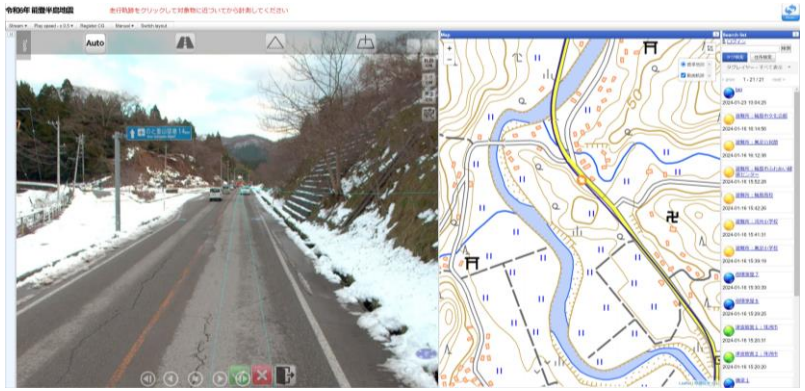
The measurement method on the screen is as follows



Mouse cursor
Align

- **Position measurement**
- **Length measurement**
- **Height measurement**
- **Area measurement**
- **Tag registration**
- **Line Tag**
- **Point Tag**
- **Polygon tags**
- **Bird View**

Create a three-dimensional point to display distances and heights in the image.
This section describes how to create points.
When you select each function, the following display will be displayed.



From left to right, each measurement mode.
1.Auto Measurement 2.Mesh Measurement 3.Epipolar Measurement 4.Horizontal Measurement

The measurement modes not described in the text are explained from the next page.

How do I do it?　Mesh Metrology

1.　Mesh measurement

　The mesh is displayed at the road surface height at the current position (right figure).

　Left-click on the mesh to get a three-dimensional point.

Mesh display with mesh measurement

Example: Position measurement by mesh measurement

　Left-click on the position to be measured.

e.g. Distance measurement by mesh measurement

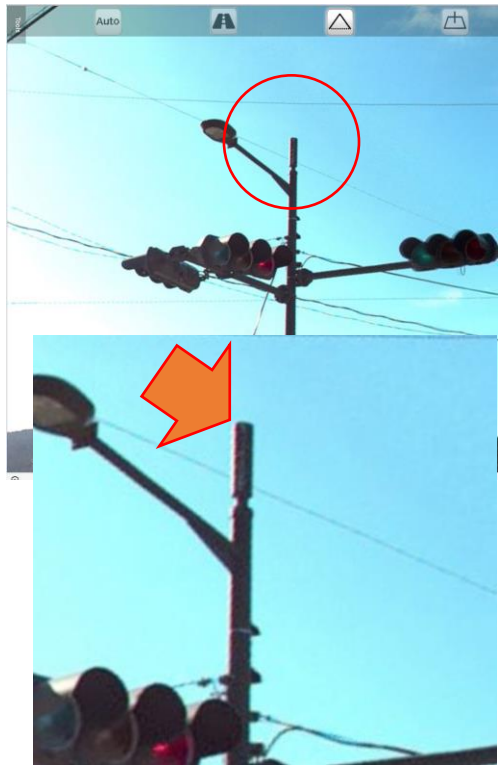
　After left-clicking on the measurement start point,

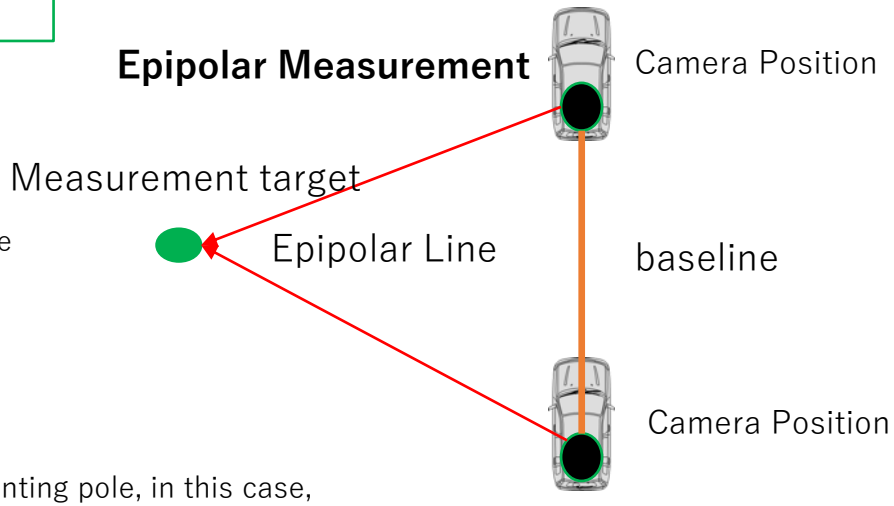
　Left-click on the end of the measurement

Example: Area measurement by mesh measurement

How do I do it? Epipolar Measurements1

2. Epipolar measurement
As shown on the right, the coordinates of the selected point in the image are set to two different
Select the same point from the camera position and measure.
Be sure to move it to a position close to the object and measure it.





Example)
Measure the vertex of the signal mounting pole, in this case,
Measure the apex of the pole and display the height to measure the height of the pole from the road surface
I will.

1) Move the signal close to the apex of the mounting pole and the apex of the pole
Zoom in to select it.
When the 3D video playback button gets in the way,

1) Move the signal close to the apex of the mounting pole and the apex of the pole
Turn the mouse button to zoom in and click on the vertex.

How do I do it?　Horizontal Measurement

3．Horizontal Measurement
Display a grid based on the ground surface of the camera location, and select the position of the ground surface and its height with the mouse operation.
to determine the three-dimensional point.

e.g. Signal mountingMeasure the apex of the pole, and display the height to the apex to measure the height of the pole from the road surface.

1) Select Height Measurement,
Select Horizontal Measurement

2) Follow the cursor to the road surface
Show Grid, Paul's
Mouse click at the root

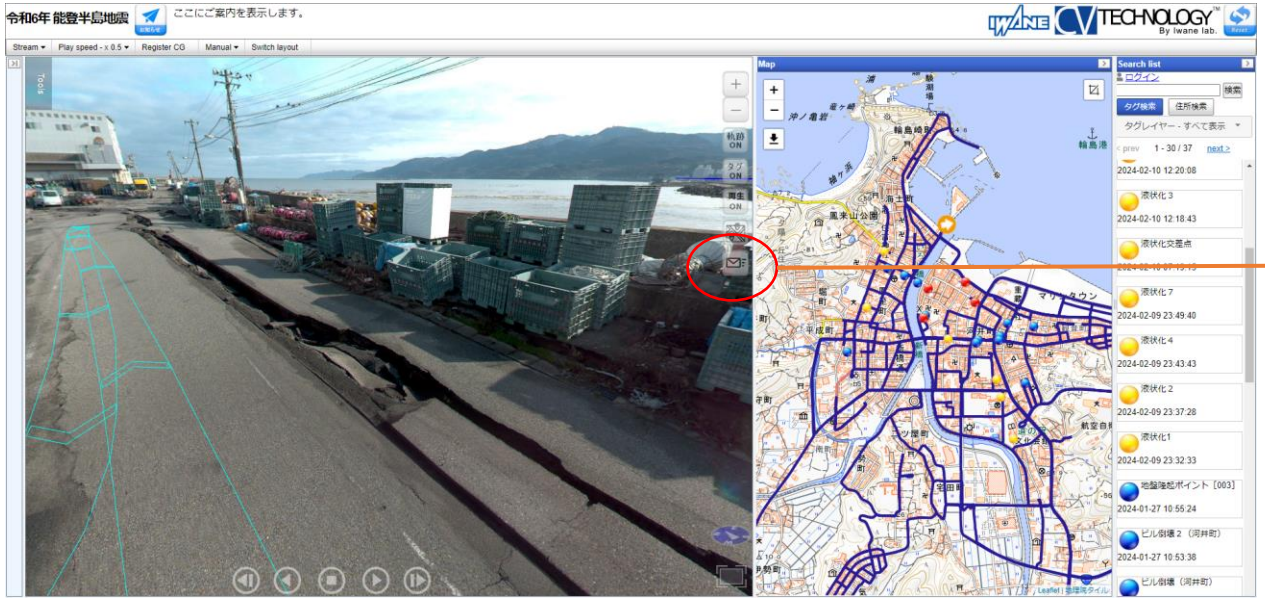
3) Car along the perpendicular from the root
Move the sol to the apex and click
Height display with mouse click

The end of the measurement is、

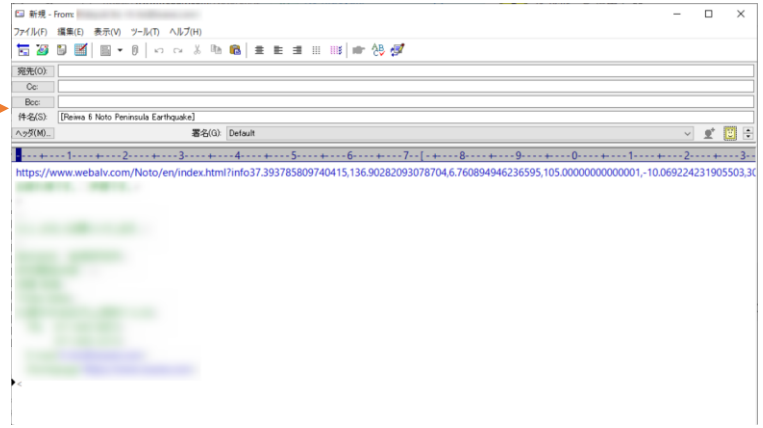
Click.

Email sending function 1

You can share the currently display by email.

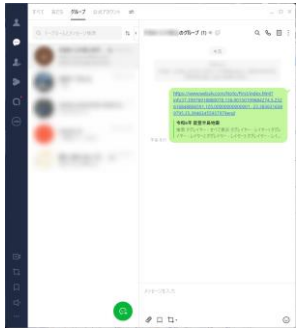


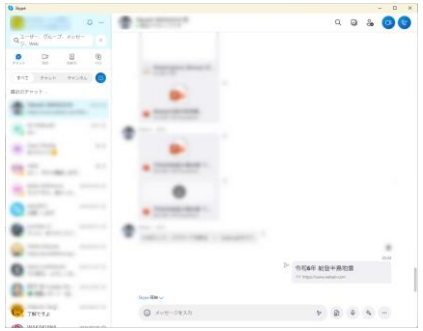
If you are using an email client software,
automatically fill the subject,
link of the information to body morever,
then make as a new email.

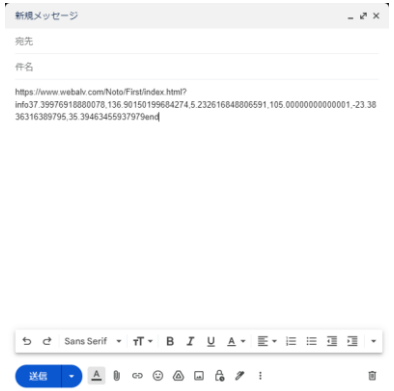


For your information,
a link address as information to clipboard.

It‘s on the clipboard is that You can paste it to LINE,
Skype, SNS and more to share it,
You can also paste it into the text field of a webmail and send it.







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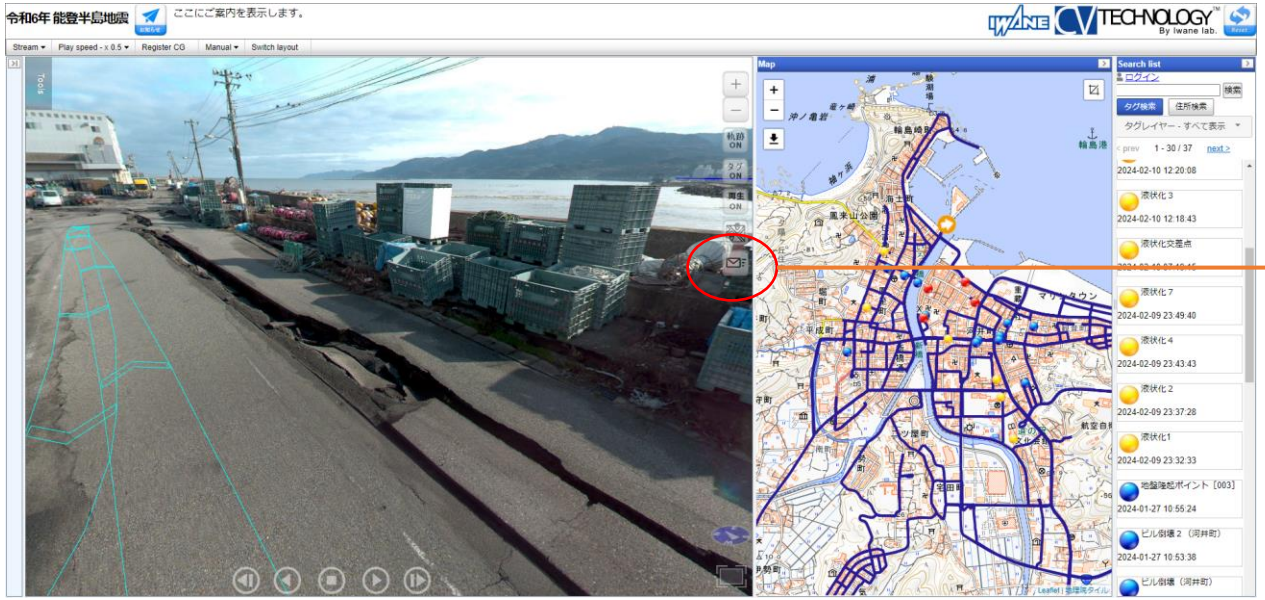
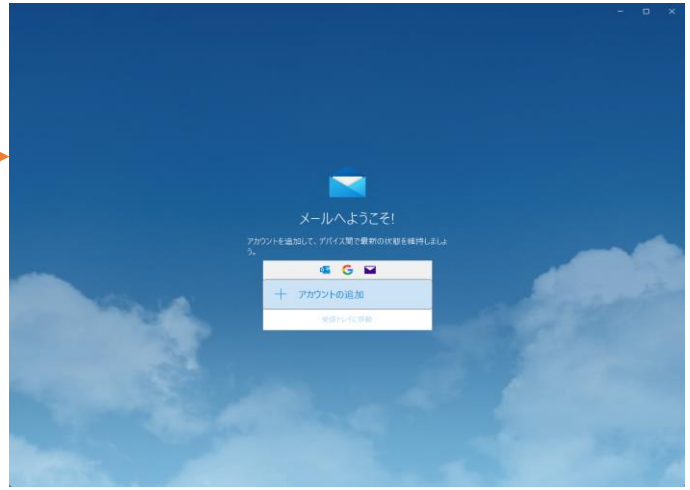
**"LINE" is a trademark of LINE Corporation.
"The LINE logo and interface displayed in the screenshot are trademarks or registered trademarks of LINE Corporation."

Email sending function 2

You can share the currently display by email.

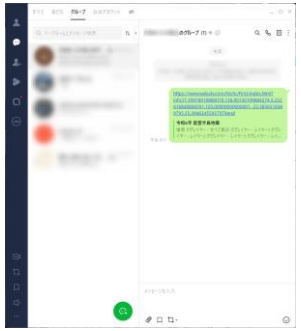


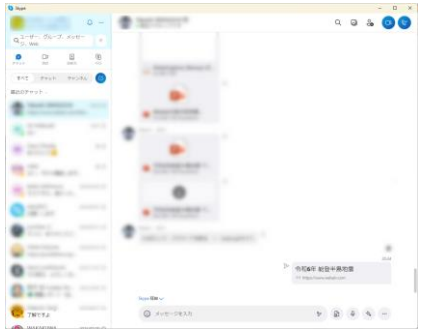
If you don’t have an email client software,
The display show you below image,
Please exit as it as.

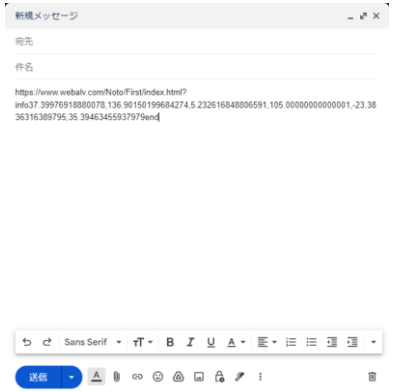


Even if you don’t have an email client software or doesn’t work it,
Your clipboard has the link address for information.

It‘s on the clipboard is that You can paste it to LINE,
Skype, SNS and more to share it,
You can also paste it into the text field of a webmail and send it.







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Japan geodetic system (JGD) acquisition function

By performing position measurement, you can obtain the Japan Geodetic System (JGD).

Perform position measurement .
※See「How to 3 AutoMeasure」

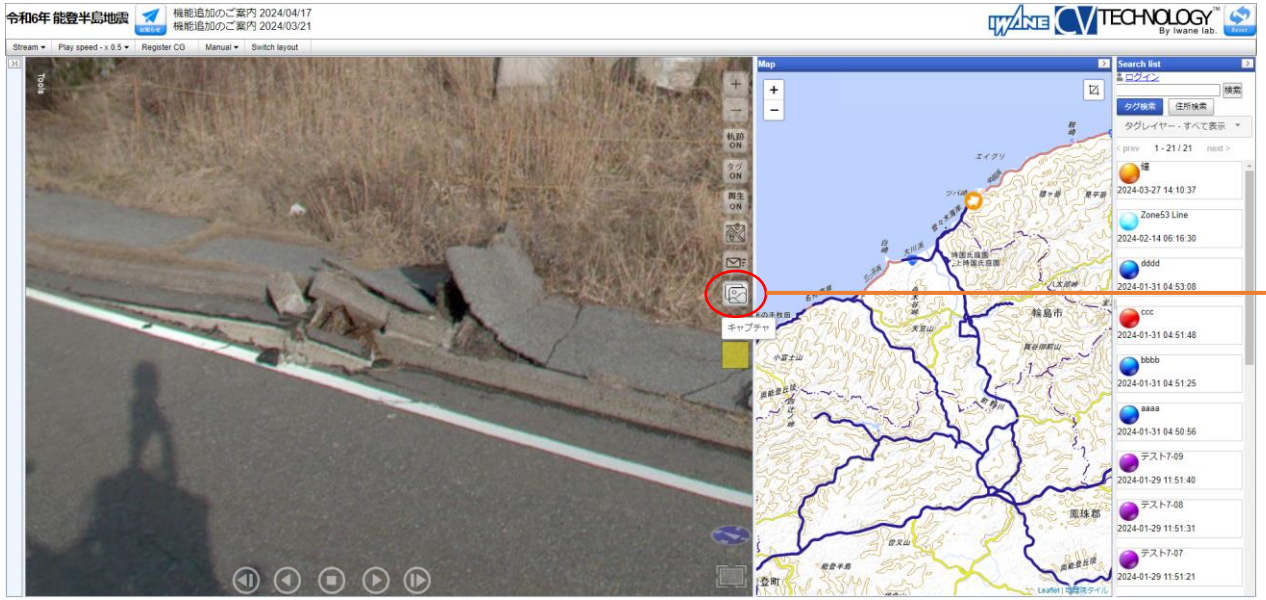
Once the position measurement is completed,
the Japan Geodetic System (JGD) will be acquired on the clipboard.

Example:
JGD zone 7 [163521.08392220814, -6512.6228320439595, 5.58829792022455]

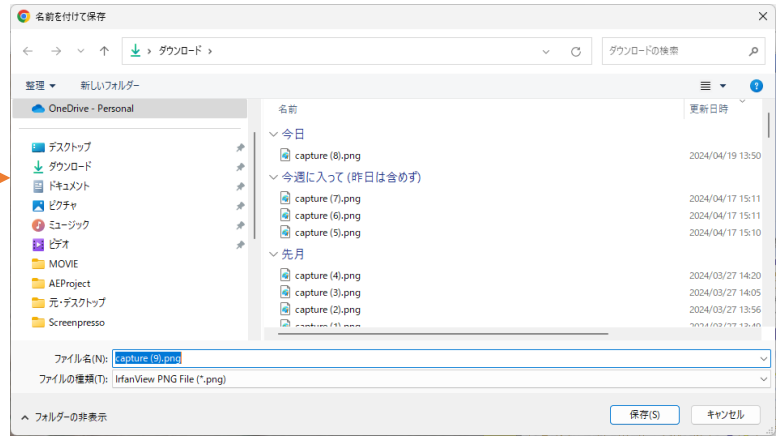
You can use the Screenshot function to create documents
like the one shown on the right.

Screenshot function

You can save the video and map together as a PNG file.



Decide where to save the automatically created png file.
You can also change the file name.



Using the Japan geodetic system (JGD) acquisition function acquisition function, you can create materials like the image on the right.
Screenshots also save images, map scaling, and measurement results.