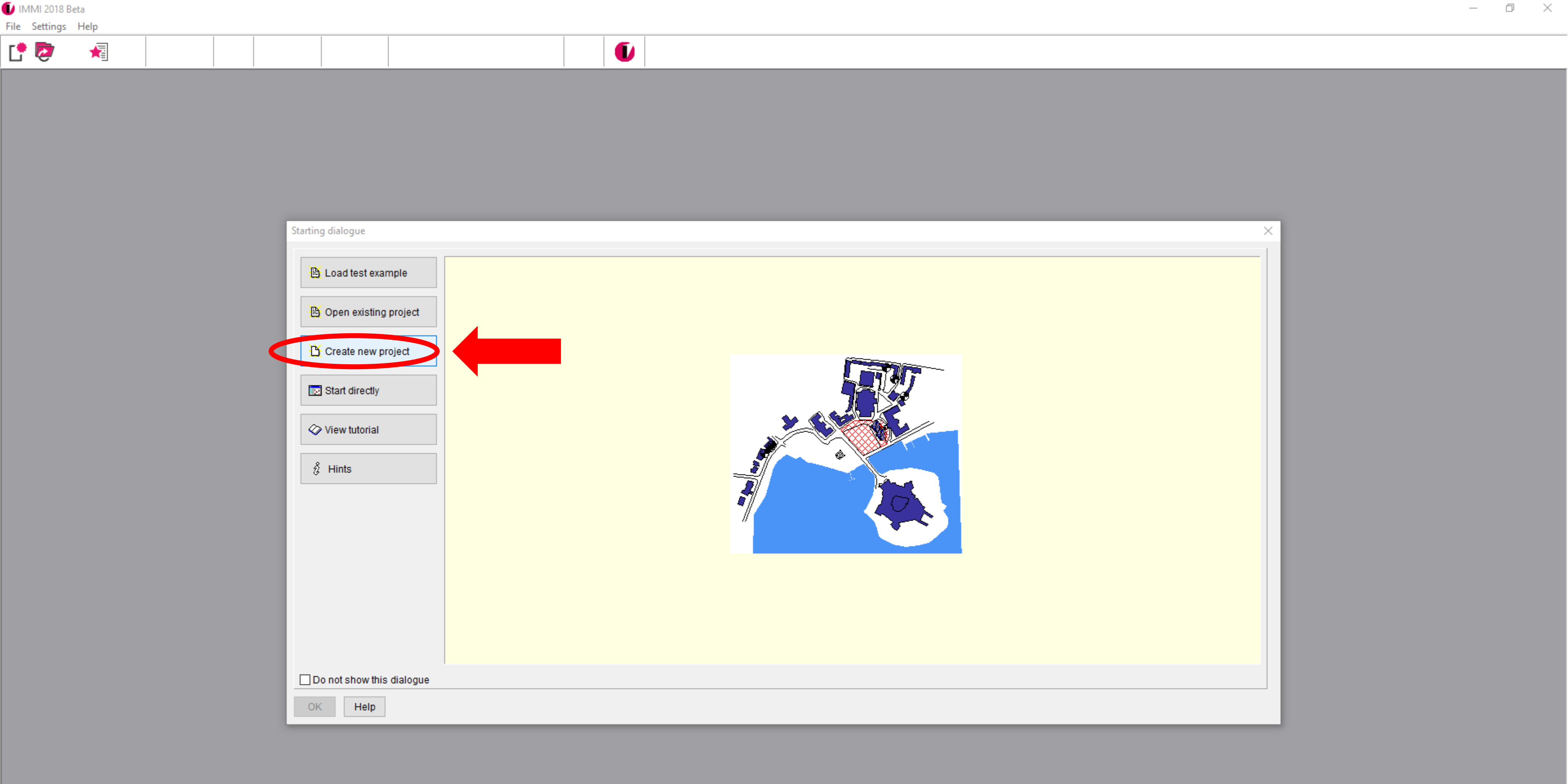


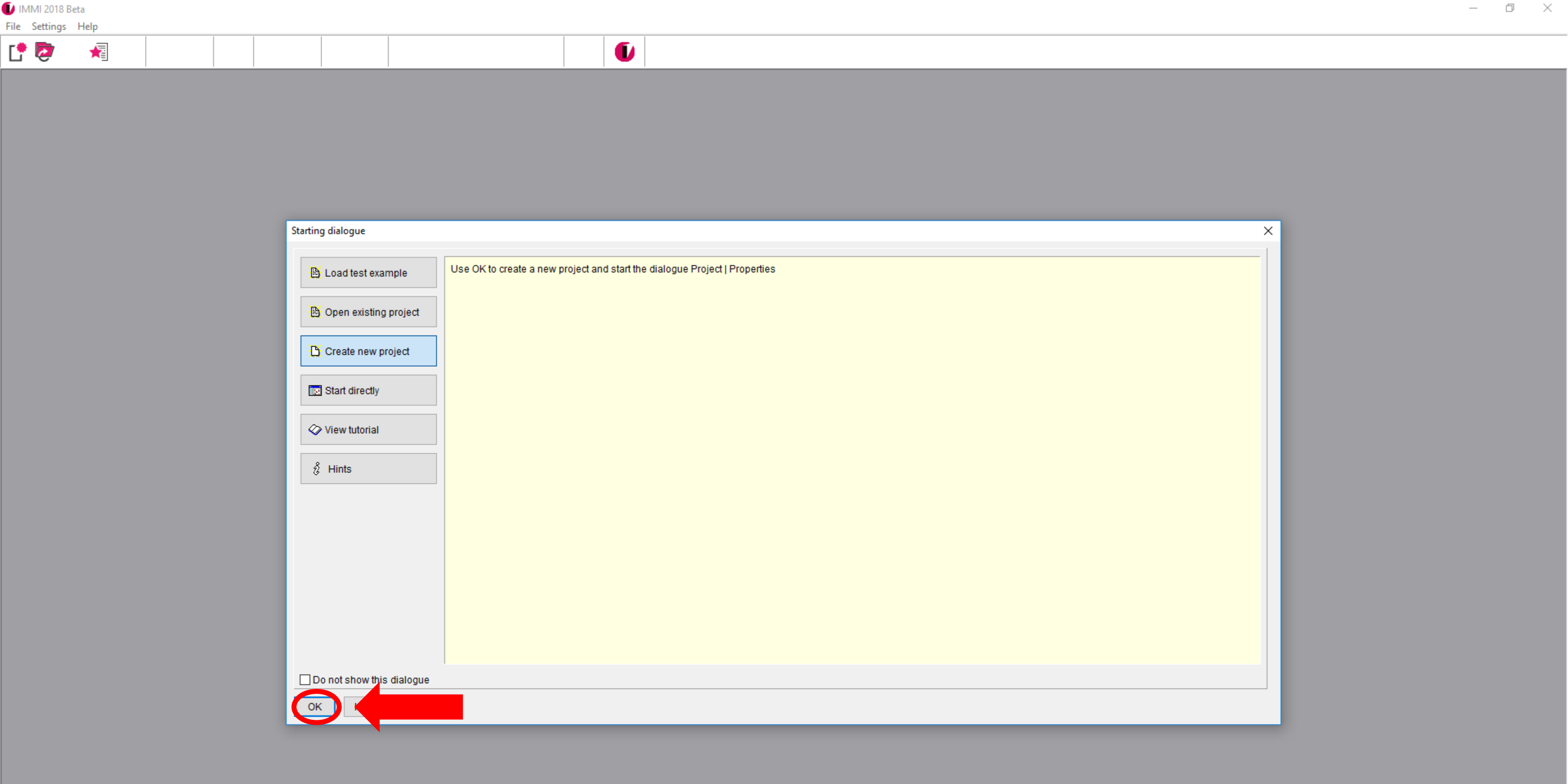


IMMI 2018 – Import of OSM vector data

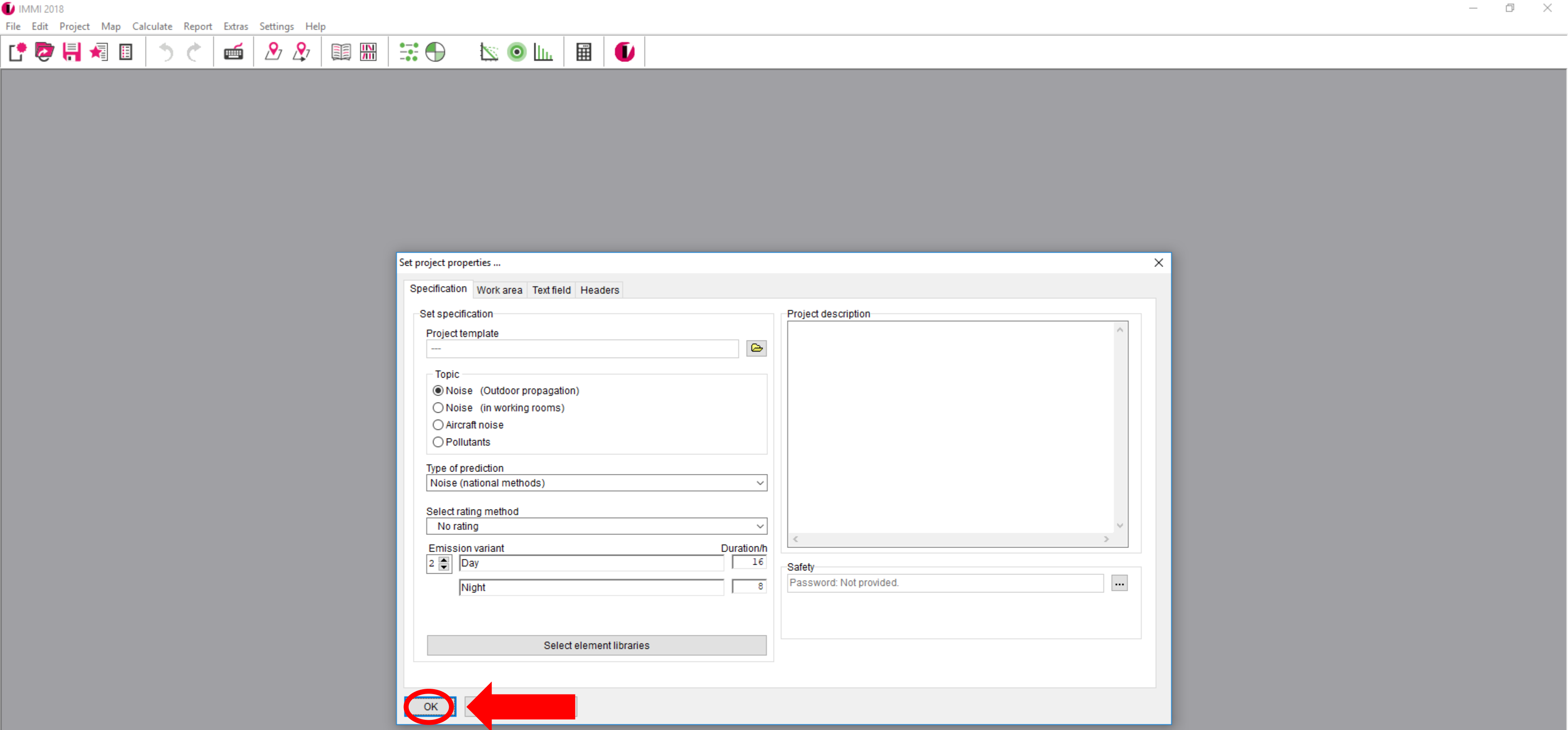




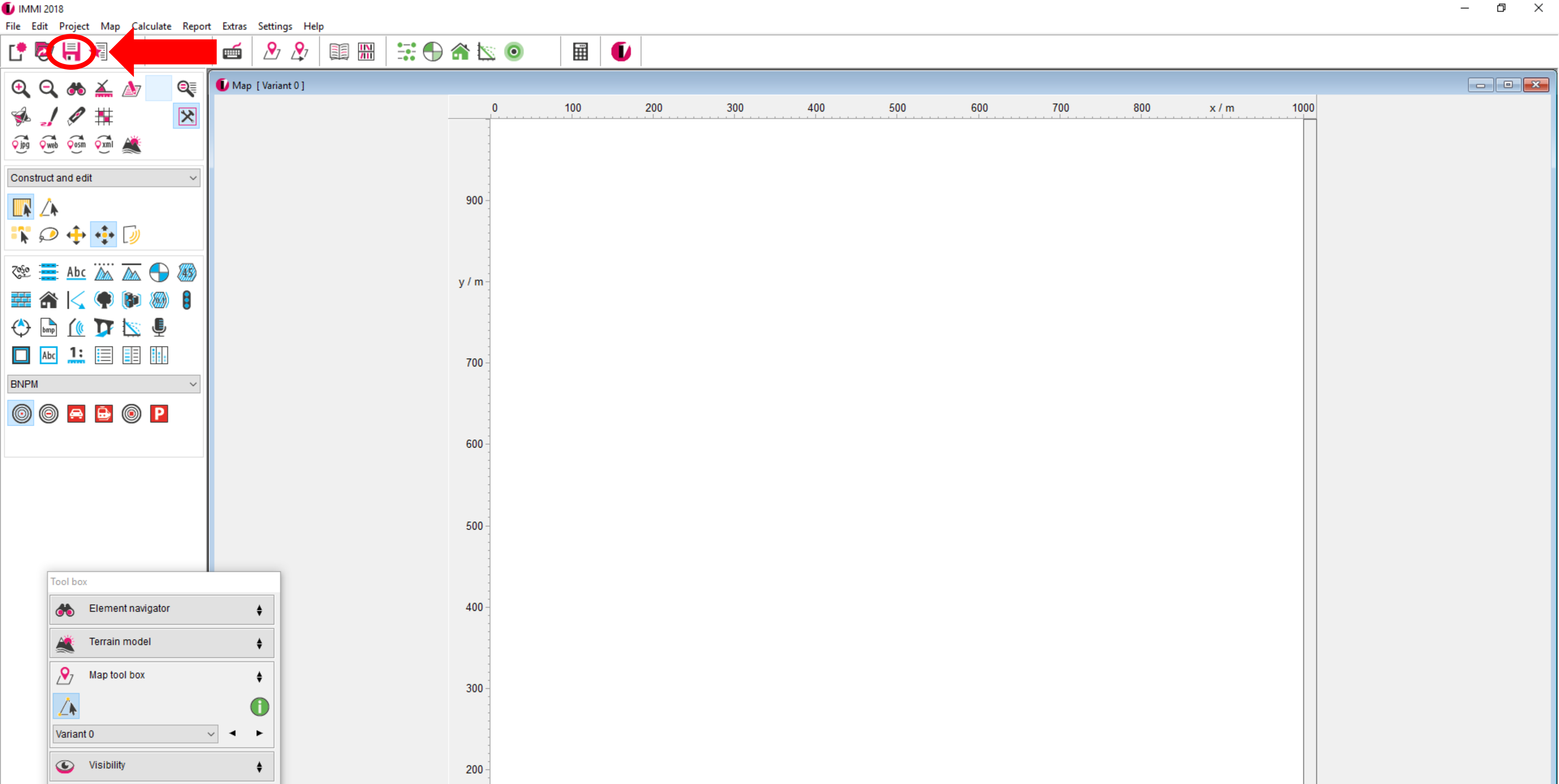
Start IMMI, choose „create new project“ and confirm with OK.



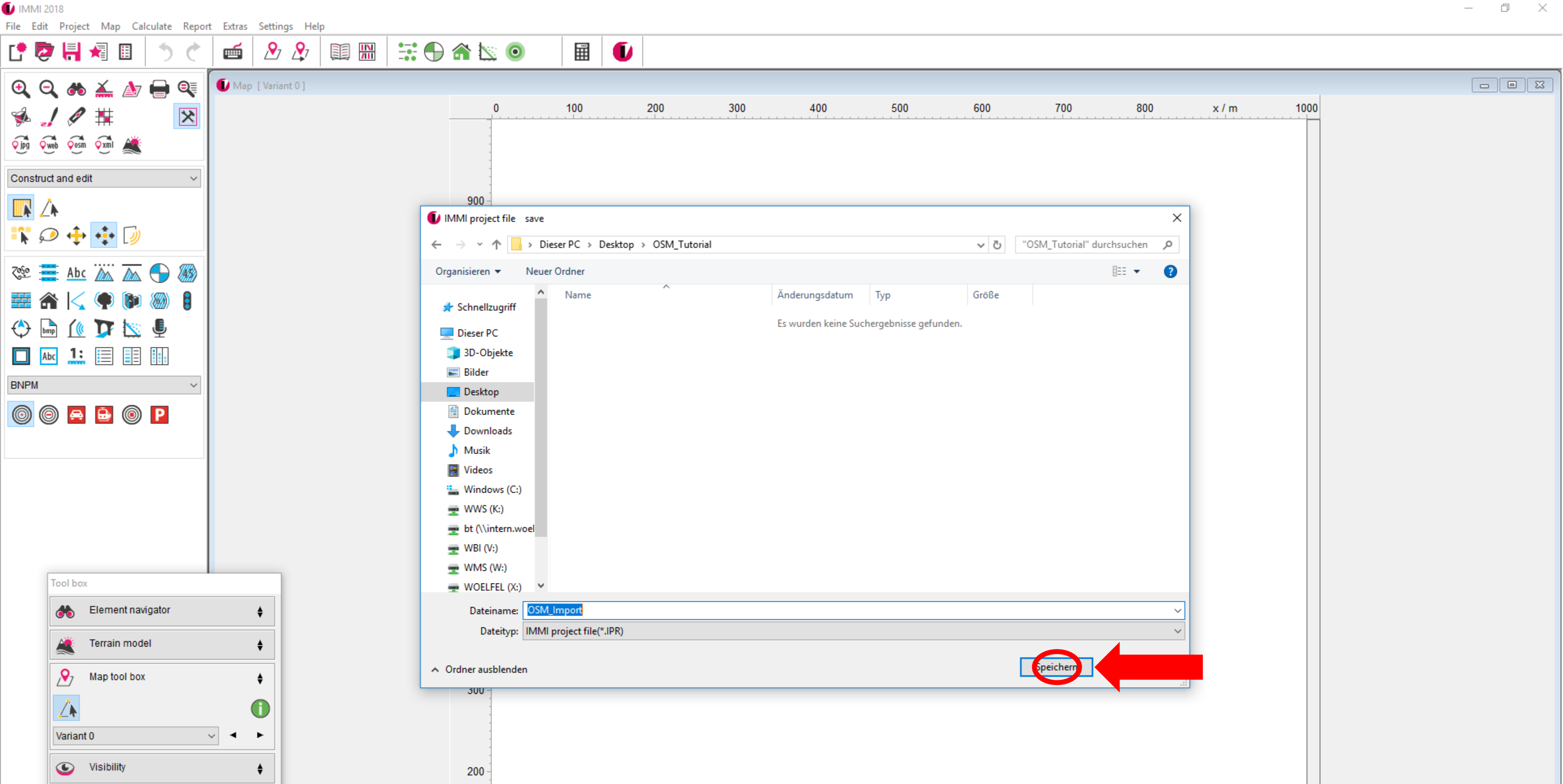
Start IMMI, choose „create new project“ and confirm with OK.



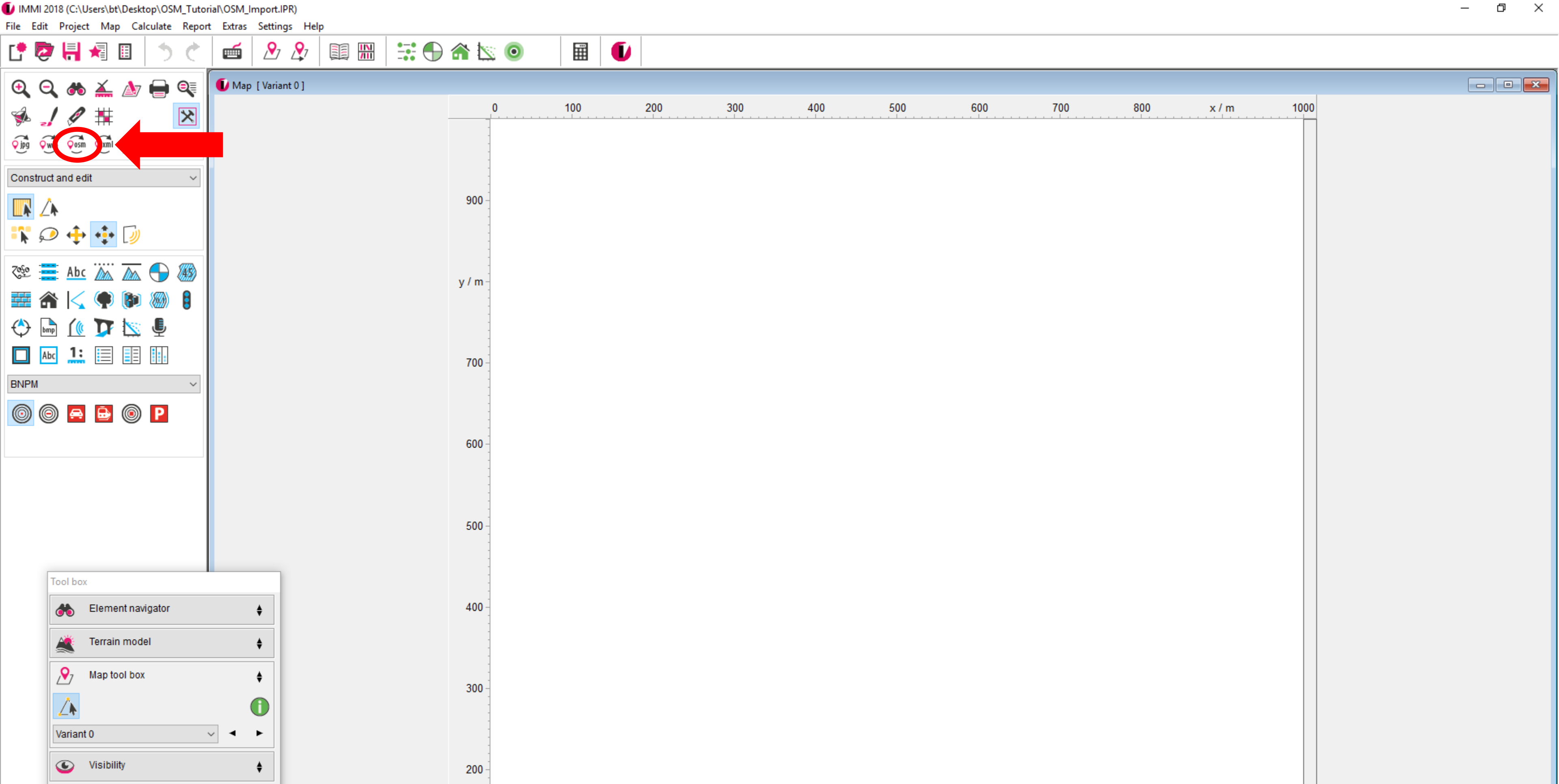
In the dialogue for the project properties leave the default setting „Noise (Outdoor propagation)“ and confirm with OK.



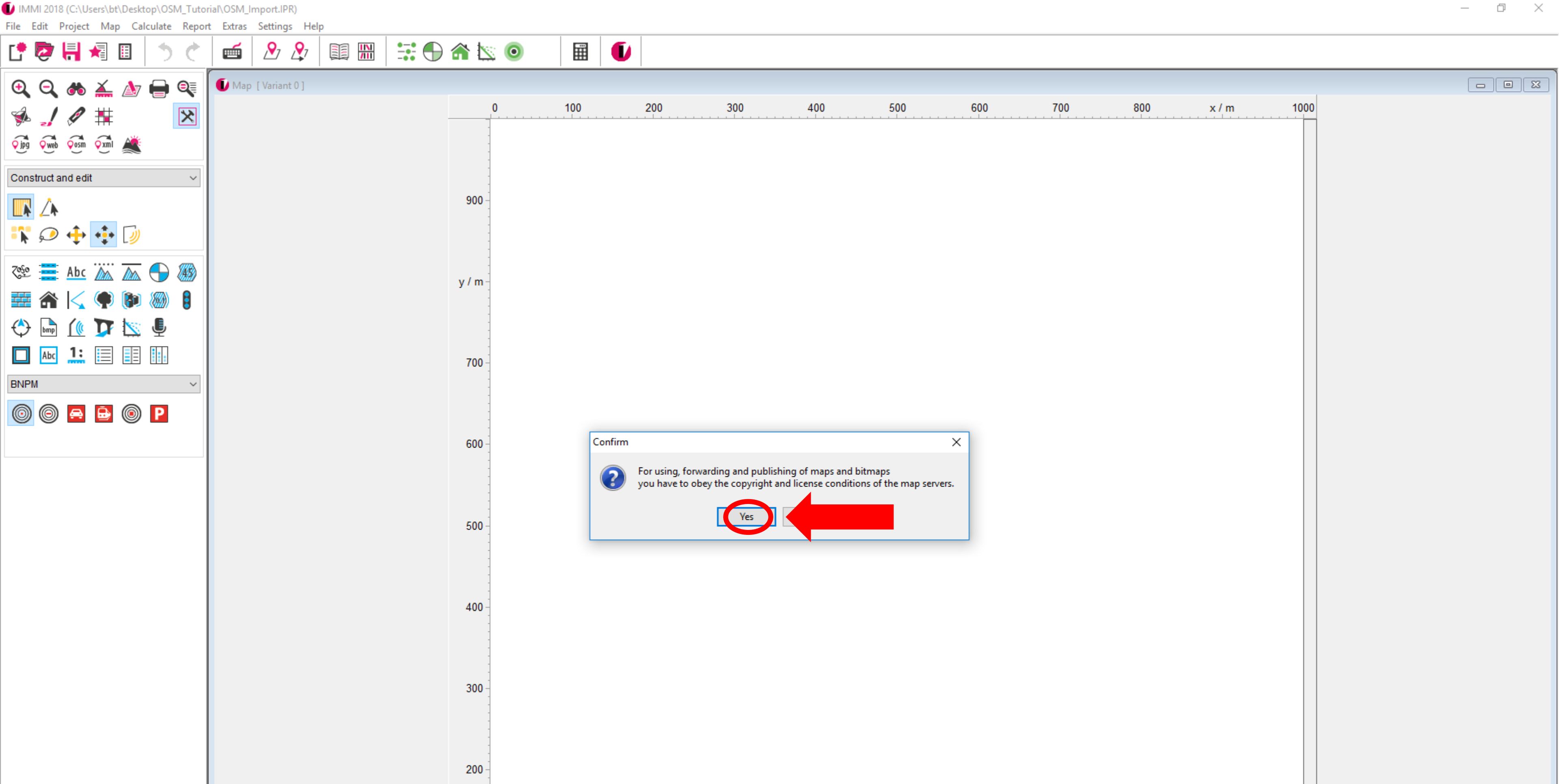
First, it is important to save the project. Please got to the respective icon.



Select the path, create a project name and press „Save“.

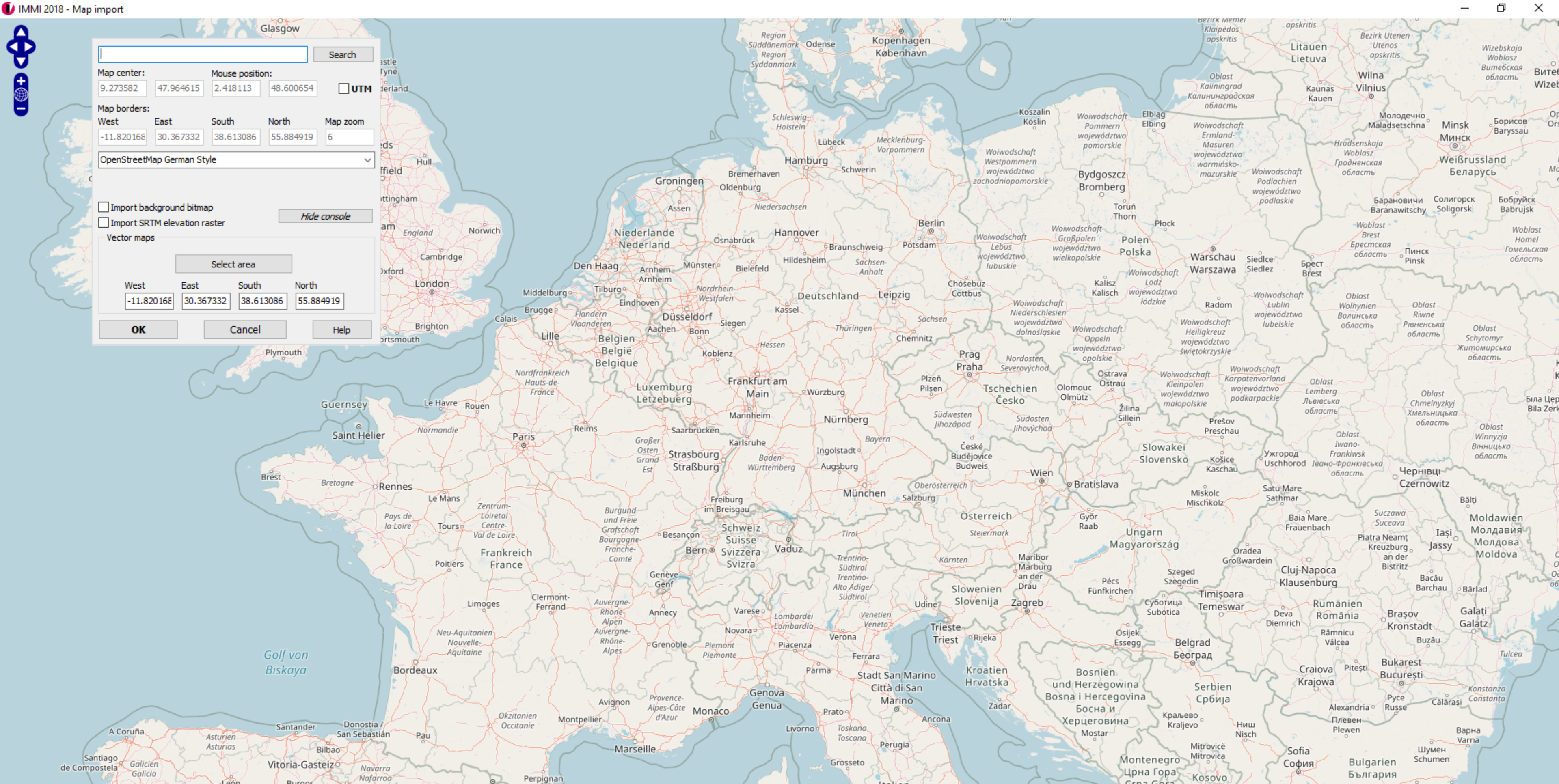


Now click the icon for the OSM import.

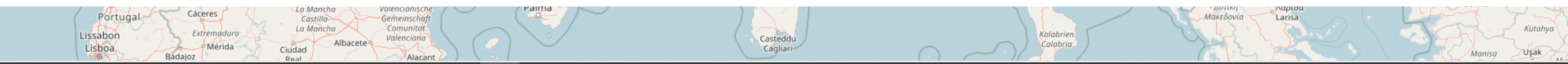


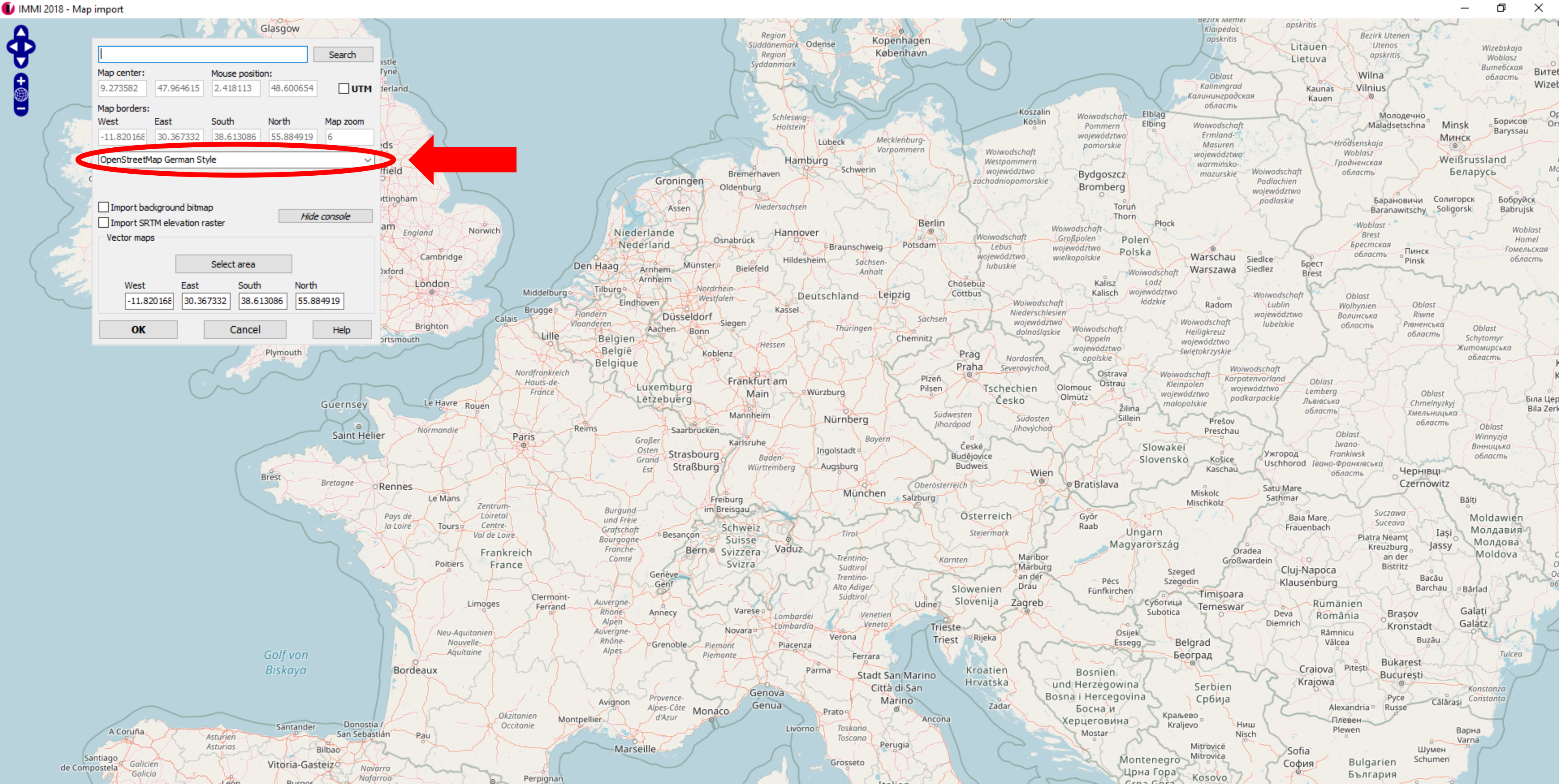
Confirm the appearing copyright dialogue with „Yes“.



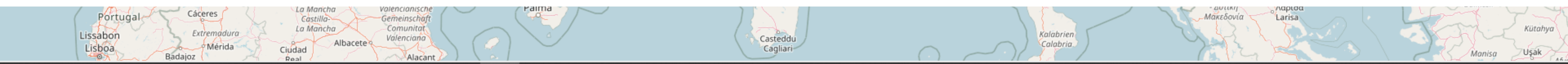


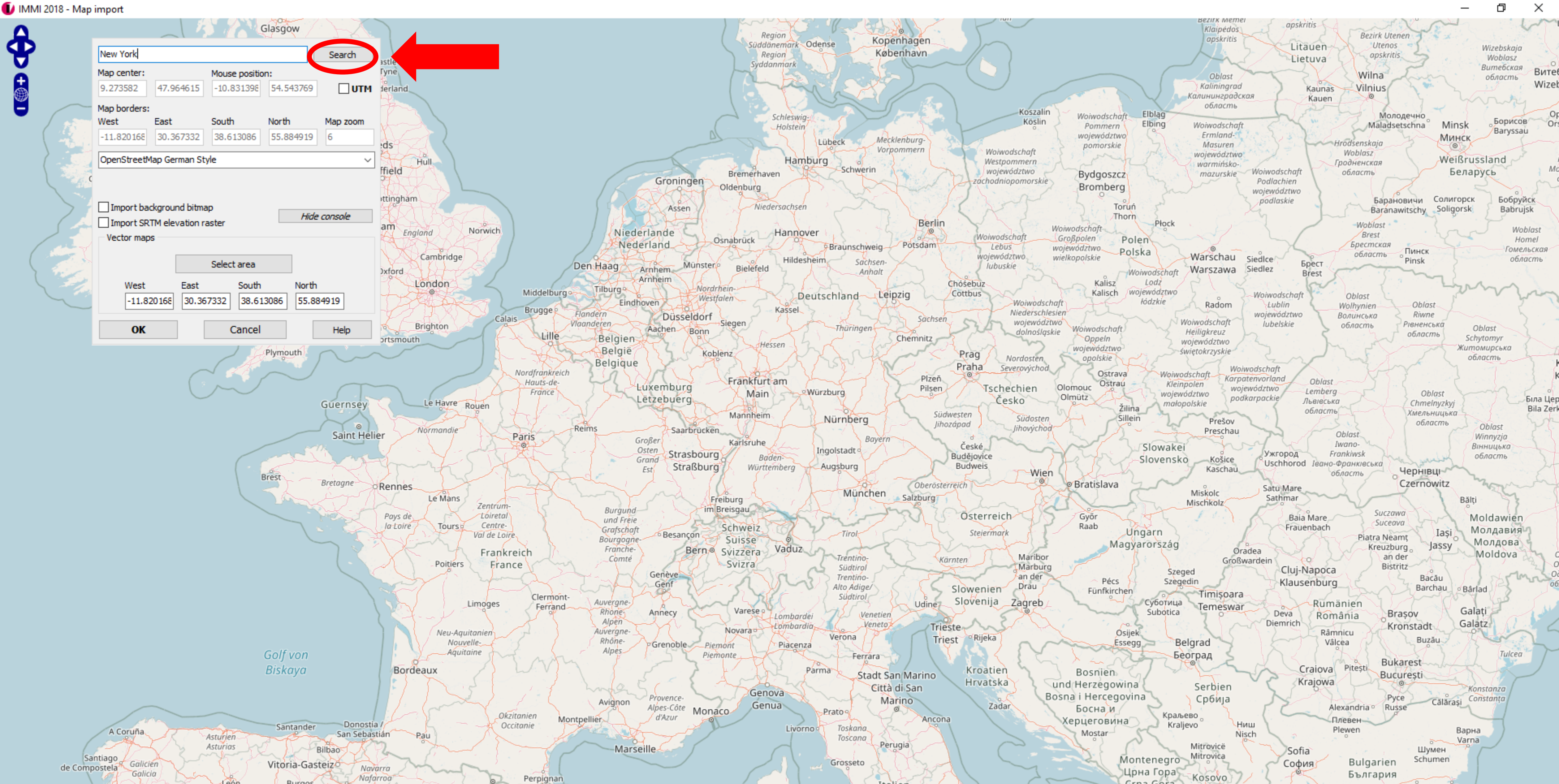
This will open a full screen view of OpenStreetMap.



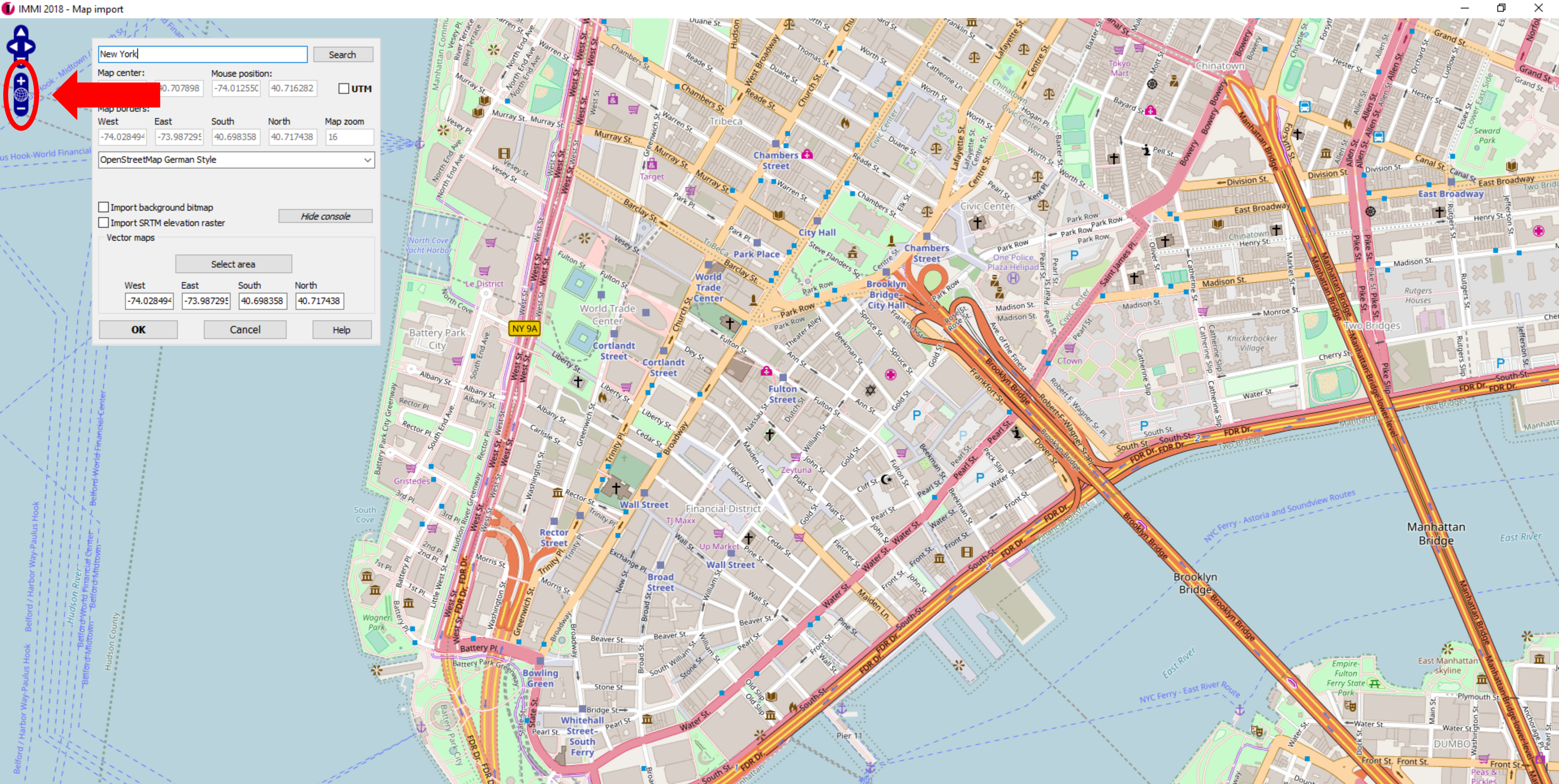


Other maps are available in the dropdown menu.

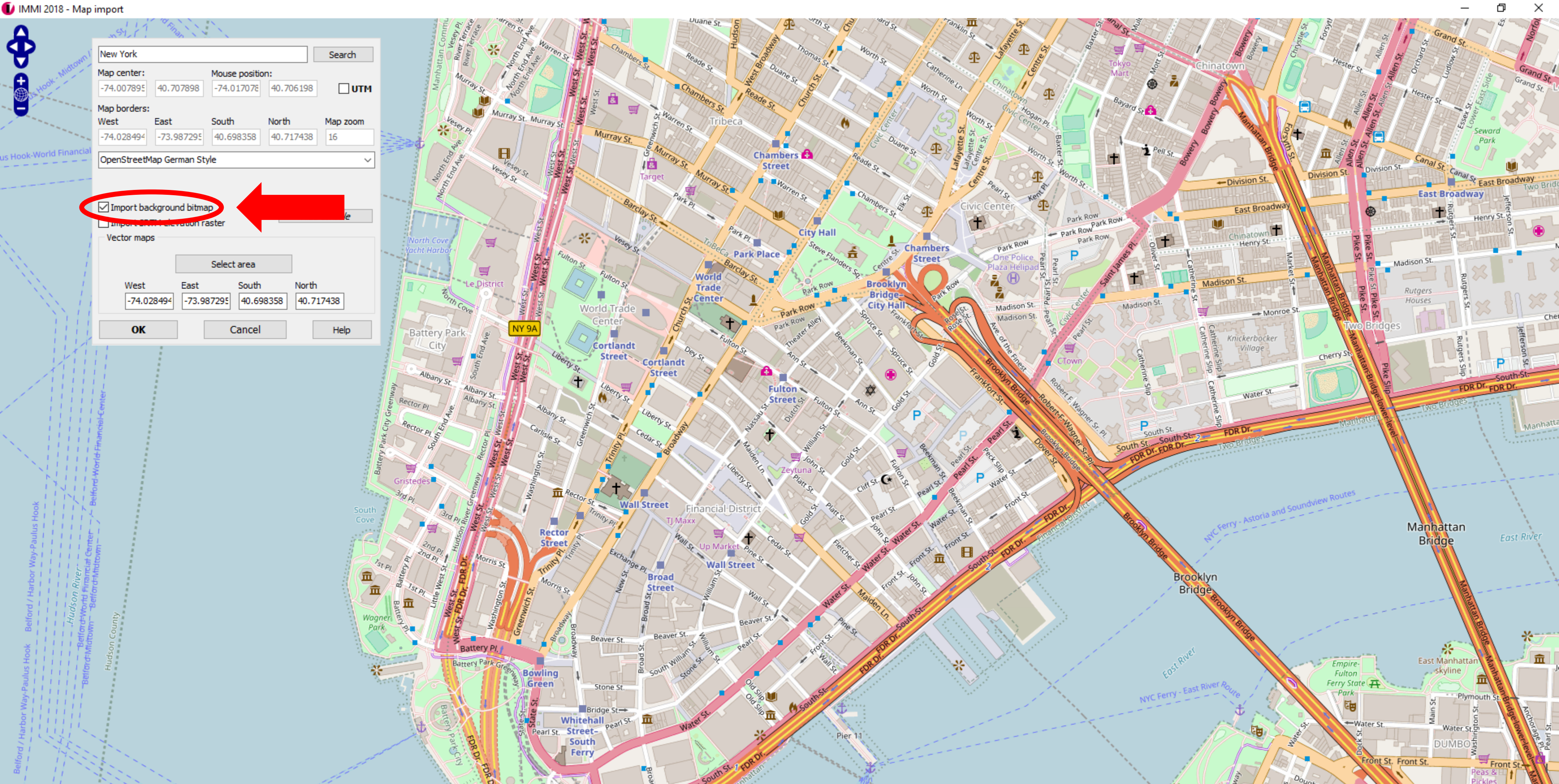




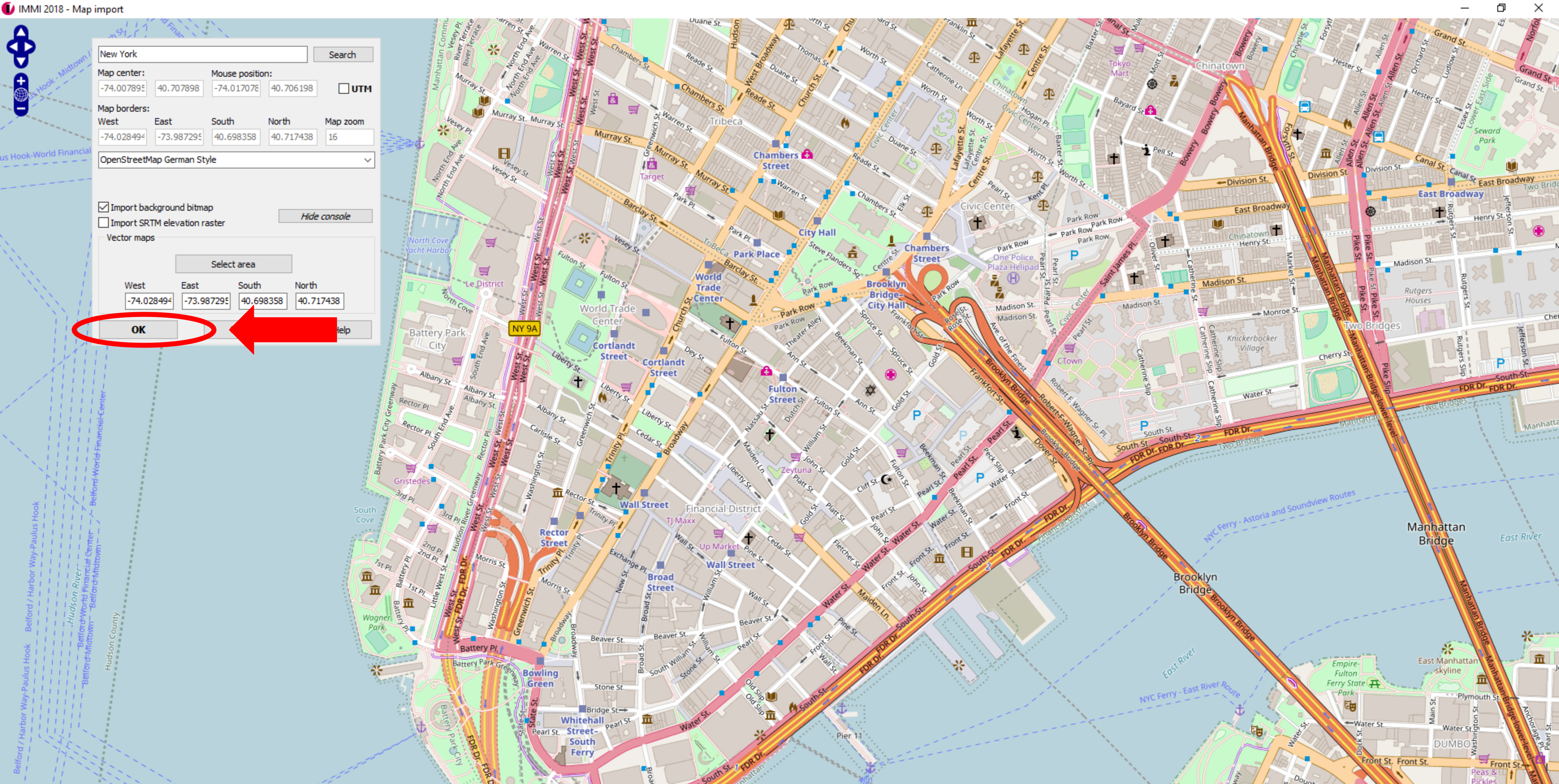
Enter the desired location of the project – in our example we will choose New York – and press „Search“.



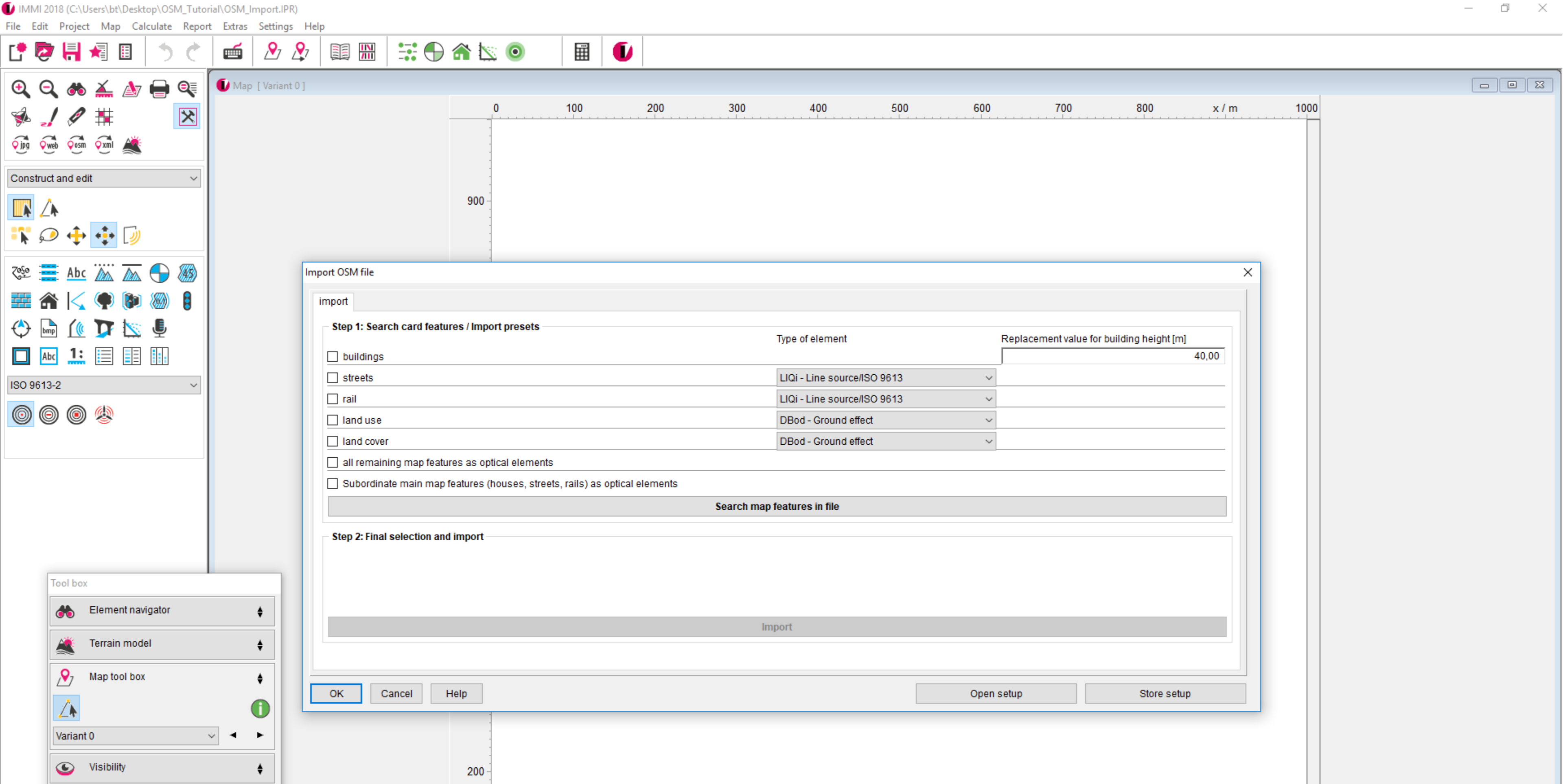
Use the map zoom - either by scrolling or using the zoom buttons - to get a reasonable area for the import.



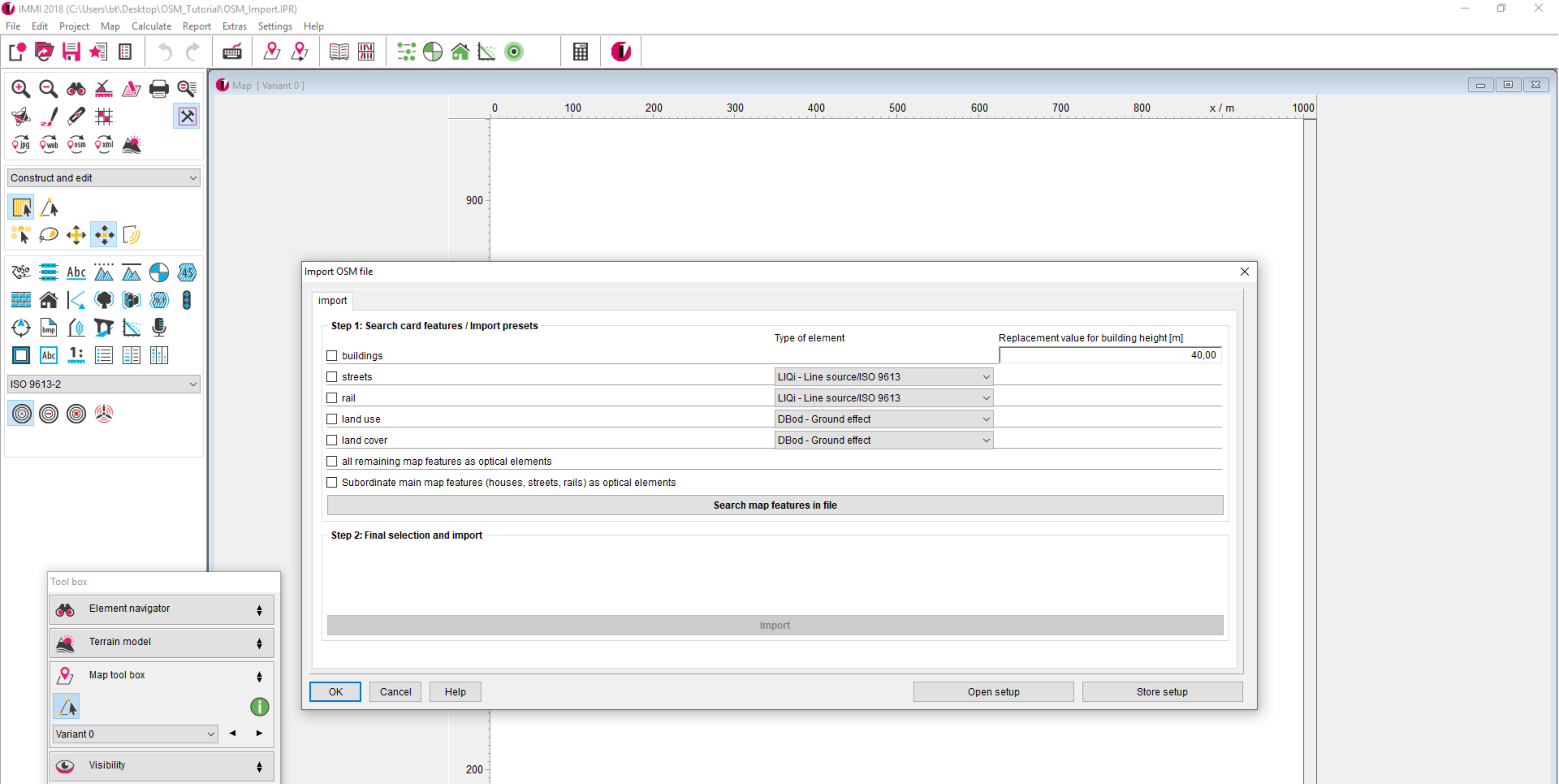
Activate „Import background bitmap“.



The button „Select area“ enables you to draw an outline of the desired area on the map. In our example we will simply proceed with OK.

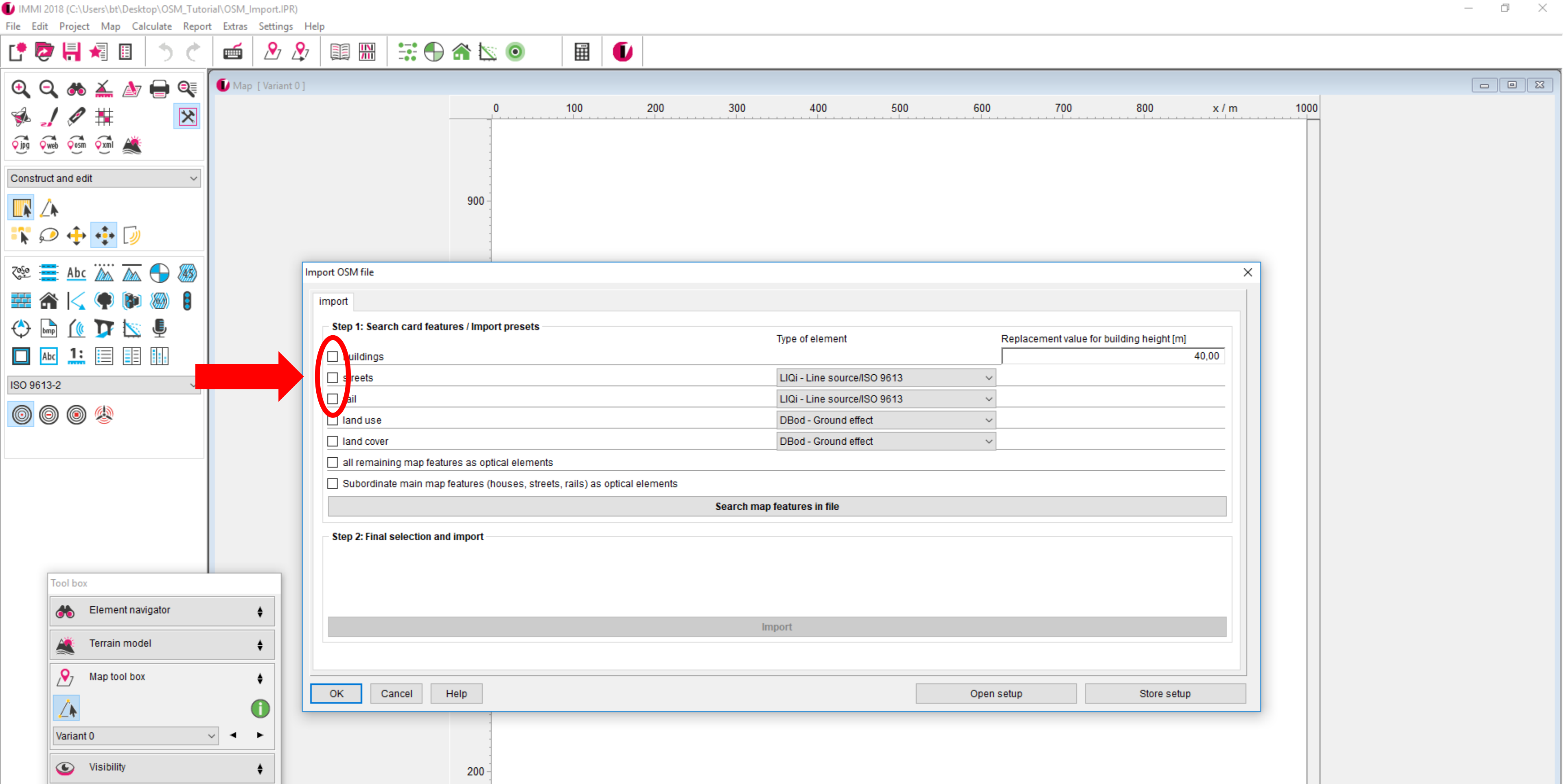


Now the OSM vector data has been downloaded to the folder of the project file and the import dialogue opens.

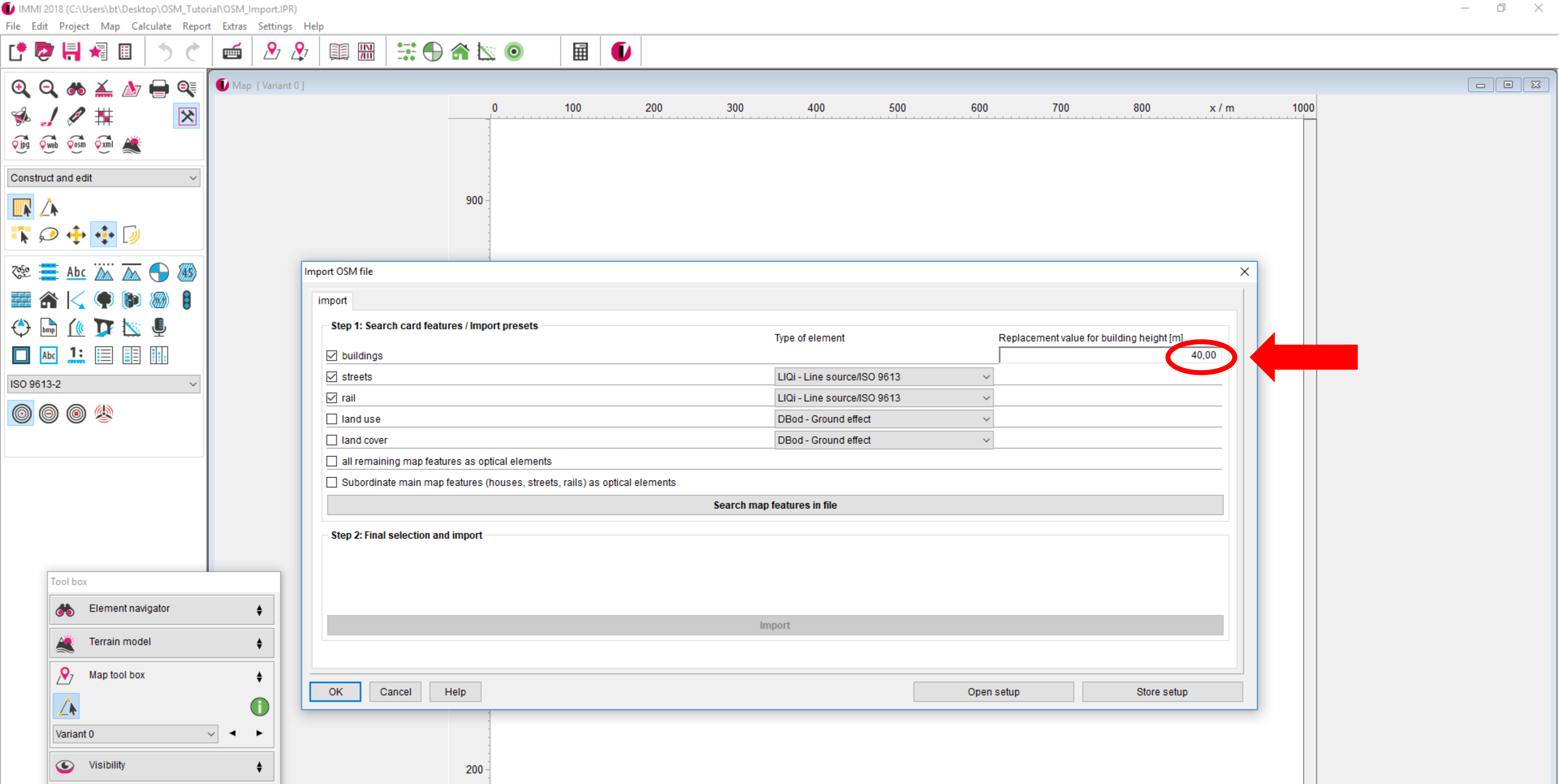


Here we can choose the map features to be imported to the project as well as the IMMI element type they should be converted to.

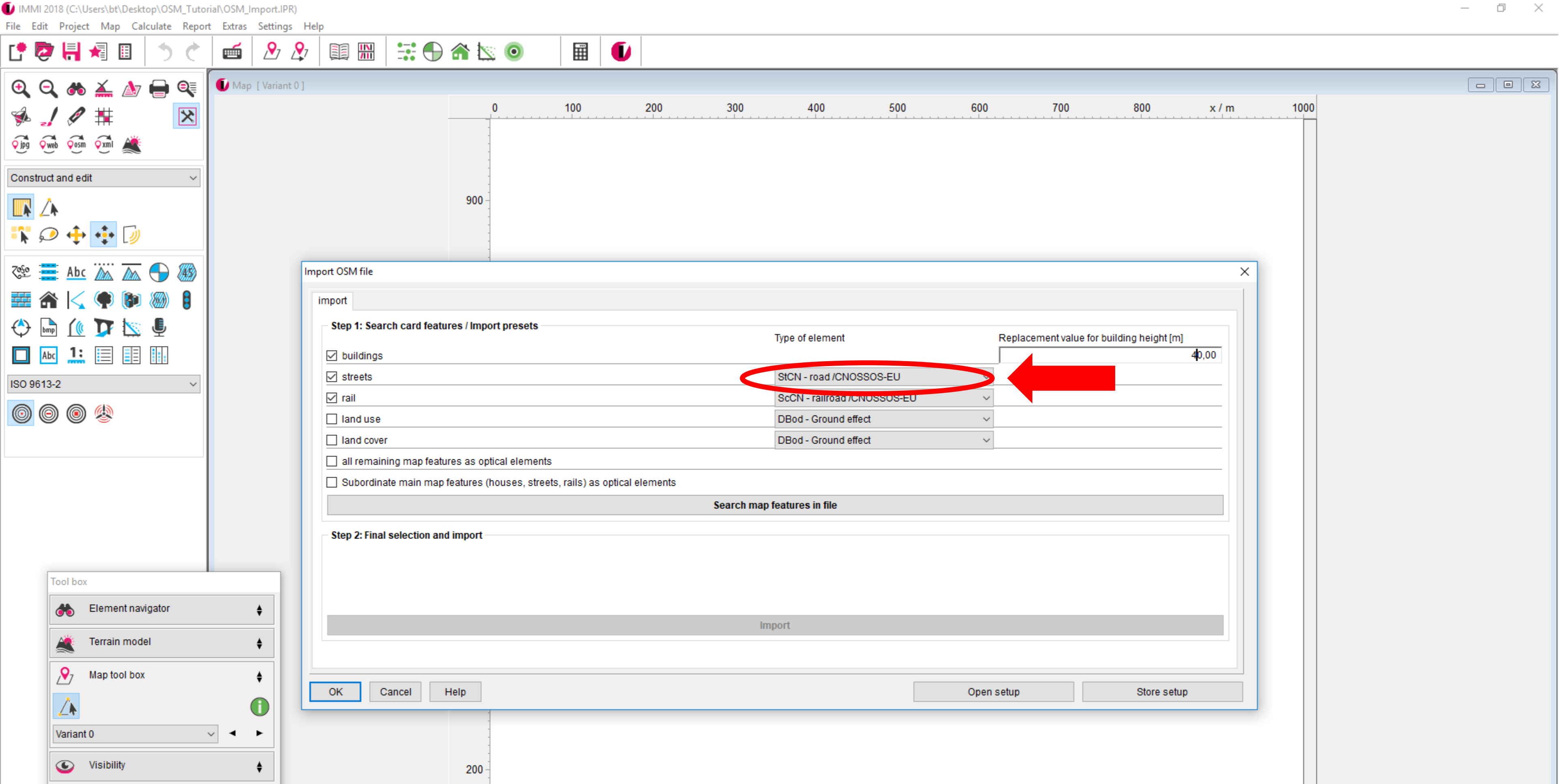




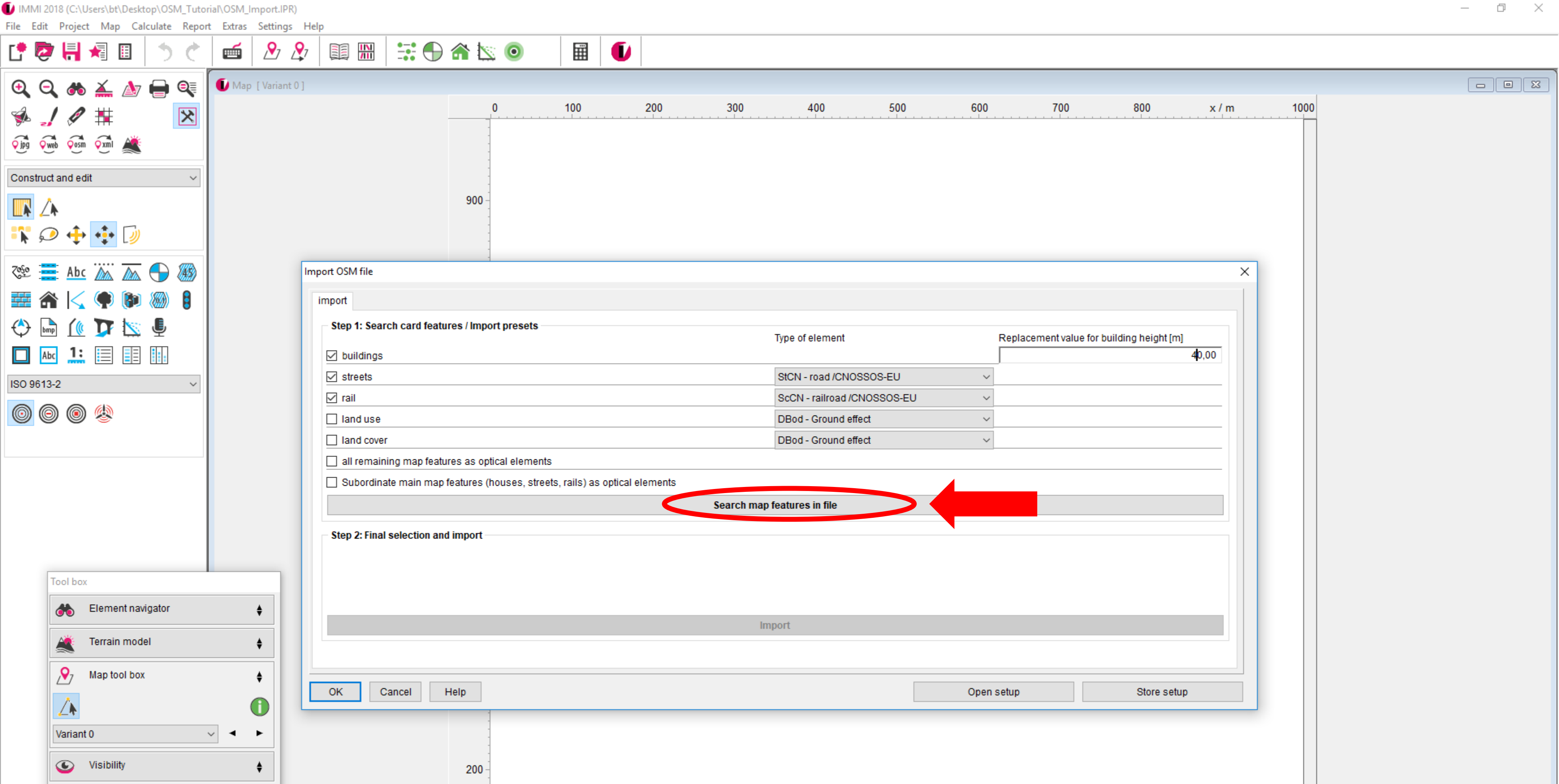
We activate the map features buildings, streets and rail in our example.



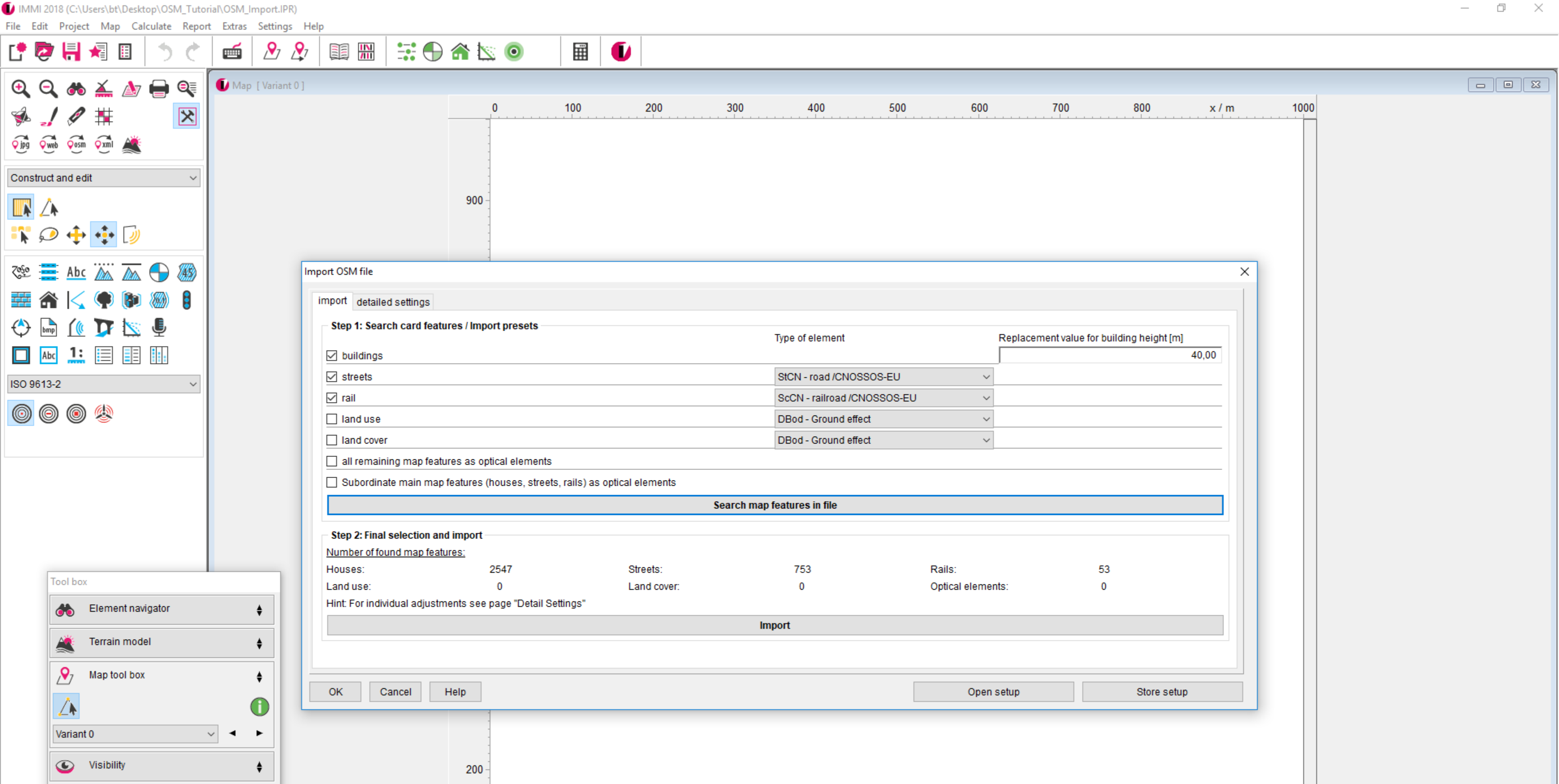
The building height is considered according to OSM data if available. For buildings without height information, you can define a default value.



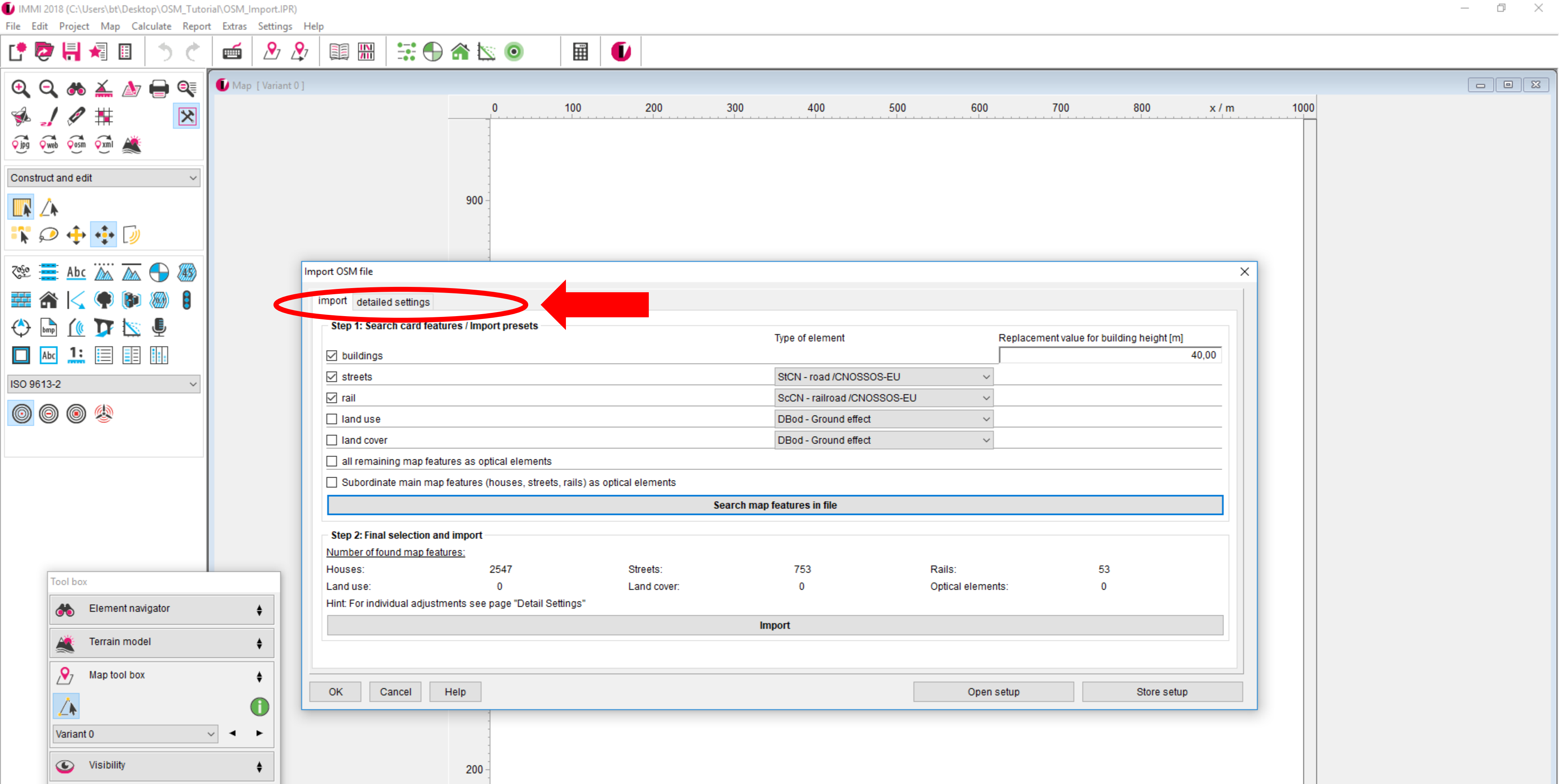
For the features streets and rail, you can choose the IMMI element they should be converted to.



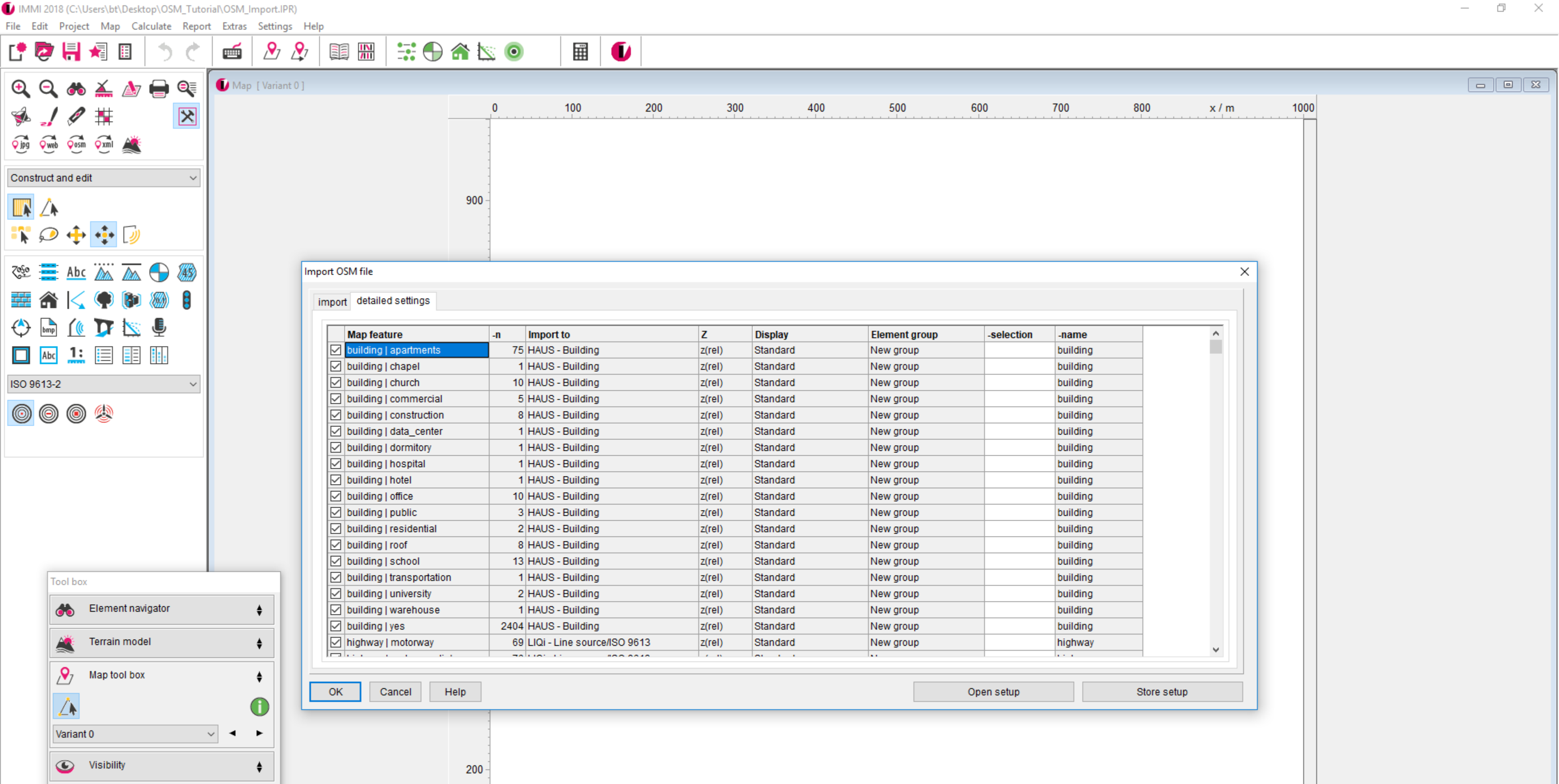
Then press "Search map features in file".



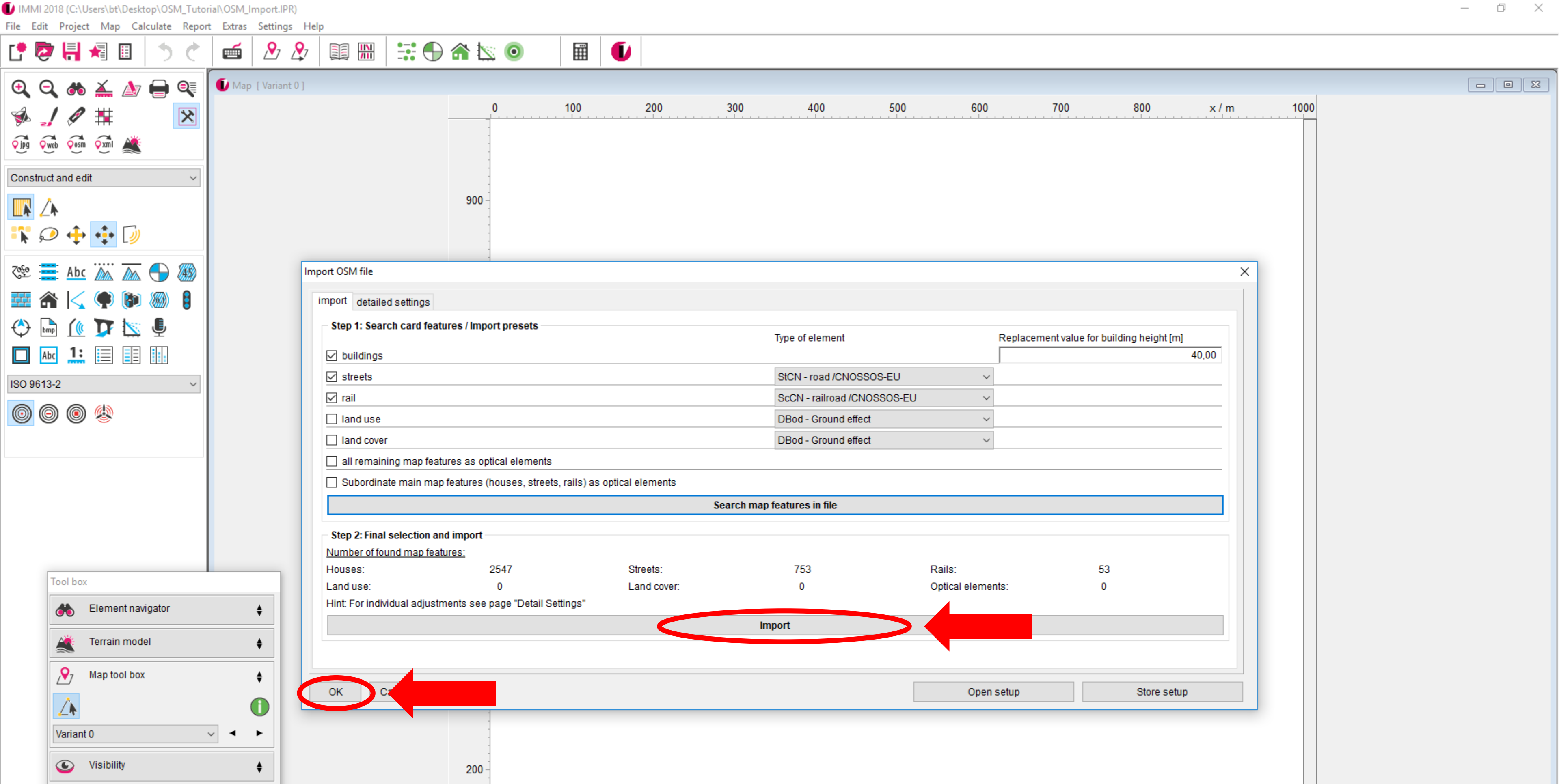
The dialogue gives a brief overview of the number of elements that have been found in the .osm file.



At this point you can apply additional settings on the tab „detailed settings“.

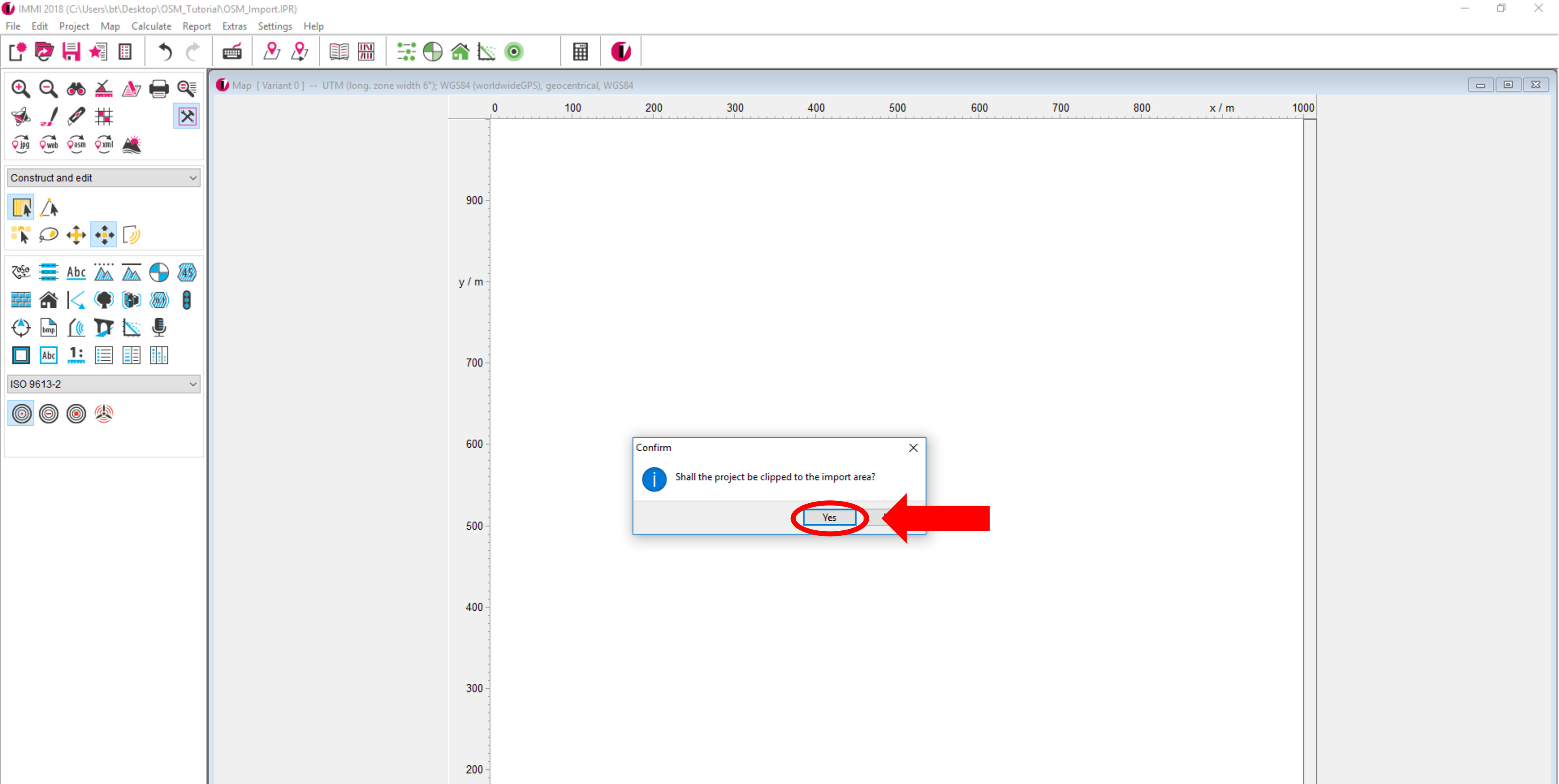


Map features are sorted in sub categories which can be deactivated according to the user's needs. Further parameters can be changed, too.

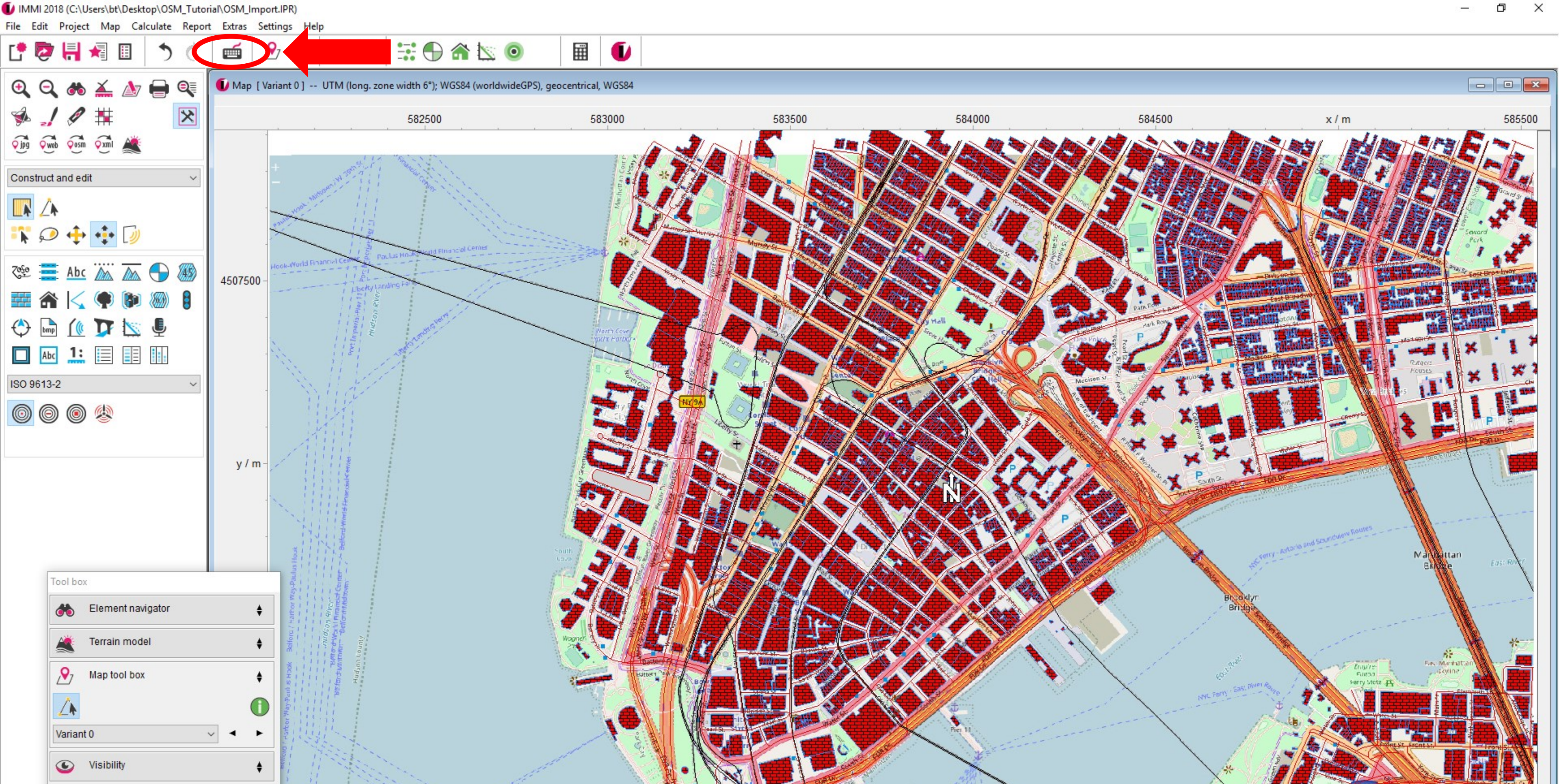


Going back to the import tab, first press import and then OK.

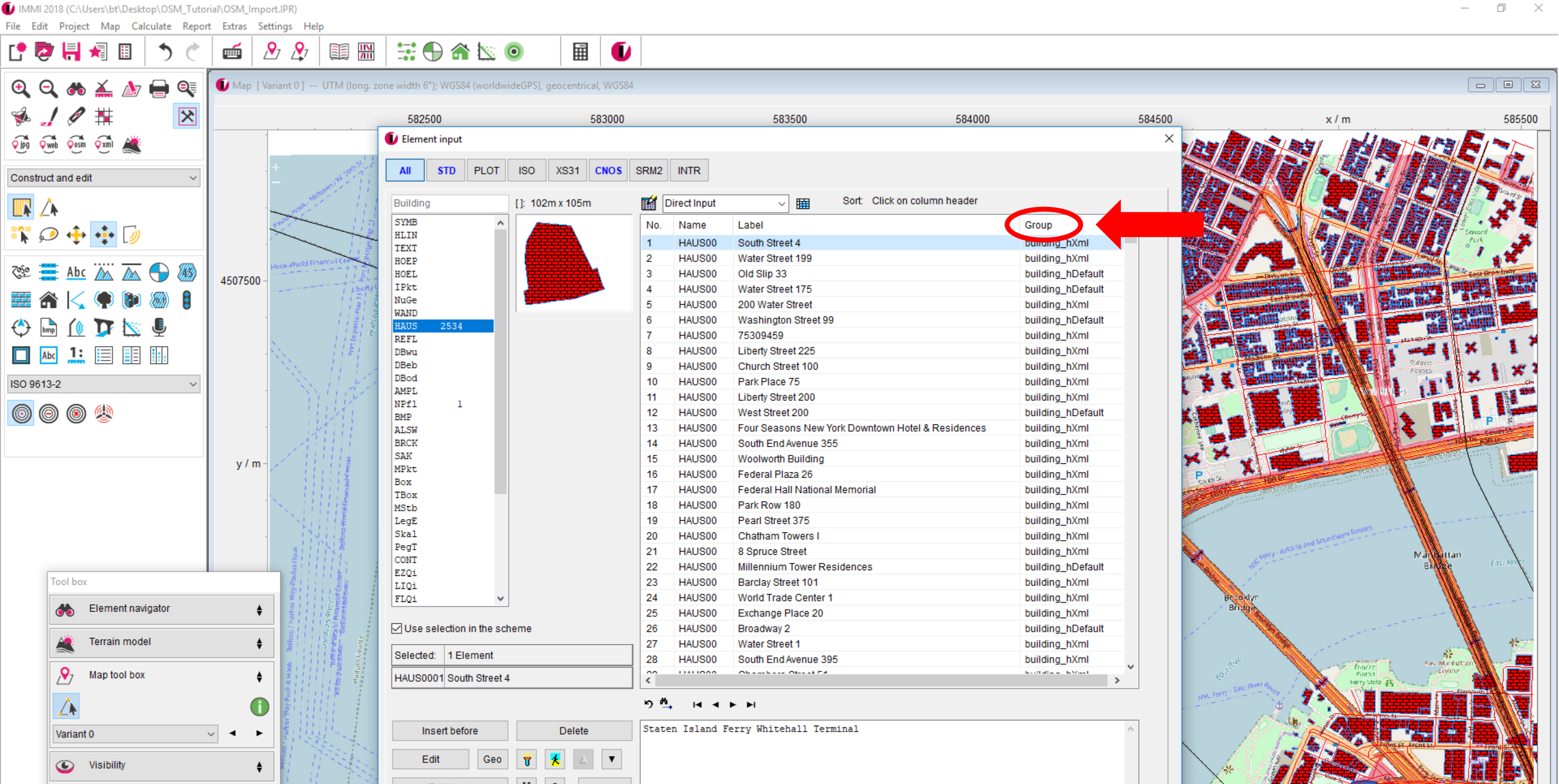




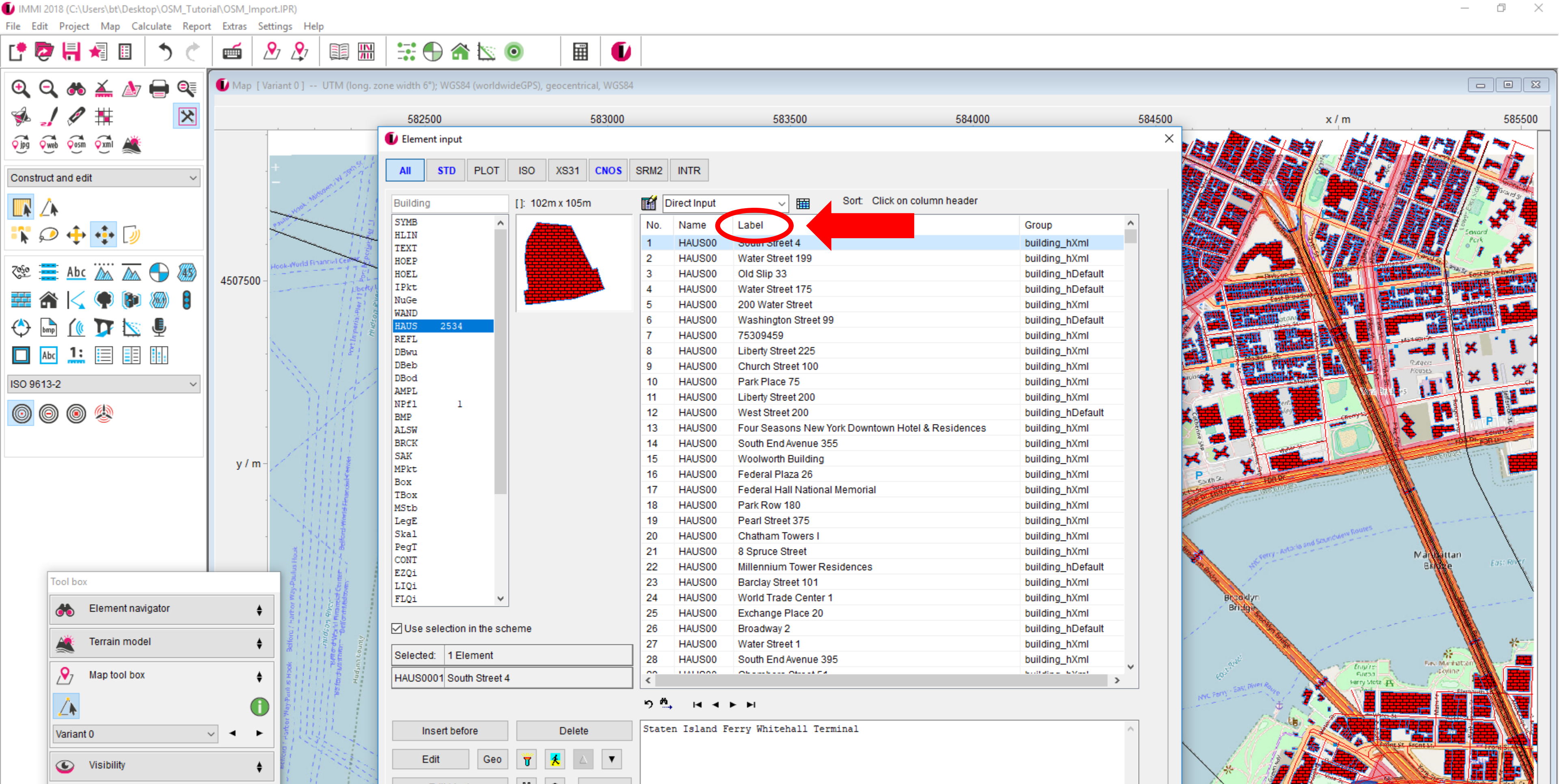
In order to adjust the work area of the project to the import area confirm the dialogue with „Yes“.



All selected map features have been imported to IMMI. Check the element list to view the element properties.



Buildings are imported in the groups building\_hXml or building\_hdefault according to the origin of the height value.



The label represents the street address if this information is available in OSM.

IMMI 2018 (C:\Users\bt\Desktop\OSM\_Tutorial\OSM\_Import.IPR)

File Edit Project Map Calculate Report Extras Settings Help

Map [ Variant 0 ] -- UTM (long. zone width 6°); WGS84 (worldwideGPS), geocentric, WGS84

582500 583000 583500 584000 584500 585500 x / m

4507500 y / m

Element input

All STD PLOT ISO XS31 **CNOS** SRM2 INTR

road /CNOSSES-EU [ 86.46m x97.48m ] Direct Input Sort: Click on column header

No.	Name	Label	Group
1	StCNO	Old Slip	residential street
2	StCNO	Liberty Street	residential street
3	StCNO	5669194	highway
4	StCNO	5669206	highway
5	StCNO	5669304	highway
6	StCNO	5669420	highway
7	StCNO	Spruce Street	residential street
8	StCNO	Fletcher Street	side road
9	StCNO	5669636	highway
10	StCNO	Broadway*	country road
11	StCNO	Broadway	residential street
12	StCNO	Platt Street	side road
13	StCNO	Hanover Street	residential street
14	StCNO	Murray Street	residential street
15	StCNO	Thomas Street	residential street
16	StCNO	Park Place	residential street
17	StCNO	State Street Plaza	federal highway
18	StCNO	Duane Street	residential street
19	StCNO	Duane Street	residential street
20	StCNO	Oliver Street	residential street
21	StCNO	Mott Street*	residential street
22	StCNO	Peck Slip	residential street
23	StCNO	Peck Slip	residential street
24	StCNO	Cliff Street	residential street
25	StCNO	East Broadway	country road
26	StCNO	New York Plaza	federal highway
27	StCNO	2nd Place	residential street
28	StCNO	Cedar Street	side road
29	StCNO	Cedar Street	residential street

StCNO 745

Use selection in the scheme

Selected: 1 Element

StCNO01 Old Slip

Insert before Delete

Edit Geo

No notes available

Road sources are categorized into sub categories and placed in groups accordingly.

IMMI 2018 (C:\Users\bt\Desktop\OSM\_Tutorial\OSM\_Import.IPR)

File Edit Project Map Calculate Report Extras Settings Help

Map [ Variant 0 ] -- UTM (long. zone width 6°); WGS84 (worldwideGPS), geocentric, WGS84

582500 583000 583500 584000 584500 585500 x / m

4507500 y / m

Element input

All STD PLOT ISO XS31 **CNOS** SRM2 INTR

railroad /CNOSSES-EU [ ]: 379m x 269m Direct Input Sort: Click on column header

No.	Name	Label	Group
1	ScCN0	IRT Lexington Avenue Line*	tube
2	ScCN0	BMT Broadway Line*	tube
3	ScCN0	Manhattan Bridge subway tracks*	tube
4	ScCN0	IND Culver Line*	tube
5	ScCN0	Manhattan Bridge subway tracks*	tube
6	ScCN0	IND Fulton Street Line*	tube
7	ScCN0	IND Sixth Avenue Line*	tube
8	ScCN0	Montague Street Tunnel*	tube
9	ScCN0	Downtown Hudson Tubes*	tube
10	ScCN0	Manhattan Bridge subway tracks*	tube
11	ScCN0	BMT Nassau Street Line*	tube
12	ScCN0	IND Eighth Avenue Line*	tube
13	ScCN0	IRT City Hall Loop	tube
14	ScCN0	BMT Nassau Street Line	tube
15	ScCN0	IRT Lexington Avenue Line	tube
16	ScCN0	IRT Lexington Avenue Line*	tube
17	ScCN0	Chrystie Street Connection*	tube
18	ScCN0	IND Eighth Avenue Line*	tube
19	ScCN0	IRT Broadway-Seventh Avenue Line*	tube
20	ScCN0	IRT Broadway-Seventh Avenue Line*	tube
21	ScCN0	IRT Broadway-Seventh Avenue Line*	tube
22	ScCN0	IRT Broadway-Seventh Avenue Line*	tube
23	ScCN0	PATH	tube
24	ScCN0	IRT Broadway-Seventh Avenue Line*	tube
25	ScCN0	IRT Broadway-Seventh Avenue Line*	tube
26	ScCN0	IRT Broadway-Seventh Avenue Line	tube
27	ScCN0	IRT Lexington Avenue Line	tube
28	ScCN0	IRT Broadway-Seventh Avenue Line	tube
29	ScCN0	IRT Broadway-Seventh Avenue Line	tube

Selected: 1 Element

ScCN001 IRT Lexington Avenue

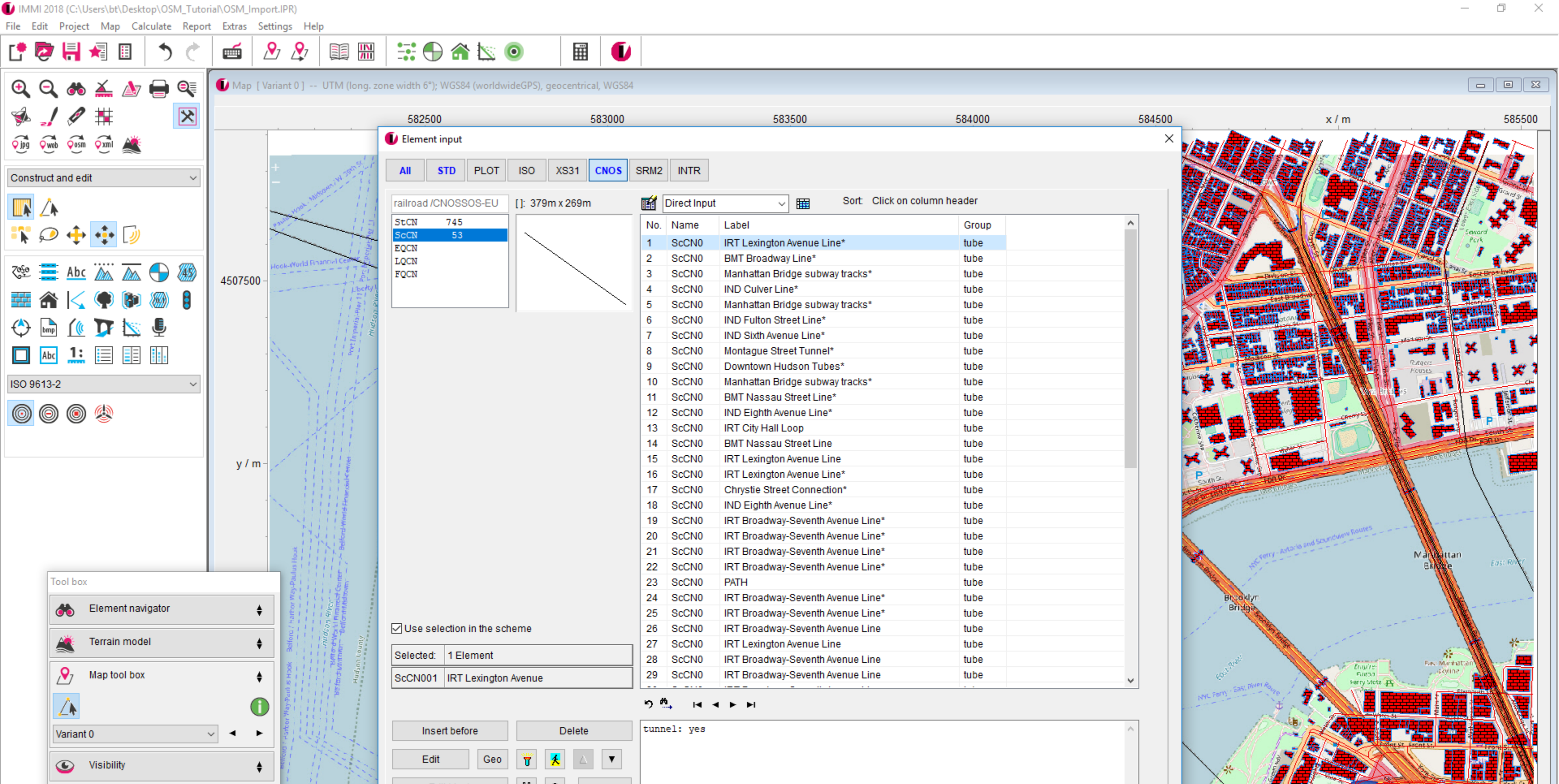
Use selection in the scheme

Insert before Delete

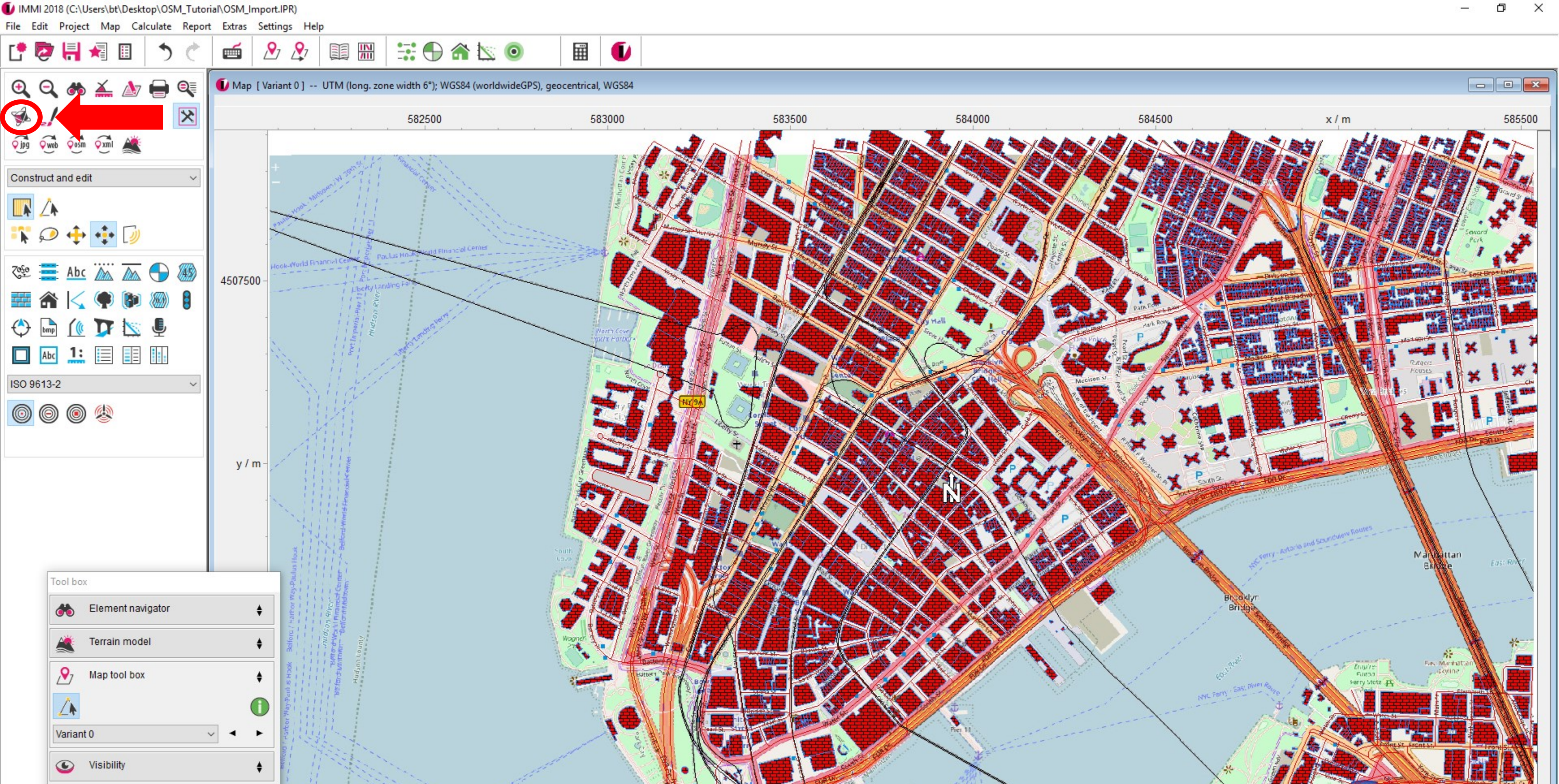
Edit Geo

tunnel: yes

The same applies for railway sources.

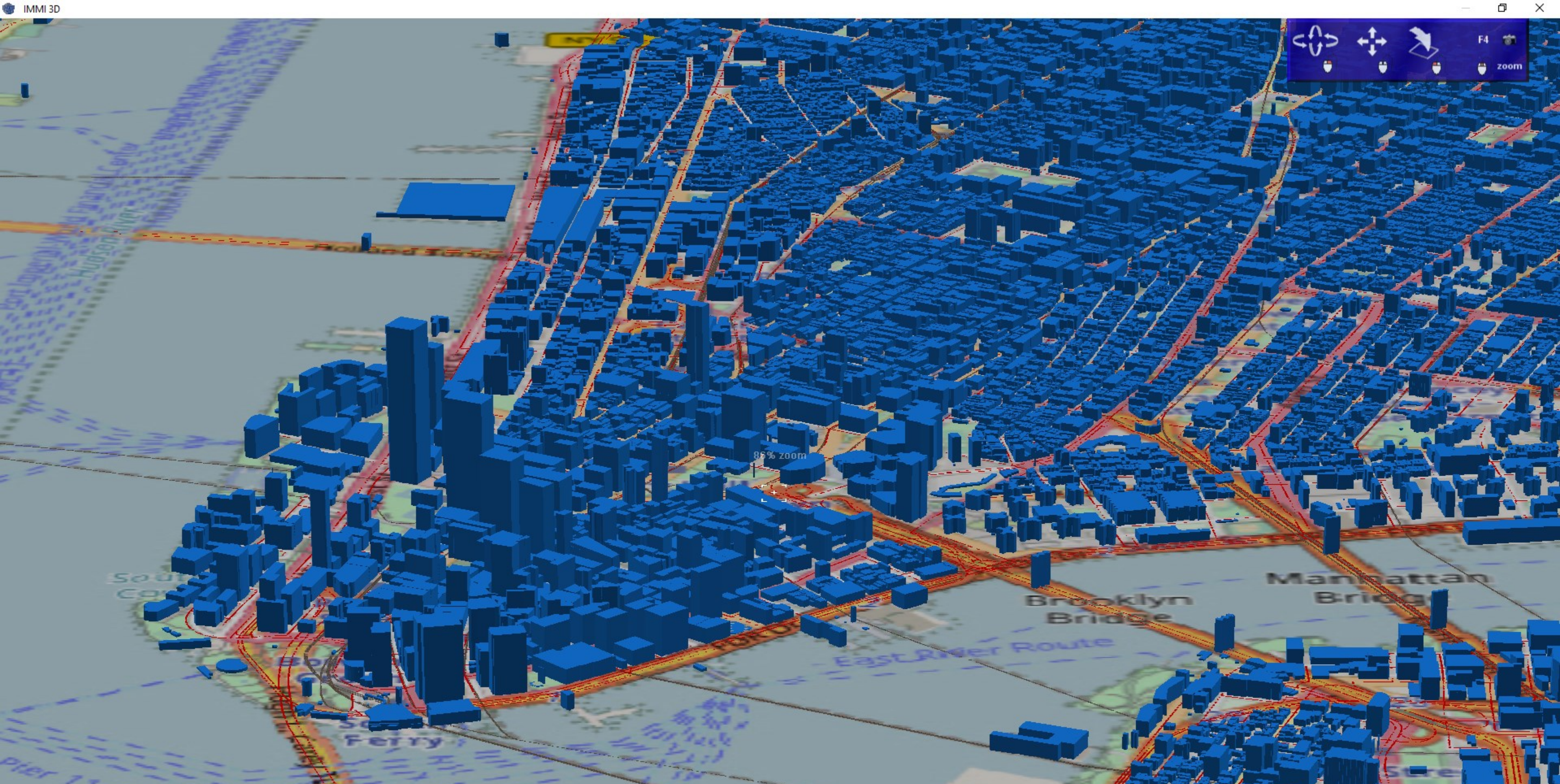


Close the element list to have a look at the 3D model.



In order to start the 3D viewer click the respective icon.





The setup of the model is now complete.

