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#### **Course summary**

#### Day 1

Getting started with mapping

WMI Tasking Manager

Mapping buildings

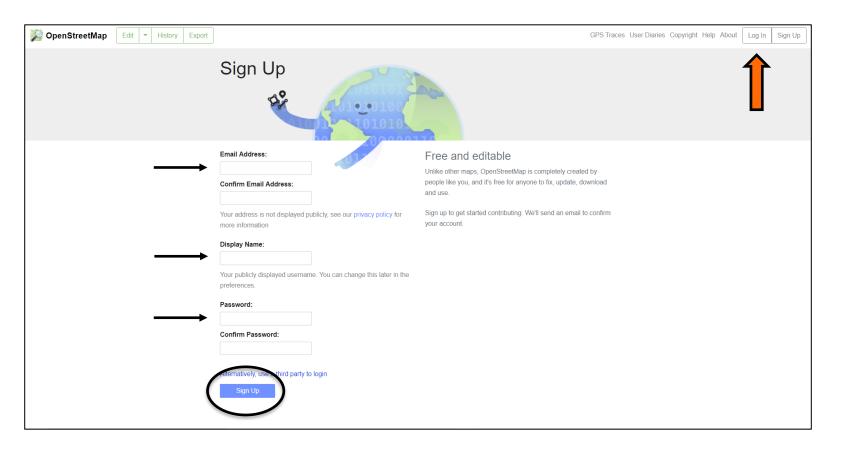
Checking personal contributions





#### **Getting started**

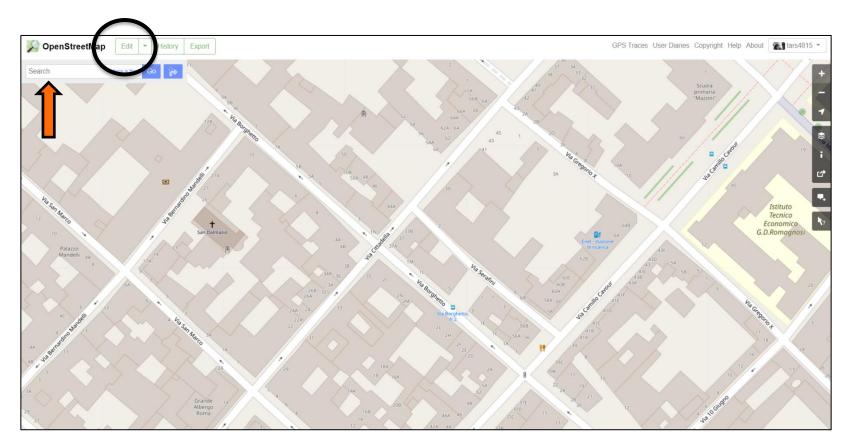
Go to the website (<u>https://www.openstreetmap.org</u>) and create a new user profile or log in by using personal credentials.







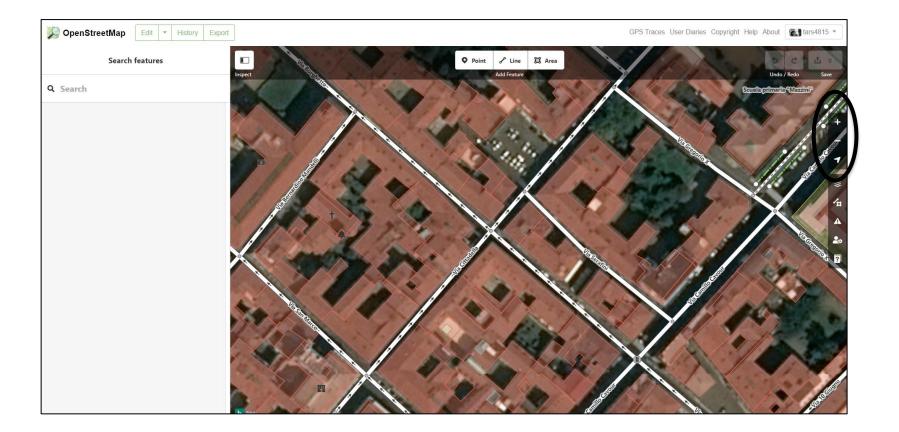
After logging in on OSM website, you can search a specific location and then enter editing mode by clicking on the Edit button.



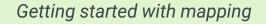




From the lateral menu, it is possible to zoom in, zoom out and look for the current user position on the map.

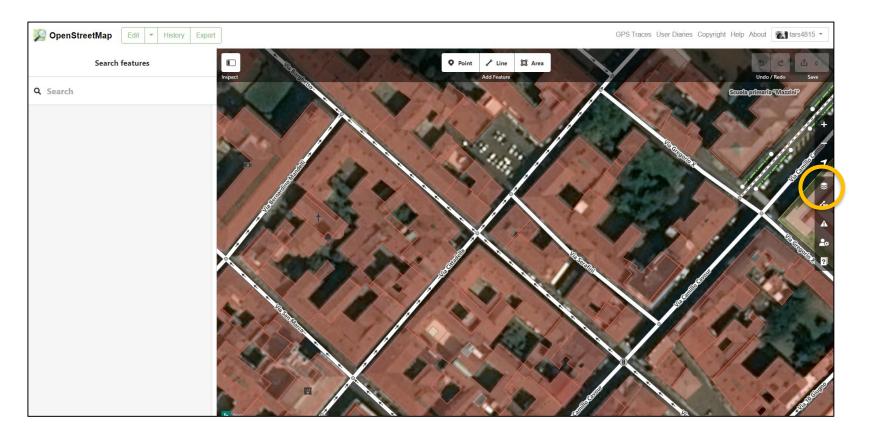








Clicking on the sicon, you will enter **Background Options** view where it is possible to define specific settings.







#### **Background Options**

#### Background

✓ Backgrounds
Bing aerial imagery
O Esri World Imagery
O Esri World Imagery (Clarity) Beta
O Mapbox Satellite
O Maxar Premium Imagery (Beta)
O Maxar Standard Imagery (Beta)
O OpenStreetMap (Standard)
() ОрепТороМар
O Stamen Terrain
O Thunderforest Outdoors
O Lombardia - Italy (CTR DBT)
O Lombardia - Italy (CTR)
O PCN 2006 - Italy
O PCN 2012 - Italy
O None
O Custom
Show Minimap
Show Detail Panel
C Report an Imagery Problem

#### V Overlays

Locator	Overlay
OpenRa	ailwayMap Maxspeeds
OpenRa	ailwayMap Signalling
OpenSt	reetMap GPS traces
<ul> <li>Display</li> </ul>	Options
Brightness	100%
	• 5
Contrast 1	00%
	• 5
Saturation	100%
	• 5
Sharpness	100%
	<del>د</del>

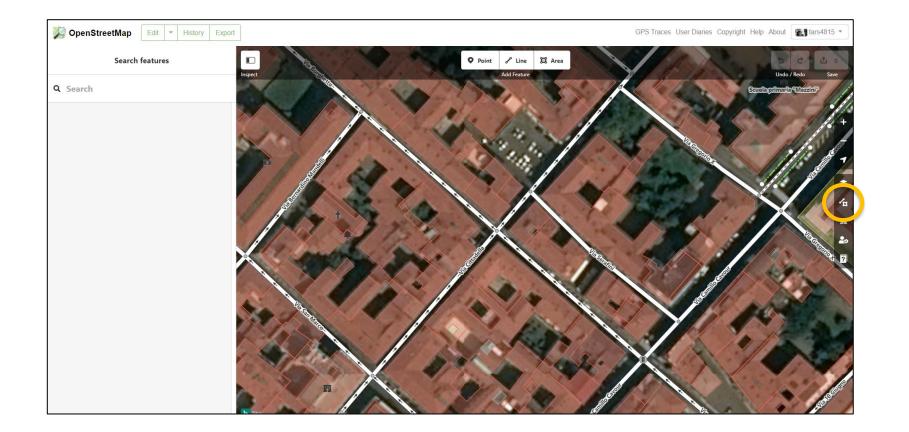
#### ✓ Adjust imagery offset

Drag anywhere in the gray area below to adjust t imagery offset, or enter the offset values in mete	
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Clicking on the sicon, you can decide which map data and layers are visible on the current map view.







#### Map data settings

#### Map Data

#### ✓ Data Layers

OpenStreetMap data
 OpenStreetMap notes

KeepRight Issues

ImproveOSM Issues

#### ✓ Photo Overlays

Custom Map Data

Bing Streetside	
Mapillary	
Map Features	🕼 Request Data
Traffic Signs	
OpenStreetCam	

... Q

#### ✓ Style Options

No Fill (Wireframe)
 Partial Fill
 Full Fill

Highlight Changes

#### ✓ Map Features

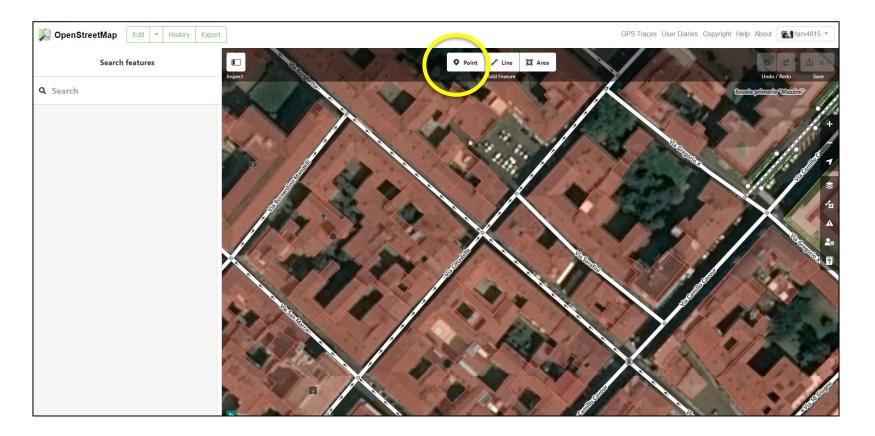
- Points	
✓ Traffic Roads	
Service Roads	
Paths	
<b>V</b> Buildings	
Building Parts	
Indoor Features	
Landuse Features	
<b>Z</b> Boundaries	
✓ Water Features	
Rail Features	
✓ Pistes	
Aerial Features	
Power Features	
Past/Future Features	
Other Features	

Disable All Enable All



#### **Points**

To create a new point feature you have to activate the **Point** button and to click on its position on the map. To edit an existing one, you only have to drag it.







**Points** 

On the right side you can search the **feature type** that corresponds to the point.



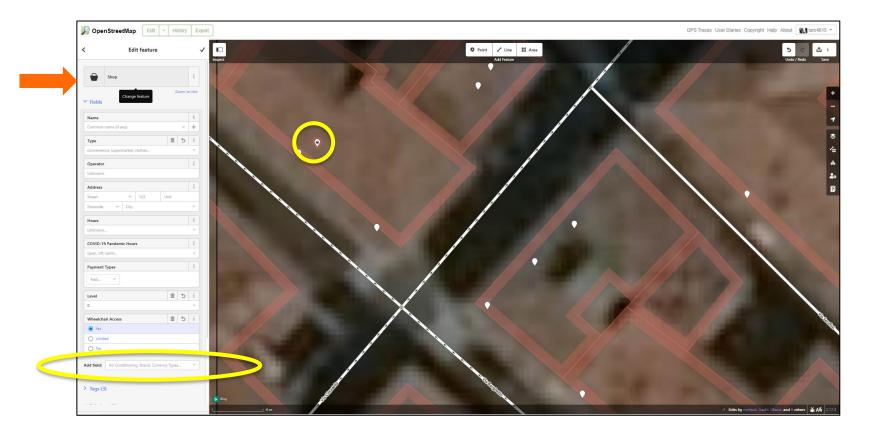




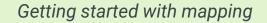


#### **Points**

Then you can define the values of the **tags** requested for the activity. If not all of them are visible you can add them by clicking on **Add Field**.



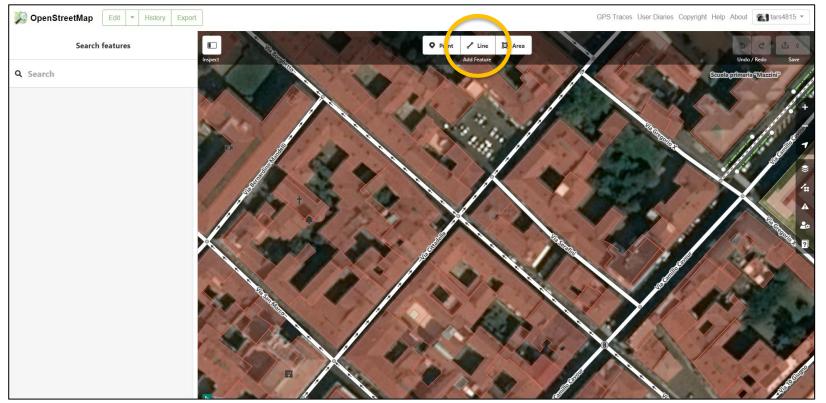




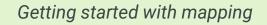


#### Lines (Way)

To create a new line feature you have to active the **Line** button and then to track it on the map by defining its nodes. To edit an existing one, you only have to change the position of nodes or adding new ones to an existing line.



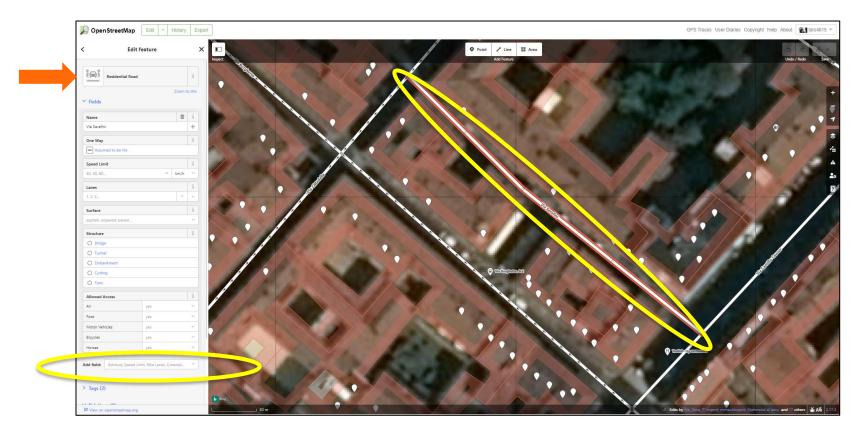






#### Lines (Way)

After having selected the **line type**, you can define the values of specific tags. If not all of them are visible you can add them by clicking on **Add Field**.

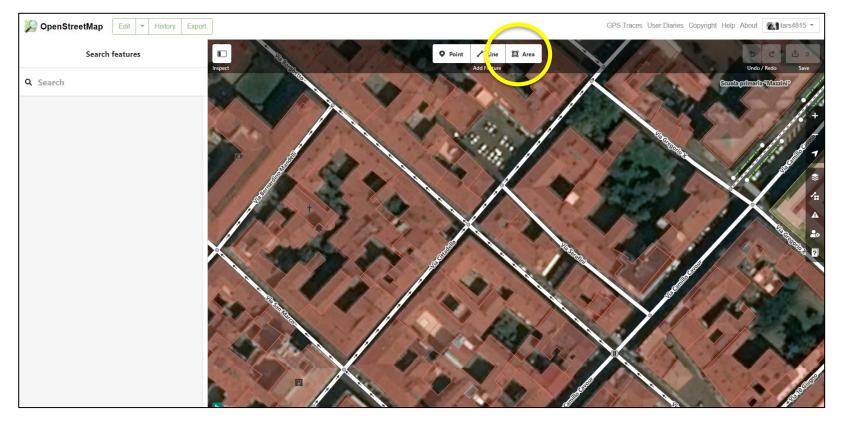






#### Areas (Closed way)

For a new area feature you have to active the **Area** button and then to track the boundaries of the polygon shape defined by its nodes placed on the map. To edit an existing area, you only have to change the position of nodes or adding new ones.



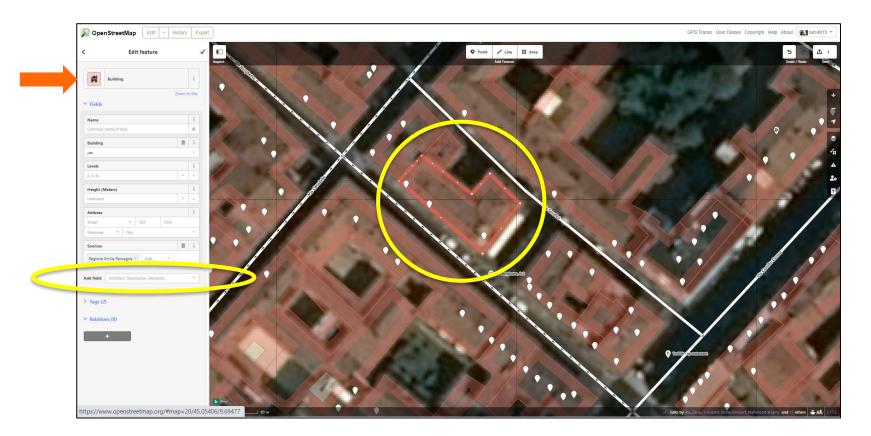




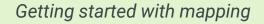


#### Areas (Closed way)

After having selected the **line type**, you can define the values of specific tags. If not all of them are visible you can add them by clicking on **Add Field**.



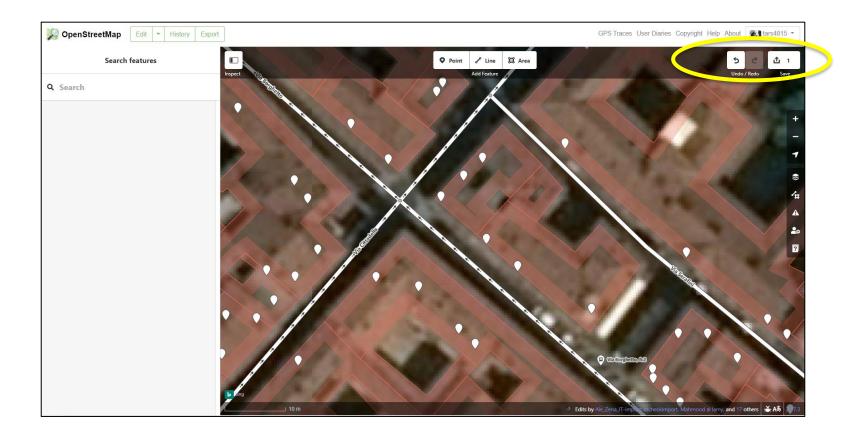




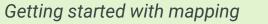


## Save changes

You can move between your changes history by clicking on the **undo/redo** buttons. Once you're okay with your edits, you can **save** the changeset by clicking the upload button.



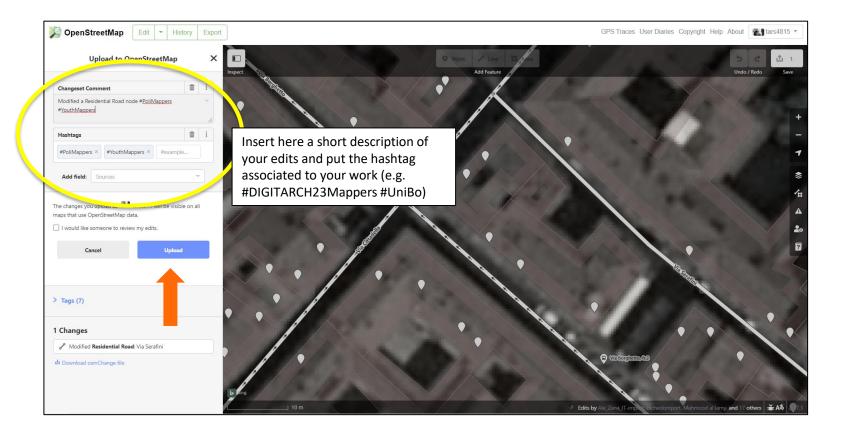






### Save changes

Before uploading, write a comment about your edits and include the specific hashtags associated to the activity. Then click on **Upload**.









## Wikimedia Italia Tasking Manager

Wikimedia Italia together with the Italian OpenStreetMap community has implemented the so-called **Tasking Manager** that allows the coordination of nationally active OSM projects both for emergencies (earthquakes, etc.) and for the organisation of updating data.

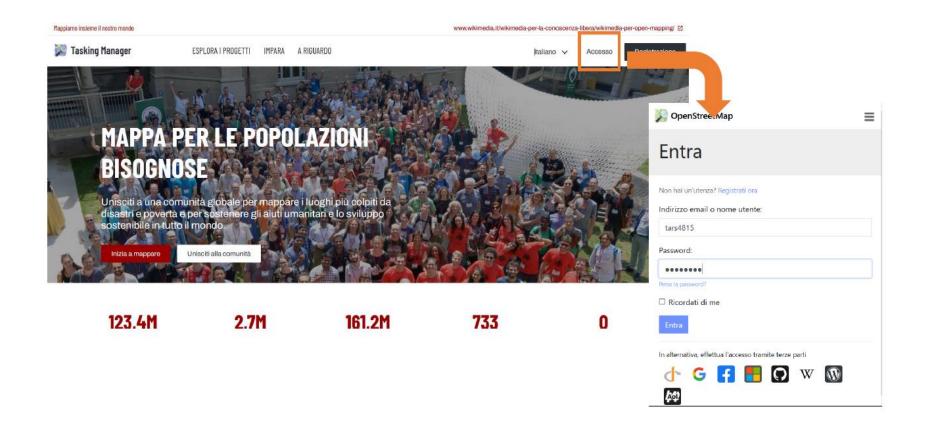
piamo insieme il nostro mondo			www.wikim	nedia.it/wikimedia-per-la-conoscenza-libera/wiki	media-per-open-mapping/
STasking Manager ESPLORA I PROGETTI IMPARA A RIGUARDO				Italiano 🗸 Access	Registrazione
ello di difficoltà 🗸 Progetti da map	opare 🗸 Più filtri Ordina per 🗸	Q Search Projects			Mostra la mappa
alizzati 14 di 28					
URGENTE	🕑 ALTA	🔿 ALTA	🔿 ALTA		
#98	#75	#76	#95	Cattura rettancipiare	
Mappatura Borghi #MappyBDayOSMIT 2022	CAIOSM - Piemonte	Improve Asti	CAIOSM-Calabria	Campania strade	
n occasione del 6° compleanno di Mikimedia Italia come Local Chapter	Mappatura dei percorsi CAI in Piemonte	Miglioramento della mappatura della provincia di Asti	Mappatura dei sentieri del CAI per la regione Calabria	Mappatura delle strade della regione Campania	
29 contributori totali	17 contributori totali	97 contributori totali	Ultimo contributo 9 mesi fa	26 contributori totali	
Mappatore Principiante	Mappatore Intermedio	Mappatore Intermedio	Mappatore Intermedio	Mappatore Principiante	
#13	#25	#28	#29	#30	
Terremoto Centro Italia 24-08-2016	Mapathon 4 Cultural Heritage - Corte Sant'Andrea (LO) e dintorni	#OsmGeoWeek 2017 - 1	PerugiaOSM	ITI Avogadro (Turin, Italy) for India	
osmit-tm4.wmcloud.org/projects/7	30 marzo dalle 16 alle 22. A breve	La partecipazione alla OSMGeoWeek	Task di esercitazione per la giornata	Esercitazione degli studenti dell'ITI	

#### https://osmit tm4.wmcloud.org/





**Step 1**: log in to the Tasking Manager with OpenStreetMap credentials.



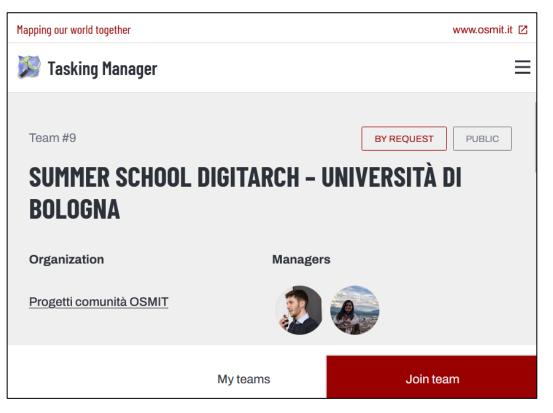




Wikimedia Italia Tasking Manager

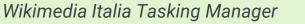
## Wikimedia Italia Tasking Manager

Before starting with the mapping operation, it is necessary to join the mapping team named **Summer School DIGITARCH – Università di Bologna** at the following link, after logging in with your credentials.



#### https://osmit-tm4.wmcloud.org/teams/9/membership/







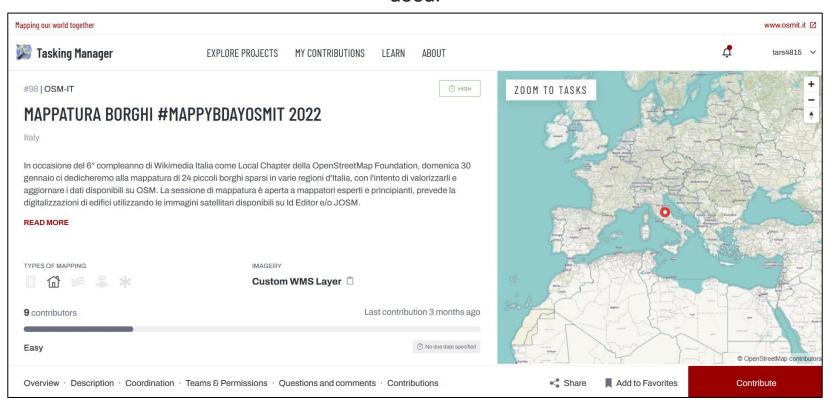
Step 2: in the "Explore Projects" section, search for project #98 Mappatura Borghi #MappyBDayOSMIT 2022 (https://osmit tm4.wmcloud.org/projects/98) and make sure you are correctly logged in.

Mapping our world together					www.osmit.it 🛽
📡 Tasking Manager	EXPLORE PROJECTS	MY CONTRIBUTIONS LEARN	ABOUT	ţ	tars4815 🗸
Difficulty level $\checkmark$ Any project $\checkmark$	More filters Sort by V	Q 98 🗙	Clear filters		Show map
showing 1 of 1 projects					
C HIGH					
#98					
Mappatura Borghi #MappyBDayOSMIT 2022					
In occasione del 6° compleanno di Wikimedia Italia come Local Chapter dell					
45 total contributors					
Easy					
			1		



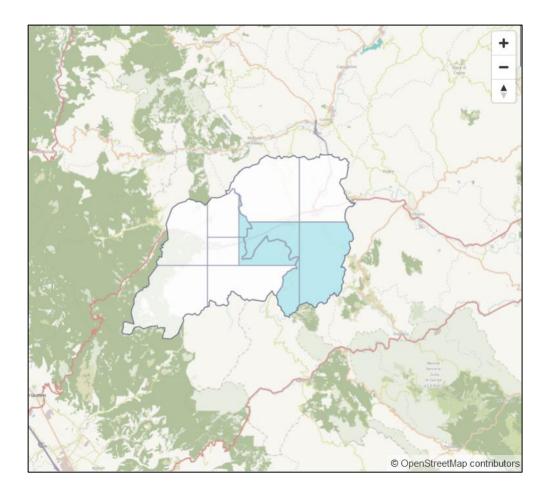


**Step 3**: on the project page, read the description and information carefully. In the Tasking Manager, these sections re port the following the characteristics of the project including the type of mapping for which it is indicated, the type of feature and geometry to be mapped and the satellite image to be used.









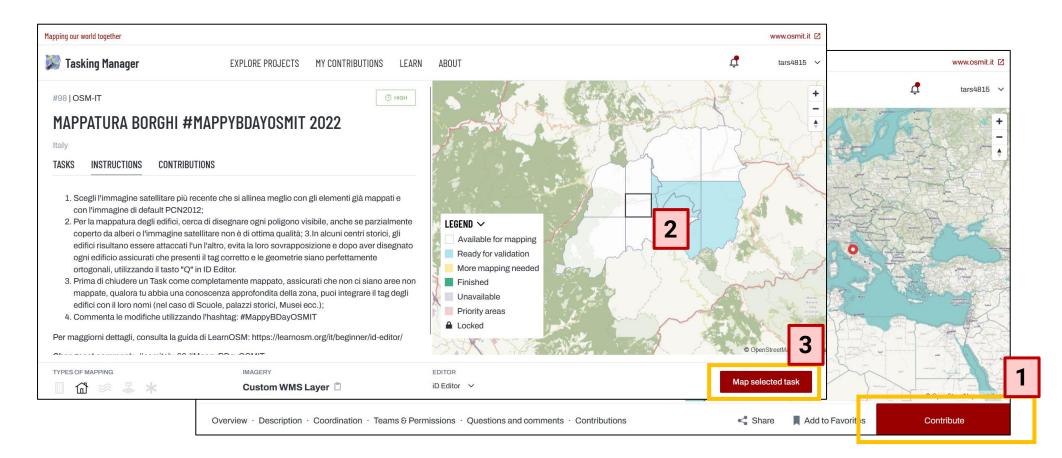
**Step 3**: By clicking on "Zoom to tasks" in the map pane, you can assess the current progress of the project divided into " tasks," areas of a regular grid that allow the mapping and validation to different users, which, by "blocking" one, avoid conflicts related to multiple mapping activities in the same areas. Areas with a padlock symbol are not selectable because they are already occupied by other users. The white areas are the ones that can be used while the blue ones are waiting for validation and the green ones have been validated. Yellow areas, on the other hand, are areas that during validation were not found to be complete

in the mapping and therefore need to be reused to complete the tasks. Gray areas can also be identified in the task area where mapping is not possible because a user previously reported that the satellite image in that area is not of good quality.





**Step 4**: clicking "Contribute" (1) takes you to the task selection screen. Select an unlocked task (2) and begin to mapping by clicking "Map selected task" (3).



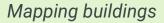




**Step 5**: The iD Editor will appear on the new screen. In the left panel the TM options including the instructions remain visible to be consulted if you have any doubts. The area within which you can map is indicated by a violet perimeter.

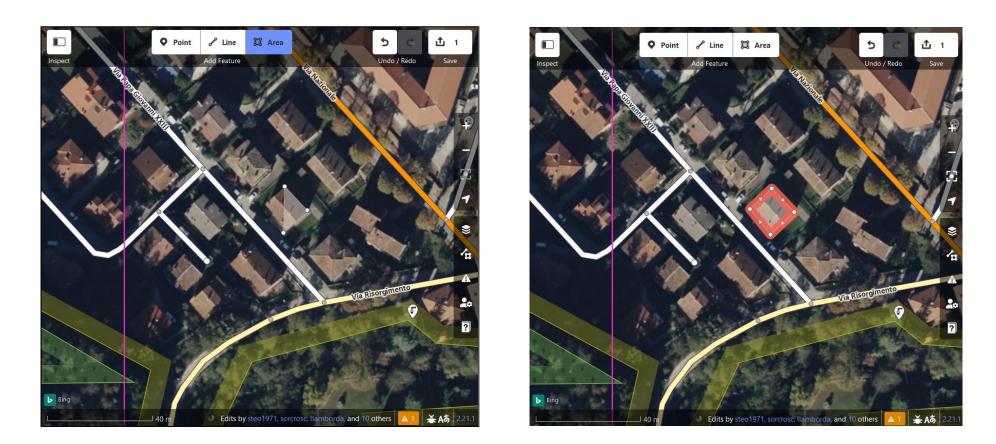




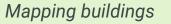




**Step 6**: Click on the "Area" icon (key shortcut "1") to activate digitization. After having identified a building, left-click on its vertices. Double-click on the last vertex to finish the insertion.

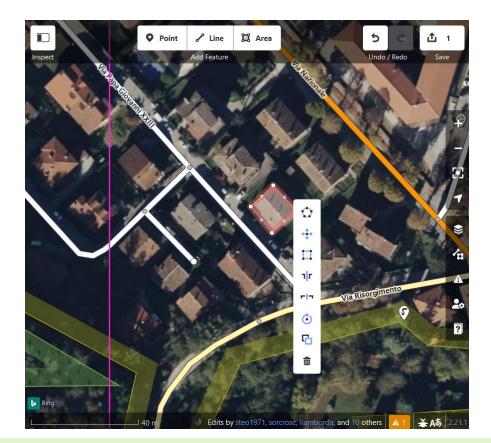








In case the building is a regular shape, make sure that the corners of the shape you have just drawn are correctly orthogonalized. For this operation, you must first select the perimeter of the building and then right-click by selecting the appropriate "Square" command (shortcut from the "Q" key). A similar operation can also be performed for buildings that are circular in shape by clicking the "Circularize" or the "O" key.

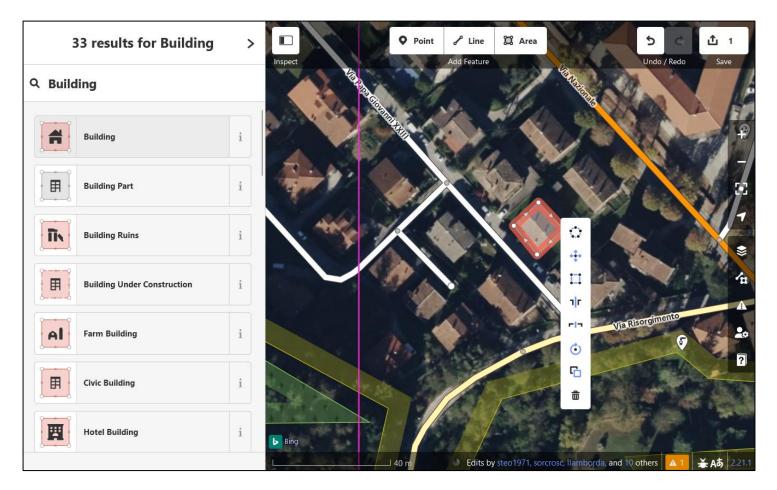






Mapping buildings

**Step 7**: After defining the geometry of the element, the correct tag must be entered to associate a meaning. In the search bar on the left, then search for "Building." Click on the corresponding item.







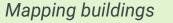
Mapping buildings

✓ Tipo di eleme	ento			
Edifici	0			i
🗸 Campi				
Nome				i
Nome proprio (se			Ŧ	+
Edificio		前	5	i
yes				-
Piani				i
2.4.6_			~	
Altezza (Metri)				i
Sconosciuto			Ŧ	-
Indirizzo				i
123	Strada			-
Città	~	Codice	posta	in T
Aggiungi campo:	Accesso in carrozzin	a, Archite	atto, C	
✓ Etichette (1)				Ĩ
building	- yes	-	÷	i
+				
✓ Relazioni (0)				

The option just selected will allow the **building = yes** tag to be automatically associated with the element.

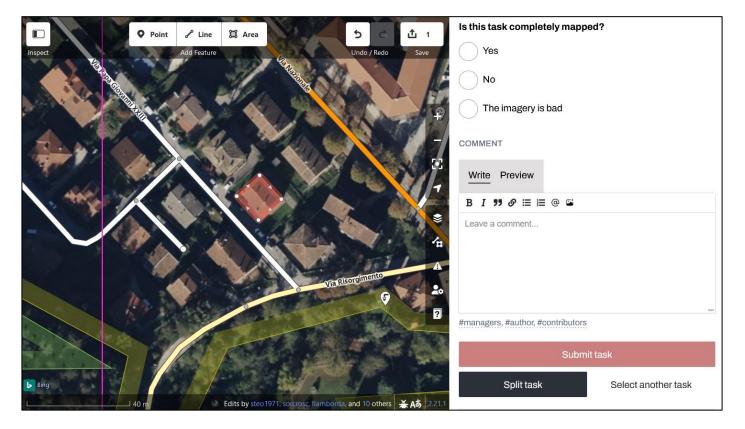
Under "Labels," it is additional tags can be added to associate other features with the element just entered on OpenStreetMap.







**Step 8**: After finishing the task in the iD editor and uploading the changeset, you need to unlock the task in the Tasking Manager, indicating what you have done with your mapping and updating the status of the task. Indicate that the task is complete only when all buildings in the area are mapped. Click "Submit Task" to confirm task completion.







## **Buildings - Common mistakes to avoid**

Initial operations on OpenStreetMap and building mappings are generally affected by some common errors related to unfamiliarity with the editor or Tasking Manager interface.

Before saving your changes, always make sure that you have:

- Correctly orthogonalized buildings with a regular shape and made circular those that require such an operation
- Mapped the buildings by following their "footprint on the ground" and avoiding including shadows or changing the perimeter with hovering vegetation
  - Inserted buildings corresponding to what is visible in the satellite image
    - Avoided adding duplicates of buildings already in OSM
- Plotted the perimeters of buildings without causing overlapping with other elements (other buildings and/or roads etc.)
  - Added the required tag (building=yes)





# **Checking personal contributions**

