

OpenStreetMap Mapathon

Mapping pedestrian crossings with Pic4Review

August 1-3, Foundation University, Dumaguete



P I S T A
N G M A P A

open data & software • free maps • community • talks • workshops



KAART



mapbox



Mapillary UΔV4GEO

Rally De Leon



OpenStreetMap
User ID: Rally



KAART

Data Team Member

inclusive

mOBILITY

Mobility of all, for all, by all.

Sidewalk Advocate

OpenStreetMap



Wikipedia of maps

Open & Free

Anybody can edit and improve the map

Download data & use them for whatever purpose you like, as long as you give credits to OSM Contributors

Kaart



Provides navigation data for an
opensource platform
(OpenStreetMap)



Ground Validations & Quality Control

Its map contributions have powered
Garmin GPS, Apple iOS, and Google
Android devices.

Editing as usual in Kaart

The screenshot displays the Java OpenStreetMap Editor interface. The main map area shows a street network with several roads labeled "Senator Gil Puyat Avenue" and "Ayala Avenue Extension". A red circle highlights a specific node on the map. The interface includes a menu bar (File, Edit, View, Tools, More tools, Data, Selection, Presets, Imagery, Windows, Auto Tools, Mapathoner, Help), a toolbar with various editing tools, and a status bar at the bottom showing coordinates and the current selection: "highway (5 nodes)".

On the right side, there are several panels:

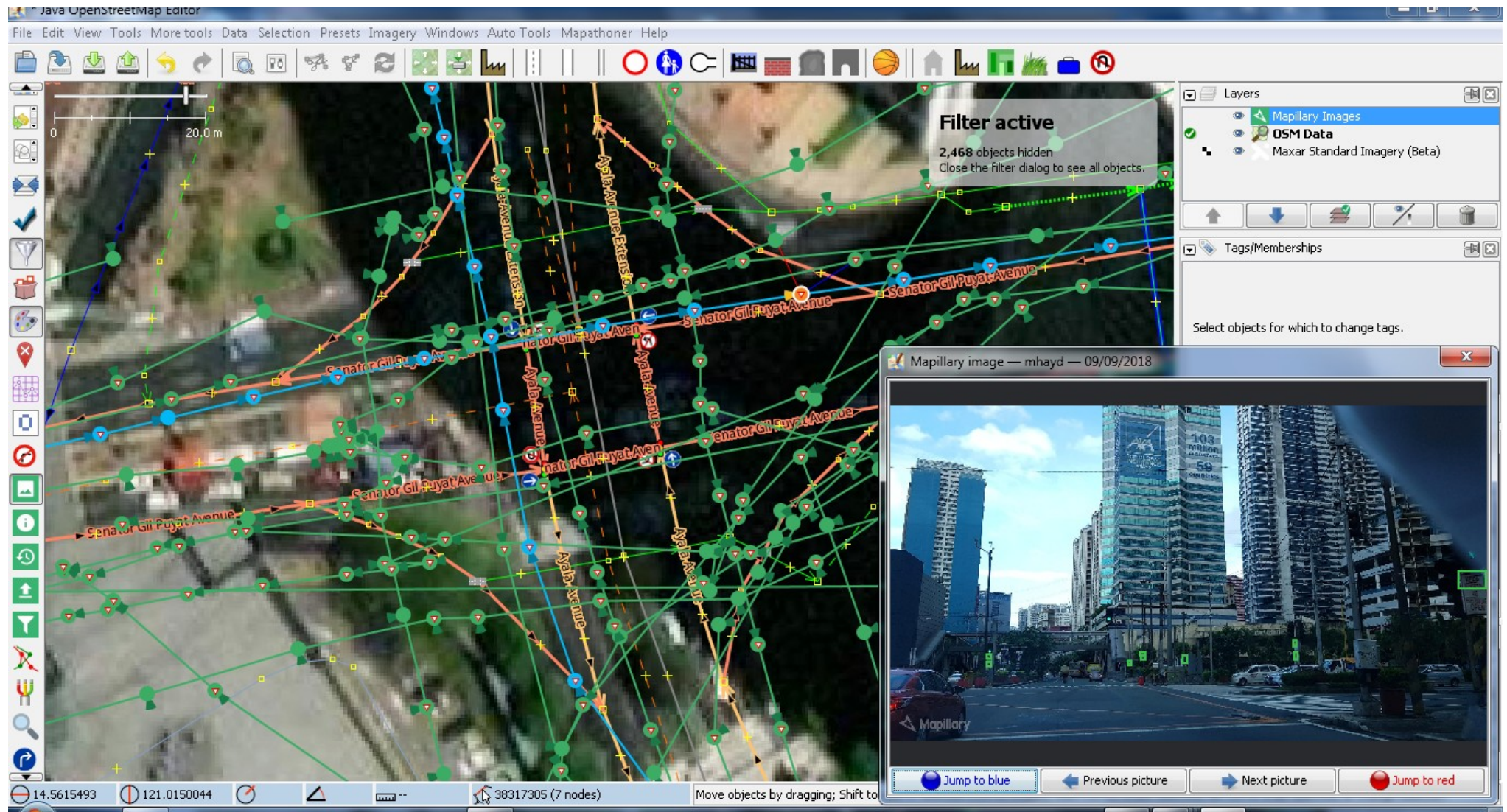
- Layers:** Shows "OSM Data" and "Maxar Standard Imagery (Beta)".
- Tags:** Shows "2 / Memberships: 0" and a table of tags.
- Filter Hidden:** Shows "2,468 Hidden: 2,468 Disabled: 0" and a list of filter criteria.
- Map Paint Styles:** Shows "Wireframe View", "Lane and road attributes", and "Kaart Paint Style".

A "Filter active" dialog box is visible, stating "2,468 objects hidden. Close the filter dialog to see all objects."

Key	Value
crossing	uncontrolled
highway	crossing

Text	I	...
<input type="checkbox"/> modified	<input type="checkbox"/>	A
<input type="checkbox"/> power	<input type="checkbox"/>	A
<input checked="" type="checkbox"/> building OR landuse OR man_made OR p...	<input checked="" type="checkbox"/>	R
<input checked="" type="checkbox"/> building OR amenity OR leisure	<input checked="" type="checkbox"/>	R
<input type="checkbox"/> landuse	<input type="checkbox"/>	b

Using Street-level Imagery from Mapillary



Inclusive Mobility | Dignity of Travel

Transport system that works for the
Poor and Vulnerable Road Users
(*students, seniors, PWD*)

Walkable, bikeable, accessible
neighborhoods

Mobility with safety and civility

Right to information for efficient and
convenient travel



Wesley John Gonzales is at SM Megamall.
26 July at 17:53 · Pasig

There is no dignity in being a pedestrian in Manila.
And we wonder why we're such a car-centric society.

Walking is Transportation

Crossing the street can be a complex task



Photo Credit: www.pedbikeimages.org/Libby Thomas

**Pedestrian estimates vehicle speeds.
Adjust their own walking speed.
Determine adequacy of vehicle gaps.
Predict vehicle paths.
Decide the appropriate timing to cross.**

**Drivers must see pedestrians.
Estimate their vehicle's speed and the
pedestrian speeds.
Determine the need for action,
and react.**

Mapping Pedestrian Crossings (Ped Xing)

Crossings are important for routing and navigation software, to increase road safety.

Note: some defacto crossings are “unmarked” (no road markings)



The supported mobile navigation software will often warn the driver to take precautions when crossings are detected.

For personal navigation, especially by independent persons with disabilities, knowing where to cross is critical for their safety.



Pic4Review



Improving OpenStreetMap has never been easier !

Contribute to OpenStreetMap simply by looking at pictures of your city

▶ START NOW



Pic4Review

How does it work ?



Check street pictures

And find the answer of a simple thematic question



Answer and contribute

One click and you have contributed to OpenStreetMap!



Start again on other missions

Choose between several themes and areas worldwide


Our free-licensed pictures come from various communities








Mapillary uses **computer vision technology** to auto-detect the type of objects depicted in images, and do **triangulations** to estimate their locations based from multiple street-level pictures.

Mission Summary

**Pic4Review**
□ + □ → □ 📷

Add missing pedestrian Crossings #PistaNgMapa #MapaTime
Philippines



SUMMARYREVIEWSTATISTICS

Add missing pedestrian Crossings #PistaNgMapa #MapaTime

Philippines
24 % complete (2850 features + 523 without pics) - Created 27 days ago

Pedestrian crossings are important for routing and navigation software, to increase road safety. When a crossing is marked, supported mobile navigation software will often warn the driver about crossings they will encounter along the road.

For personal navigation, especially by independent persons with disabilities, knowing where to cross is critical for their safety.

This task is recommend for newcomers and beginners, as a "soft" introduction to participatory and open mapping

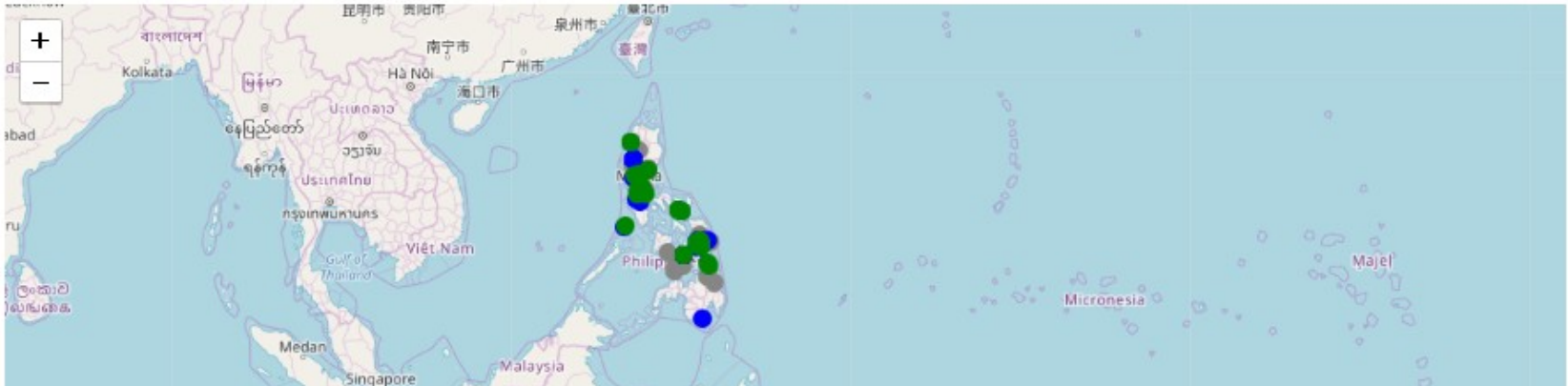
▶ START REVIEW

📄 EXPORT MISSING PICS

🔄 DUPLICATE MISSION

✉ CONTACT AUTHOR

■ No pictures (523) ■ To review (2130) ■ Skipped (8) ■ Reviewed (712)



Mission Statistics



Pic4Review



Add missing pedestrian Crossings #PistaNgMapa #MapaTime

Philippines

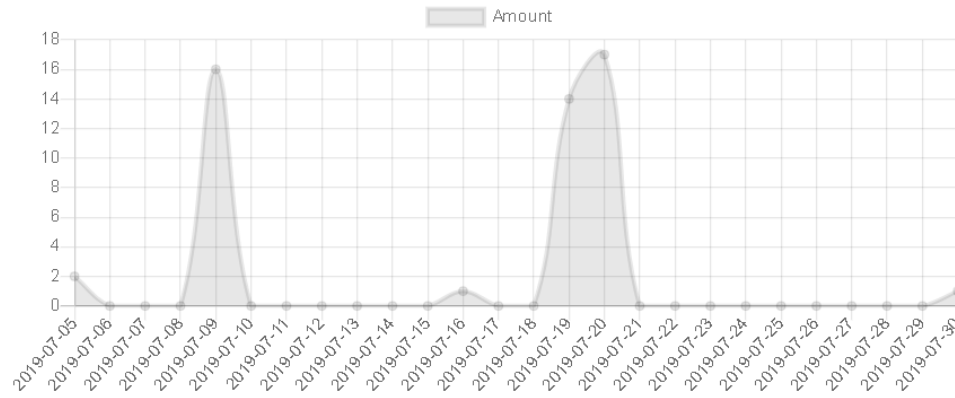


SUMMARY

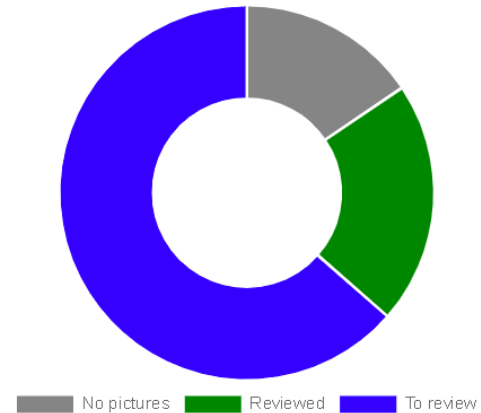
REVIEW

STATISTICS

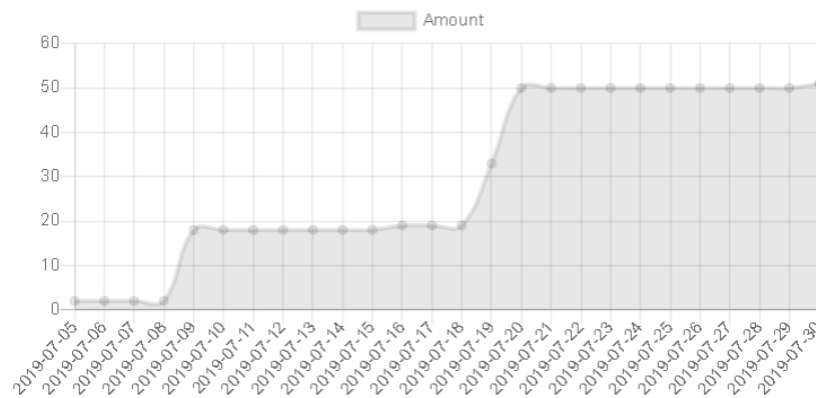
Activity (last 3 months)



Feature status



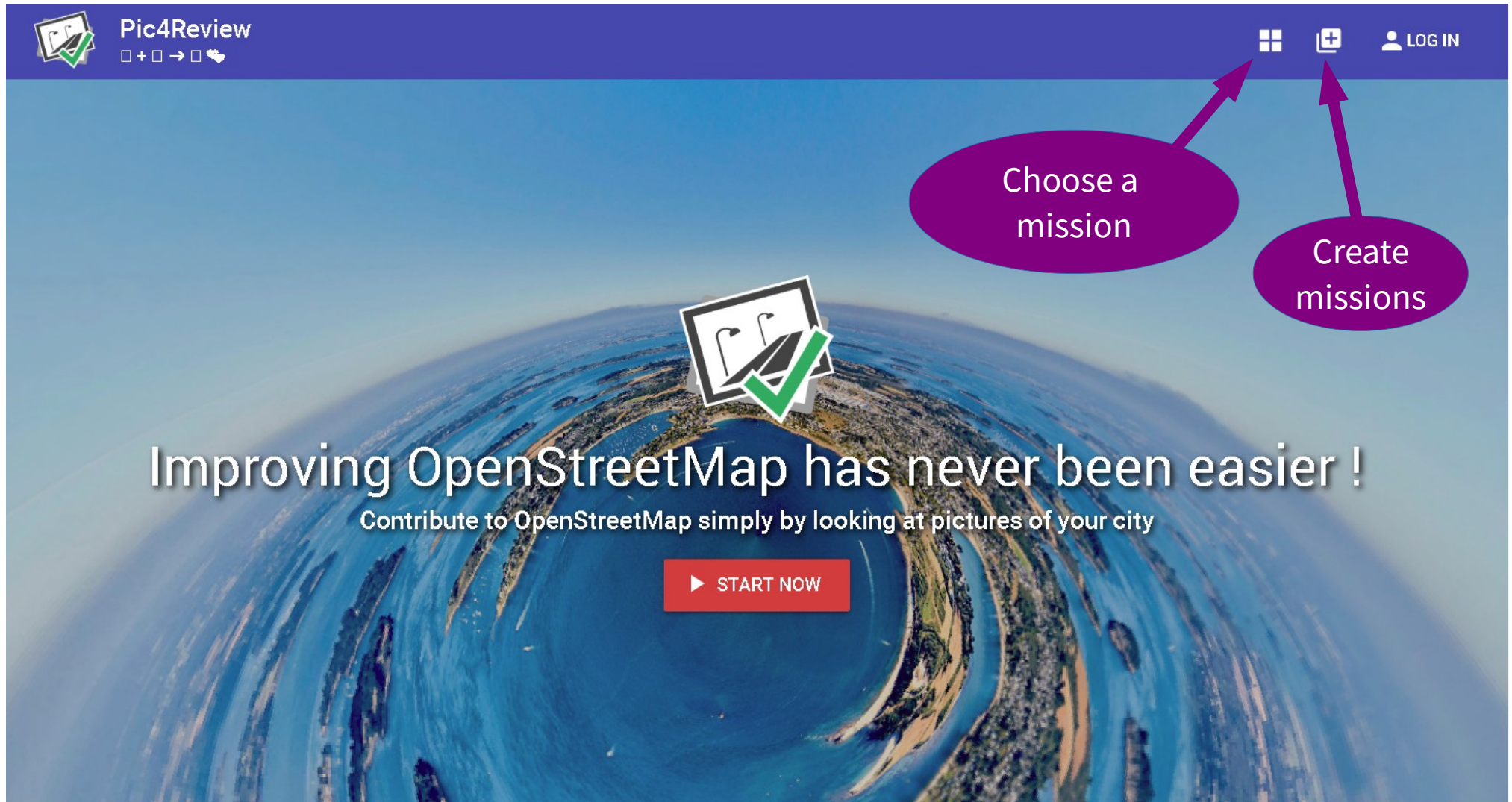
Solved features



Users contributions (last 30 days)

#	User	Edited features
1	GOwin	19
2	Dave not here	16
3	Rally	16

You need an **OSM account** to login




The screenshot shows the Pic4Review website interface. At the top left, there is a logo for Pic4Review with the text "Pic4Review" and a small navigation menu. On the top right, there are icons for a grid, a plus sign, and a user profile with the text "LOG IN". Two purple callout boxes with arrows point to these icons: "Choose a mission" points to the grid icon, and "Create missions" points to the plus sign icon. The main content area features a large, curved aerial photograph of a coastal area. In the center of the image is a smaller version of the Pic4Review logo. Below the image, the text reads "Improving OpenStreetMap has never been easier !" followed by "Contribute to OpenStreetMap simply by looking at pictures of your city". At the bottom center, there is a red button with a play icon and the text "START NOW".




openstreetmap.org

Sign up at **osm.org**

 **OpenStreetMap**

[GPS Traces](#) [User Diaries](#) [Copyright](#) [Help](#) [About](#)

Sign Up



Email Address:

Confirm Email Address:

Your address is not displayed publicly, see our [privacy policy](#) for more information

Display Name:

Your publicly displayed username. You can change this later in the preferences.

Password:

Confirm Password:

Free and editable
Unlike other maps, OpenStreetMap is completely created by people like you, and it's free for anyone to fix, update, download and use.










Sign up to get started contributing. We'll send an email to confirm your account.

Choose your mission by LIST




Pic4Review Missions

Filters
Sort by
Pertinence

Theme

-   
-   
-   

Type

-   

Others

- With integrated editor
- Show completed missions


LIST MAP

Crossings using wheelchair

Milan, Italia

12 % complete (9885 features + 9599 without pics) - Created 369 days ago - 84 contributors

DETAILS **START**




Bus stop type

東京都, 関東地方, 日本

2 % complete (9700 features + 22771 without pics) - Created 80 days ago - 13 contributors

DETAILS **START**




Path smoothness


Nuremberg, Bavaria, Germany

4 % complete (4941 features + 20361 without pics) - Created 100 days ago - 13 contributors

DETAILS **START**



Street lights



Choose your mission by MAP

Pic4Review Missions

Filters
Theme

-
-
-
-
-
-
-
-
-
-

Type

-
-
-

Others

- With integrated editor
- Show completed missions

LIST MAP

Leaflet | © OpenStreetMap contributors

On the map, zoom in to Philippines,
click **“Add missing pedestrian Crossing”**”

The screenshot shows the Pic4Review Missions interface. The top navigation bar is dark blue with the Pic4Review logo and the word 'Missions'. On the left, there are filter sections: 'Theme' with icons for various map features, 'Type' with a download icon, and 'Others' with checkboxes for 'With integrated editor' and 'Show completed missions'. The main area is a map of the Philippines, showing a mission popup for 'Add missing pedestrian Crossings #PistaNgMapa #MapaTime'. The popup includes the mission title, location 'Philippines', completion status '24 % complete (2849 features + 524 without pics) - Created 25 days ago', and buttons for 'DETAILS' and 'START'. The map shows a coastal area with labels for 'Concepcion', 'Bansud', and 'Bongabong', and road numbers '452' and '454'. The bottom right of the map has the text 'Leaflet | © OpenStreetMap contributors'.

<https://pic4review.pavie.info/#/mission/670/review>

1. Check if you see the Feature (ped xing) on the Street-Level pictures. 2. Check if its location in Aerial imagery is correct.

Pic4Review Add missing pedestrian Crossings #PistaNgMapa #MapaTime
Philippines

SUMMARY **REVIEW** STATISTICS

Can you see the feature on pictures ?

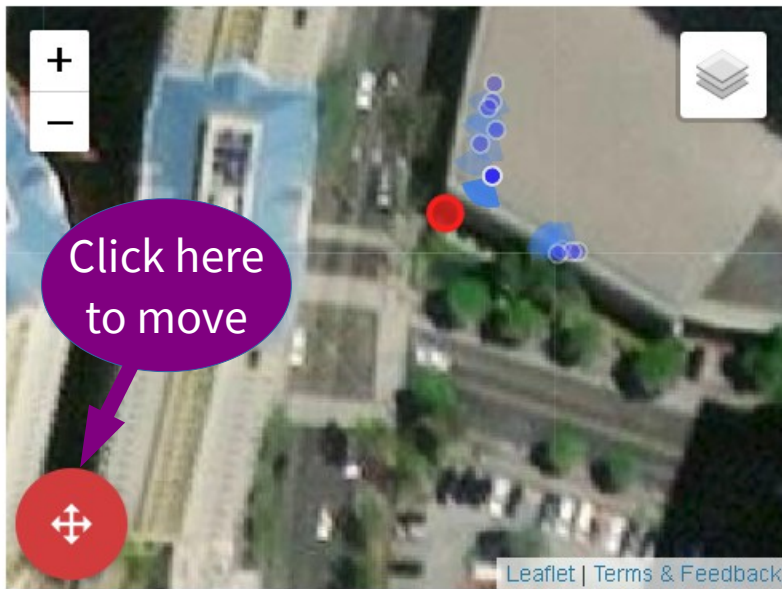
I CAN SEE THE FEATURE

◀ PREVIOUS EDIT SKIP ▶

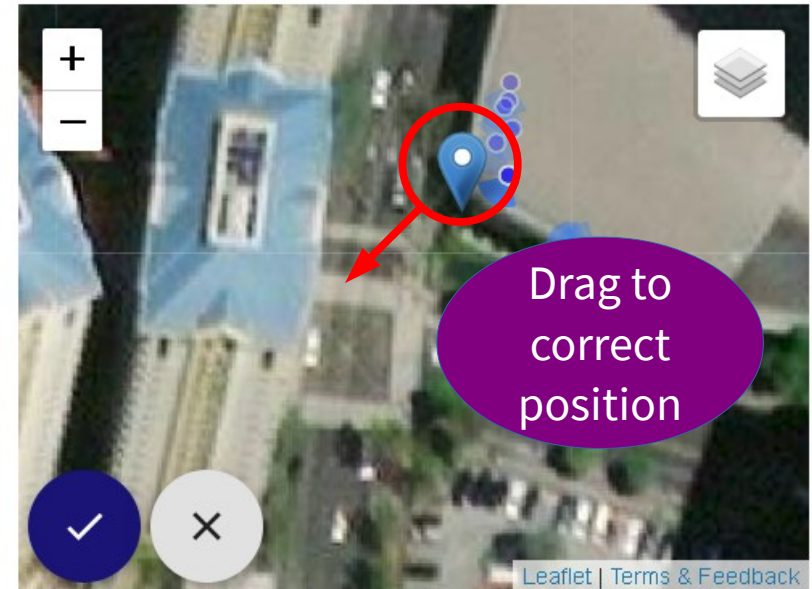
9/24/2018 - mhayd - Mapillary

The screenshot displays the Pic4Review application interface. At the top, the title bar shows 'Pic4Review' with a logo and the task description 'Add missing pedestrian Crossings #PistaNgMapa #MapaTime' for the Philippines. Below the title bar, there are three tabs: 'SUMMARY', 'REVIEW' (which is active), and 'STATISTICS'. The main content area asks the user 'Can you see the feature on pictures ?' and provides a blue button with a checkmark and the text 'I CAN SEE THE FEATURE'. Below this are three buttons: 'PREVIOUS', 'EDIT', and 'SKIP'. To the left of the main photo is a map view showing the location of the feature on a street, with a red dot indicating the feature's location. The main photo is a street-level view of a pedestrian crossing in a city, with a date and user name '9/24/2018 - mhayd - Mapillary' overlaid. The photo shows a wide street with a crosswalk, buildings, and a person walking. The Mapillary logo is visible in the bottom left corner of the photo.

1.



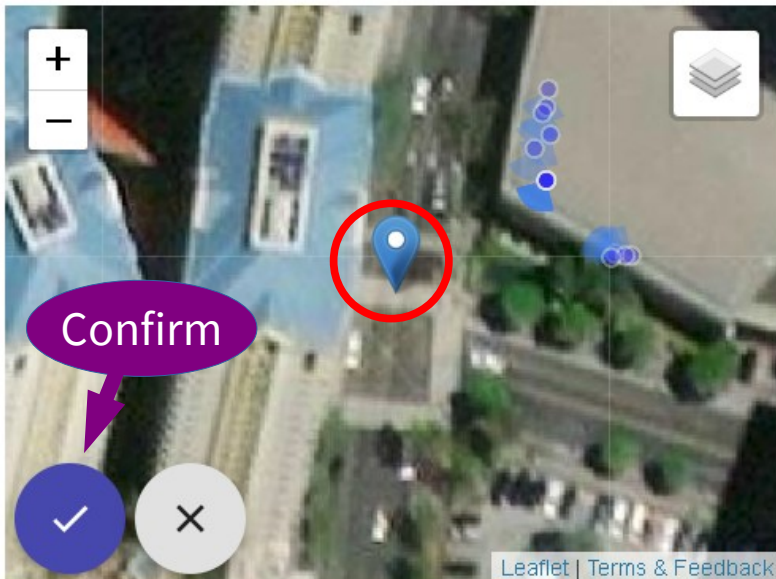
2.



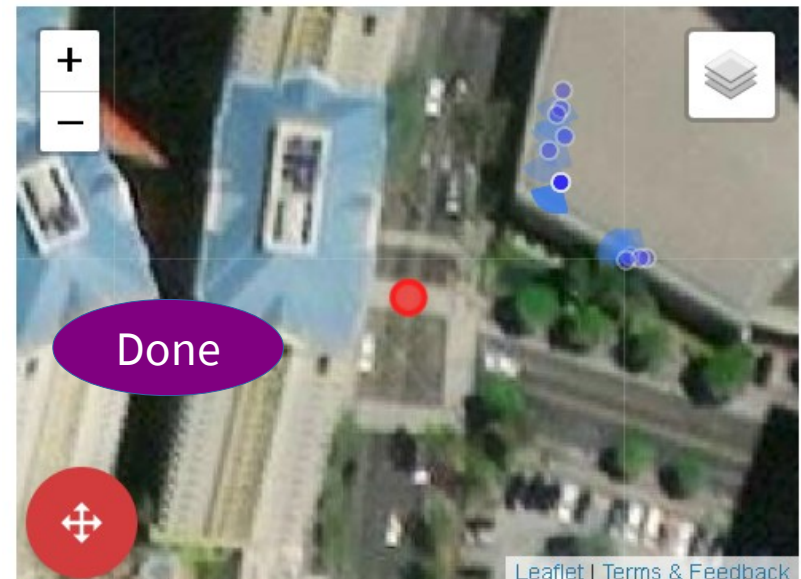
RED DOT is the estimated location of "Crossing"
Move it to the correct position before clicking >>

✓ I CAN SEE THE FEATURE

3.



4.



Can you see the feature on pictures ?

There are similar features already existing around in OpenStreetMap (shown in orange on map).

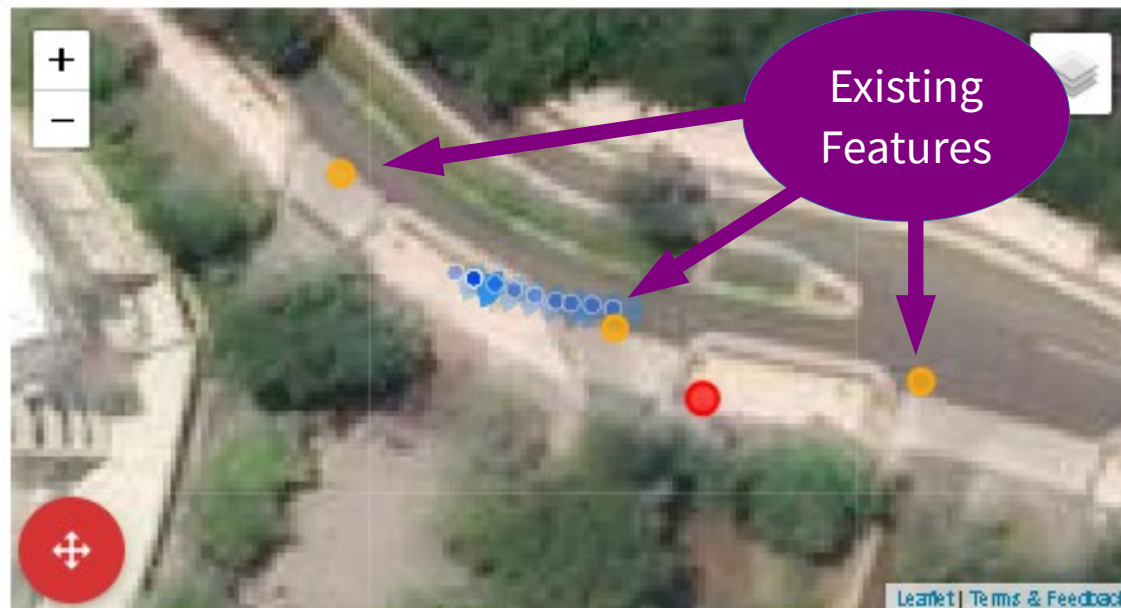
 I SEE IT AND IT'S NOT IN OSM

 I SEE IT BUT IT ALREADY EXISTS IN OSM

◀ PREVIOUS  EDIT ▶▶ SKIP

YELLOW DOTS = existing features identified

RED DOT = potentially unmapped new Crossing (feature)



Questions?