

# 防災 × ドローン

～ 大規模災害時にドローンができること～



青山学院大学  
with チーム「ドローンバード」





# OpenStreetMap



# OSM 2008: A Year of Edits

by ItoWorld PLUS

3 years ago

2008  
a year of edits

01:36

HDtreemap.com

<http://vimeo.com/2598878>



by @mapconcierge & OSM contributors



ito!

OpenStreetMap

CC-by-SA [www.itoworld.com](http://www.itoworld.com)

Map data [www.openstreetmap.org](http://www.openstreetmap.org); 20 Dec 2008

# The world free wiki map

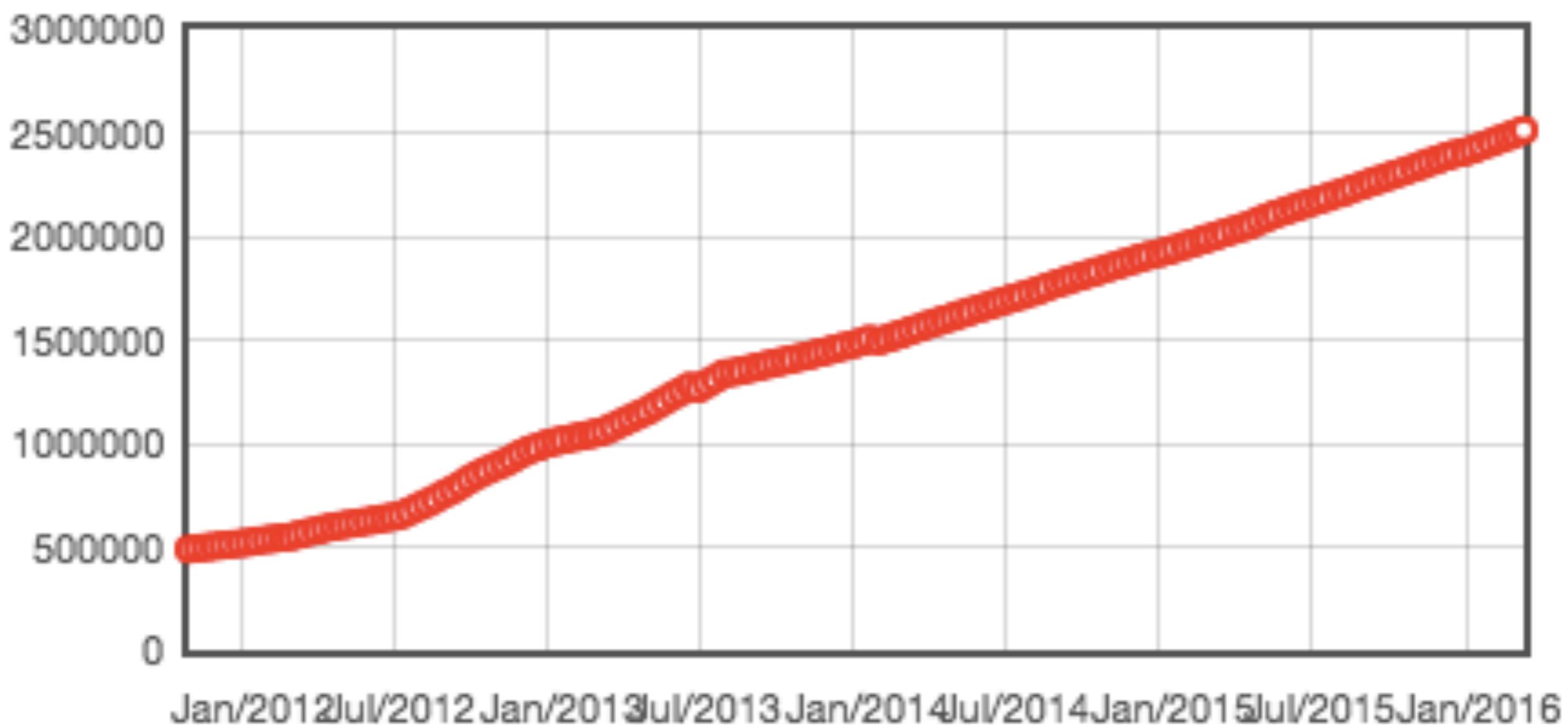


by Taichi FURUHASHI



**2.5M**

## No. of registered OSM members

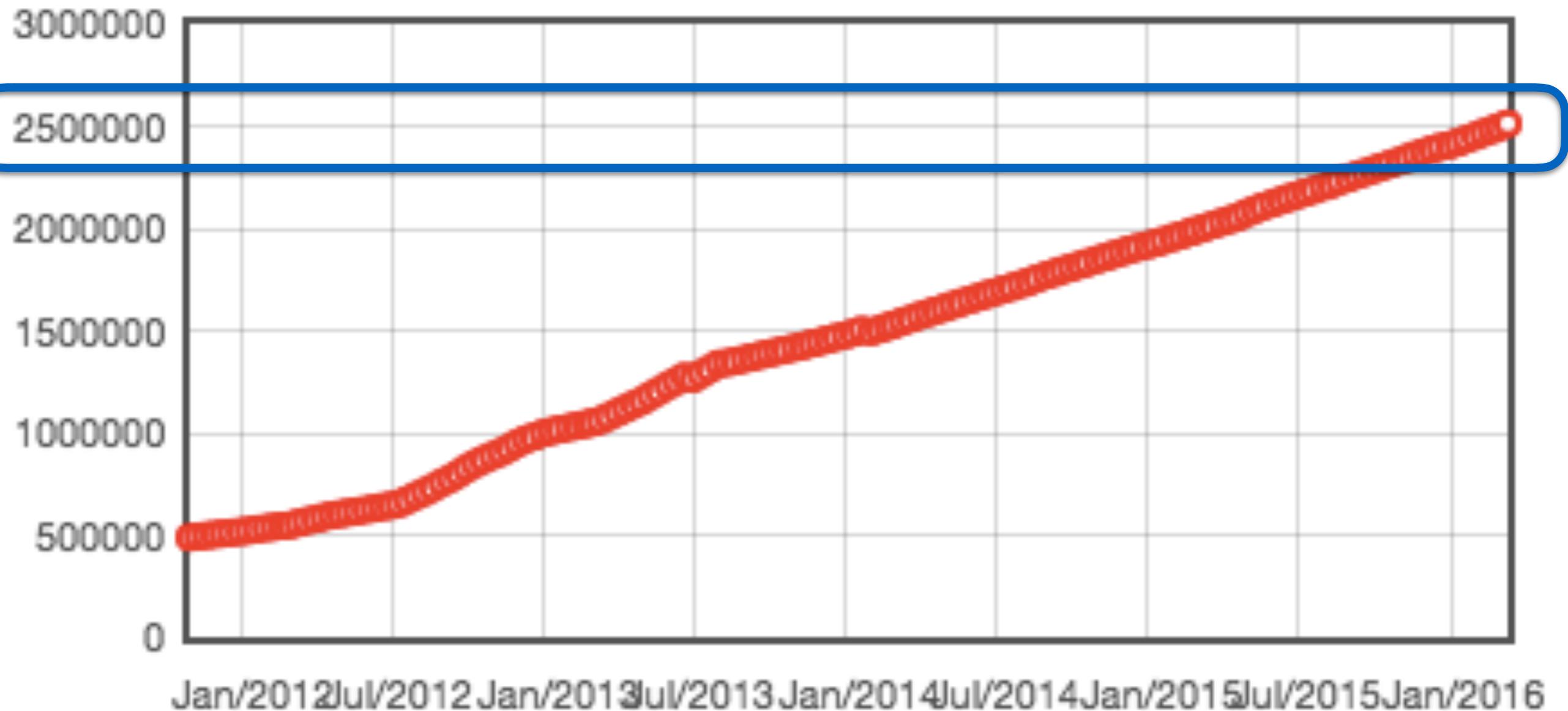


<http://osmstats.neis-one.org/>

# OSM has 2.5M mappers in the world

( 2,523,435 registered mappers, 2016/03/18 )

## No. of registered OSM members



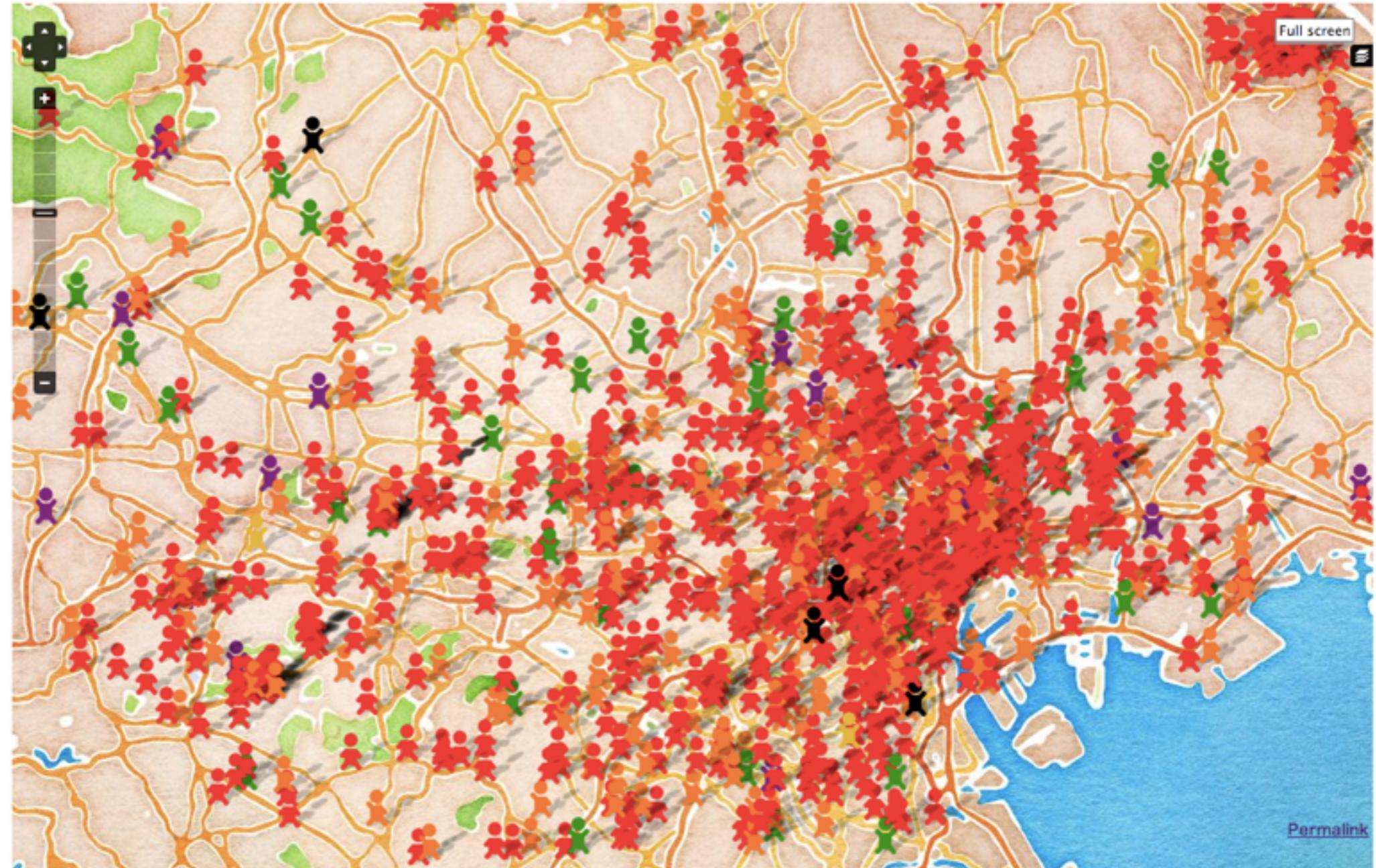
<http://osmstats.neis-one.org/>

# Active mappers in Tokyo area

Overview of OpenStreetMap Contributors aka Who's around me?

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Map data © OpenStreetMap contributors

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Oh U Want More? See [ResultMaps-Overview](#)

Mappers in this Map-BBox: roughly visible 1180 & overall 1180 (Layer Limit: 1000)

Daily Update (Activity-Layer Weekly)

<http://resultmaps.neis-one.org/oooc?zoom=11&lat=35.73308&lon=139.61465&layers=OBOTFFI>

# 青山学院大学 相模原キャンパス



<http://demo.f4map.com/>

#lat=35.5671926&lon=139.4018055&zoom=18&camera.theta=59.897&camera.phi=95.111

# お台場



<http://demo.f4map.com/>

#lat=35.6214521&lon=139.7765377&zoom=17&camera.theta=69.351&camera.phi=49.561



# OpenStreetMap



# OpenStreetMap - Project Haiti

by ItoWorld PLUS

1 year ago



<http://vimeo.com/9182869>



by @mapconcierge, and OSM contributors



The logo for ito!, featuring the word "ito!" in a white, lowercase, sans-serif font. The letter "o" has a magenta vertical bar through its center.

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, January 2010

OpenStreetMap

CC-by-SA [www.itoworld.com](http://www.itoworld.com)  
Map data [www.openstreetmap.org](http://www.openstreetmap.org) 31 Jan 2010

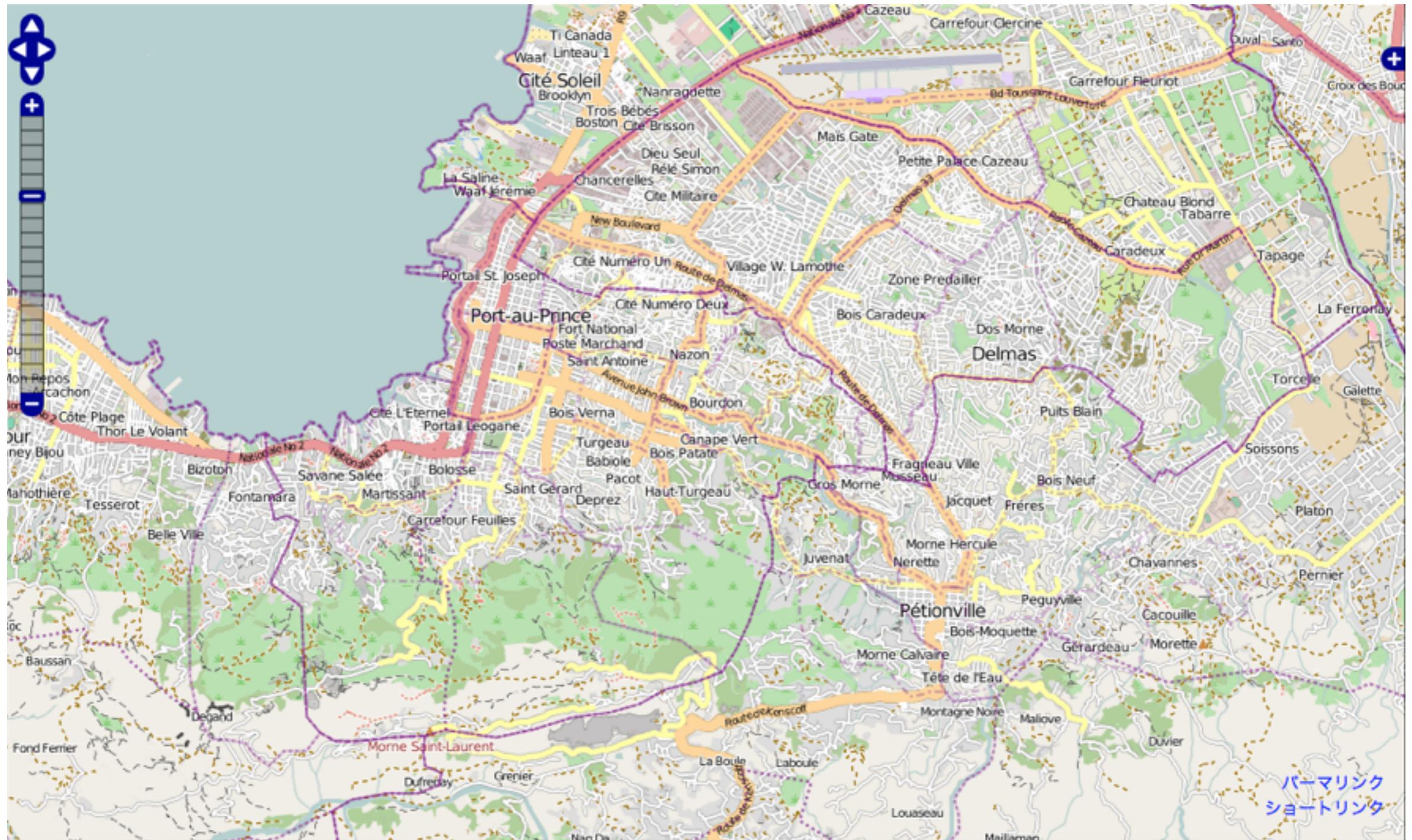
# Before



by @mapconcierge, @Tom\_G3X and OSM contributors



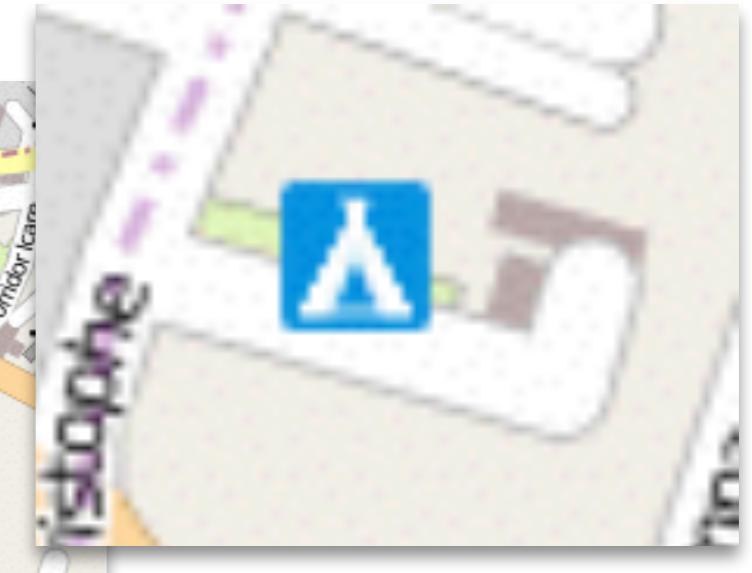
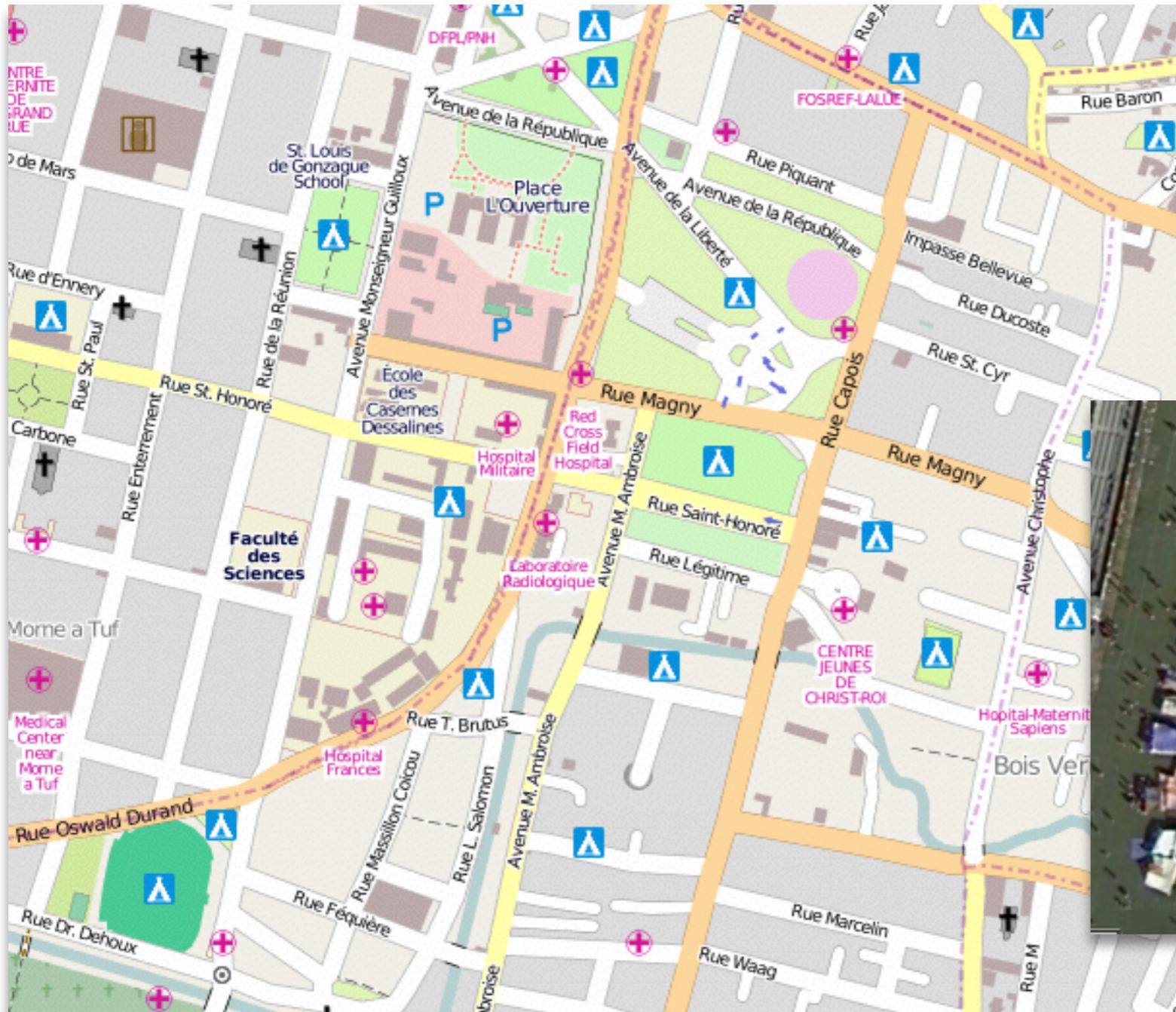
# After



by @mapconcierge, @Tom\_G3X and OSM contributors



# We have plotted many evacuation shelters.



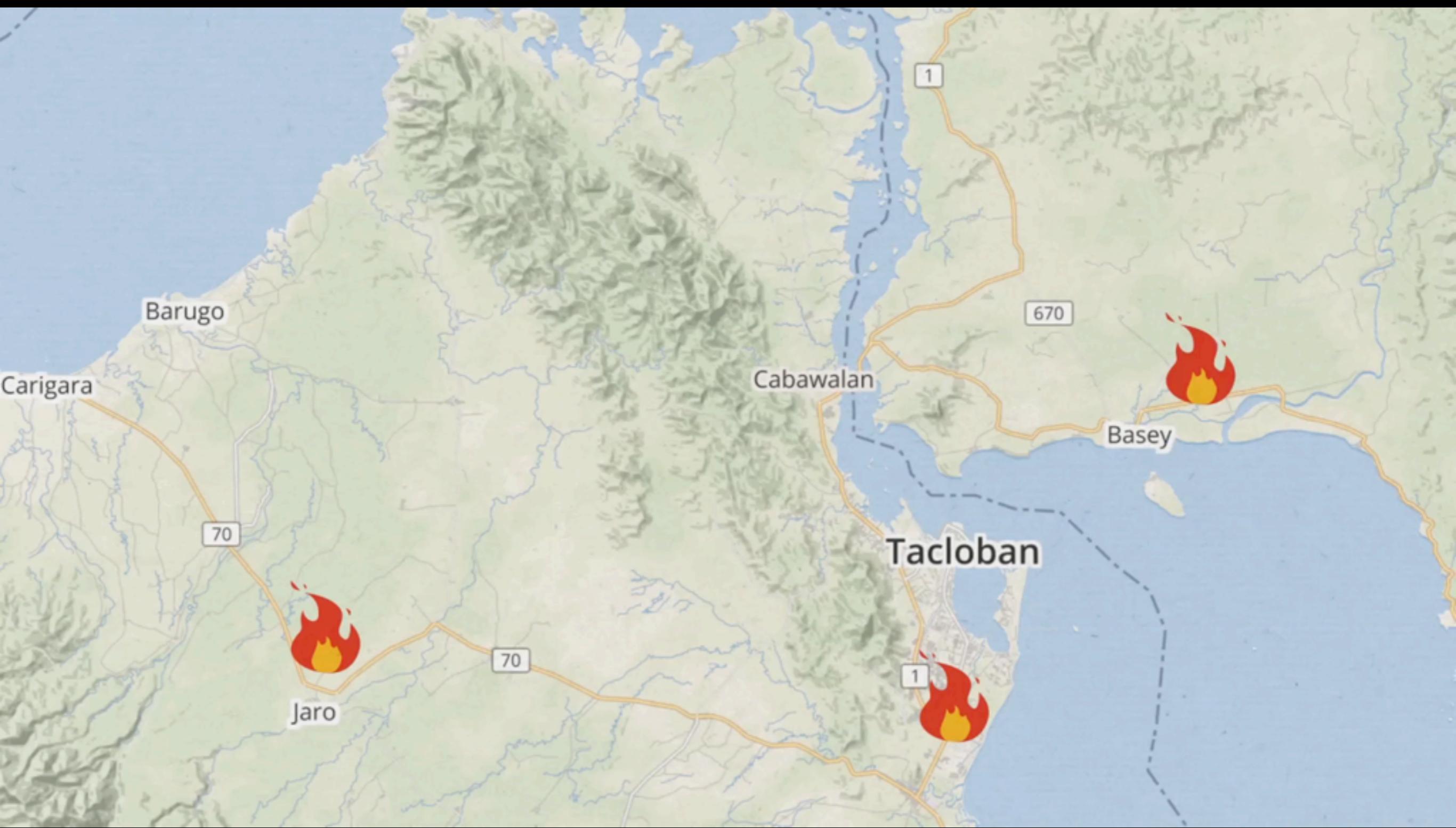
by @mapconcierge, @Tom\_G3X and OSM contributors





災害ドローン救援隊

**DRONEBIRD**

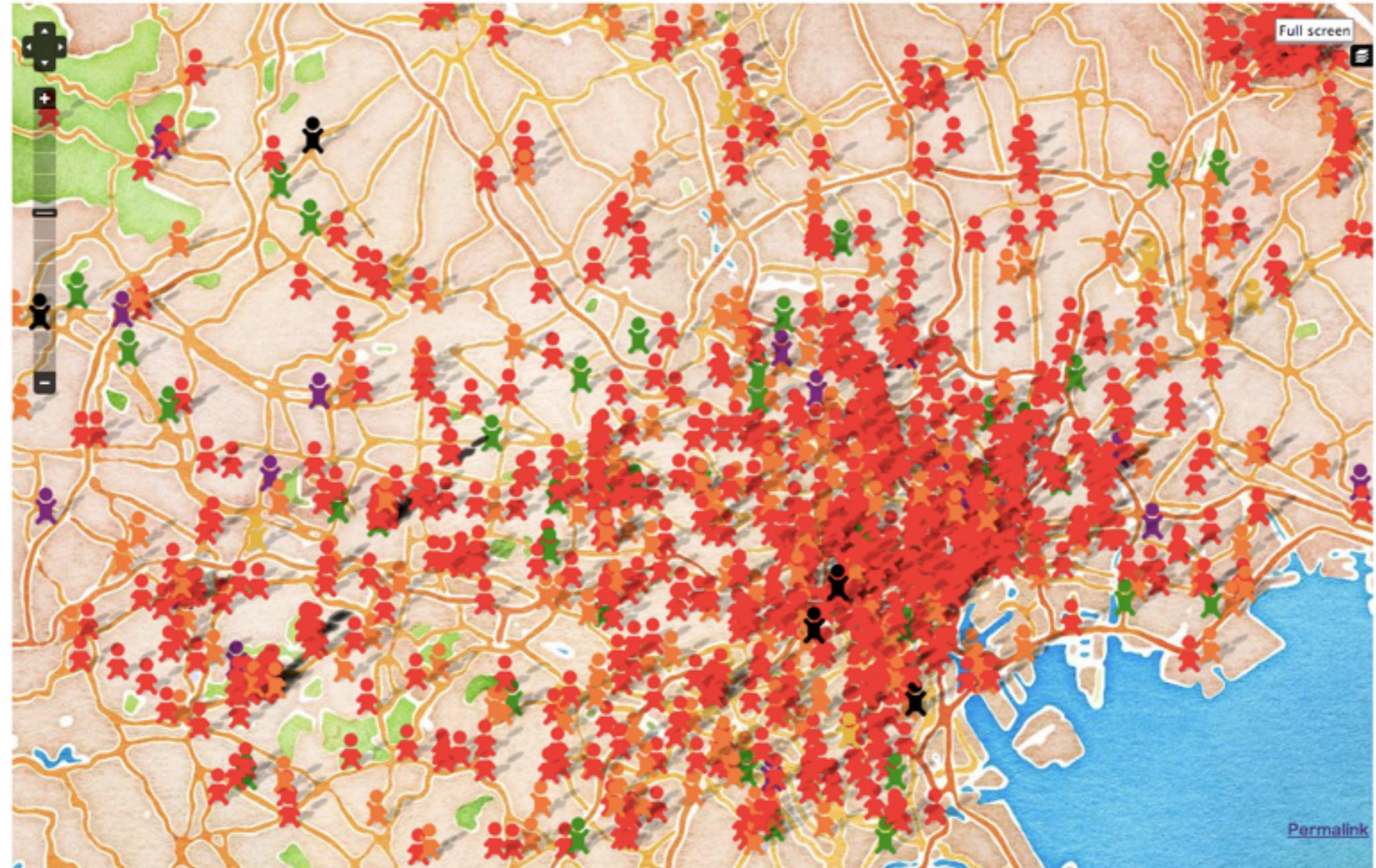


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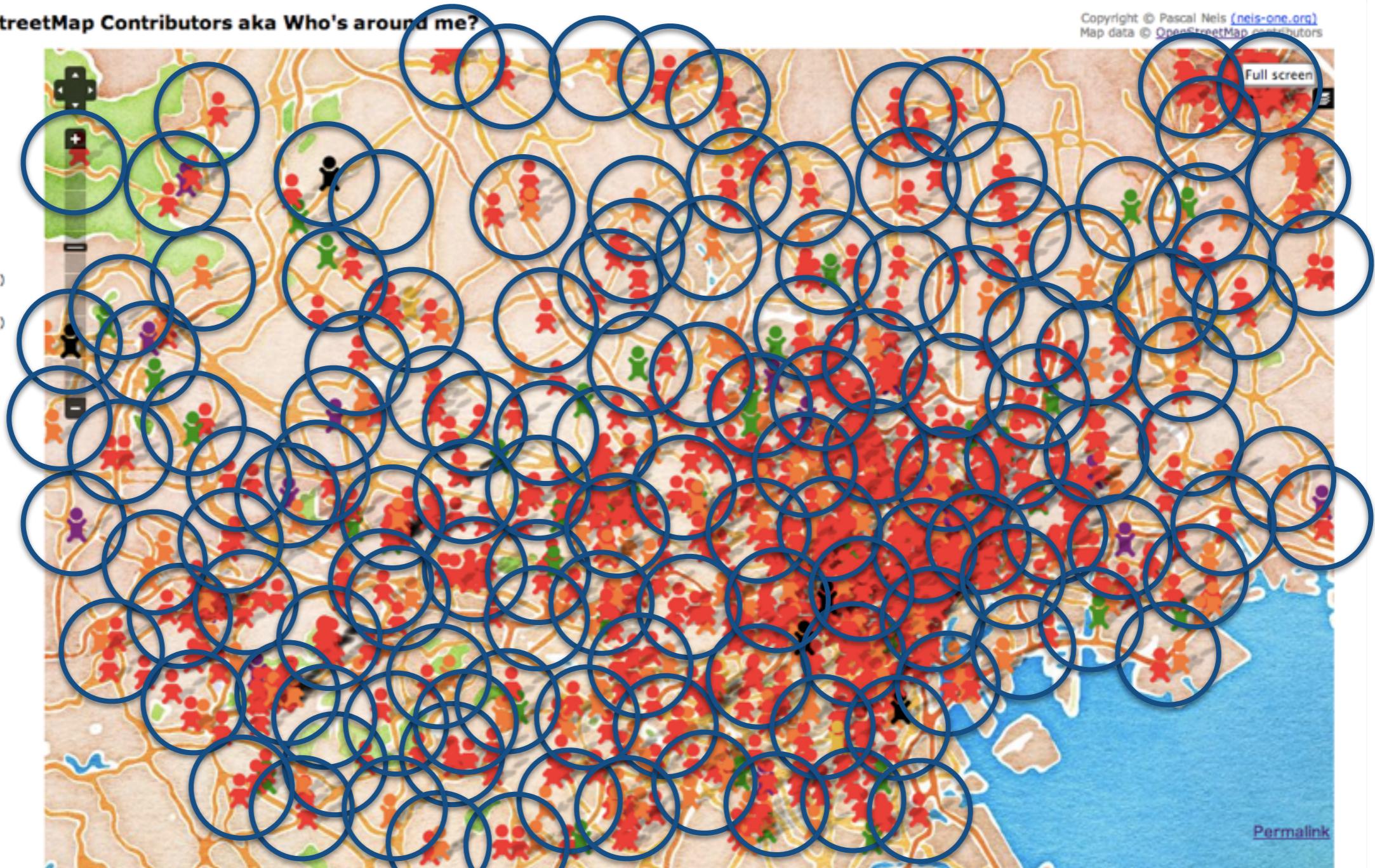
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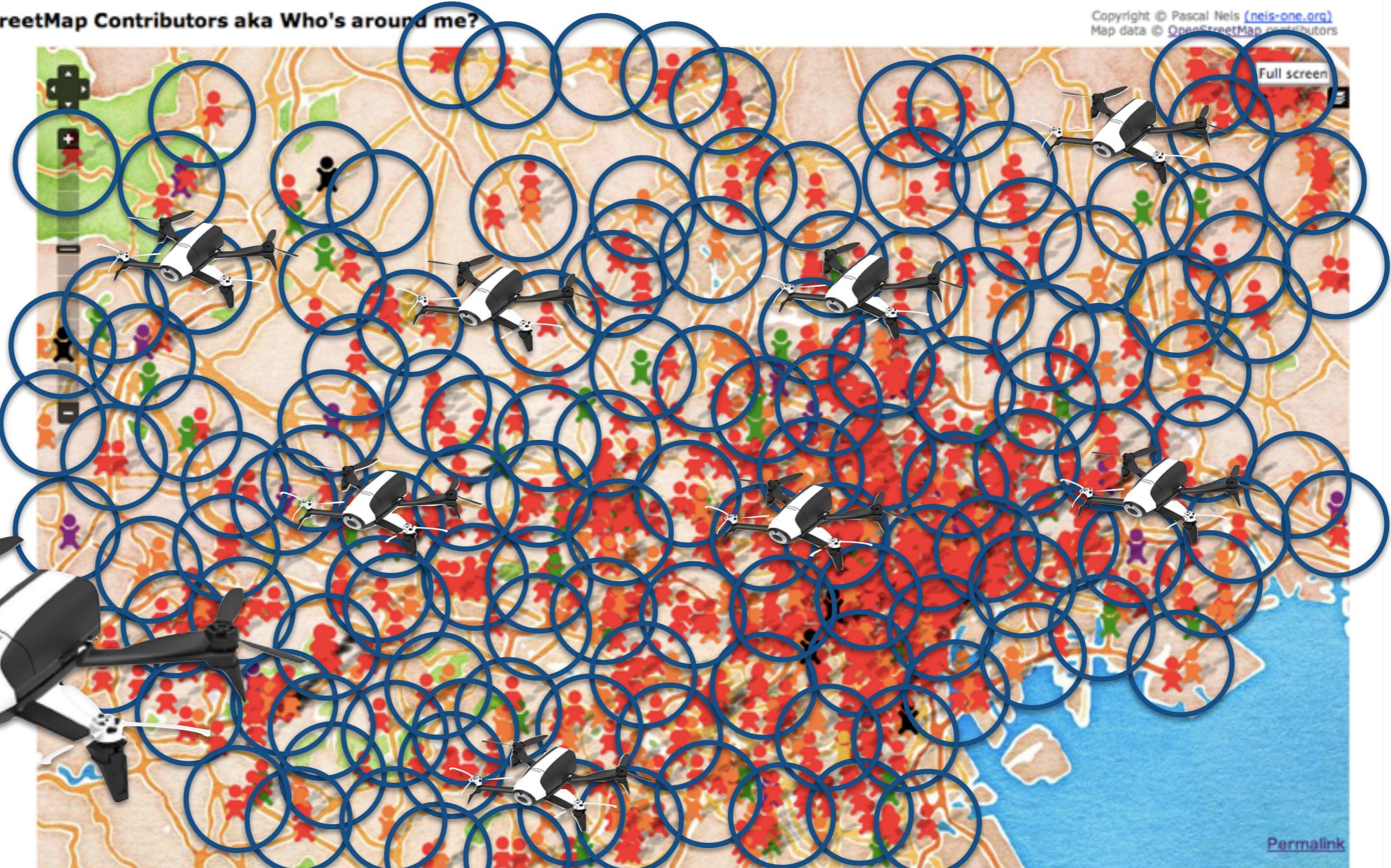
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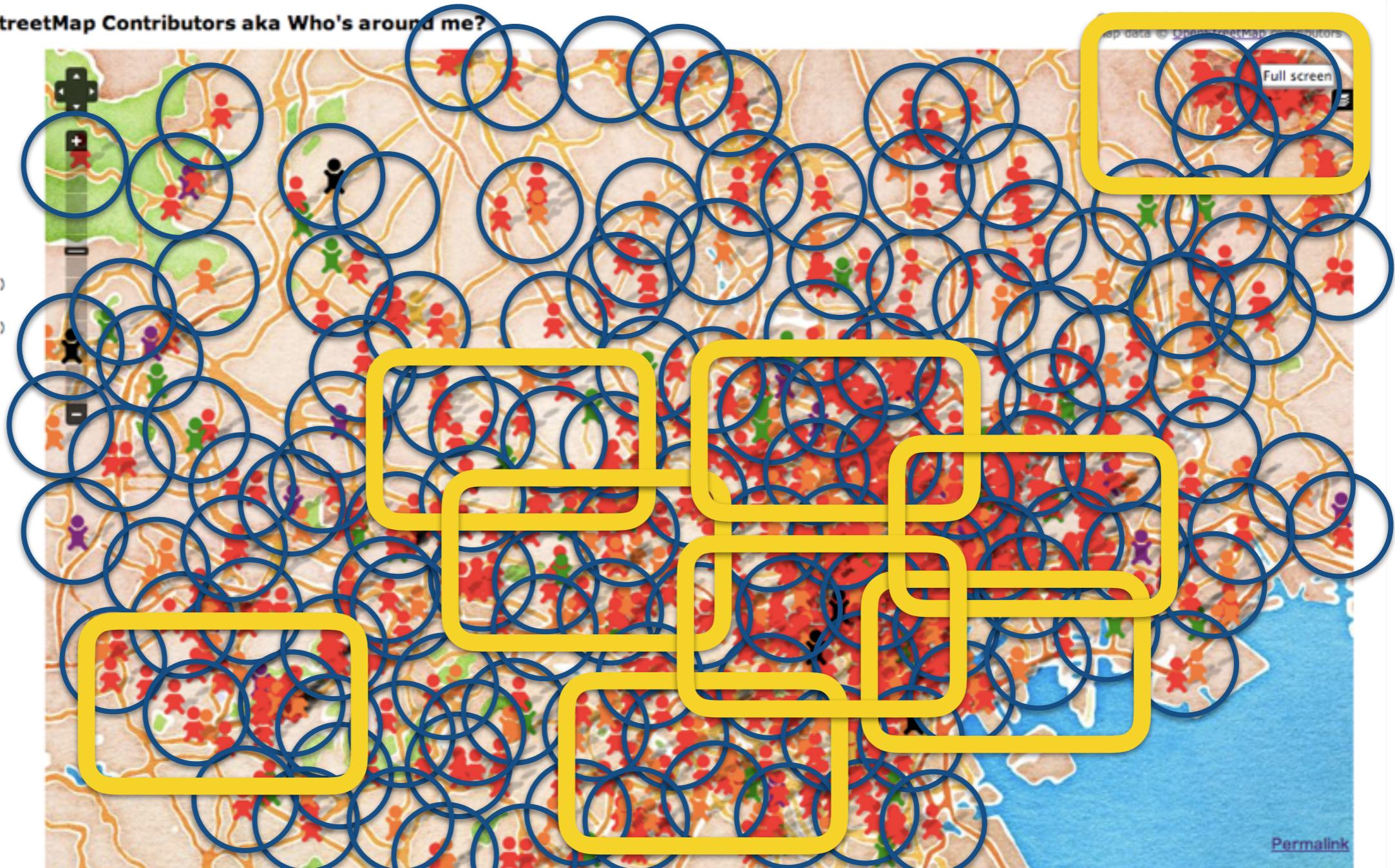
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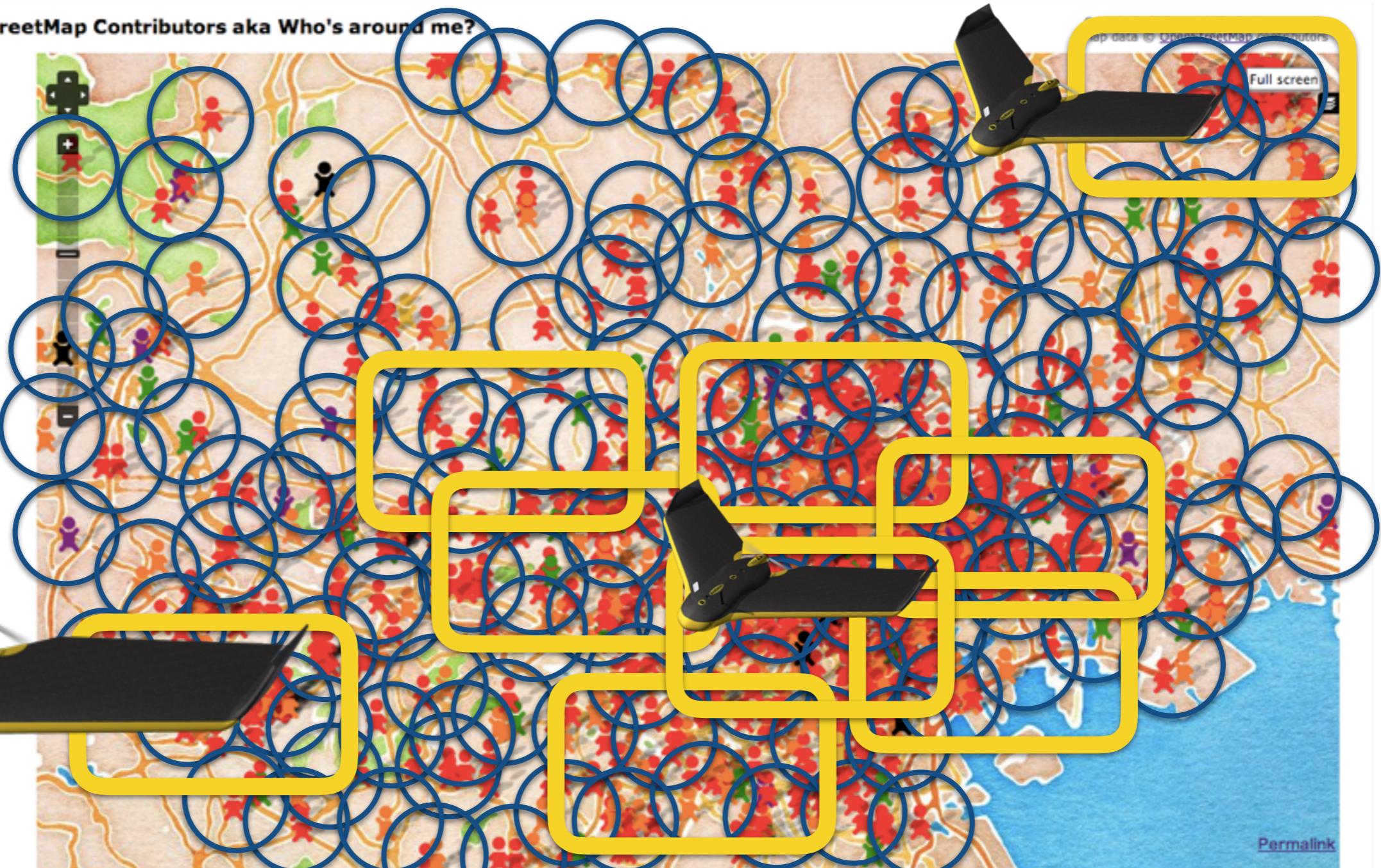
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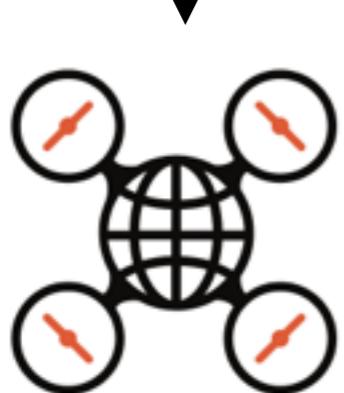
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<http://resultmaps.neis-one.org/oooc?zoom=11&lat=35.73308&lon=139.61465&layers=OBOTFFI>

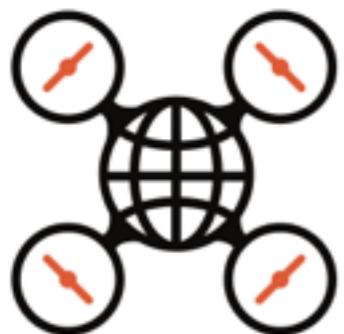


災害ドローン救援隊

**DRONE BIRD**



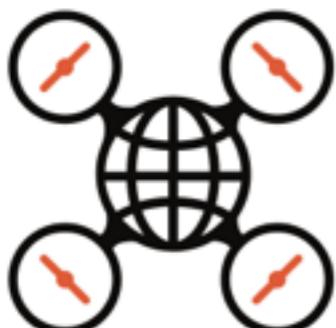
OpenDroneMap





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XYZ TILE / ZOOM  
TILE MAP SERVICE

**OpenAerialMap**



**OpenDroneMap**



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**OpenStreetMap**



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OpenDroneMap



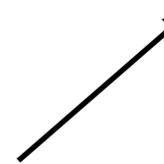
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github  
SOCIAL CODING



OpenStreetMap



OCHA



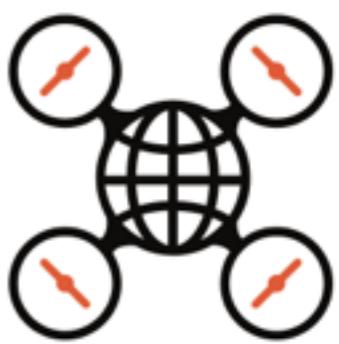
日本赤十字社  
Japanese Red Cross Society



British Red Cross



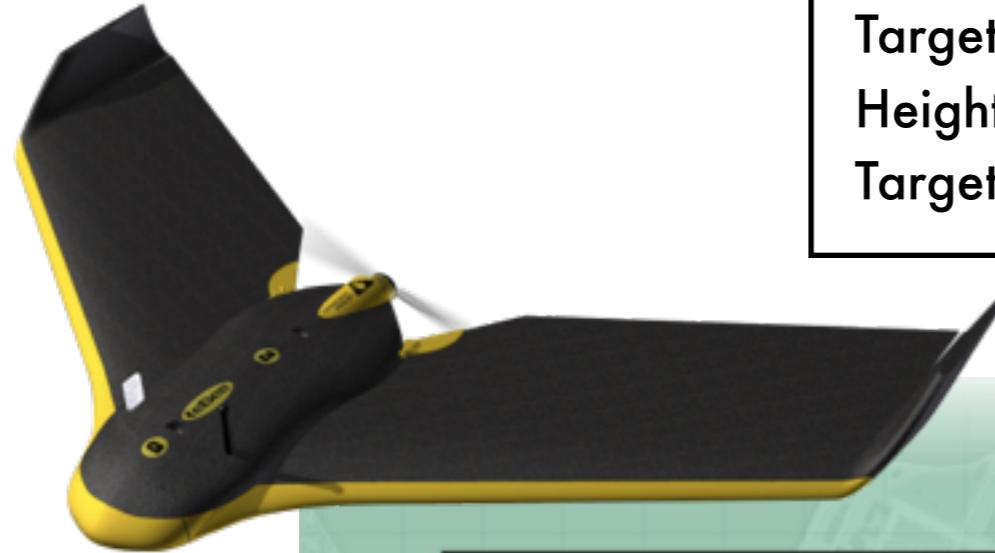
American  
Red Cross



**OpenDroneMap**

# DRONE BIRD 主力機は固定翼

SenseFly (Swiss)  
**eBee/eBee RTK**



Flight Time : 45-50min  
Target Area : 10-20 km<sup>2</sup>  
Height : 150m~250m  
Target Resolution : 5cm-10cm

Parrot (French)  
**DISCO**



OpenAerialMap BETA

Panay 66A

tacloban\_part\_2

1 of 9 results

Download

DATE	2013-11-15
RESOLUTION	0 cm
TYPE	Image
IMAGE SIZE	381.99 MB
PLATFORM	UAV
SENSOR	Not Available
PROVIDER	COREPHIL Data Services

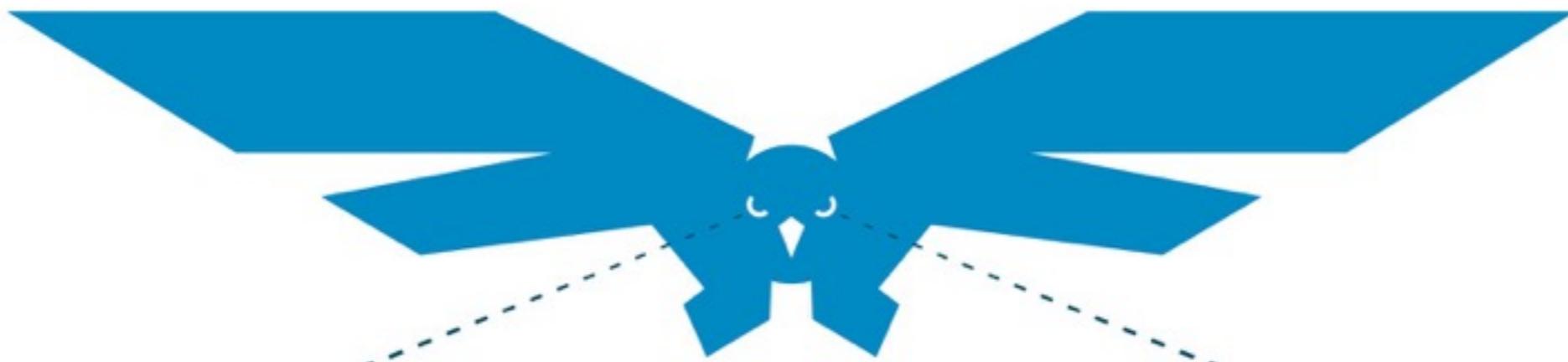
OpenAerialMap

© Mapbox © OpenStreetMap Improve this map



- ・年内に活動再開
- ・みんなと作る
- ・完全にオープン

様々な組織と連携



災害ドローン救援隊

# DRONE BIRD

RE LOADING NOW...