



AOYAMA VISION















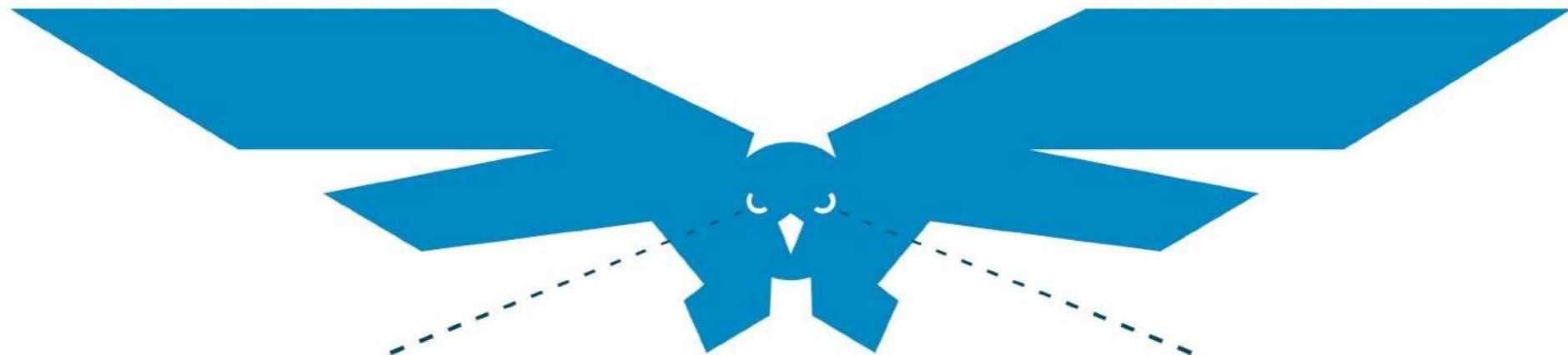
State of the Map 2018 Milan



# DRONE BIRDS ARE GO!

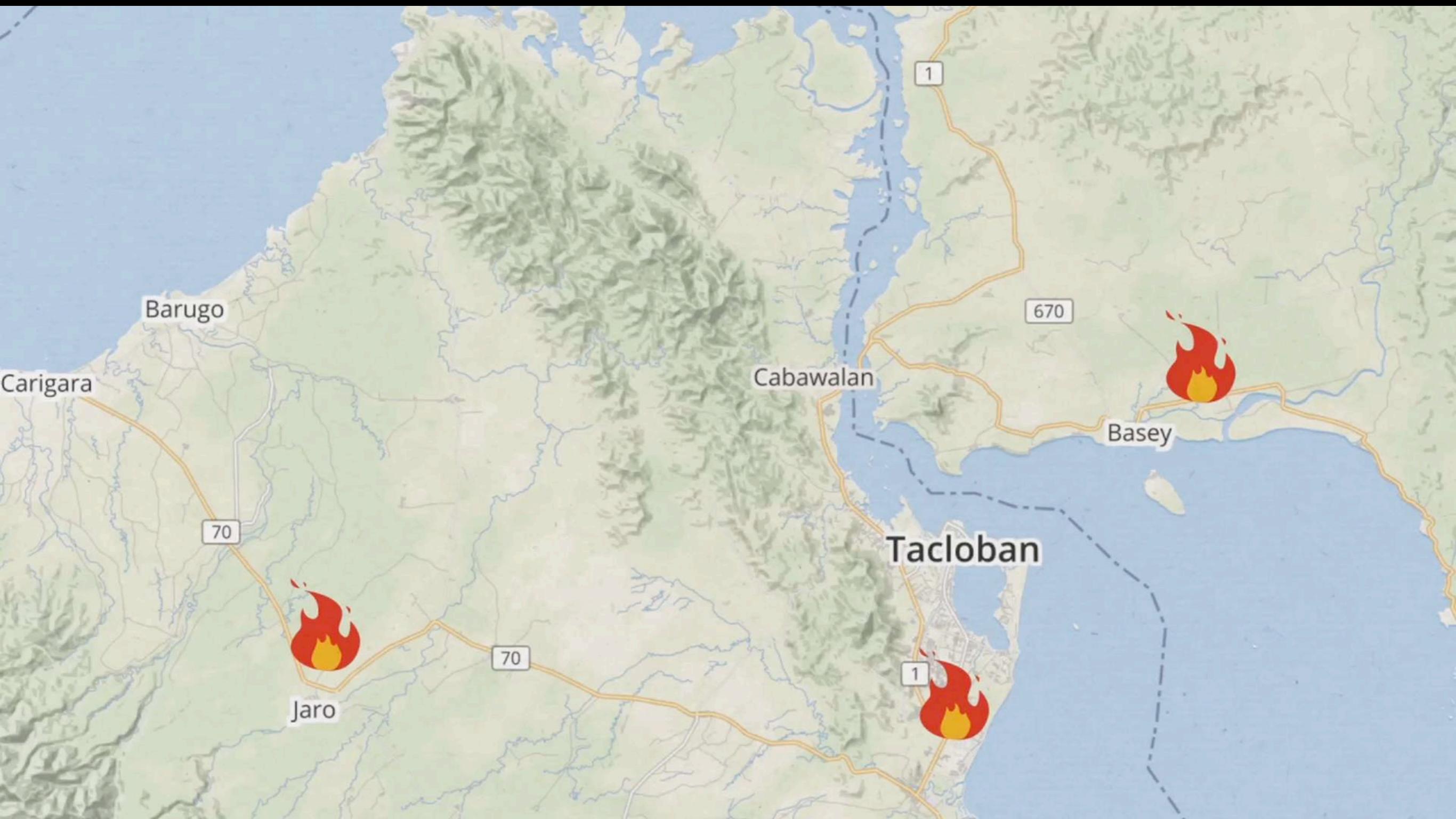


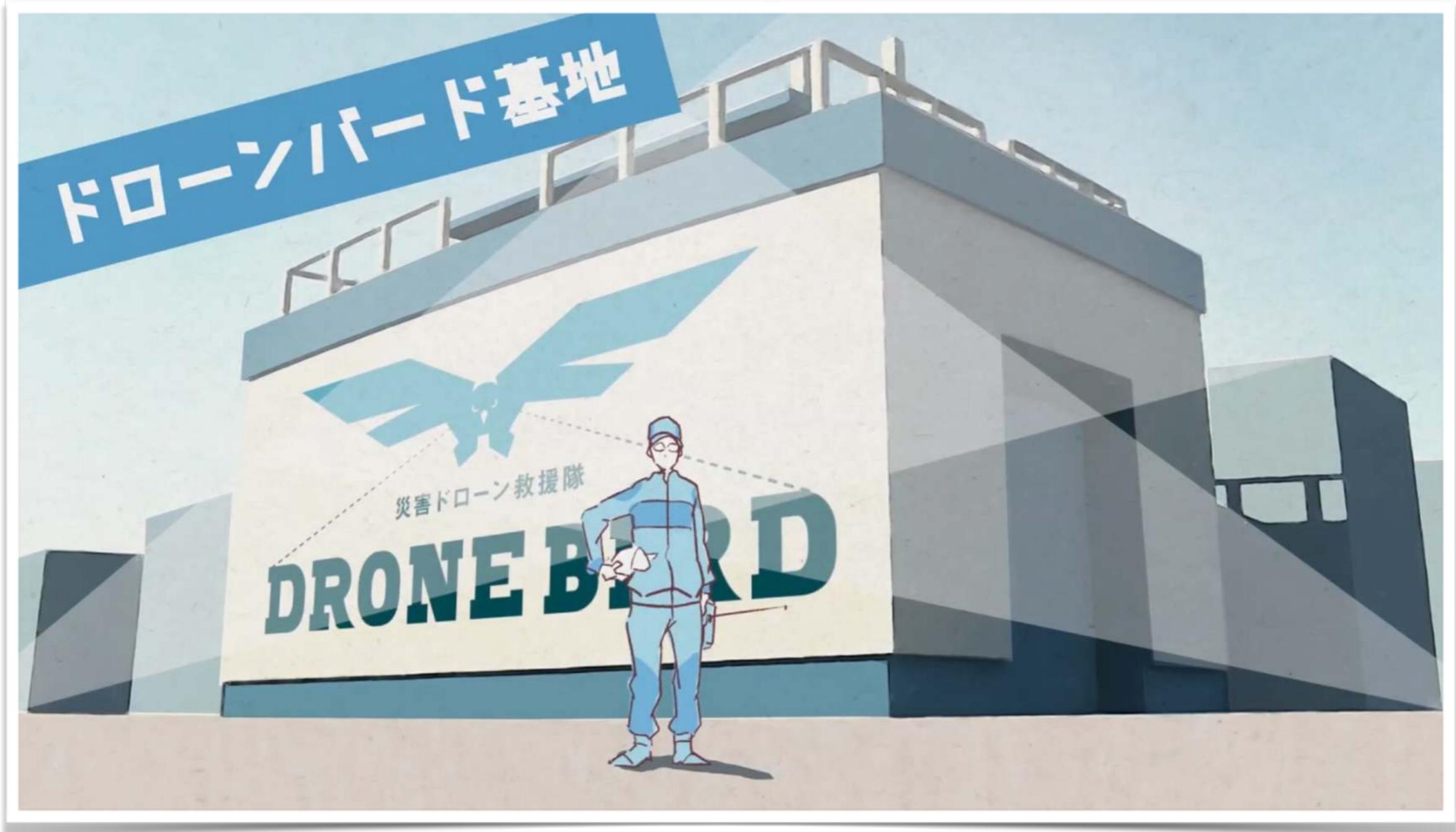
Taichi FURUHASHI  
@mapconcierge



災害ドローン救援隊

**DRONEBIRD**





<https://youtu.be/Vu6a3DXZ1IM>





# 地球社会共生学部

SCHOOL OF GLOBAL STUDIES AND COLLABORATION

(2015年4月開設)

Exchange Student Program

入試情報

資料請求

Outline 特色

青山学院大学

学部案内

What is GSC

3つのポリシー

Policies

特色

Characteristics

教員紹介

Faculty

キャリアデザイン

Career Design

学生生活

Student Life

top > 教員紹介 > 授業を通して身につく力 > インタビュー 古橋大地

地図のない  
地域での海外活動。  
あなたは  
何をすべきか。



President of CrisisMappers Japan  
Director of OSMFJ, Member of OSGeo.JP  
President of MAPconcierge Inc.

@mapconcierge

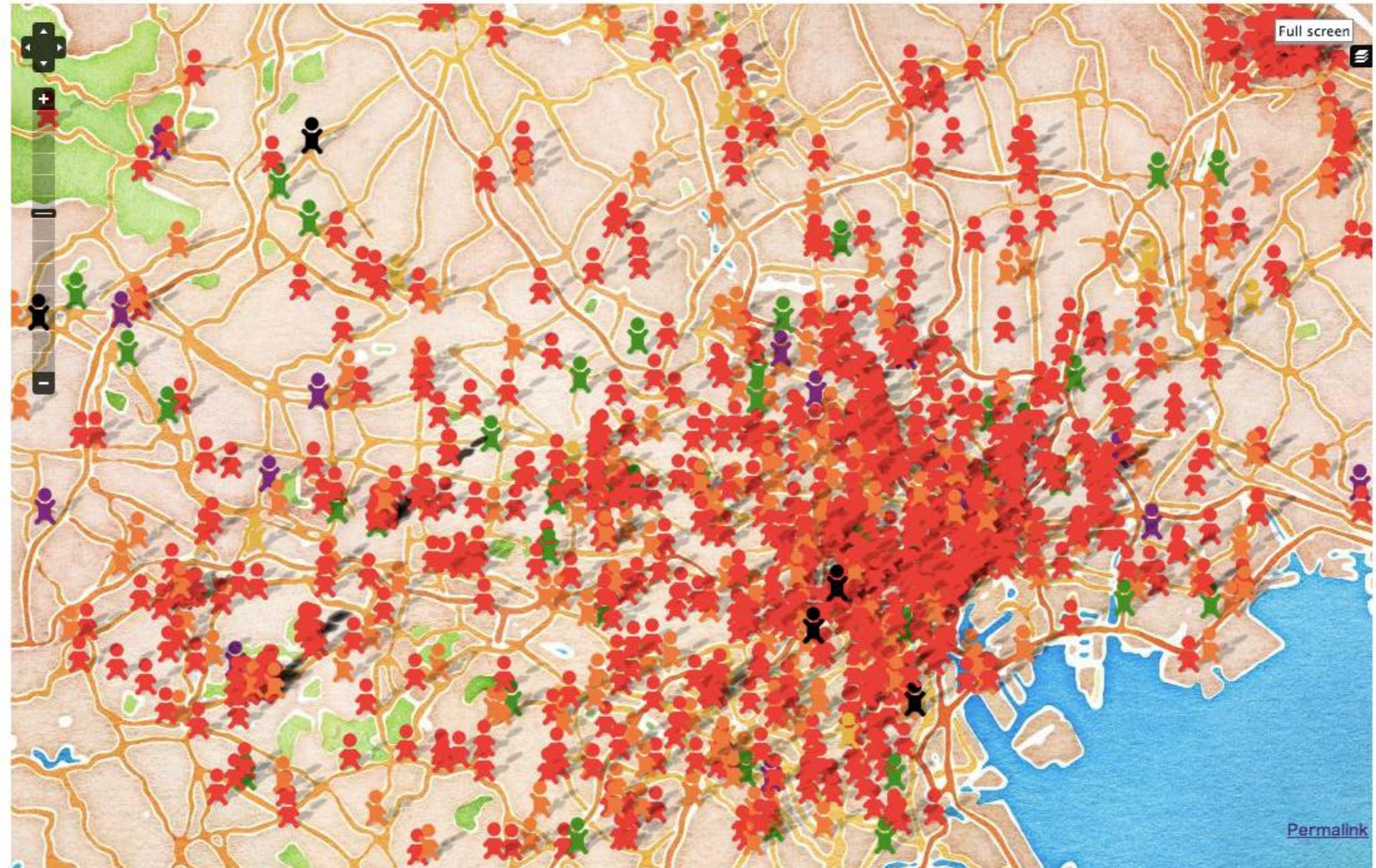


# Active mappers in Tokyo area

## Overview of OpenStreetMap Contributors aka Who's around me?

Copyright © Pascal Neis ([neis-one.org](http://neis-one.org))  
Map data © OpenStreetMap contributors

- Show Mapper-Types
- New registered (1 Changeset)
  - Nonrecurring (<10 Changesets)
  - Junior (<100 Changesets)
  - Senior (<500 Changesets)
  - Senior+ (<2000 Changesets)
  - Gold (2000+ Changesets)

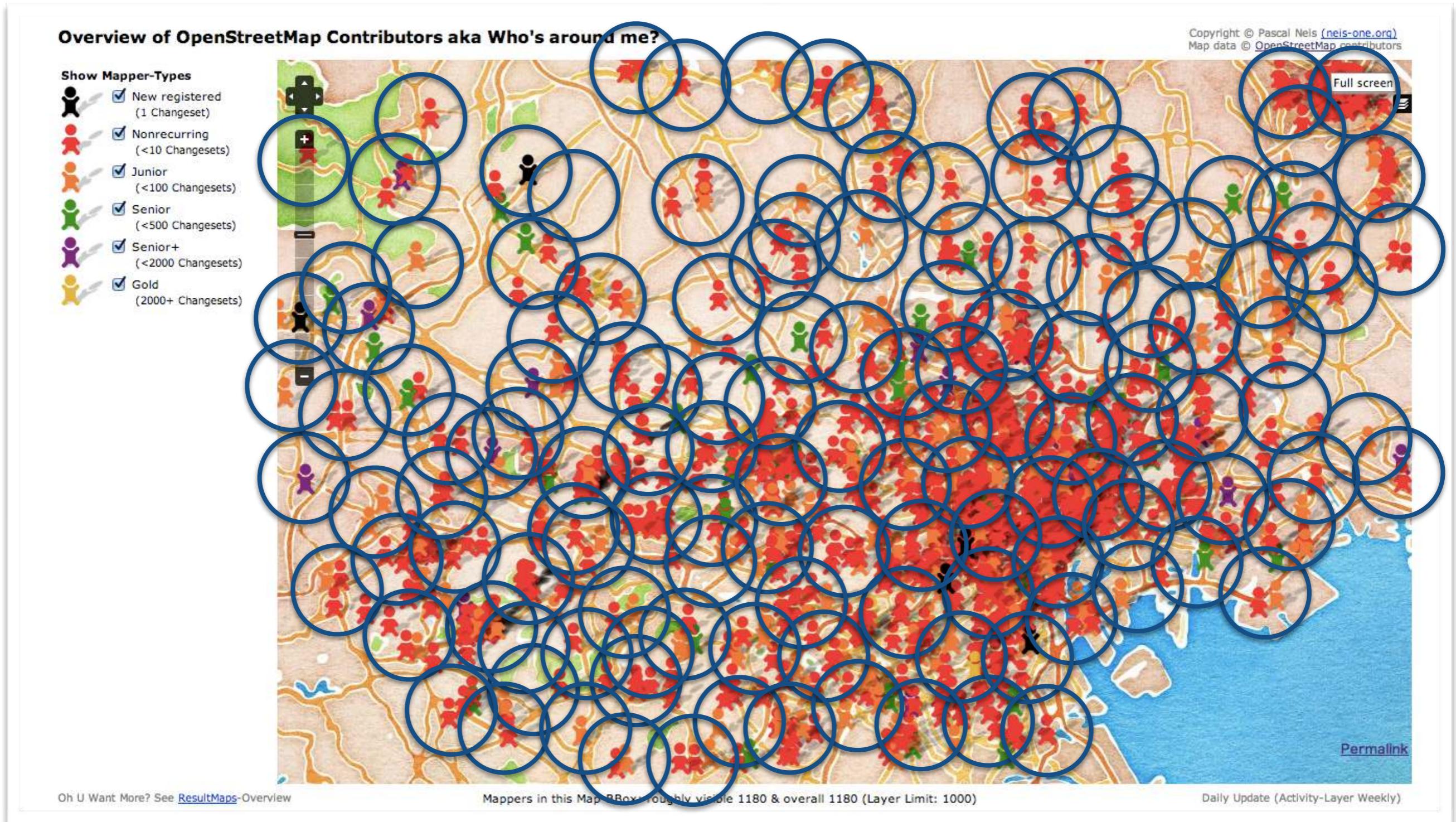


Oh U Want More? See [ResultMaps-Overview](#)

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

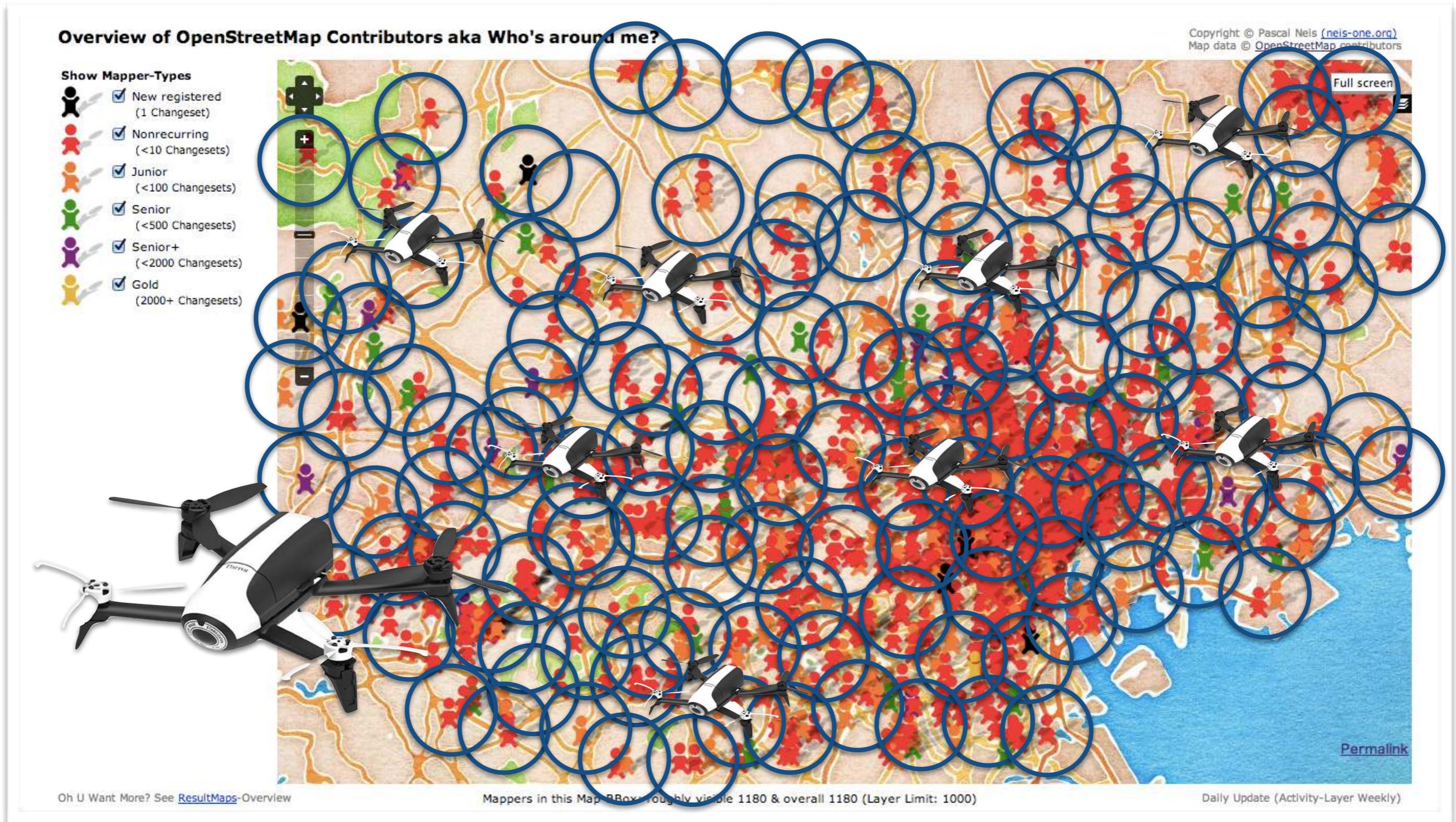
Daily Update (Activity-Layer Weekly)

# Active mappers in Tokyo area



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

# Active mappers in Tokyo area



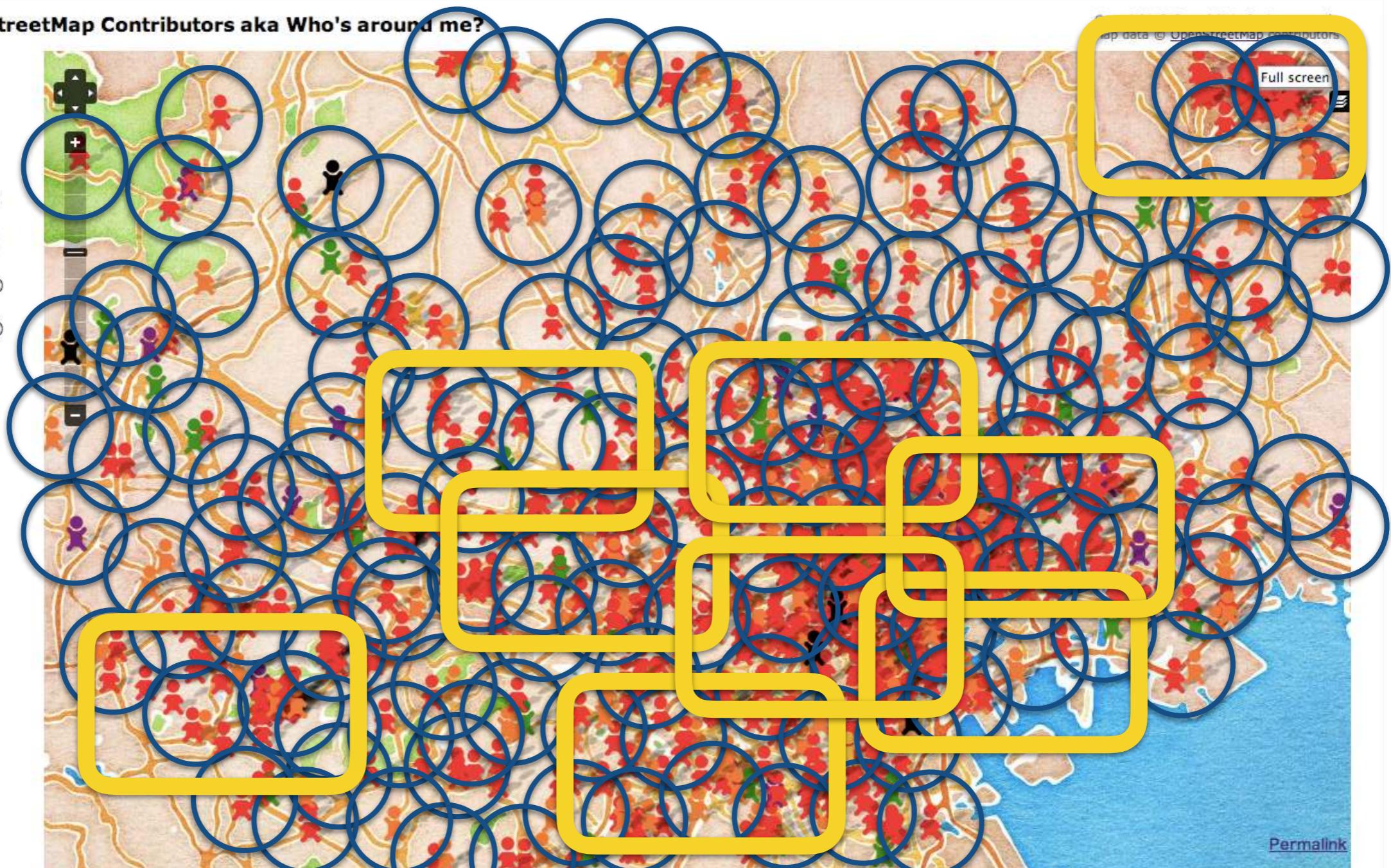
<http://resultmaps.neis-one.org/oooc?zoom=11&lat=35.73308&lon=139.61465&layers=OBOTFFI>

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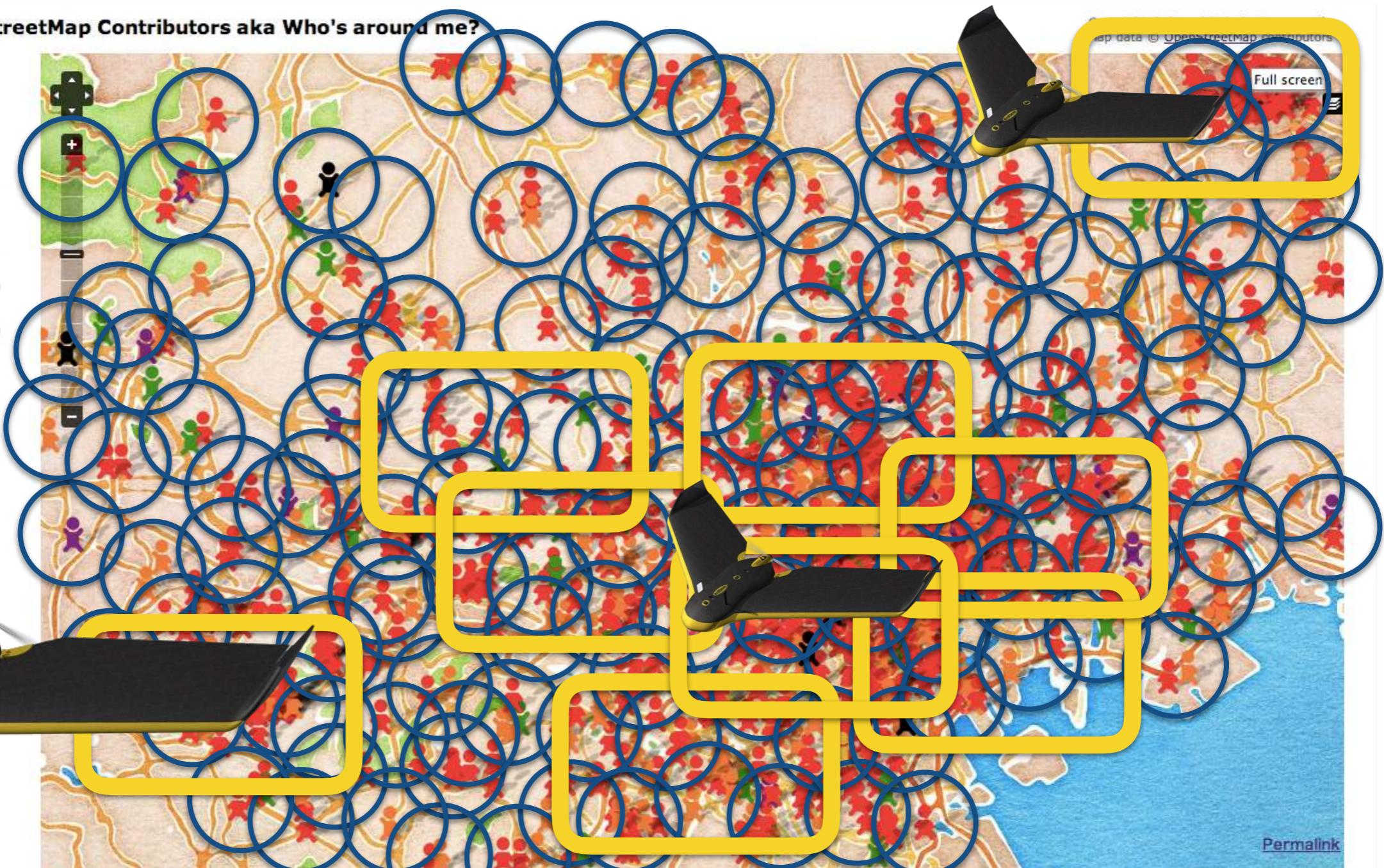
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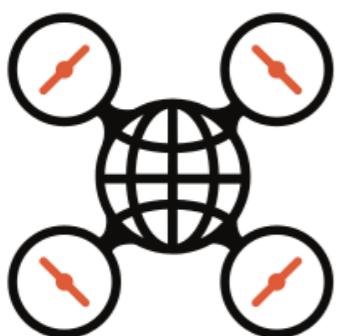


Oh U Want More? See [ResultMaps-Overview](#)

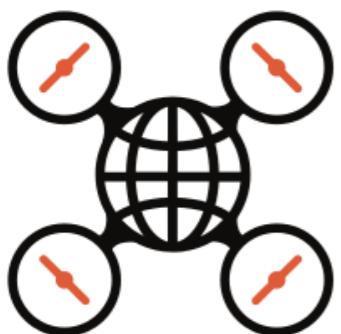
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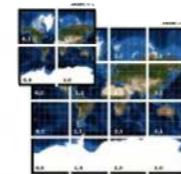




OpenDroneMap



**OpenDroneMap**

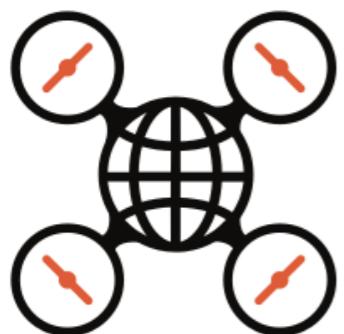


TILE INDEX  
XYZ TILE / ZOOM  
TILE MAP SERVICE

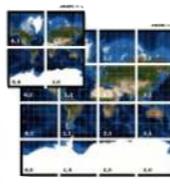


**OpenStreetMap**

osm.org



**OpenDroneMap**



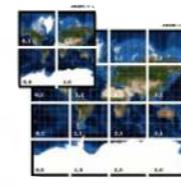
TILE INDEX  
XYZ TILE / ZOOM  
TILE MAP SERVICE



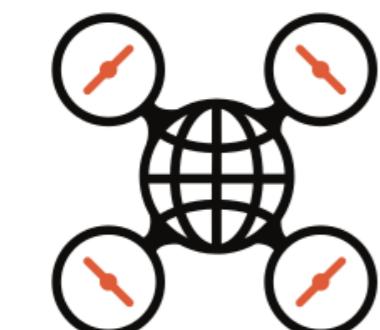
**OpenStreetMap**

osm.org

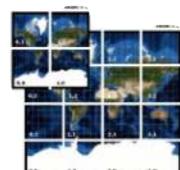




TILE INDEX  
XYZ TILE / ZOOM  
TILE MAP SERVICE



**OpenDroneMap**



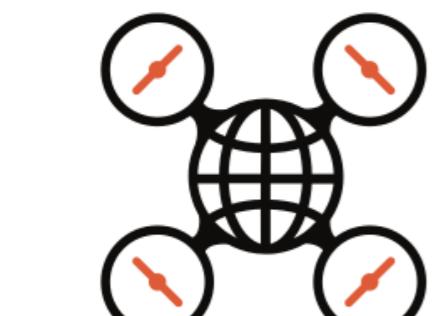
TILE INDEX  
XYZ TILE / ZOOM  
TILE MAP SERVICE



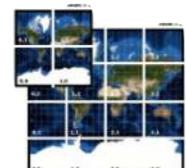
github.com/dronebird



**OpenStreetMap**  
osm.org



OpenDroneMap



TILE INDEX  
XYZ TILE / ZOOM  
TILE MAP SERVICE

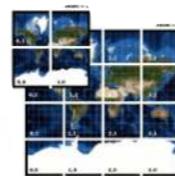


G空間情報センター

[www.geospatial.jp](http://www.geospatial.jp)



[github.com/dronebird](https://github.com/dronebird)



TILE INDEX  
XYZ TILE / ZOOM  
TILE MAP SERVICE



OpenStreetMap

[osm.org](http://osm.org)



日本赤十字社  
Japanese Red Cross Society



British Red Cross



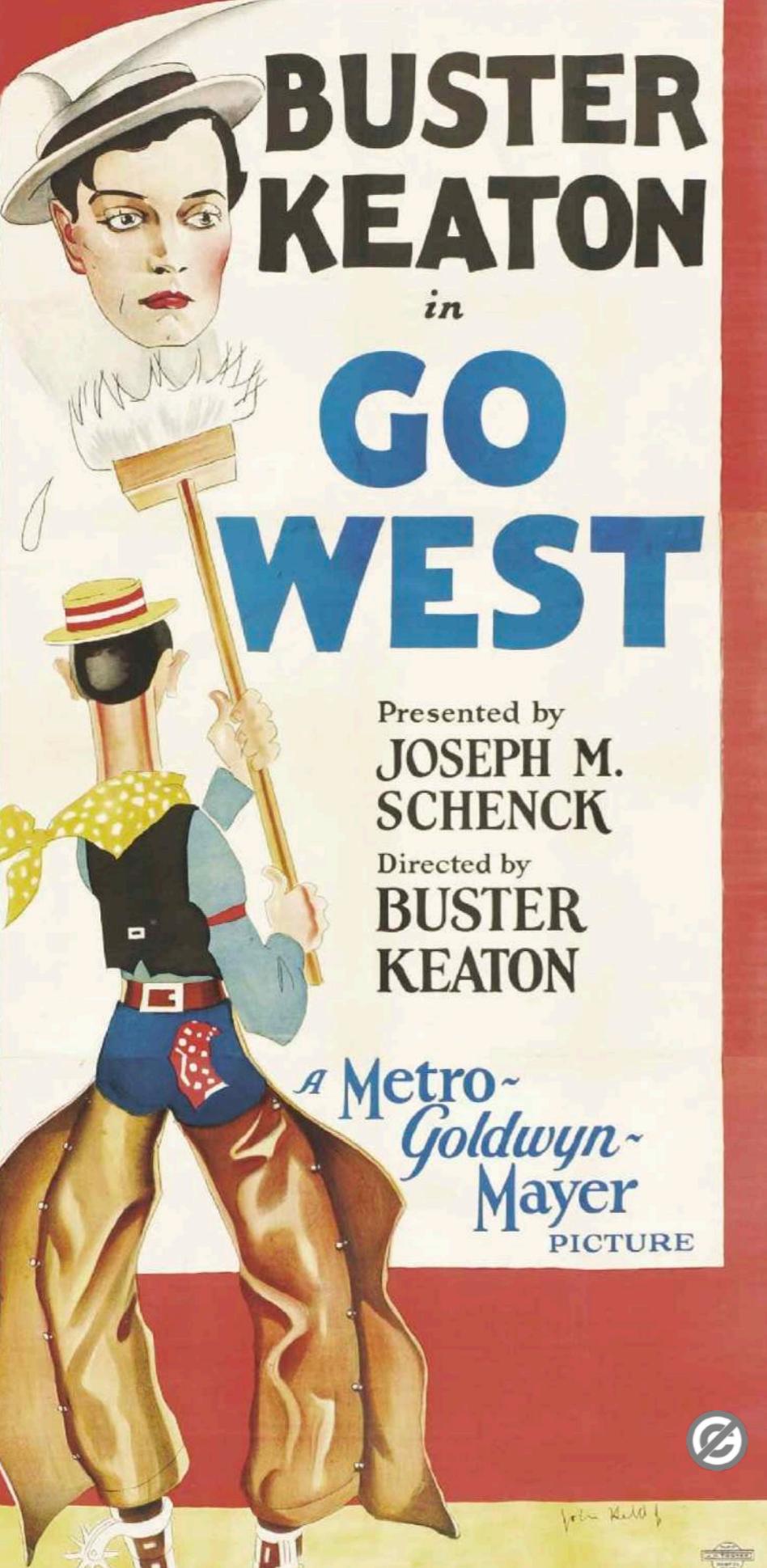
American  
Red Cross

**OUR GOAL:**

2 hours

after earthquake.

In 2018



**BUSTER  
KEATON**

*in*

# GO WEST

Presented by  
**JOSEPH M.  
SCHENCK**

Directed by  
**BUSTER  
KEATON**

A Metro-  
Goldwyn-  
Mayer  
PICTURE

# Go WEST!!

In 2018 July, Japan

呼伦贝尔市  
Hulunbuir

caH  
san

- 白城市  
Baicheng

• 绥化市  
Suihua

● 佳木斯市  
Jiamusi

• 鸡西市  
Jixi

锡林浩特市  
Xilinhot

• 长春市  
Changchun

- 沈阳市  
Shenyang

- 承德市  
Chengde

● 天津市  
Tianjin

• 大连市  
Dalian

潍坊市  
Weifang

● 盐城市  
Yancheng

- 上海市  
Shanghai

抚州市  
Fuzhou

- 温州市  
Wenzhou

• 莆田市  
Putian

- Хабаровск  
• Khabarovsk

## • Южно-Сахалинск Yuzhno-Sakhalinsk

Japan

青森市  
Aomori

- 仙台市  
Sendai

• 東京  
Tokyo

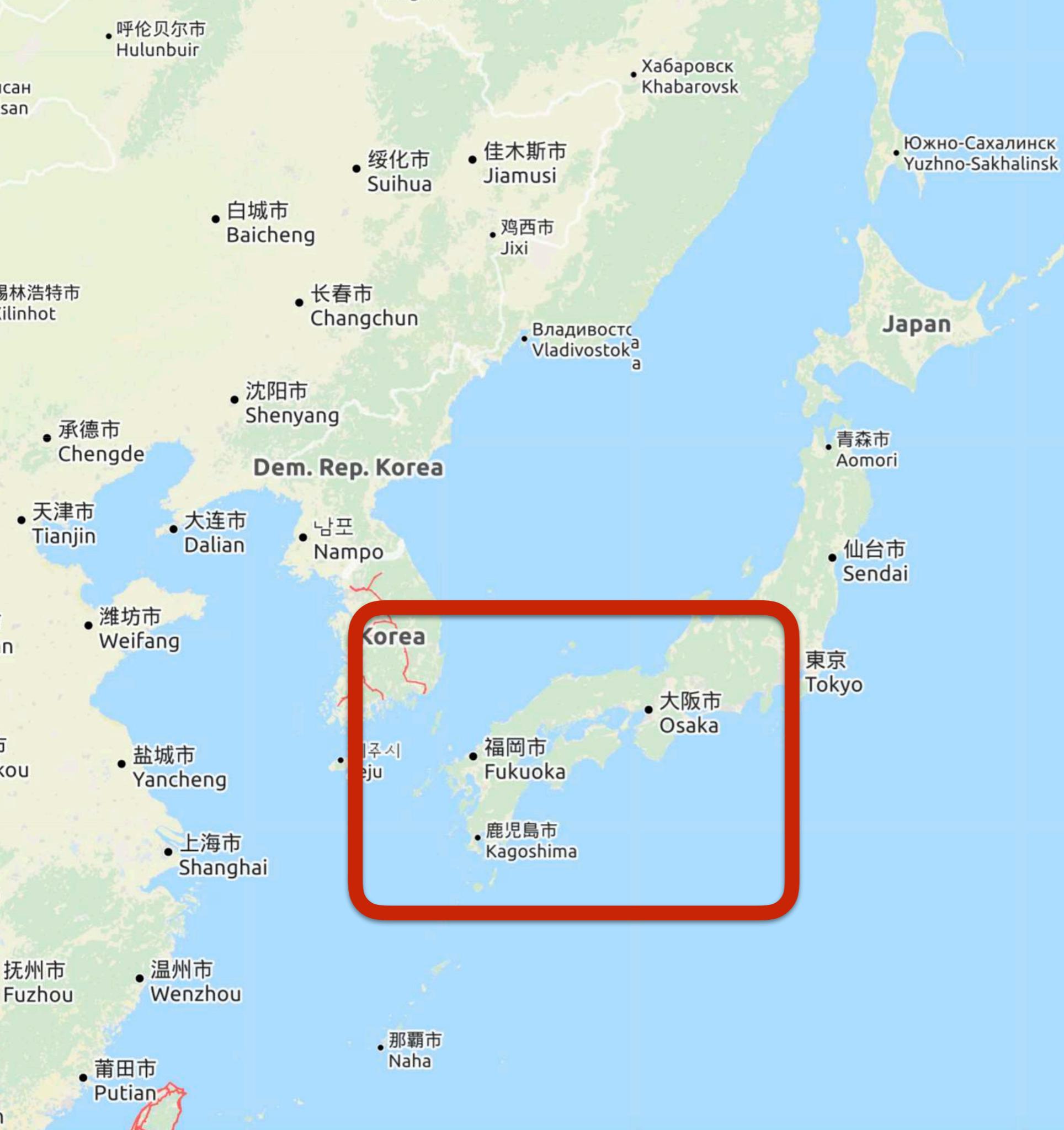
• 大阪市  
Osaka

● 福岡市  
Fukuoka

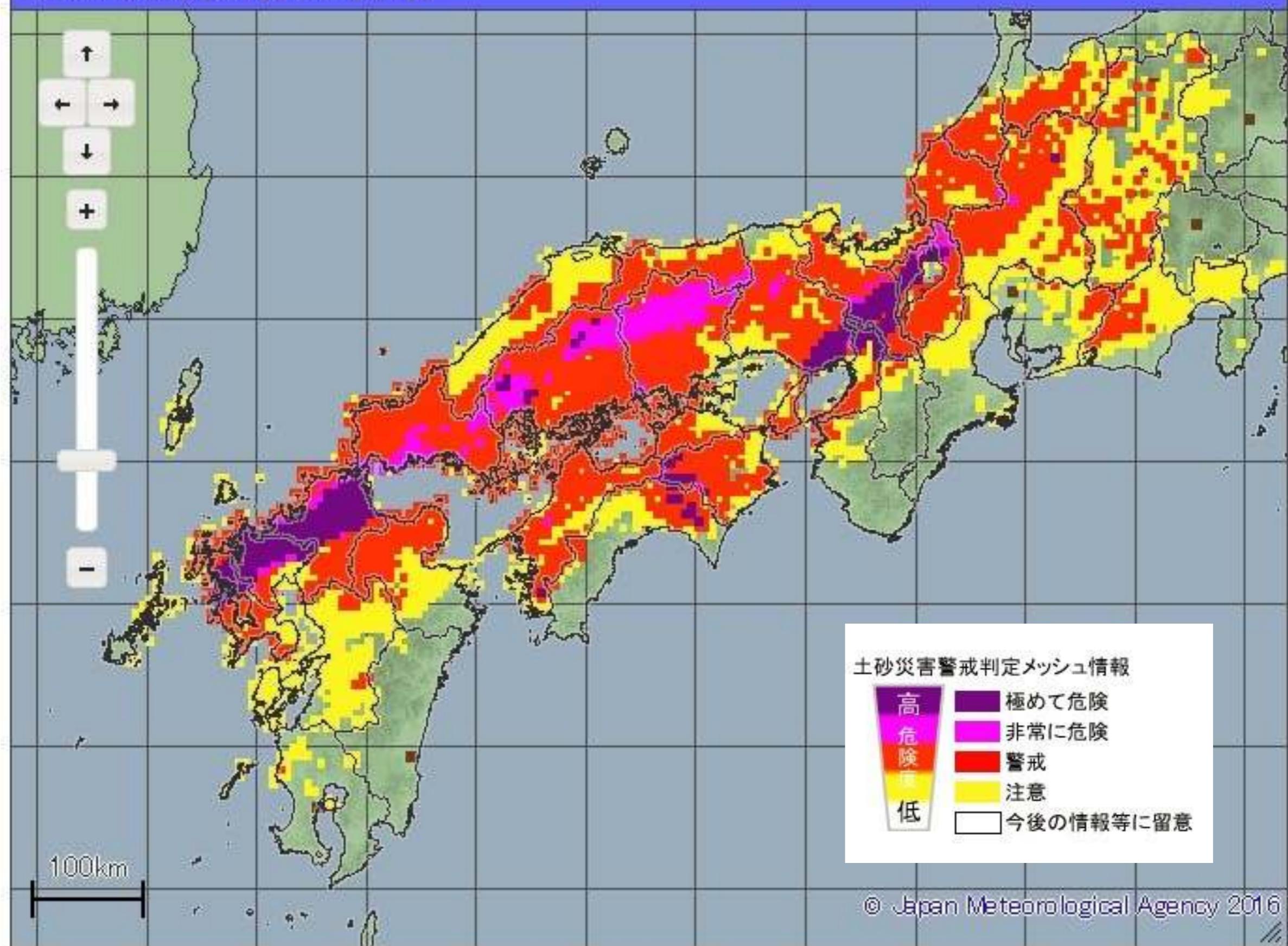
## 제주

- 鹿兒島市  
Kagoshima

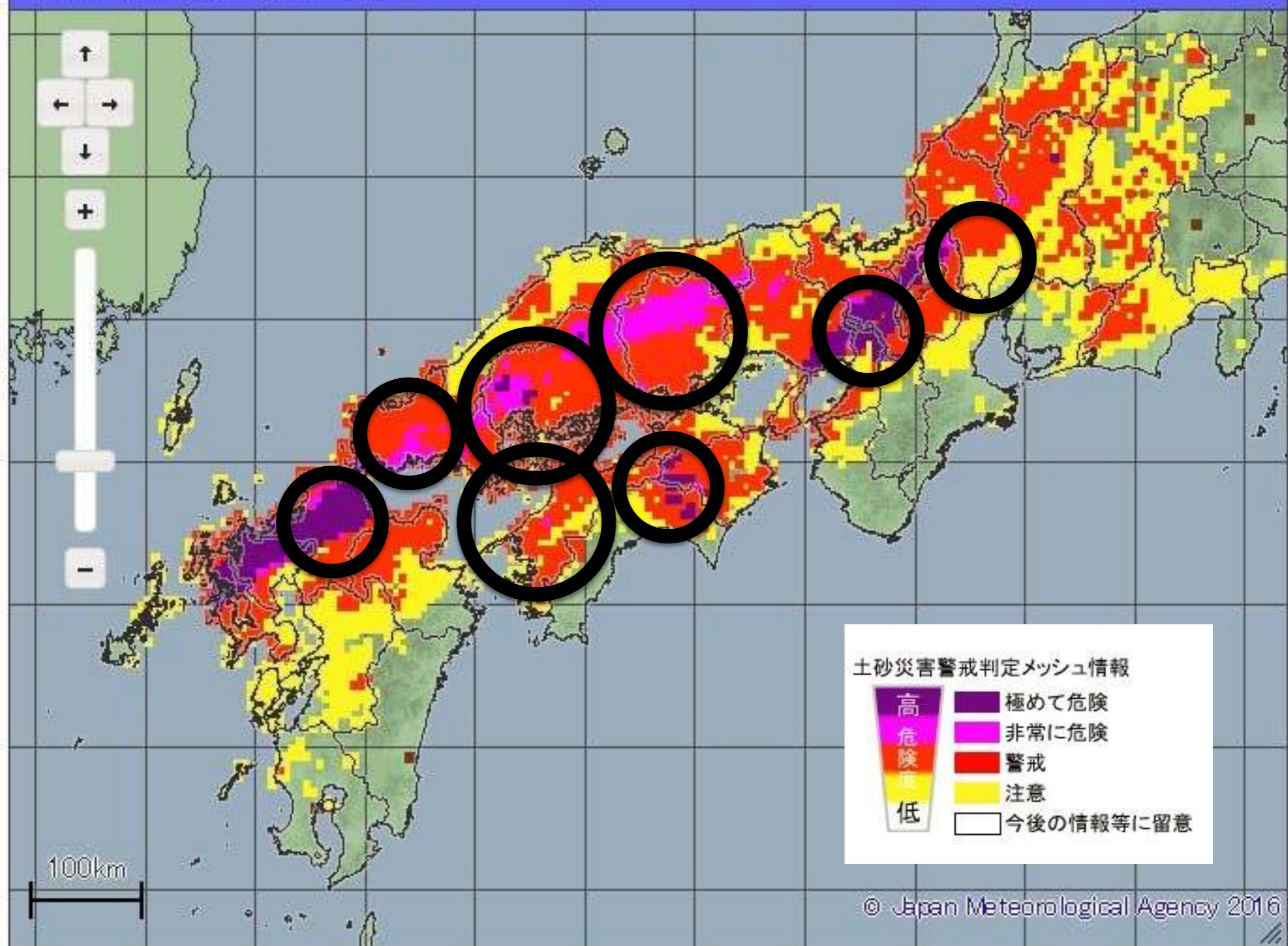
• 莆田市  
Putian



2018年07月06日15時20分



2018年07月06日15時20分







# 平成30年7月豪雨による倉敷市真備町周辺浸水推定段階図

0 500 1000 1500 2000 m

## 推定最大浸水深

	0m
■	1m
■	2m
■	3m
■	4m
■	5m

- ✗ 決壊
- ✗ 法崩れ
- ✗ 越水

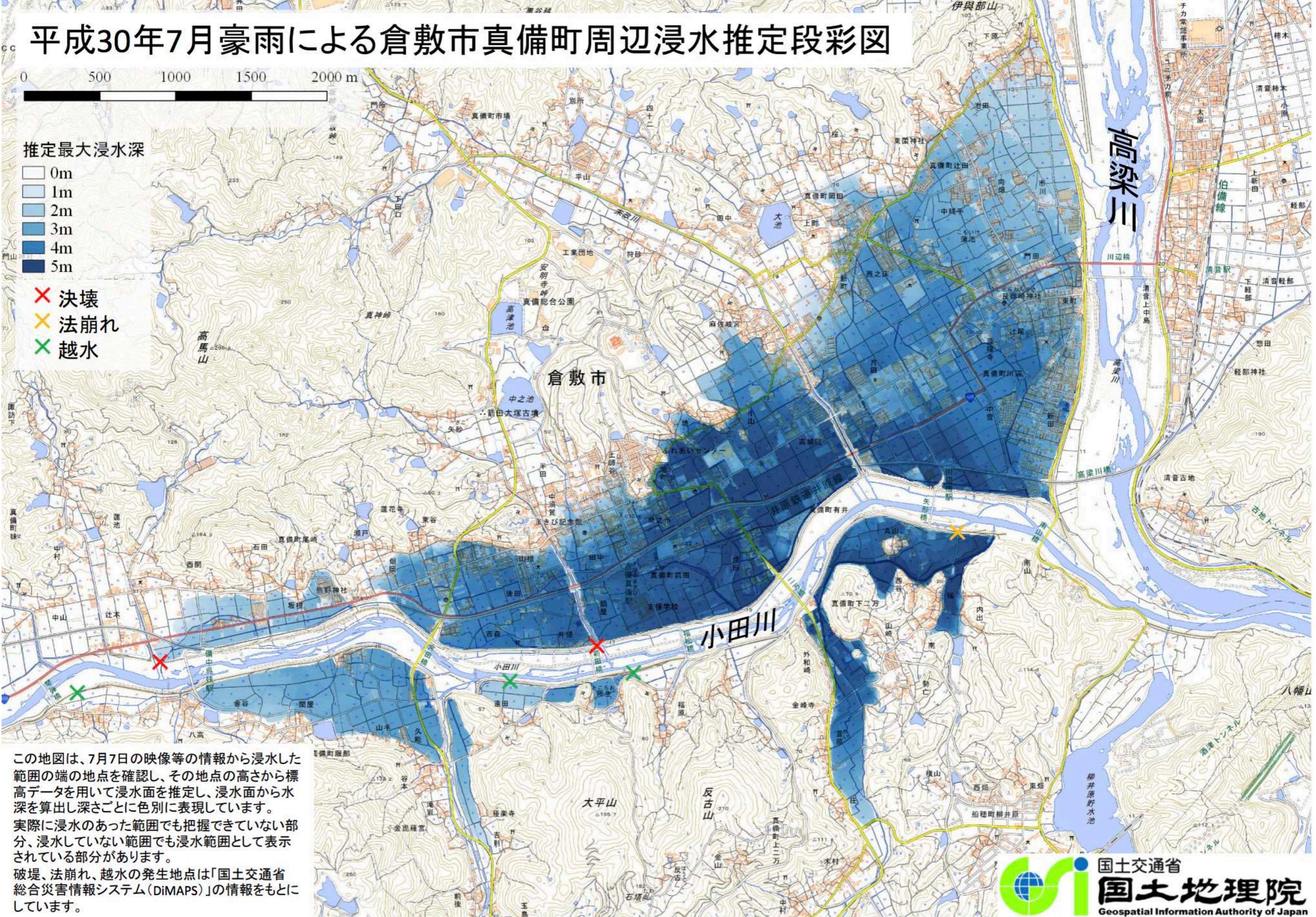




Photo © Kanbara Sakiko



Photo © Kanbara Sakiko

[Instructions](#)[Map](#)[Validate](#)[Questions and Comments](#)

## Instructions

### Entities to map

Buildings

### Changeset Comment

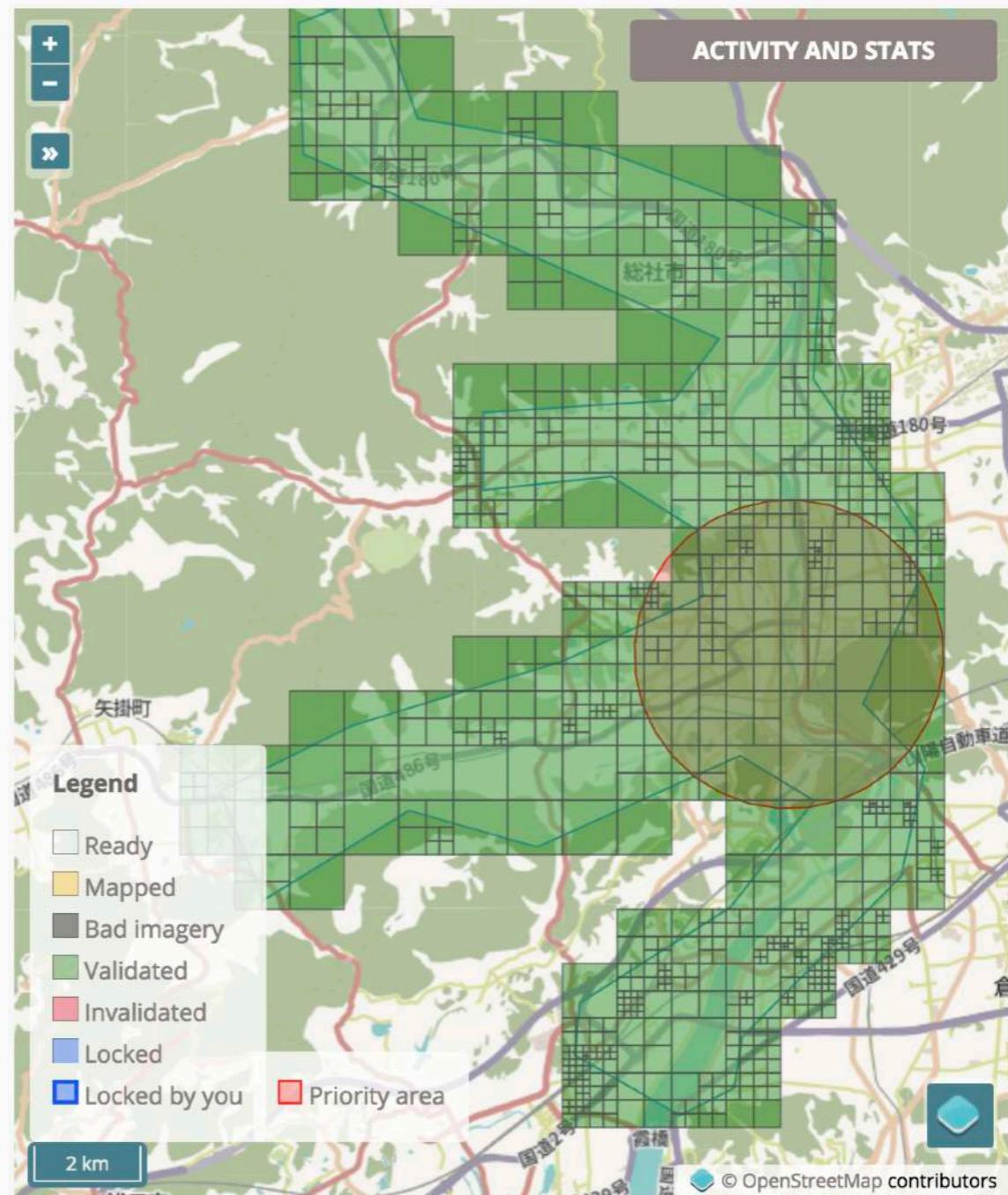
#hotosm-project-4843 #JapanFloodsJuly2018 Adding buildings

### Imagery

tms[22]:<https://cyberjapandata.gsi.go.jp/xyz/seamlessphoto/{z}/{x}/{y}.jpg>

## Special Project Notes

- Two sets of imagery can be used - GSI ortho imagery (auto-loads) and Bing
- GSI ortho imagery loads automatically - Much clearer, but older
- Bing imagery is more recent
- Ctl-B in iD will switch between imagery if you select Bing
- **Validators should validate to Bing**
- You may need to align the imagery to the existing mapping - See below how to do that.
- Do not use DigitalGlobe or Esri - both are much older than GSI ortho imagery or Bing.
- **Buildings Only**
- Try to map individual buildings and not groups of buildings.
- Please be careful not to change or affect existing mapping unless you are local or very experienced.



# 倉敷市から真備エリアへの行き方 (2018/07/08現在)

?????????????

<http://fieldpapers.org/atlasses/sek30m5l/A1>





[https://www.mapillary.com/app/?lat=33.509910251368424&lng=132.5309749568421&z=7.9747589119423665&pKey=XN\\_KQZ3uijhTFKRFkeTxw&focus=photo](https://www.mapillary.com/app/?lat=33.509910251368424&lng=132.5309749568421&z=7.9747589119423665&pKey=XN_KQZ3uijhTFKRFkeTxw&focus=photo)



mabi\_2018-07-10\_DRONEBIRD

[TileJSON](#) | [WMTS](#) | [XYZ](#)

[Web](#) [Desktop](#) [Mobile](#) [Edit](#)

#### Leaflet

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### OpenLayers 3

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### OpenLayers 2

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### Google Maps API (Klokantech)

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### Google Maps API

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### WebGL Earth

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### OL3-Cesium

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### MapBox JS

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

#### ArcGIS API for JavaScript

[Preview](#) [Fullscreen](#) [Source code](#) [Embed](#) [API](#)

TIP: Render your own maps with [MapTiler](#).

[https://github.com/dronebird/oam\\_okayama20180709mabi](https://github.com/dronebird/oam_okayama20180709mabi)



<https://www.openstreetmap.org/edit#map=16/34.6275/133.6839>



## 災害派遣トイレネットワークプロジェクト みんな元気になるトイレ

富士市トイレトレーラー購入のご支援ありがとうございました!

CORELEX コアレックス信栄(株)

石川 淳哉  
高橋 重樹

剣持 忠  
OYOL

エムズコーポ  
林製紙(株)

富士市水道指定工事店協同組合

小竹 完治  
静岡無線サービス(株)

Kobayashi 富士市建設業組合

(株)大貴  
田畠 花一  
NBS

(株)大貴

田畠 花一  
△(株)深澤商会

土地家屋調査士会富士支部

田畠 花一  
△(株)深澤商会

上田 雅典

江村 雄志

太田 智久

影島 清一

佐野 幸利

志賀 江梨子

杉浦 由佳

古橋 大地

丸井製紙(株)

矢崎紙工(株)

石井 雅子

石井 伸之

伊藤 光子

伊藤 伸之

アーキライフ

ラ

設計事務所

秋山 有子

（株）石井組

遠藤 繁

加納 孝則

川島 隆史

佐藤 尚之

土地家屋調査士会富士支部

田畠 花一

（株）大貴

田畠 花一

（株）深澤商会

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丸井製紙(株)

矢崎紙工(株)

石井 雅子

石井 伸之

伊藤 伸之

吉井洋一郎

春日製紙工業(株)

設楽 浩二

女性ネットワーク富士

原 梓

特種東海エコロジー(株)

山田 千津子

山田 俊光

横山 健太

ラジオエフ防災パートナーの

秋島 和章

秋島 慎司

芦沢 貴洋

川井 誠一

北原 真

高橋 真剛

中瀬 桂子

中田 浩生

中野 天祐子

瀬上 洋子

山田 俊光

横山 健太

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原 梓

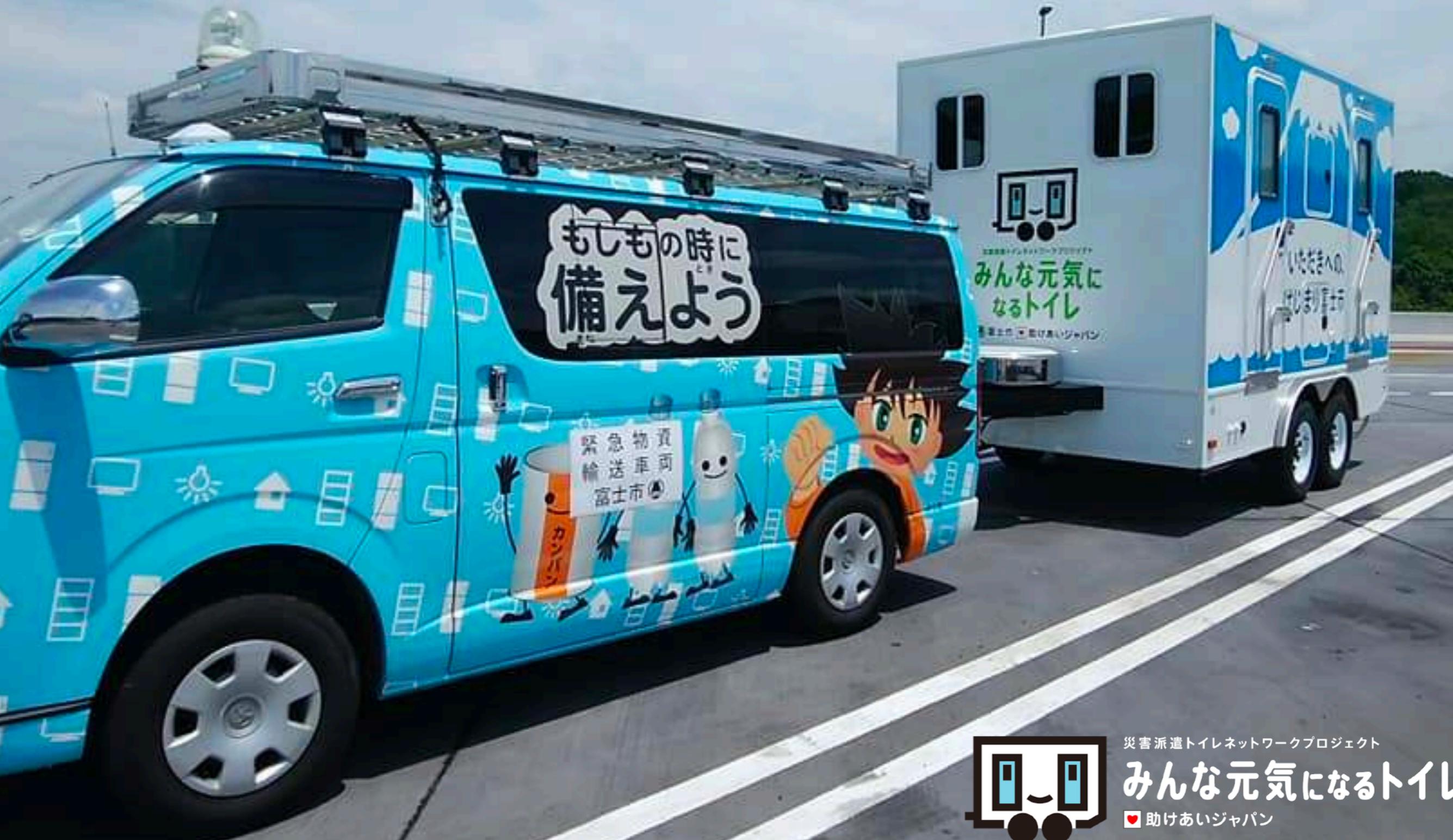
特種東海エコロジー(株)

久保田博義

篠原 千鶴

小堀 明子

（名）



災害派遣トイレネットワークプロジェクト  
**みんな元気になるトイレ**  
■ **助けあいジャパン**

<http://corp.tasukeaijapan.jp/toilet/>

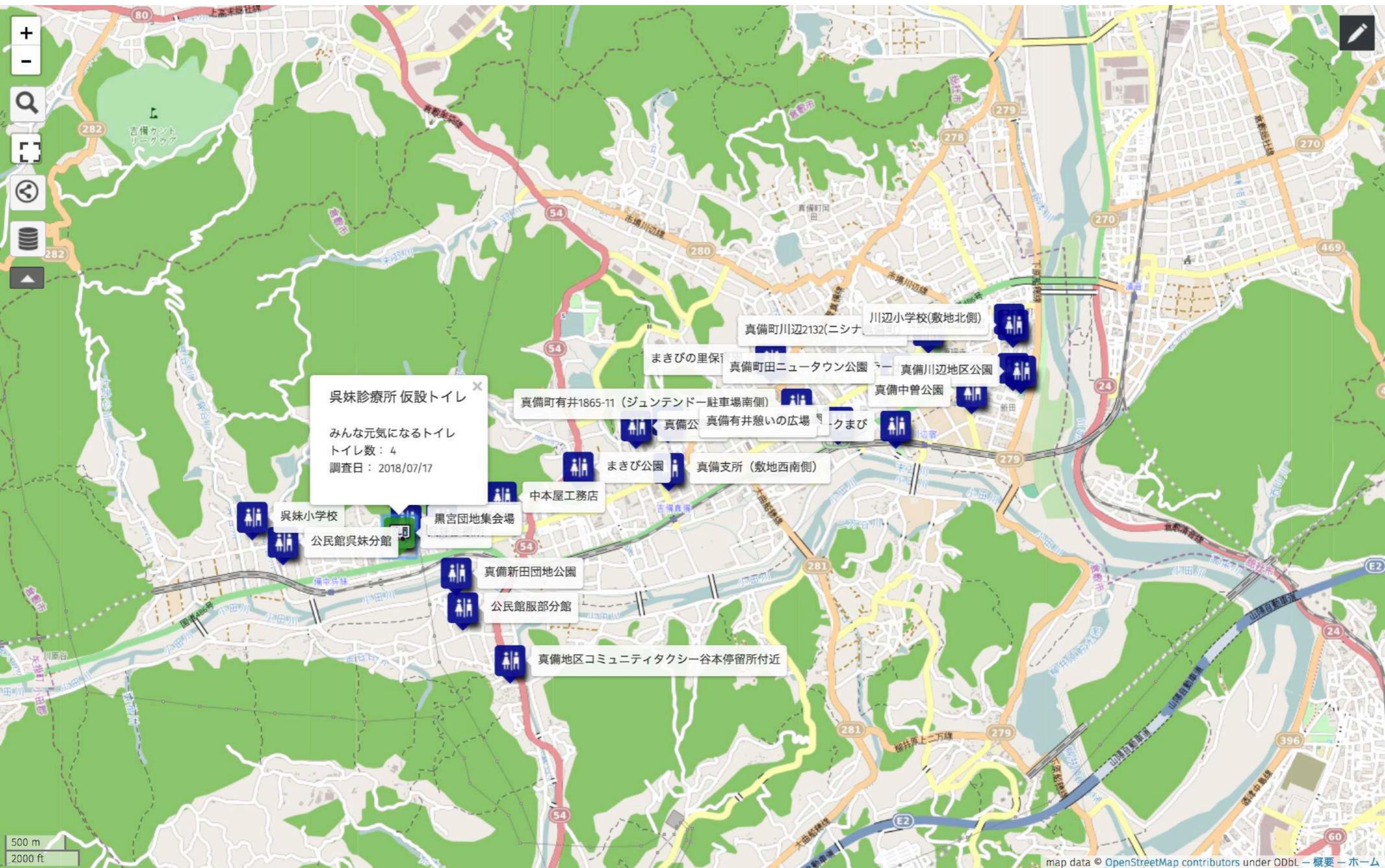


災害派遣トイレネットワークプロジェクト

みんな元気になるトイレ  
■助けあいジャパン

<http://corp.tasukeaijapan.jp/toilet/>

# Temporary Toilets map



## 地図から探す

ツイート シェア

This map shows the locations of various services provided by Mabi-care across different areas of Nagoya. The map includes major roads like Route 486, Route 278, Route 280, and Route 279, along with several rivers such as the Ongagawa River, Koma River, and Shimanogawa River. Service points are marked with icons: green circles for pedestrian access, blue circles with a shower head for bathhouses, red circles with a person icon for convenience stores, and white circles with a fork and knife for restaurants. A legend at the bottom explains these symbols.

Leaflet | Map data © OpenStreetMap

コンビニ 飲食店 お風呂 トイレ 美容院 薬局 こども 高齢者向け ペット 避難所

<https://mabi-care.com/>

[https://tasks.hotosm.org/contribute?  
organisation=CrisisMappers%20JAPAN](https://tasks.hotosm.org/contribute?organisation=CrisisMappers%20JAPAN)

 **TASKING MANAGER** Contribute Learn About What is New? English ▾ MAPconcierge 23 ▾

**Search**  
Search project description or project number  

Include archived projects  
 Include draft projects

**Mapping difficulty** All

**Organisation** CrisisMappers JAPAN

**Campaign** All

**Type(s) of mapping**

Roads  
 Buildings  
 Waterways  
 Land use  
 Other

**#4858 Japan Flood 2018 July, Kure city, Hiroshima**  
Priority: URGENT  
Heavy Rain, Floods and Landslides happened in South West area of Japan. (2018/07)  
Japan Red Cross is working in this affected area. We will support for them. First mission means making building data. If you have time, please help to us. Thanks!!  
Organization: CrisisMappers JAPAN  
Campaign: DRONEBIRD  
Level: BEGINNER  
88% Mapped 88% Validated

**#4908 Japan Flood 2018 July, GSI ortho imagery, Kurashiki/Sojya, Okayama**  
Priority: MEDIUM  
Heavy Rain, Floods and Landslides happened in South West area of Japan. (2018/07)  
Disaster Volunteer teams are working in this affected area. We will support for them. First mission means making building data. If you have time, please help to us. Th...  
Organization: CrisisMappers JAPAN  
Campaign: DRONEBIRD  
Level: BEGINNER  
1% Mapped 0% Validated

**#4888 Japan Flood 2018 July, Ozu city, Ehime**  
Priority: MEDIUM  
Heavy Rain, Floods and Landslides happened in South West area of Japan. (2018/07)  
Ehime University and other organizations are working in this affected area. Our first mission means making building data. If you have time, please help to us. Thanks!!  
Organization: CrisisMappers JAPAN  
Campaign: DRONEBIRD  
Level: BEGINNER  
2% Mapped 0% Validated

**#4772 Ibaraki City, Osaka Earthquake 2018 Jun, JAPAN**  
Priority: MEDIUM  
M6.1 Earthquake happened in north are of Osaka prefecture, Japan. (2018/06/18 7:58 JST)  
[https://en.wikipedia.org/wiki/2018\\_Osaka\\_earthquake](https://en.wikipedia.org/wiki/2018_Osaka_earthquake)  
Some disaster volunteer centers have launched in affe...  
Organization: CrisisMappers JAPAN  
Campaign: DRONEBIRD  
Level: BEGINNER  
75% Mapped 73% Validated





**CRISIS**  
mappers  
J A P A N

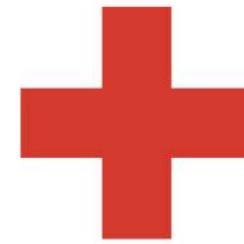


Sharing High Priority Area

まびケア  
- 滅災のための情報ポータル -  
<https://mabi-care.com/>



<http://corp.tasukeajapan.jp/toilet/>



日本赤十字社  
Japanese Red Cross Society



MEDECINS SANS FRONTIERES  
国境なき医師団



**CRISIS**  
mappers  
J A P A N



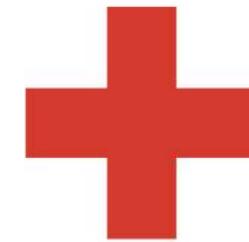
Making Tasking Manager  
projects

Sharing High Priority Area  
Sharing High Priority Area  
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**まびケア**  
- 滅災のための情報ポータル -  
<https://mabi-care.com/>



<http://corp.tasukeaijapan.jp/toilet/>



日本赤十字社  
Japanese Red Cross Society





**CRISIS**  
mappers  
**JAPAN**

  
災害ドローン救援隊  
**DRONE BIRD**

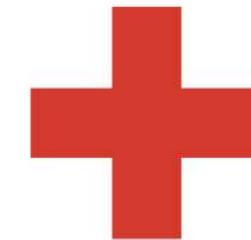
Making Tasking Manager  
projects

Sharing High Priority Area  
Sharing High Priority Area  
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Sharing High Priority Area

**まびケア**  
-減災のための情報ポータル-  
<https://mabi-care.com/>



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Japanese Red Cross Society



→  
Making  
Maps



青山学院大学  
Aoyama Gakuin University

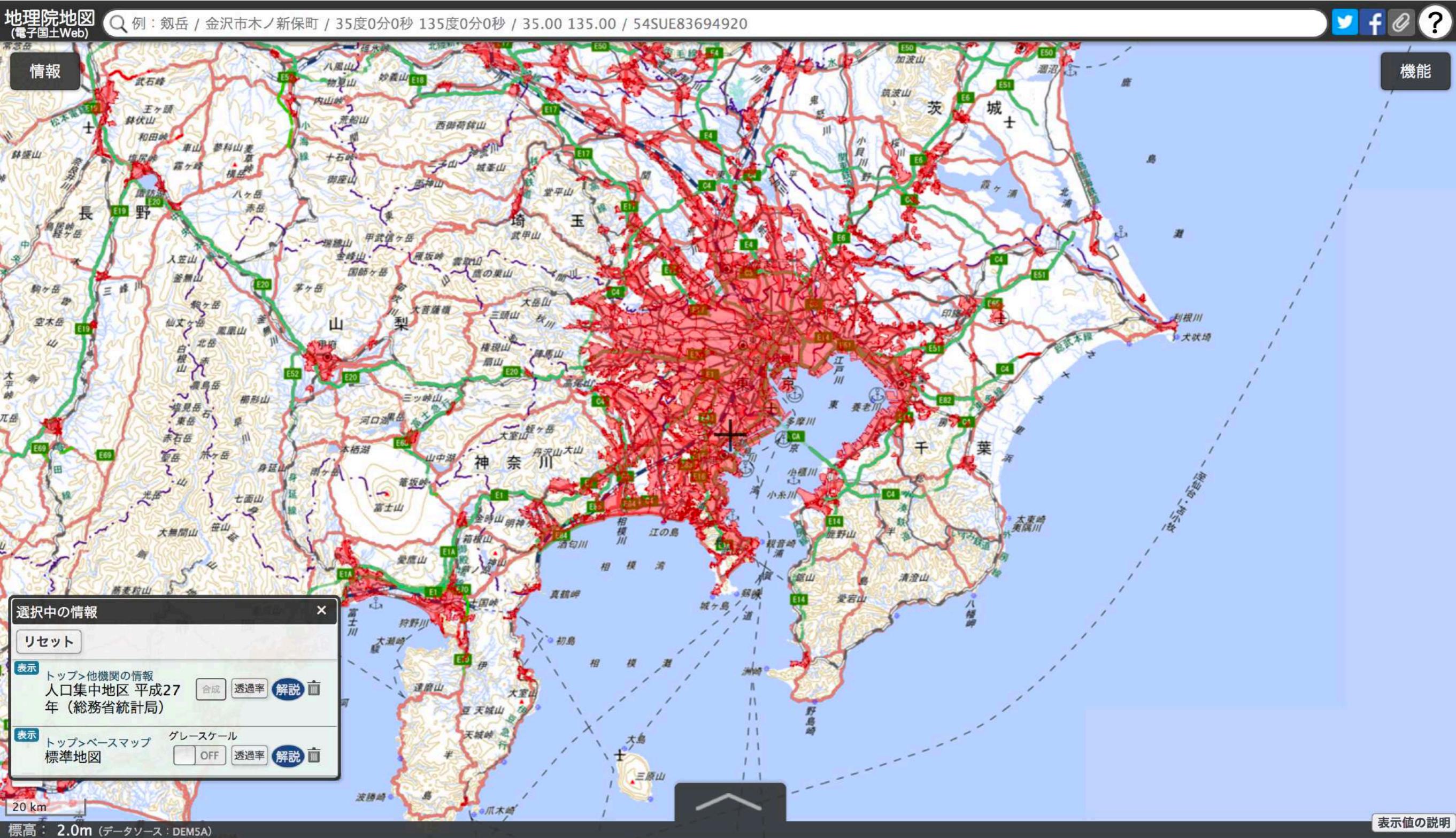
Many many thanks for  
Volunteered mappers in the world!!



# Next Steps

How should we comply  
with the aerial law?

# Almost of the big cities are restricted areas for Drones.



<https://maps.gsi.go.jp/#9/35.489747/139.660950/&base=std&ls=std%7Cdid2015&blend=0&disp=11&lcd=did2015&vs=c1j0h0k0l0u0t0z0r0s0f1&d=v>

# ドローン使用禁止

Drone Use Prohibited

中島公園内のドローンの離着陸および操作は禁じられています。  
ご理解とご協力ををお願いいたします。

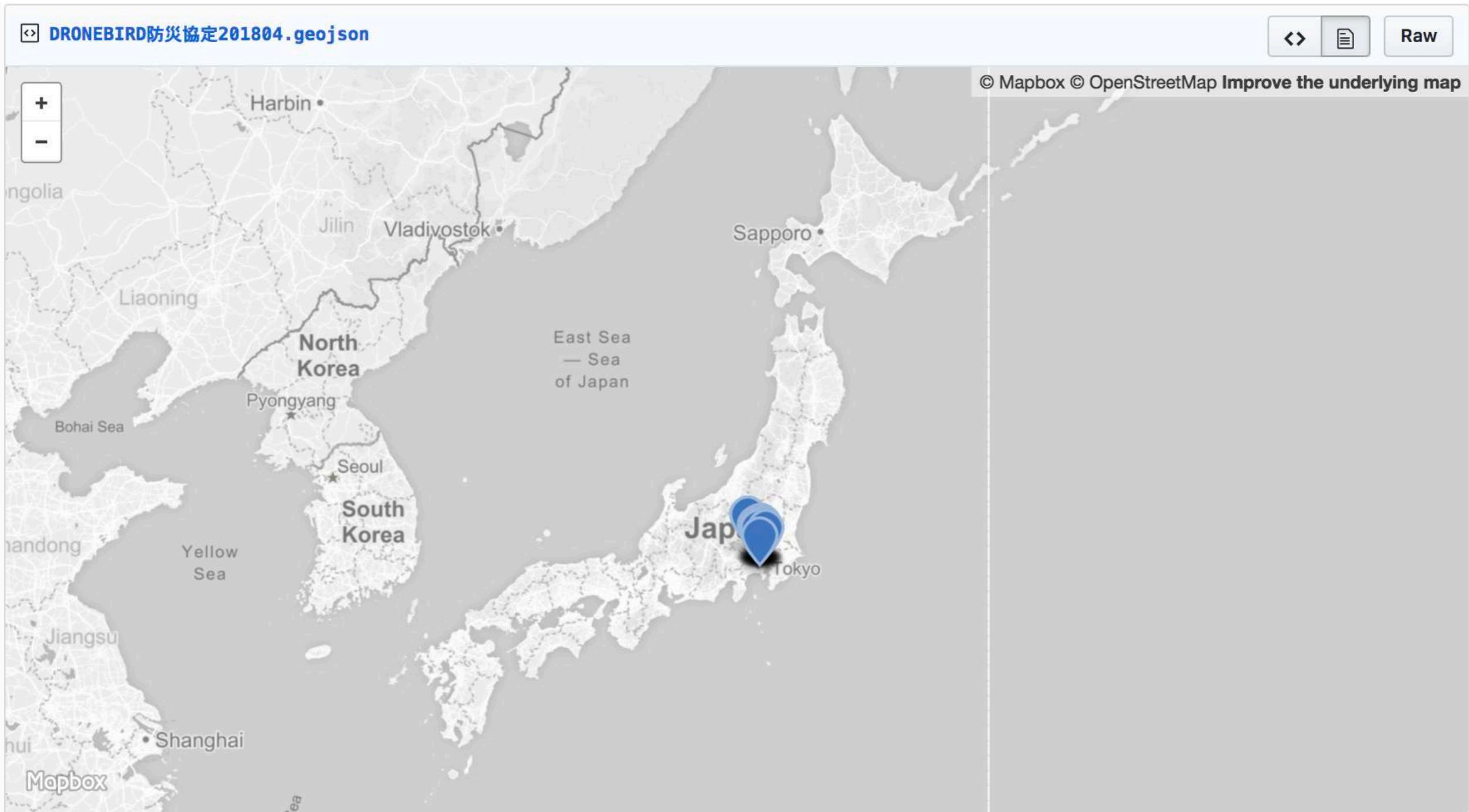
Launching, landing or operating drones in Nakajima Park is prohibited.  
Thank you for your understanding and cooperation.

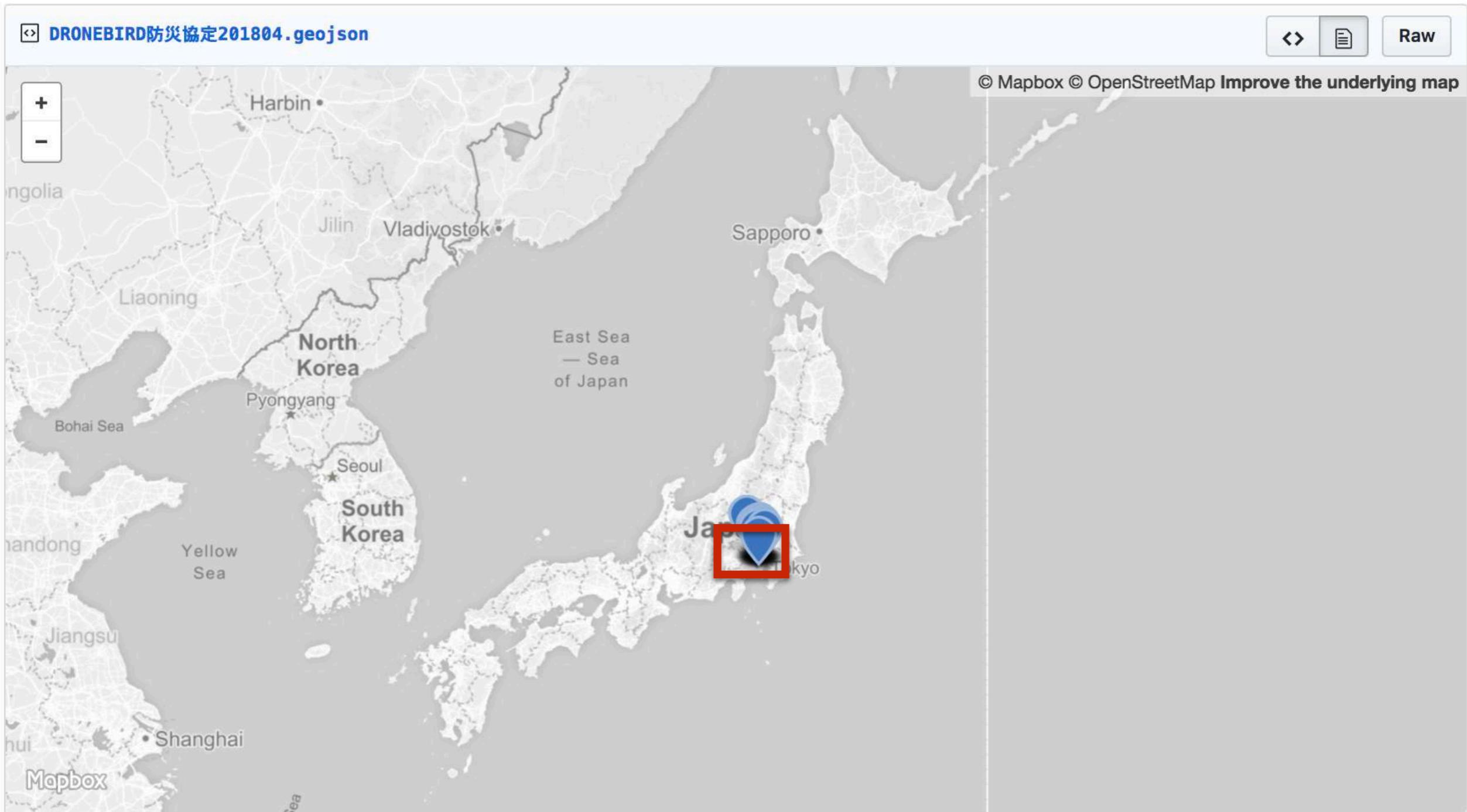


中島公園管理事務所  
Nakajima Park management work place

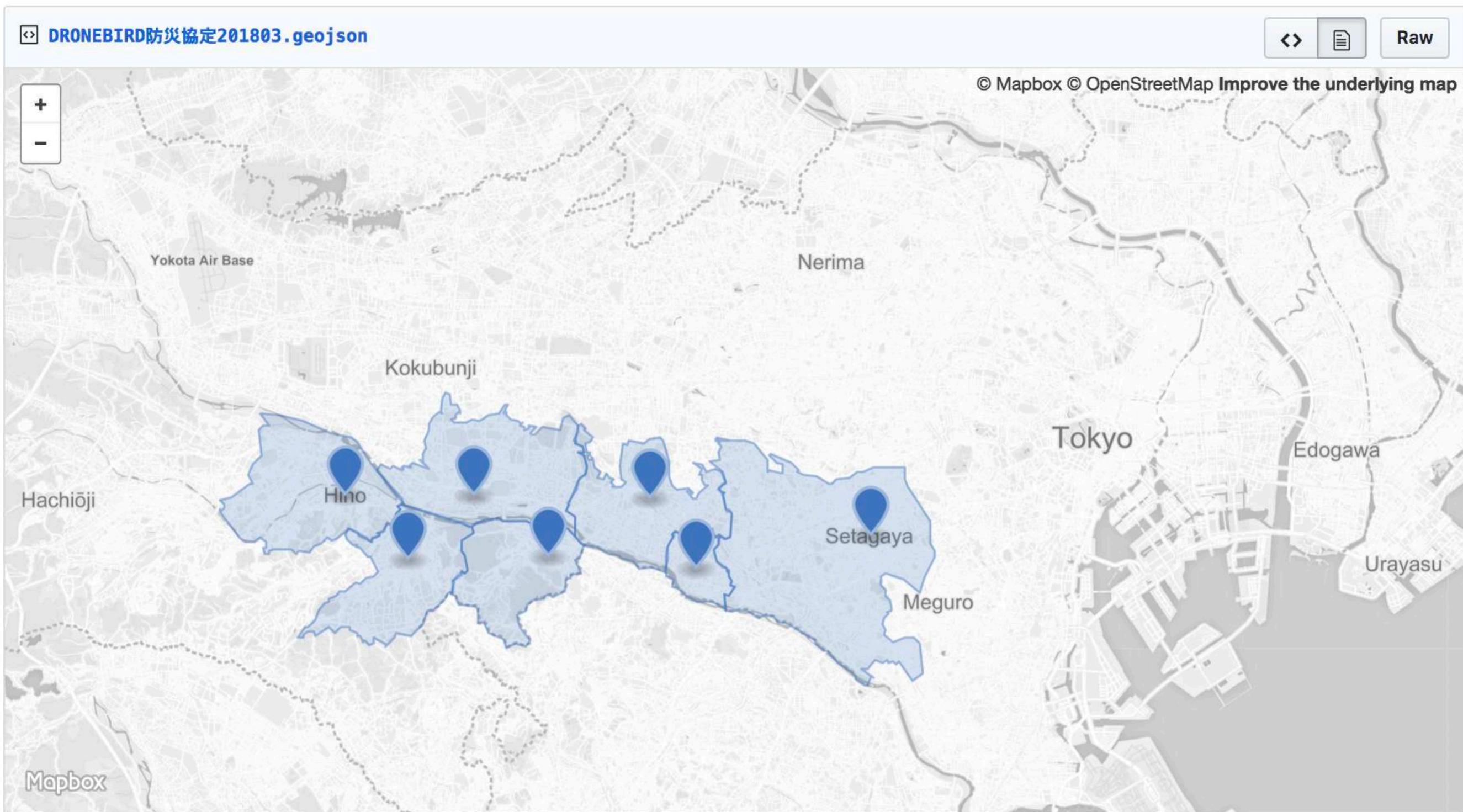
Our answer is ⋯

Agreements  
with local governments  
in Japan



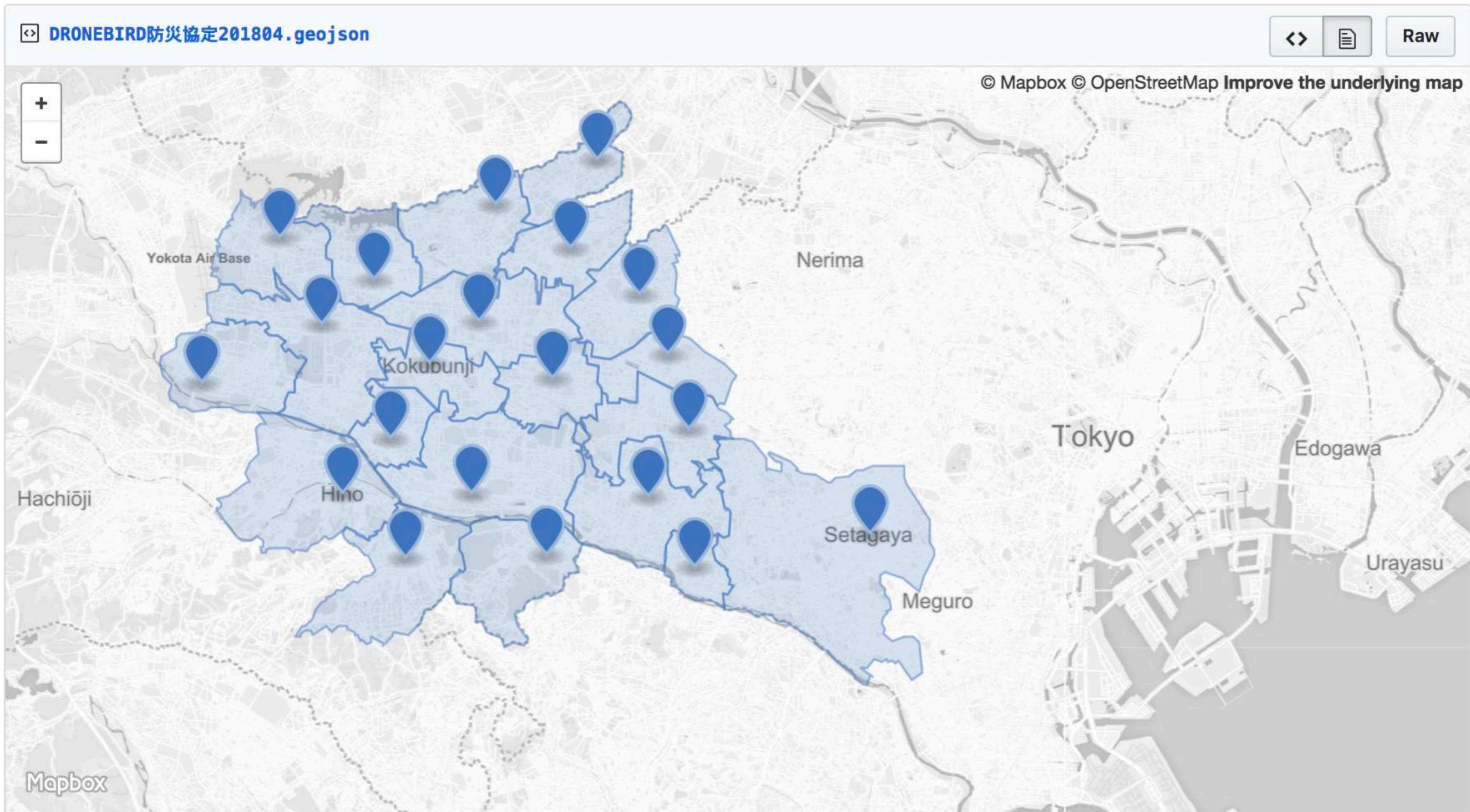


# In 2017



9 local governments

# In 2018 July

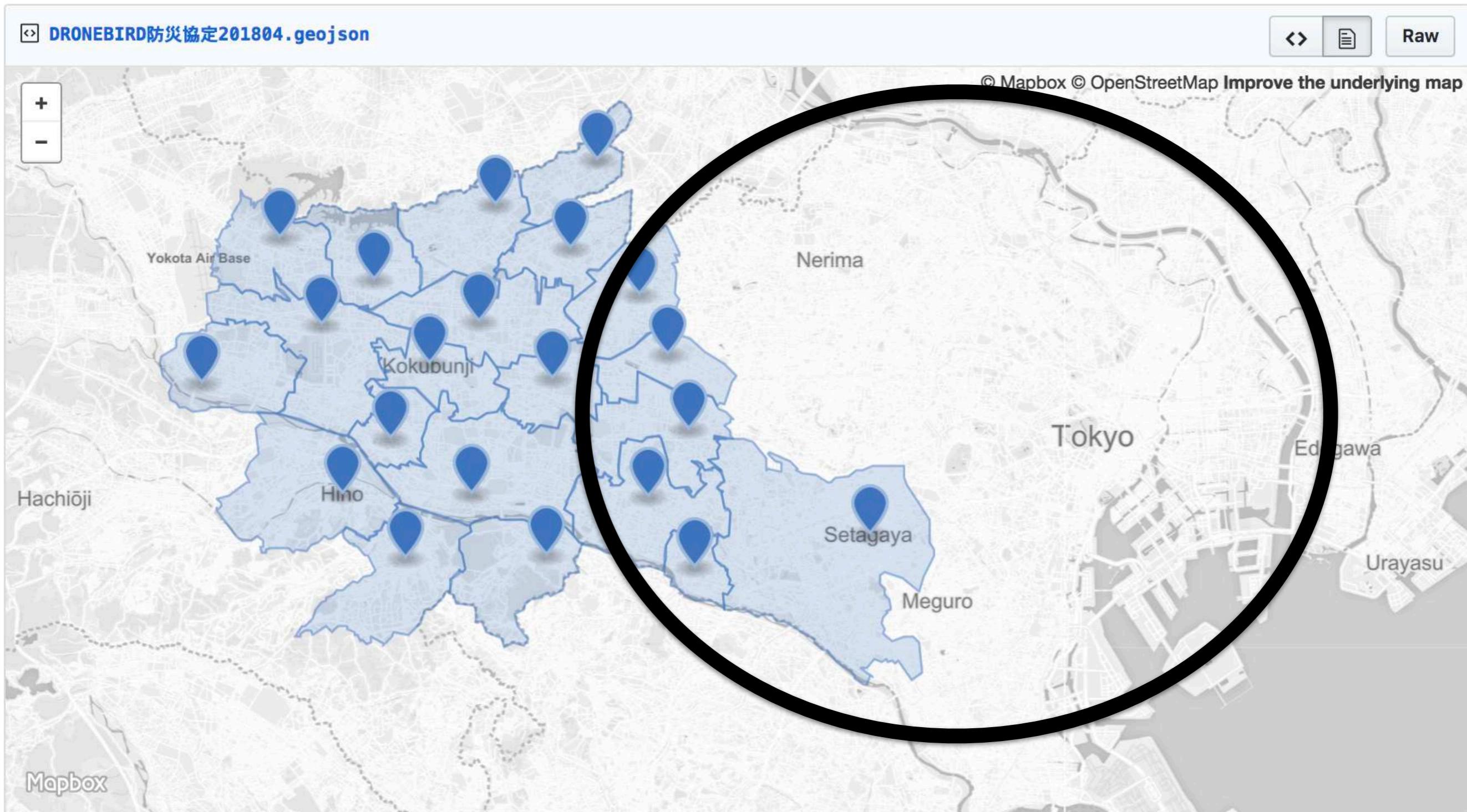


24 local governments

寺における無人航空機を活用した支援活動等に関する協定 締結式



# Our next target area is···



Central of Tokyo



mapconcierge / DRONEBIRD防災協定201804.geojson

Created a month ago

 Edit Delete Star

0

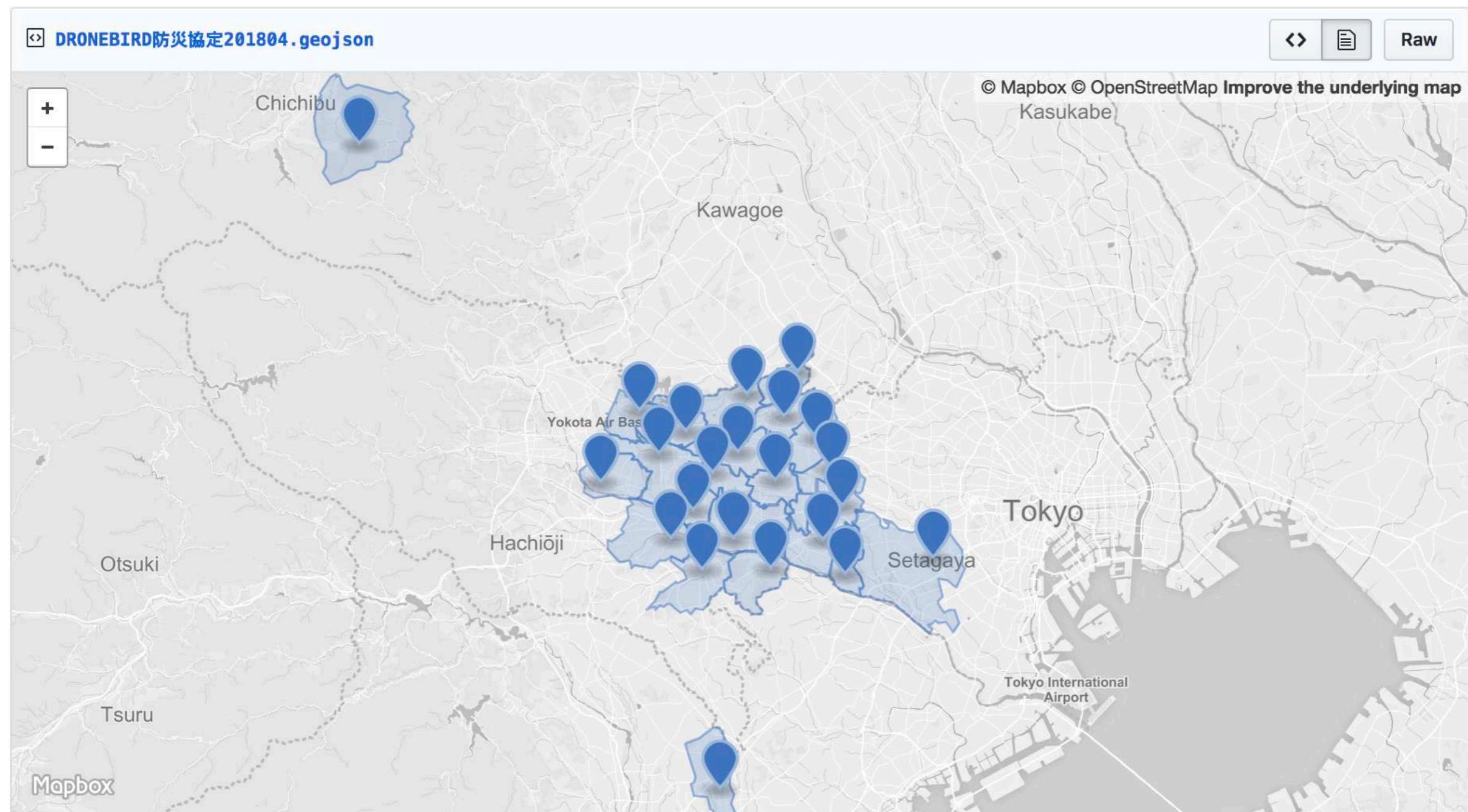
 Code Revisions 1

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mapconcierge / DRONEBIRD防災協定201804.geojson

Created a month ago

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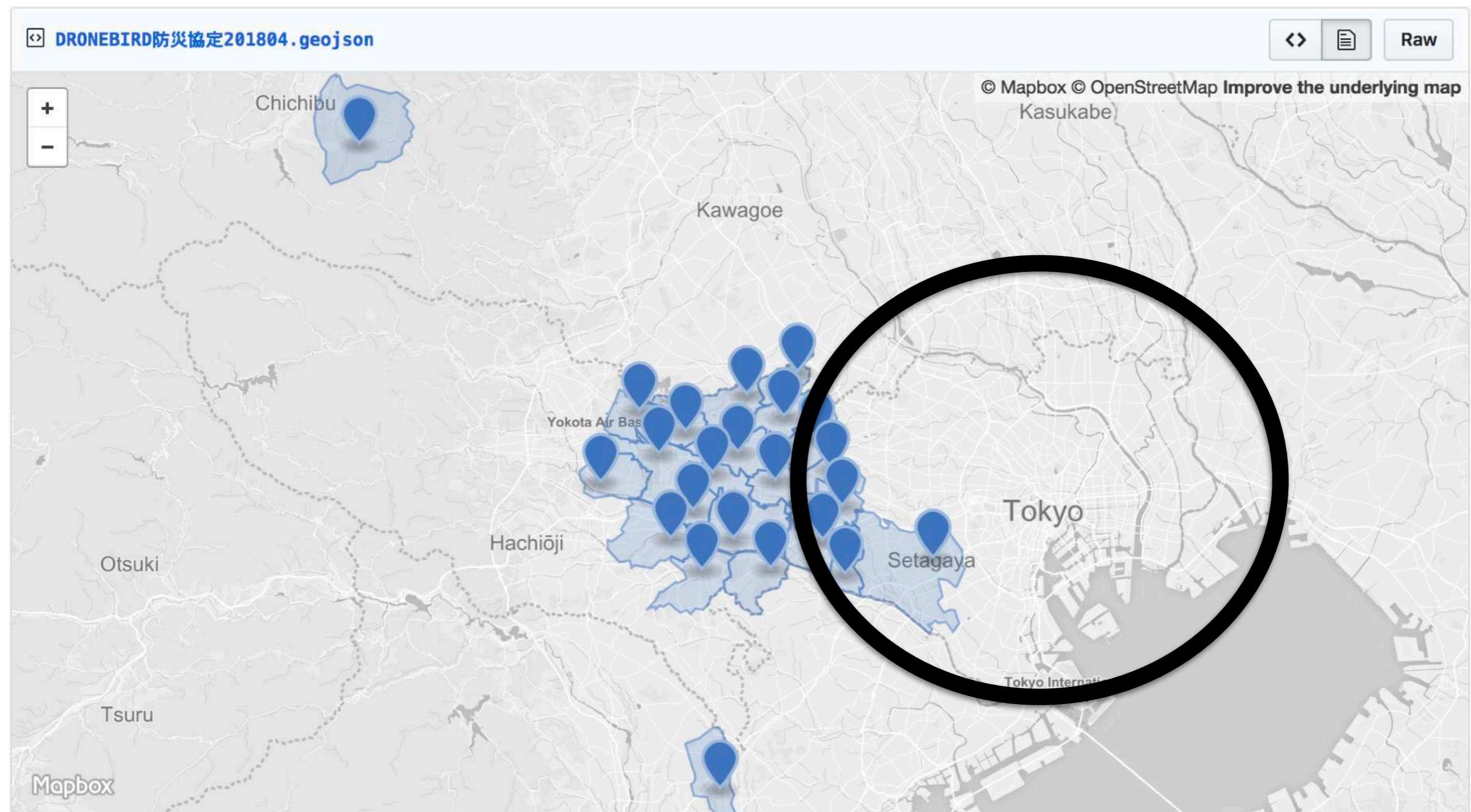
 Code Revisions 1

Embed ▾

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Recently, we have agreements  
with over 24 local governments  
In Japan.

We will extend to more huge area.

And collaboration with





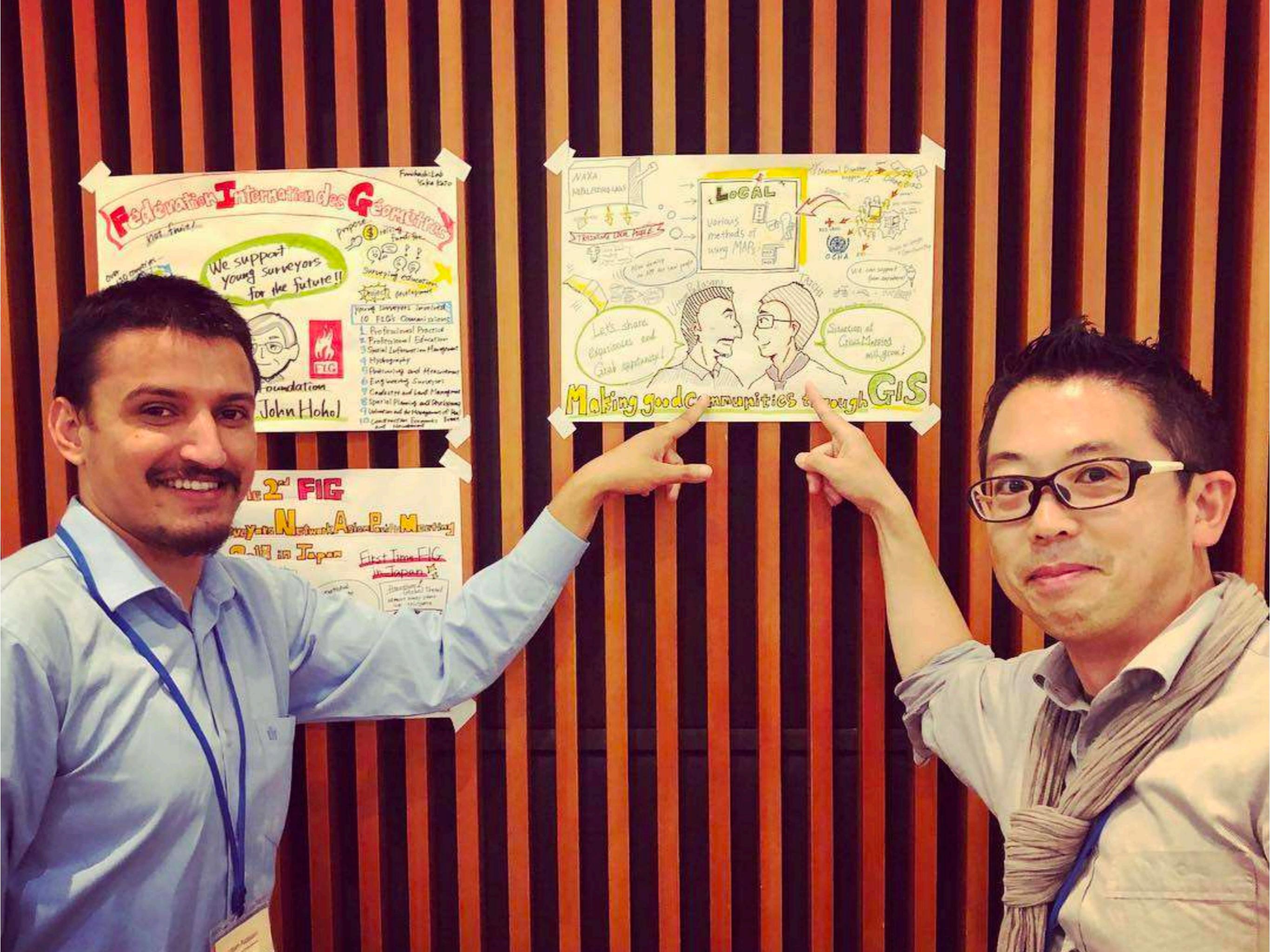
Robotics for the Benefit of All

FLYING LABS PROGRAMS TRAININGS COMMUNITY ABOUT US ▾ BLOG



We create global solutions for developing countries through our sector-oriented programs

<https://werobotics.org/>





Another approaches  
in **peacetime**

**Education** for  
next generation of **Mappers**  
with Missing Maps project.









MISSING  
MAPS



青山学院大学  
Aoyama Gakuin University

**Education** for  
next generation of  
**Drone Pilots**

with local tourism association

Izu-Oshima Island, Tokyo



In 2013



# 伊豆大島台風26号被災状況マップ

被災状況把握のためのマップです

 レポートを送信

ホーム レポート レポートを送信 はじめての方へ 地理・地図情報 レポートをダウンロードする BIG MAP PRINT MAP

To embed this map in your own site use this HTML:

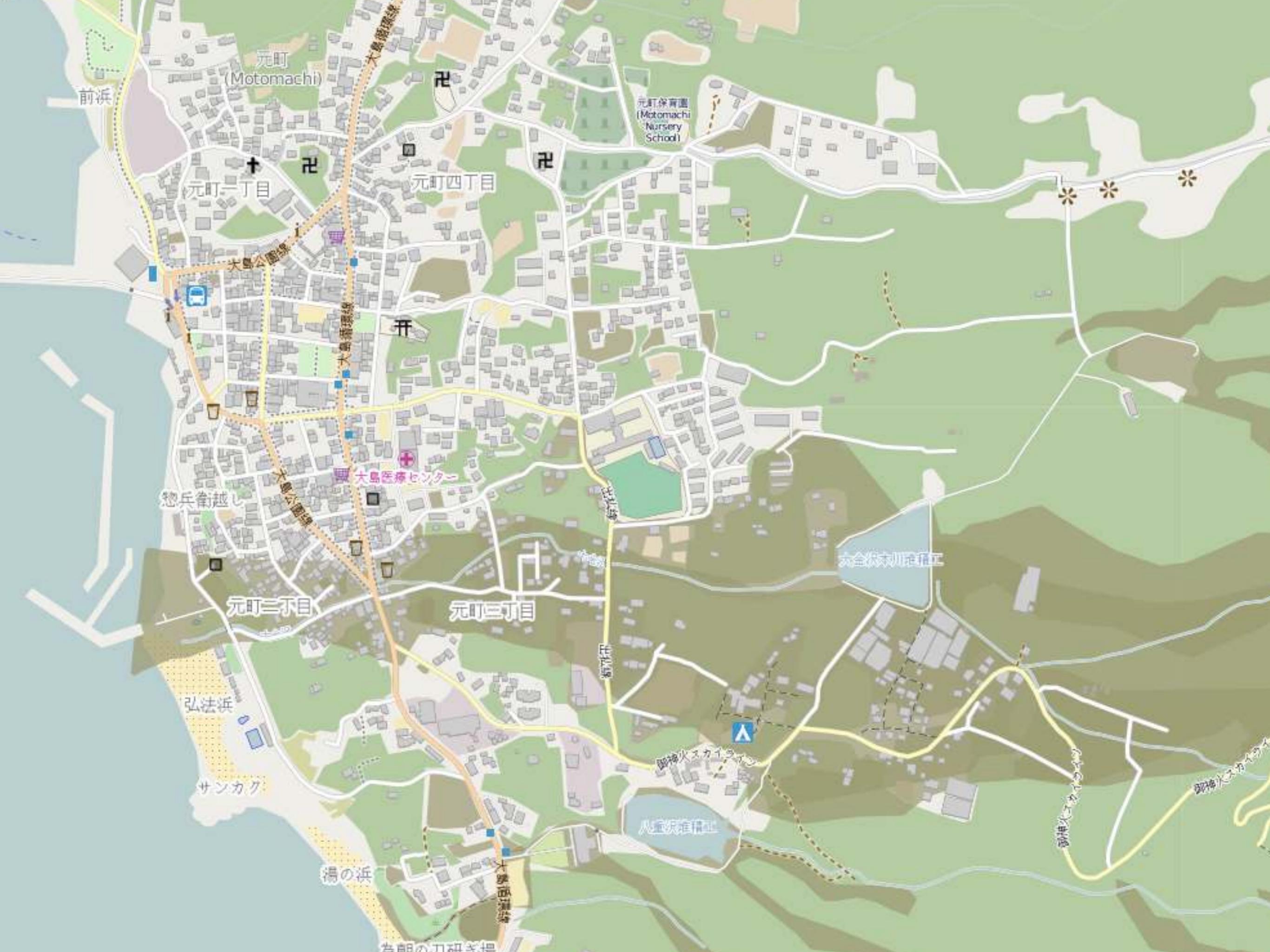
```
<iframe src="https://izuoshima26.crowdmap.com/crowdmap/report?r=150&lat=34.78459&lon=139.31576" width="515px" height="430px"></iframe>
```

レポートを以下の基  
準で選別する:

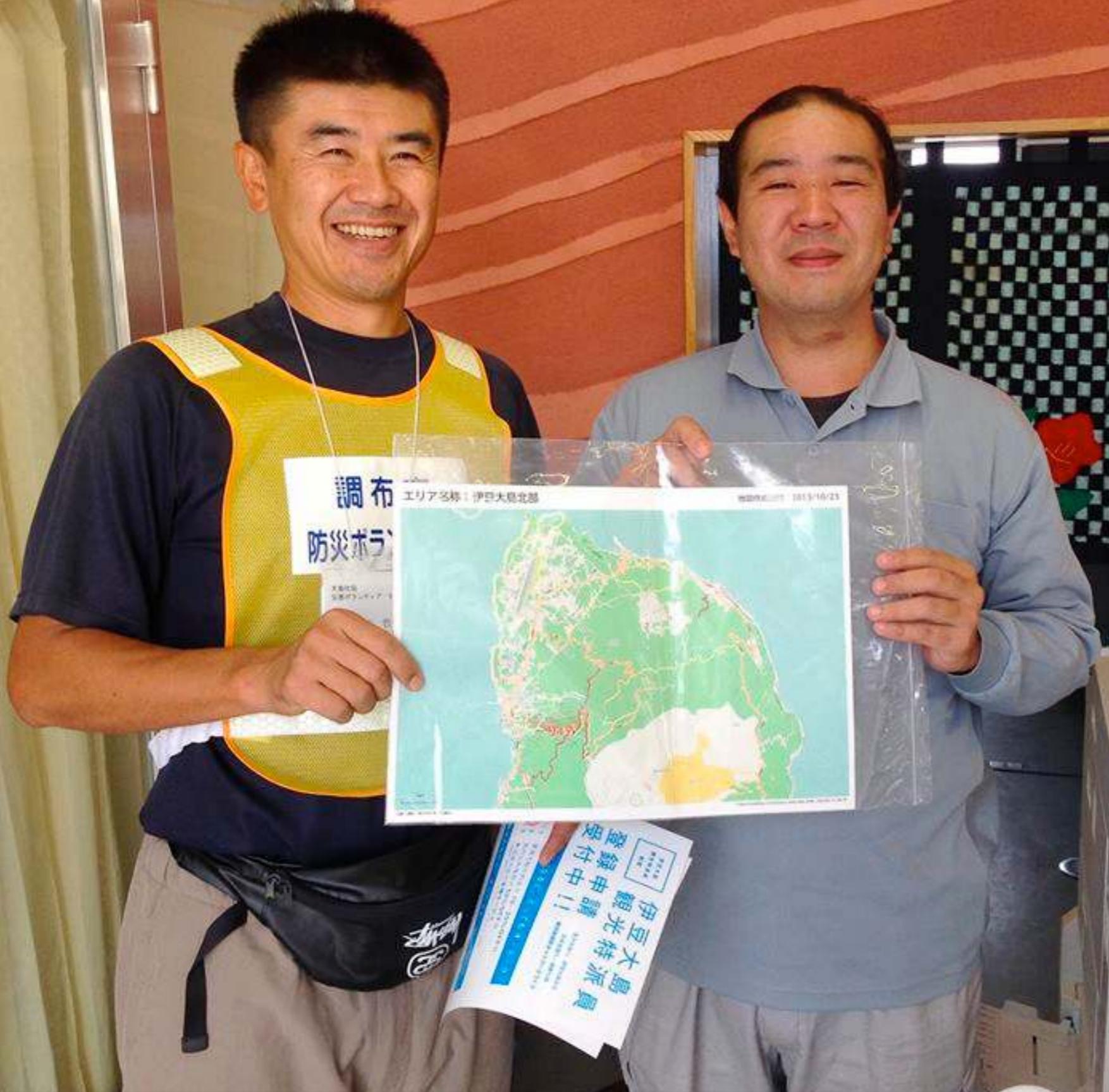
レポートする方②  
法



<https://izuoshima26.crowdmap.com/>







調布  
防災ボランティア

エリア名: 伊豆大島北部

撮影日: 2015/10/23

伊豆大島特設窓口  
観光申請書付中

Now· · ·



外輪山  
三原山  
三原山

富士箱根伊豆国立公園  
大島三原山  
東京都







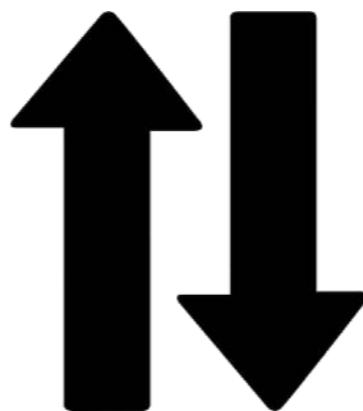
Our result,



AOYAMA VISION



in **peacetime** → Tourism/General use-cases



in **crisis** → Crisis Response/Mapping





Happy Mapping!!

Taichi FURUHASHI  
@mapconcierge



AOYAMA VISION