



AOYAMA VISION











State of the Map 2018 Milan



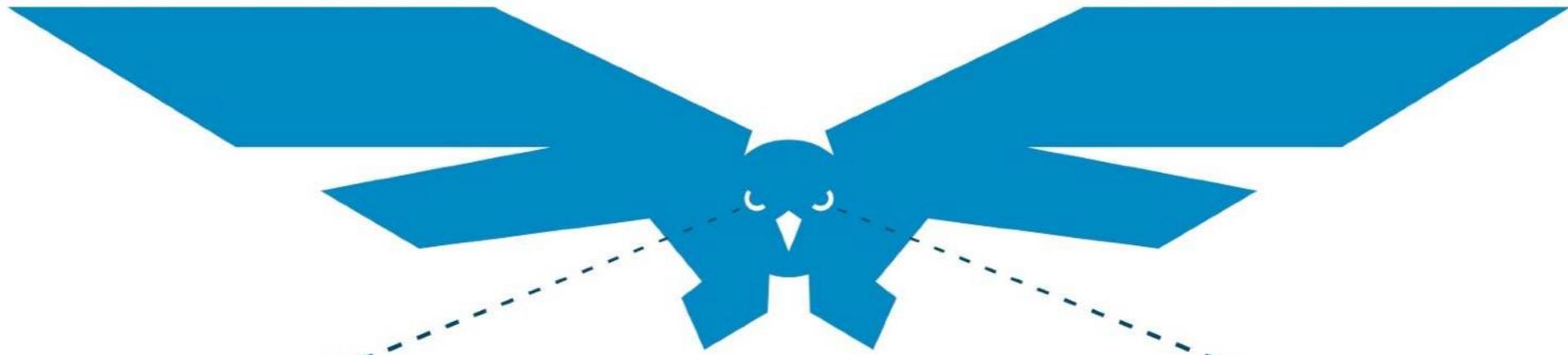
DRONE BIRDS ARE GO!



AOYAMA VISION

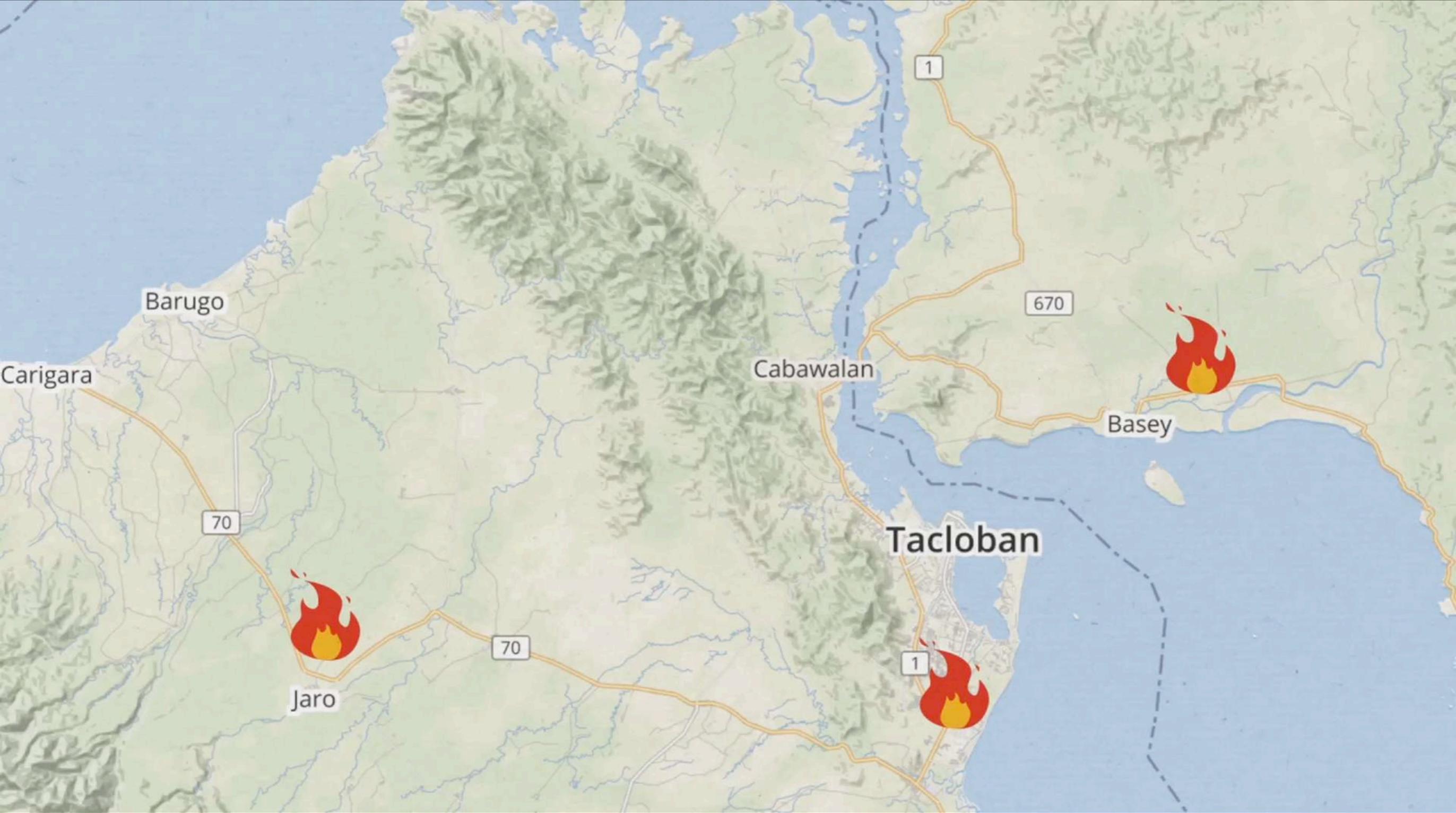
Taichi FURUHASHI

@mapconcierge



災害ドローン救援隊

DRONE BIRD



Barugo

Carigara

Cabawalan

Basey

70

70

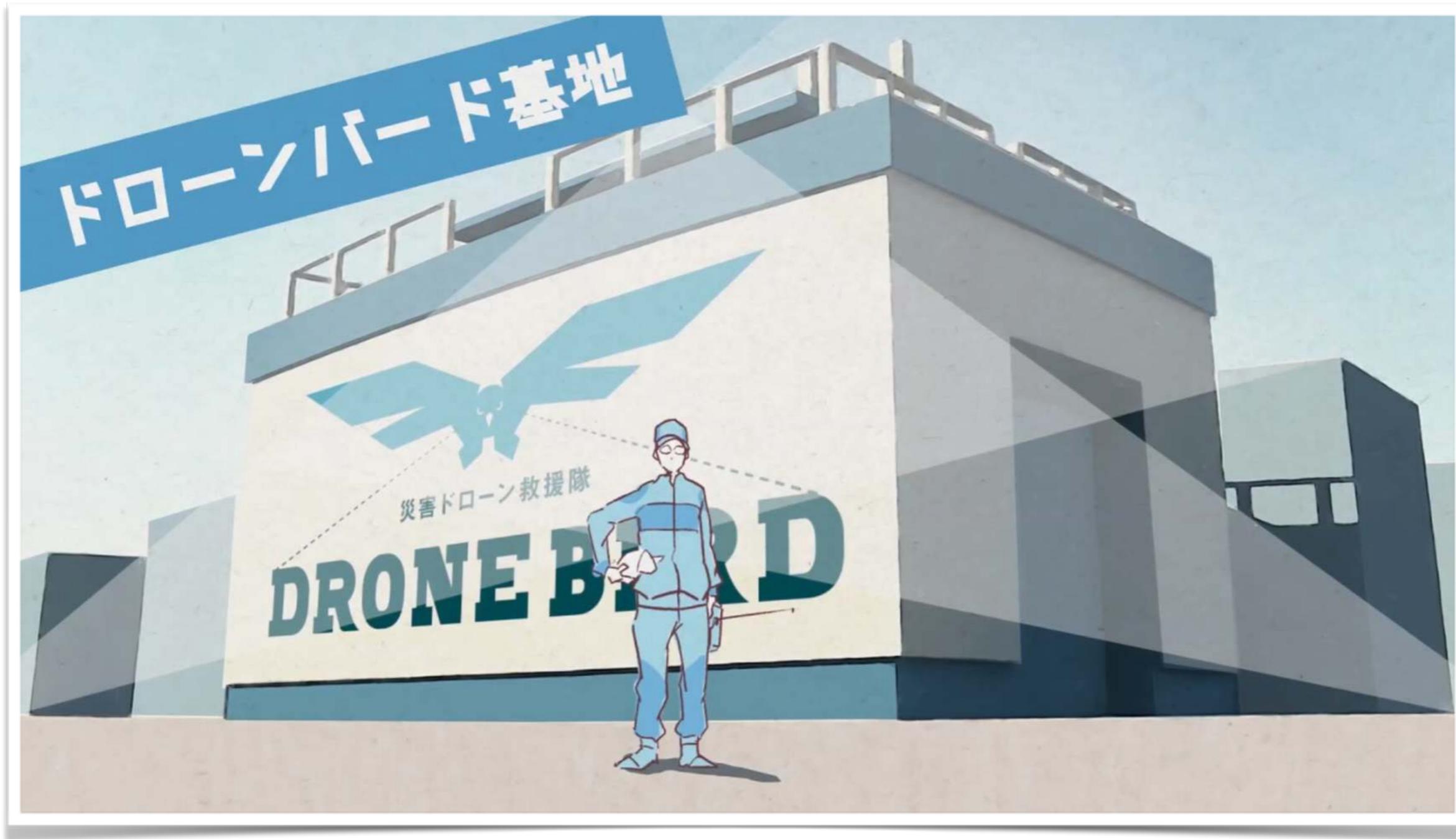
1

670

Tacloban

1

Jaro



<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 >

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

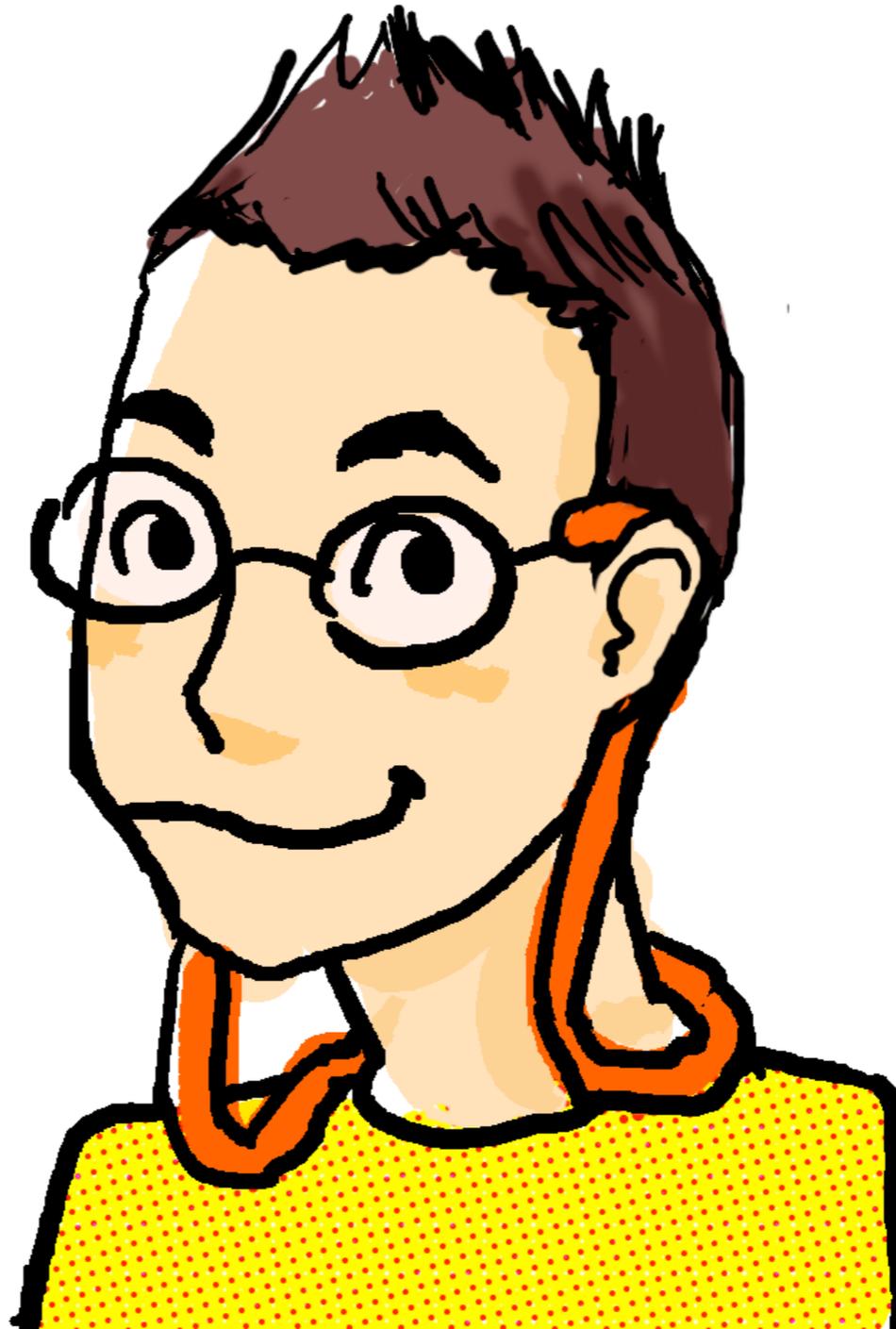
top > 教員紹介 > 授業を通して身につく力 > インタビュー 古橋大地



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 MAPconciierge Inc.

@mapconciierge



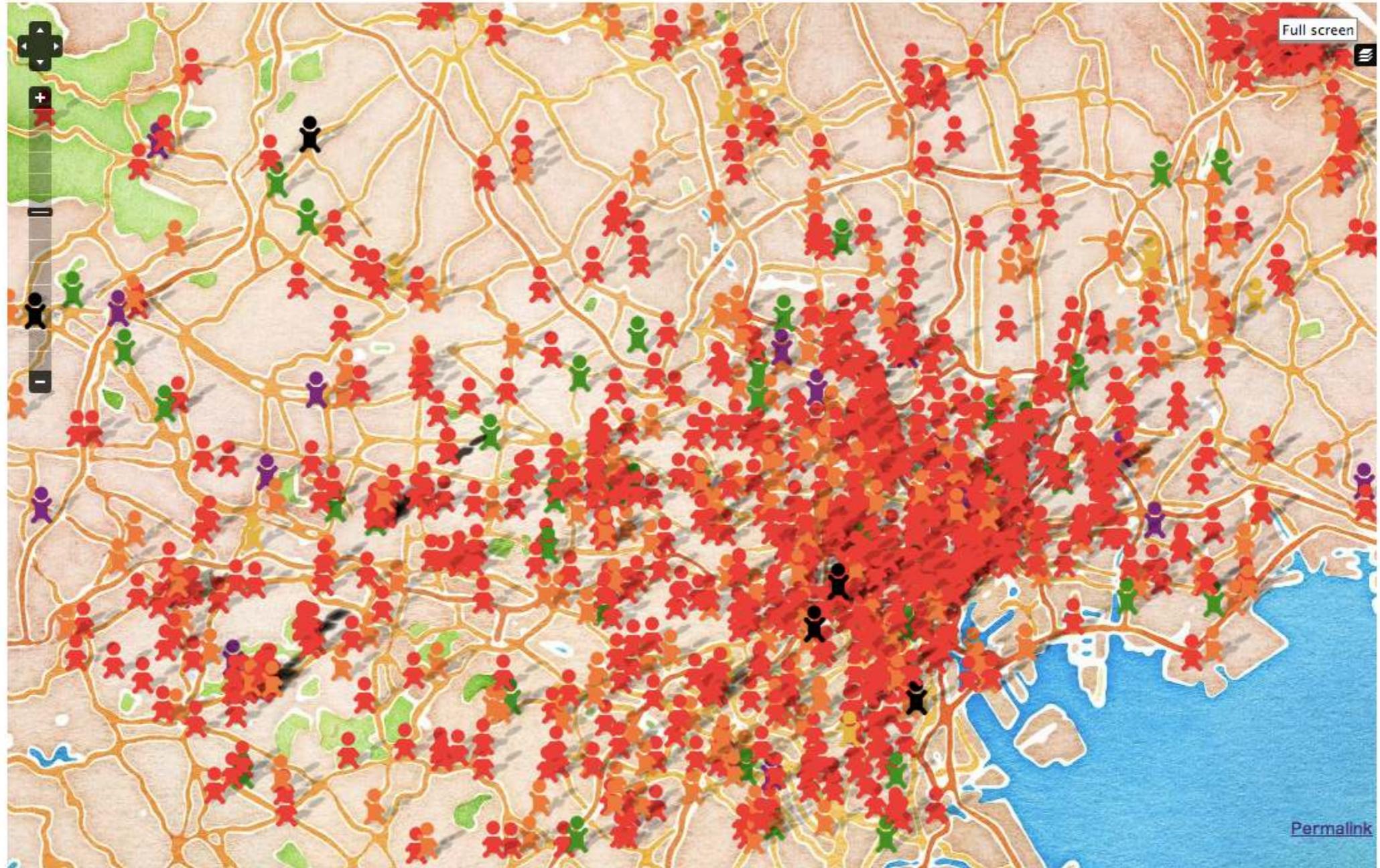
Active mappers in Tokyo area

Overview of OpenStreetMap Contributors aka Who's around me?

Copyright © Pascal Neis (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)

<http://resultmaps.neis-one.org/ooc?zoom=11&lat=35.73308&lon=139.61465&layers=0B0TFET>

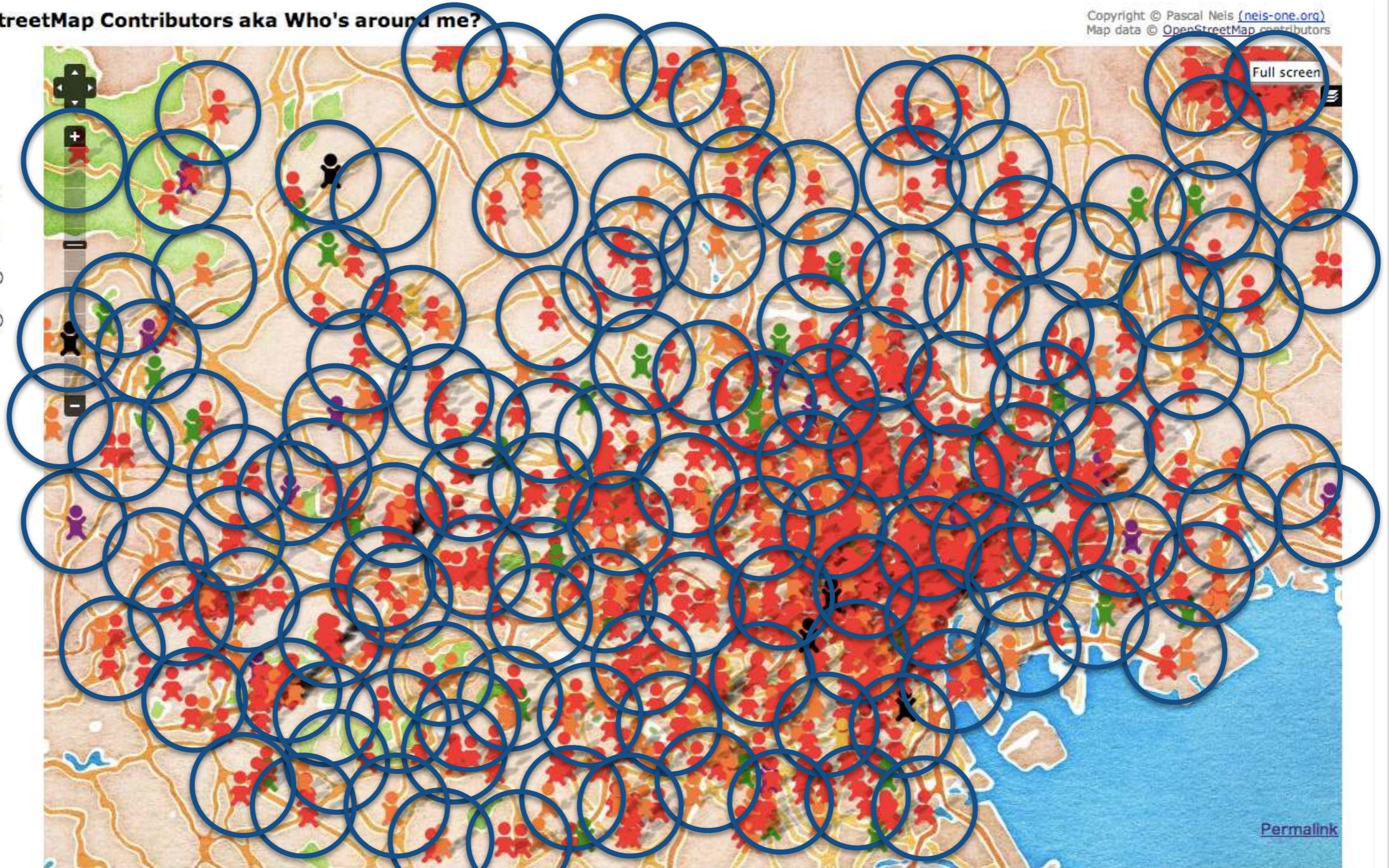
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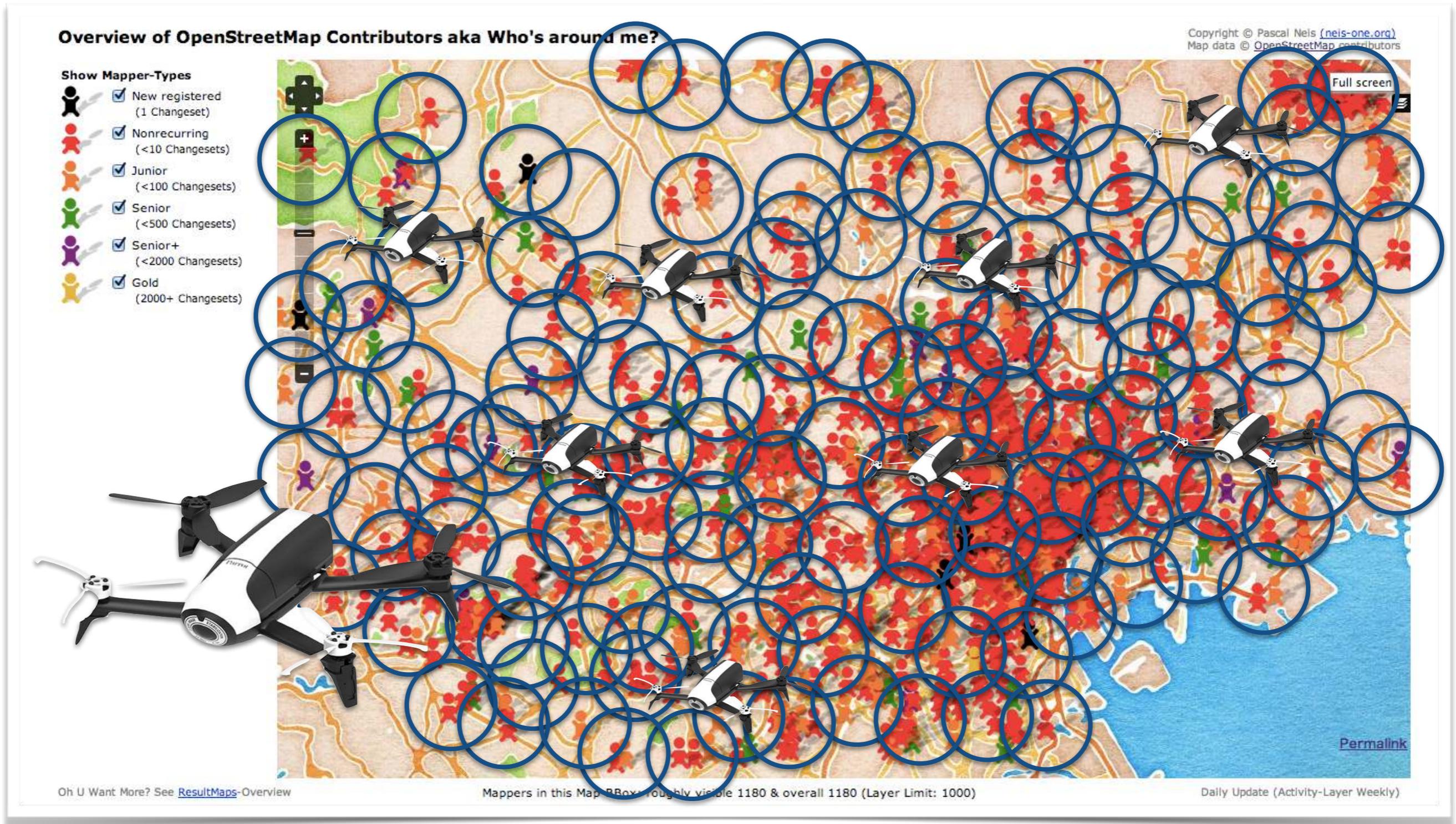
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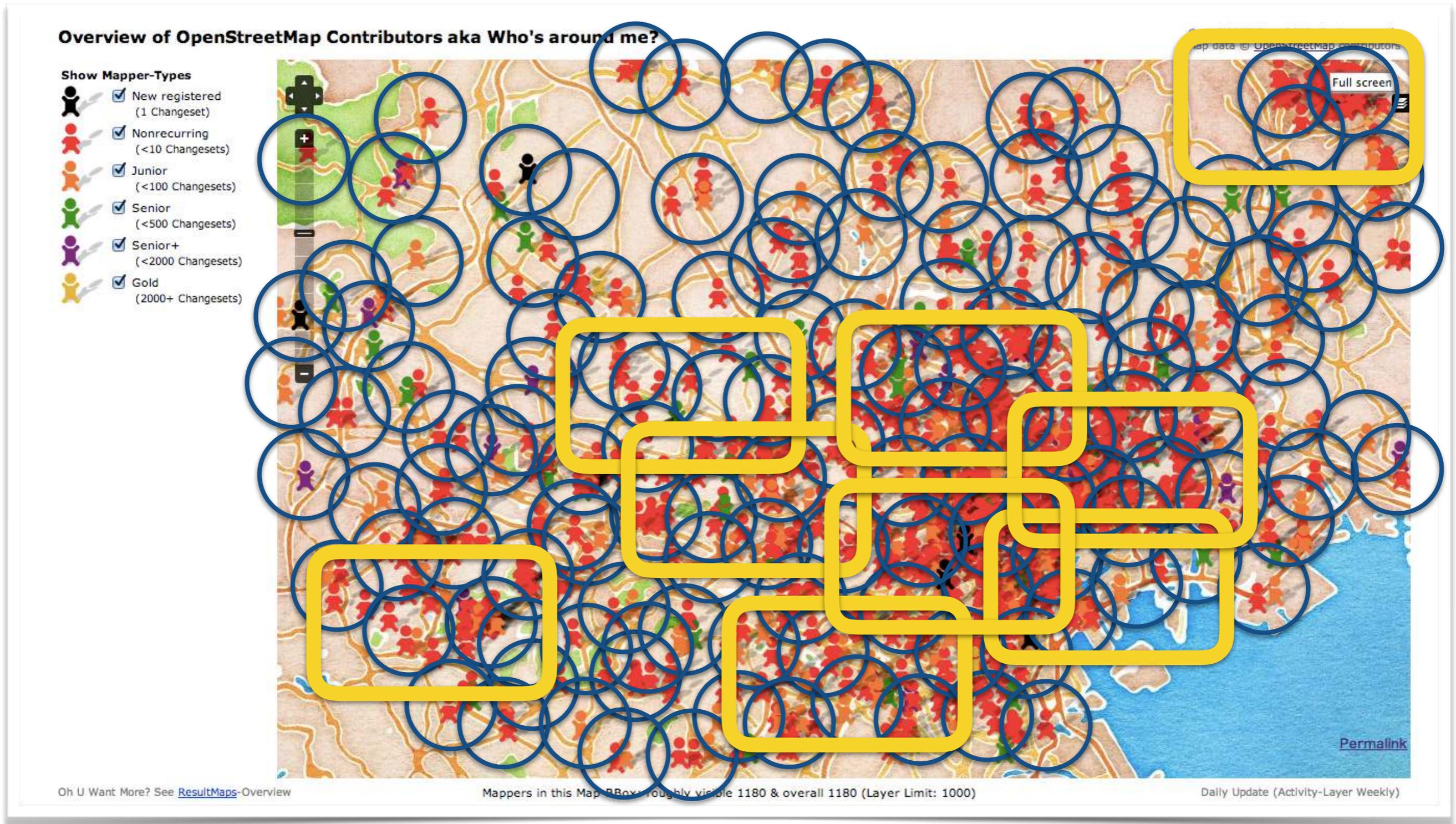
<http://resultmaps.neis-one.org/ooc?zoom=11&lat=35.73308&lon=139.61465&layers=0B0TFET>

Active mappers in Tokyo area



<http://resultmaps.neis-one.org/ooc?zoom=11&lat=35.73308&lon=139.61465&layers=0B0TFET>

Active mappers in Tokyo area



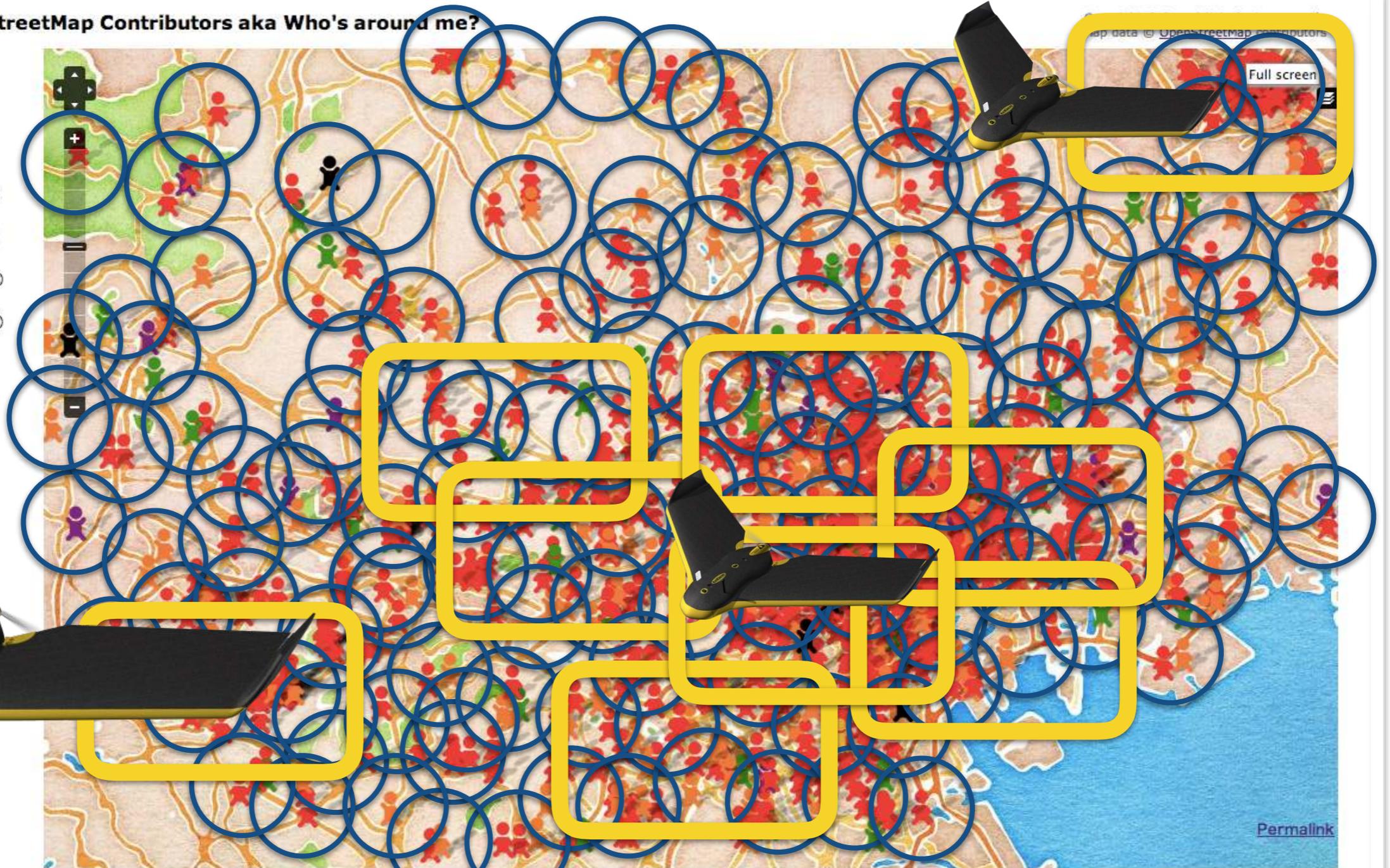
<http://resultmaps.neis-one.org/ooc?zoom=11&lat=35.73308&lon=139.61465&layers=0B0TFET>

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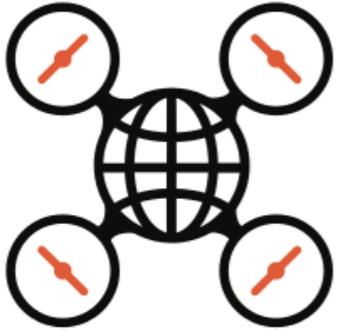
災害ドローン救援隊

DRONE BIRD

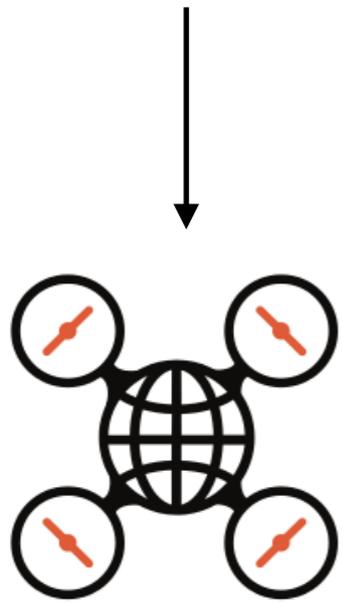


災害ドローン救援隊

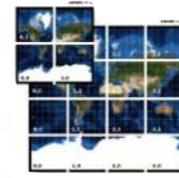
DRONE BIRD



OpenDroneMap



OpenDroneMap

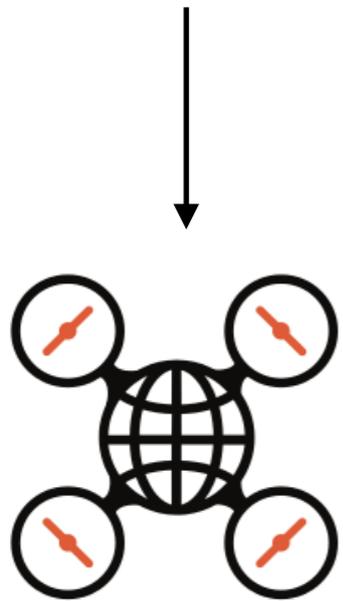


TILE INDEX
XYZ TILE / ZOOM
TILE MAP SERVICE

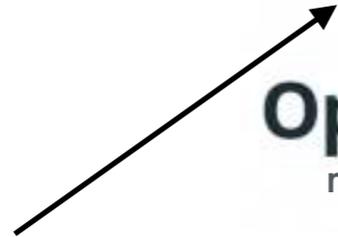


OpenStreetMap

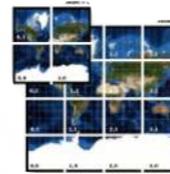
osm.org



OpenDroneMap



OpenAerialMap
map.openaerialmap.org



TILE INDEX
XYZ TILE / ZOOM
TILE MAP SERVICE



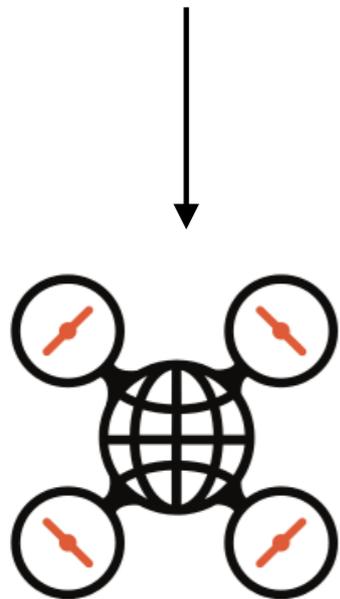
G空間情報センター

www.geospatial.jp

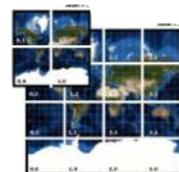


OpenStreetMap

osm.org



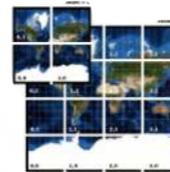
OpenDroneMap



TILE INDEX
XYZ TILE / ZOOM
TILE MAP SERVICE



OpenAerialMap
map.openaerialmap.org



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TILE MAP SERVICE



www.geospatial.jp



OpenStreetMap

osm.org



github
SOCIAL CODING

github.com/dronebird

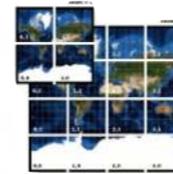


災害ドローン救援隊

DRONE BIRD



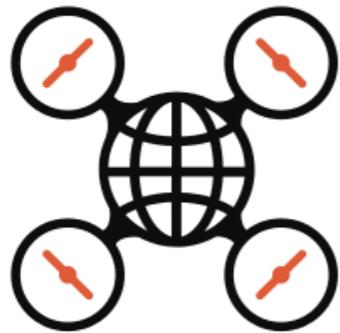
OpenAerialMap
map.openaerialmap.org



TILE INDEX
XYZ TILE / ZOOM
TILE MAP SERVICE



OCHA



OpenDroneMap



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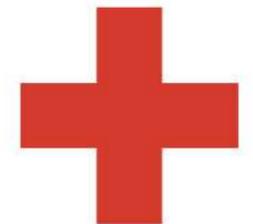
HOT

OpenStreetMap

osm.org



MEDECINS SANS FRONTIERES
国境なき医師団



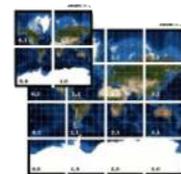
日本赤十字社
Japanese Red Cross Society



BritishRedCross



American
Red Cross



TILE INDEX
XYZ TILE / ZOOM
TILE MAP SERVICE



github
SOCIAL CODING

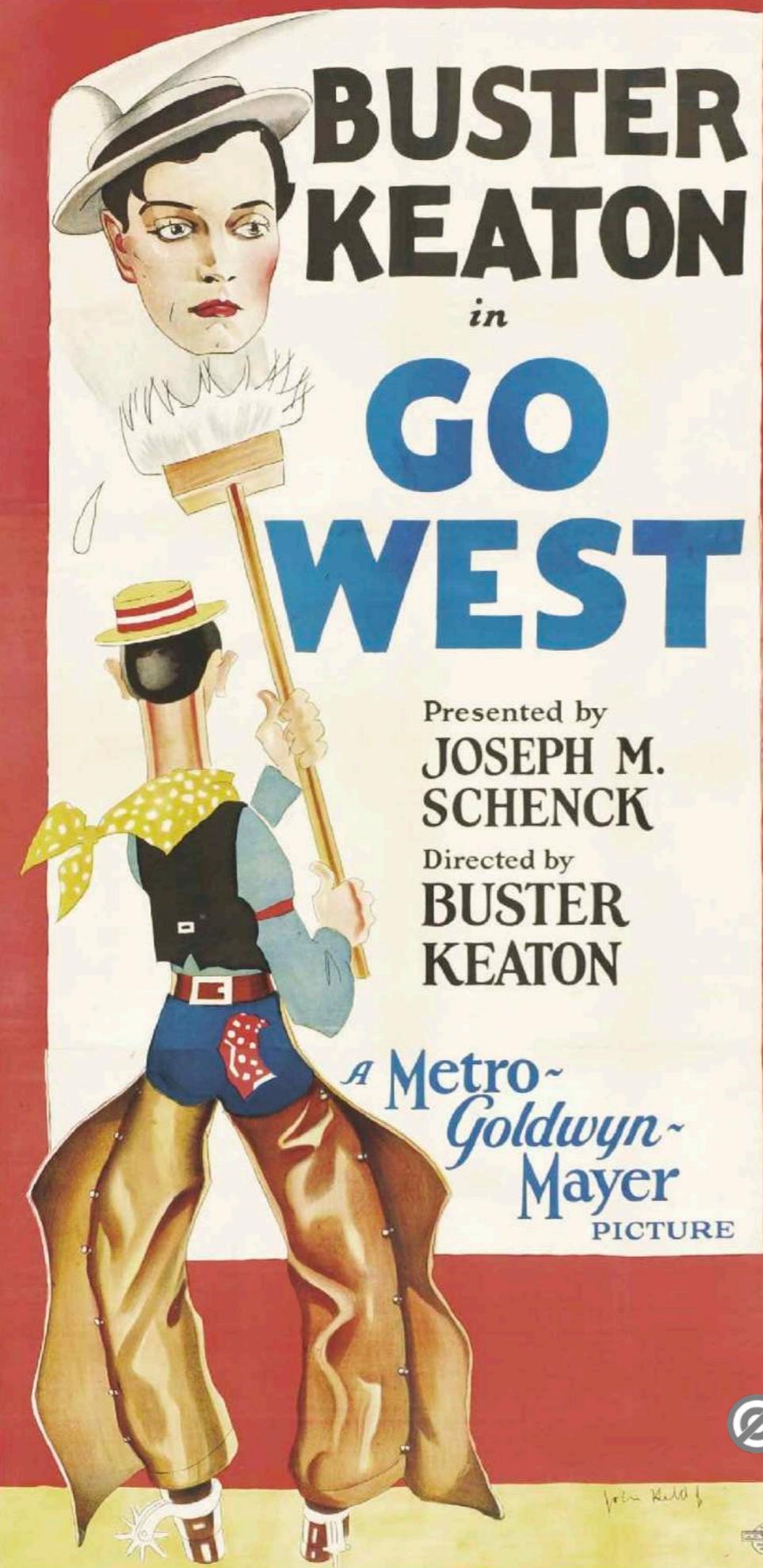
github.com/dronebird

OUR GOAL:

2 hours

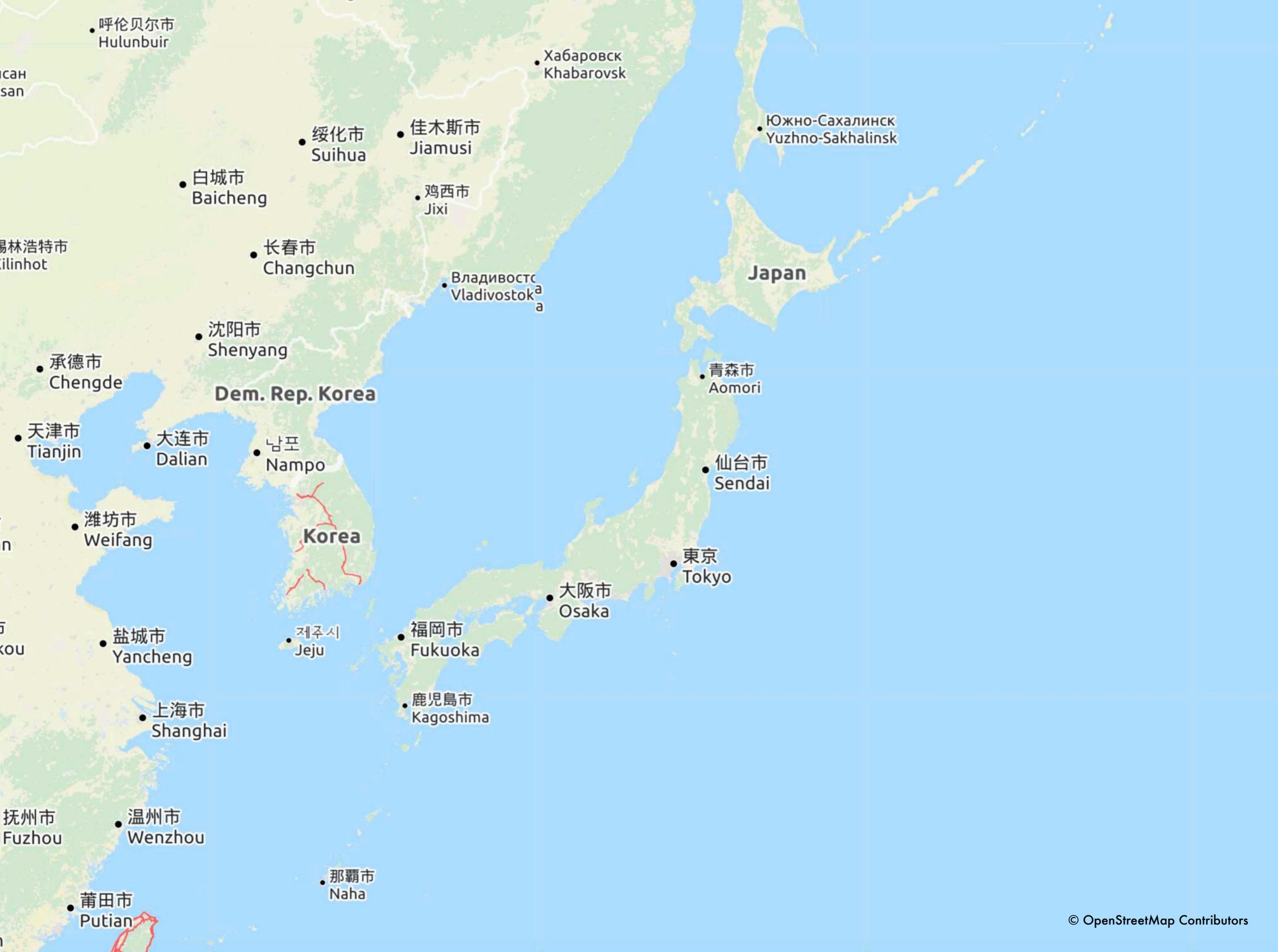
after earthquake.

In 2018



Go WEST!!

In 2018 July, Japan



呼伦贝尔市
Hulunbuir

Хабаровск
Khabarovsk

Южно-Сахалинск
Yuzhno-Sakhalinsk

绥化市
Suihua

佳木斯市
Jiamusi

白城市
Baicheng

鸡西市
Jixi

长春市
Changchun

Владивосток
Vladivostok

Japan

沈阳市
Shenyang

青森市
Aomori

承德市
Chengde

Dem. Rep. Korea

天津市
Tianjin

大连市
Dalian

남포
Nampo

仙台市
Sendai

潍坊市
Weifang

Korea

東京
Tokyo

大阪市
Osaka

盐城市
Yancheng

제주시
Jeju

福岡市
Fukuoka

鹿児島市
Kagoshima

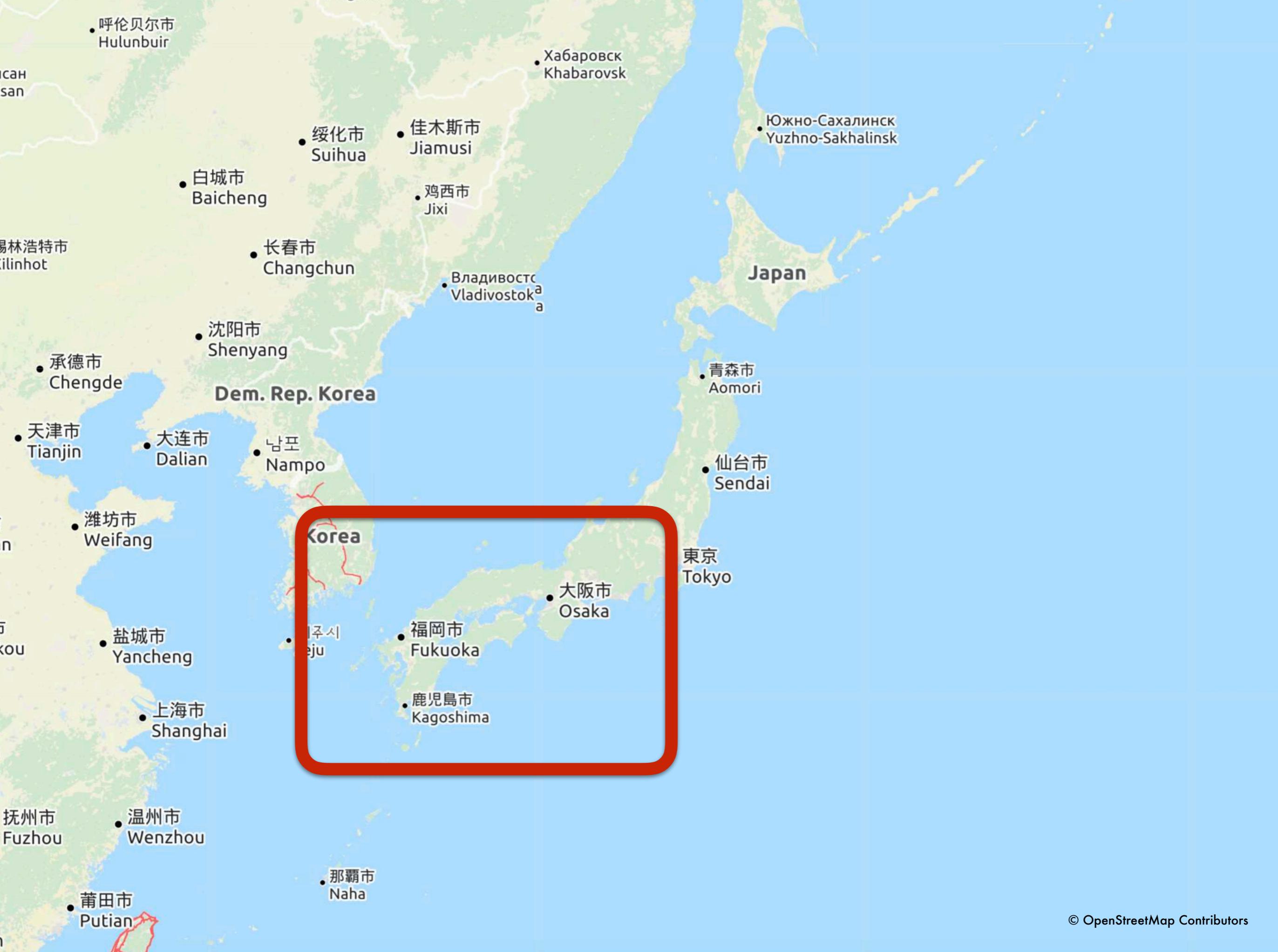
上海市
Shanghai

抚州市
Fuzhou

温州市
Wenzhou

那霸市
Naha

莆田市
Putian



呼伦贝尔市
Hulunbuir

Хабаровск
Khabarovsk

Южно-Сахалинск
Yuzhno-Sakhalinsk

绥化市
Suihua

佳木斯市
Jiamusi

白城市
Baicheng

鸡西市
Jixi

长春市
Changchun

Владивосток
Vladivostok

Japan

锡林浩特市
Xilinhot

沈阳市
Shenyang

青森市
Aomori

承德市
Chengde

Dem. Rep. Korea

仙台市
Sendai

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Tianjin

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Dalian

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Nampo

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Tokyo

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Weifang

Korea

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Osaka

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제주
Jeju

福岡市
Fukuoka

盐城市
Yancheng

鹿児島市
Kagoshima

上海市
Shanghai

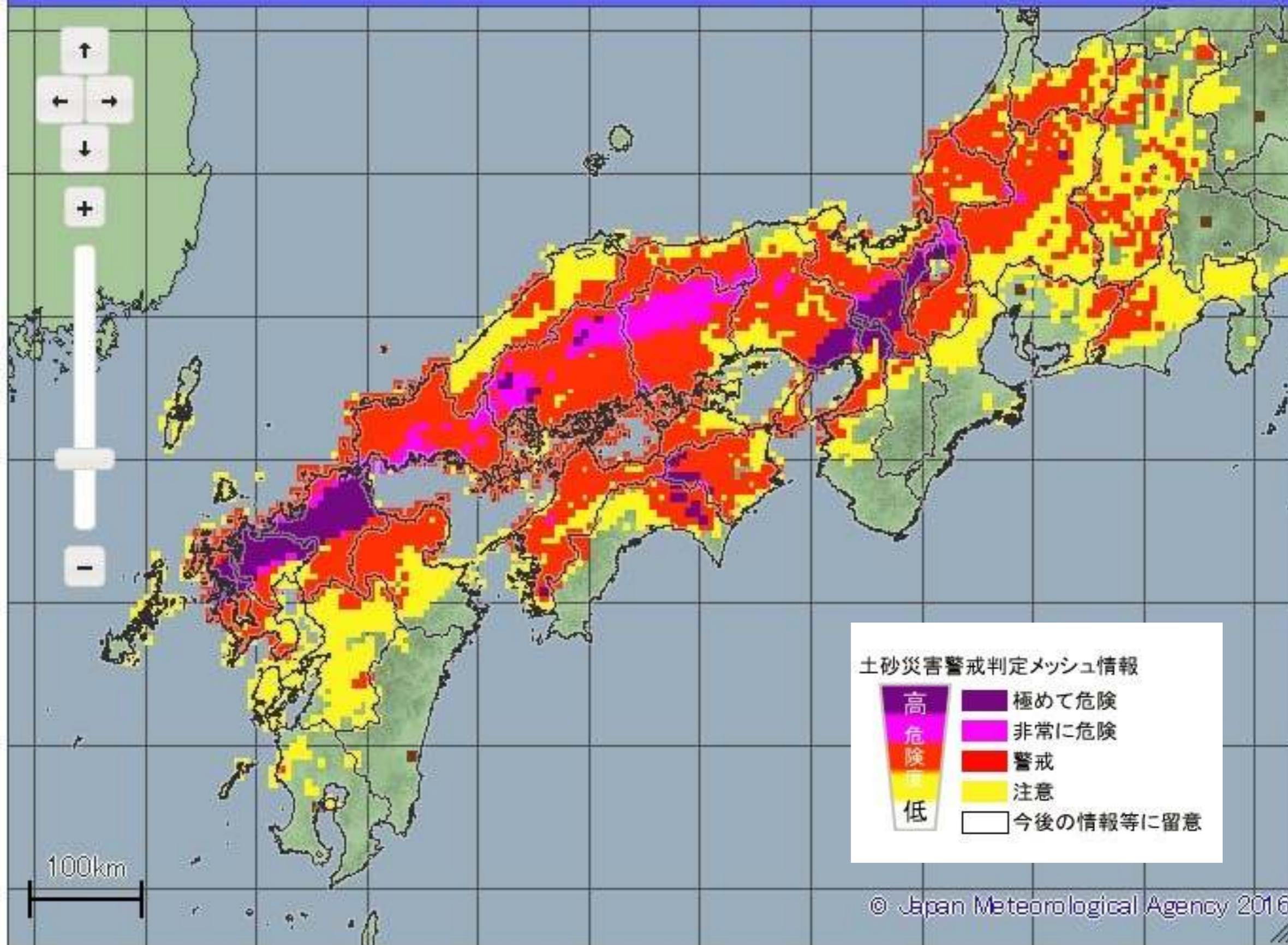
抚州市
Fuzhou

温州市
Wenzhou

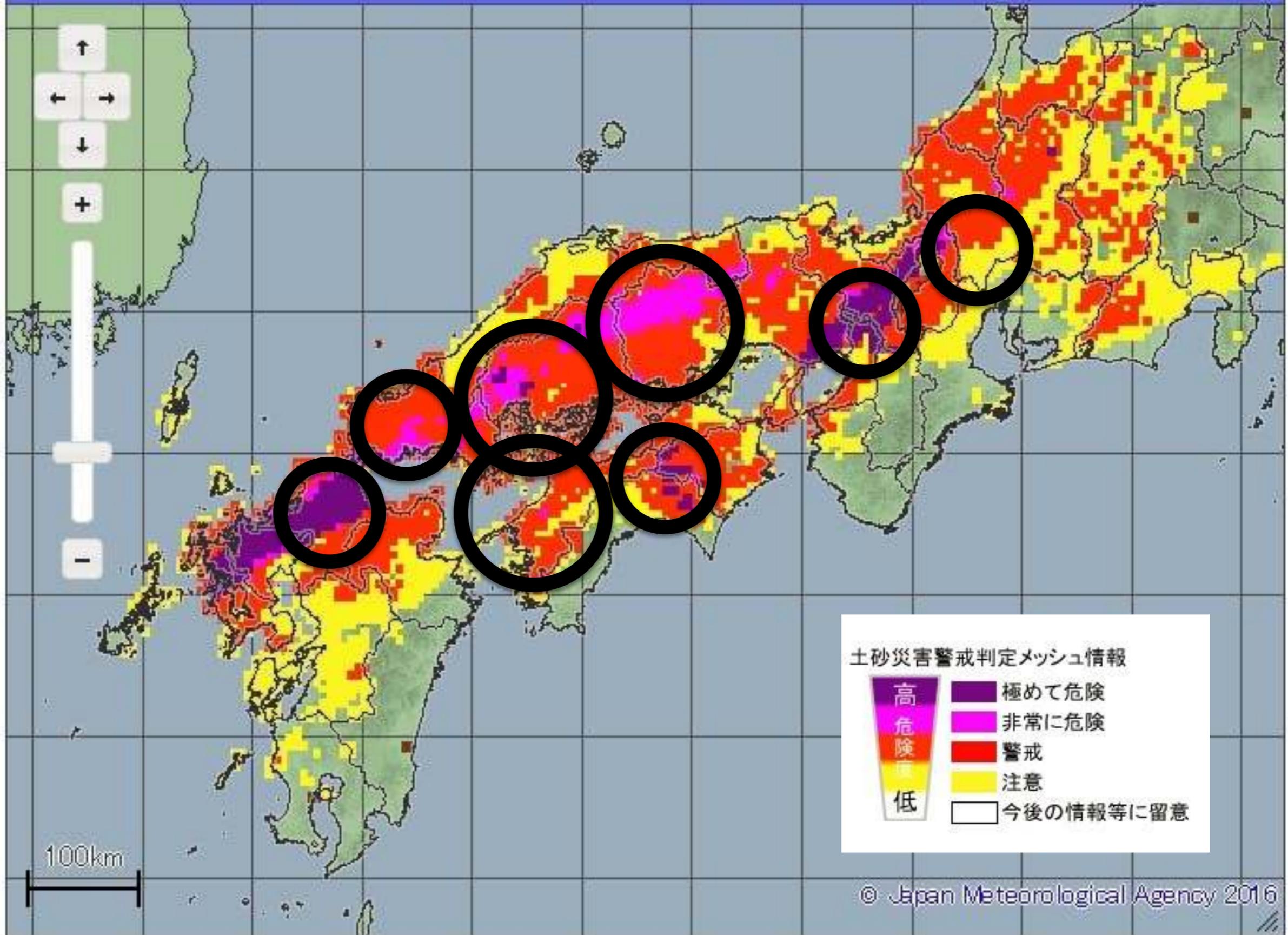
那霸市
Naha

莆田市
Putian

2018年07月06日15時20分



2018年07月06日15時20分







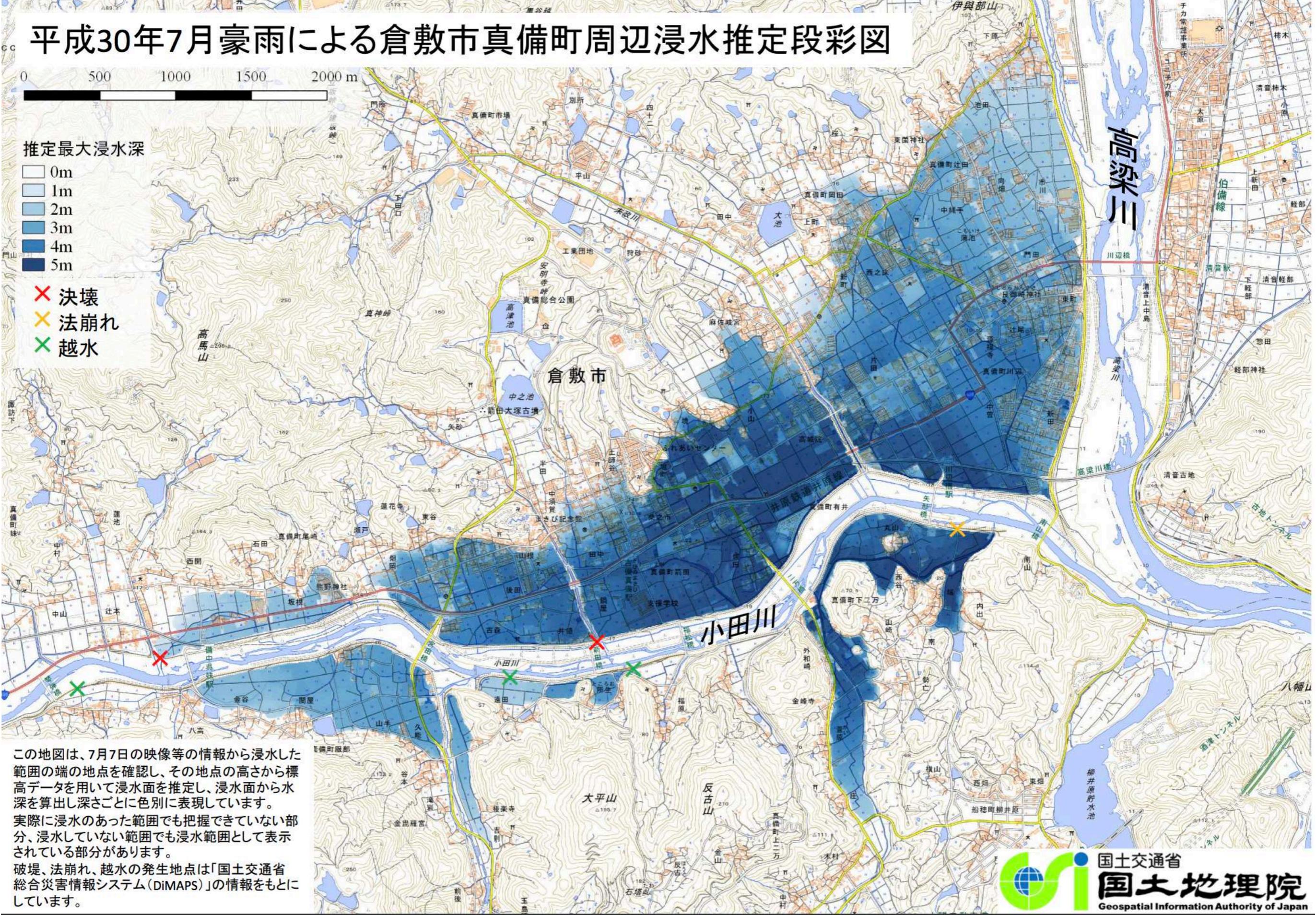
平成30年7月豪雨による倉敷市真備町周辺浸水推定段彩図

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



この地図は、7月7日の映像等の情報から浸水した範囲の端の地点を確認し、その地点の高さから標高データを用いて浸水面を推定し、浸水面から水深を算出し深さごとに色別に表現しています。実際に浸水のあった範囲でも把握できていない部分、浸水していない範囲でも浸水範囲として表示されている部分があります。破堤、法崩れ、越水の発生地点は「国土交通省総合災害情報システム(DiMAPS)」の情報をもとにしています。









Instructions

Entities to map

Buildings

Changeset Comment

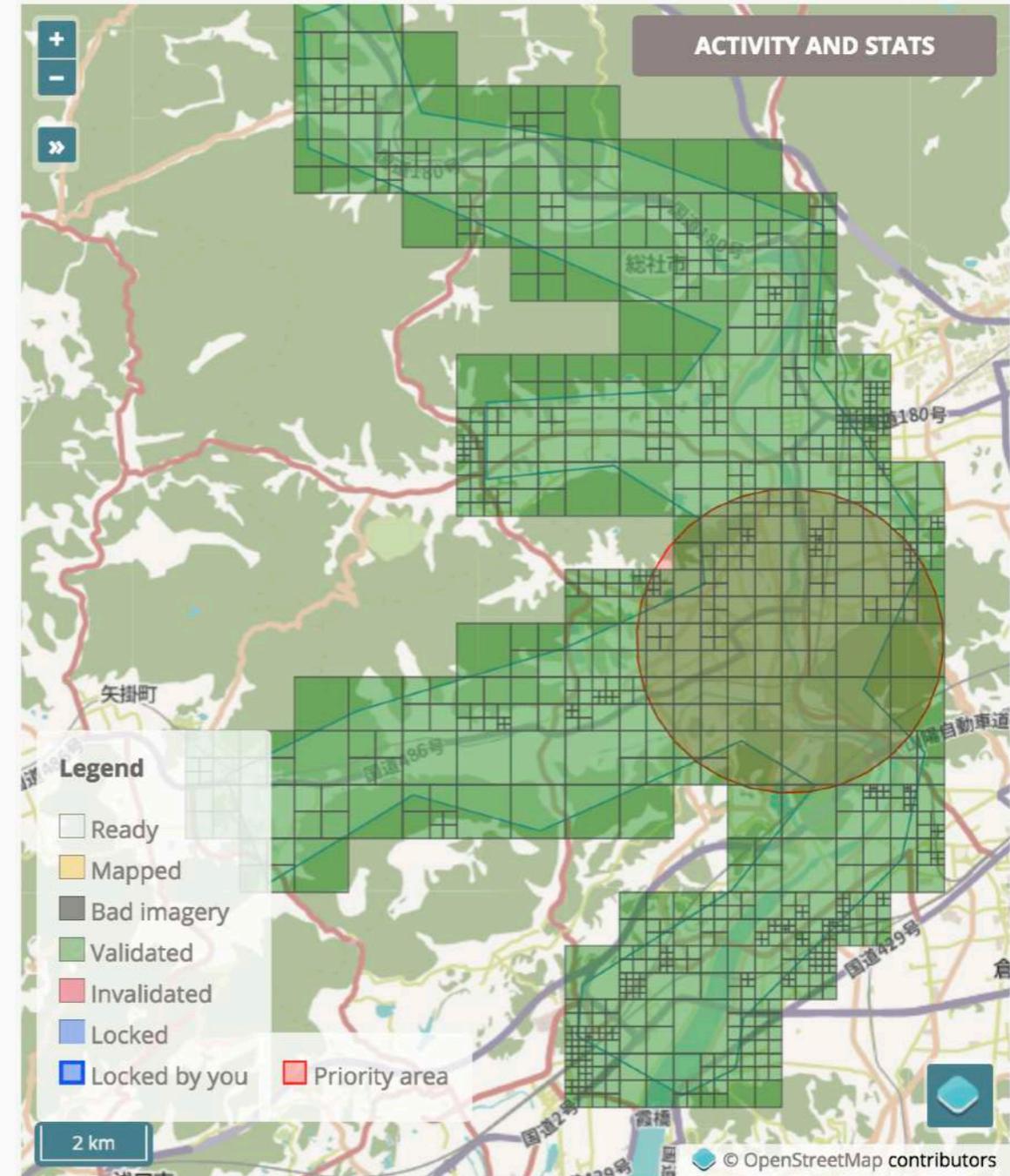
#hotsm-project-4843 #JapanFloodsJuly2018 Adding buildings

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)

Field Papers

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

<http://fieldpapers.org/atlas/sek30m5/A1>







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](#)

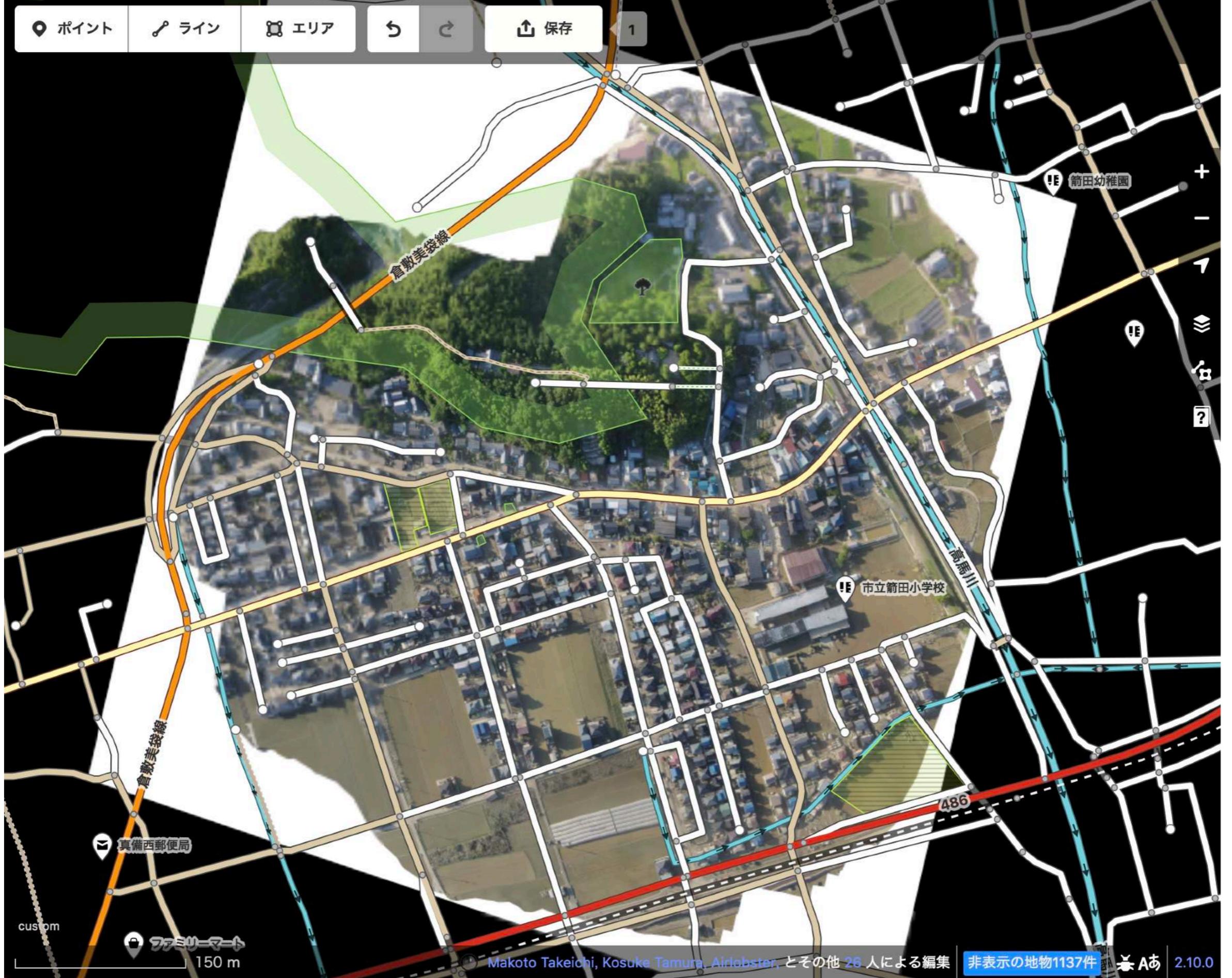
MapBox JS

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

ArcGIS API for JavaScript

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

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



<https://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

🇯🇵 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

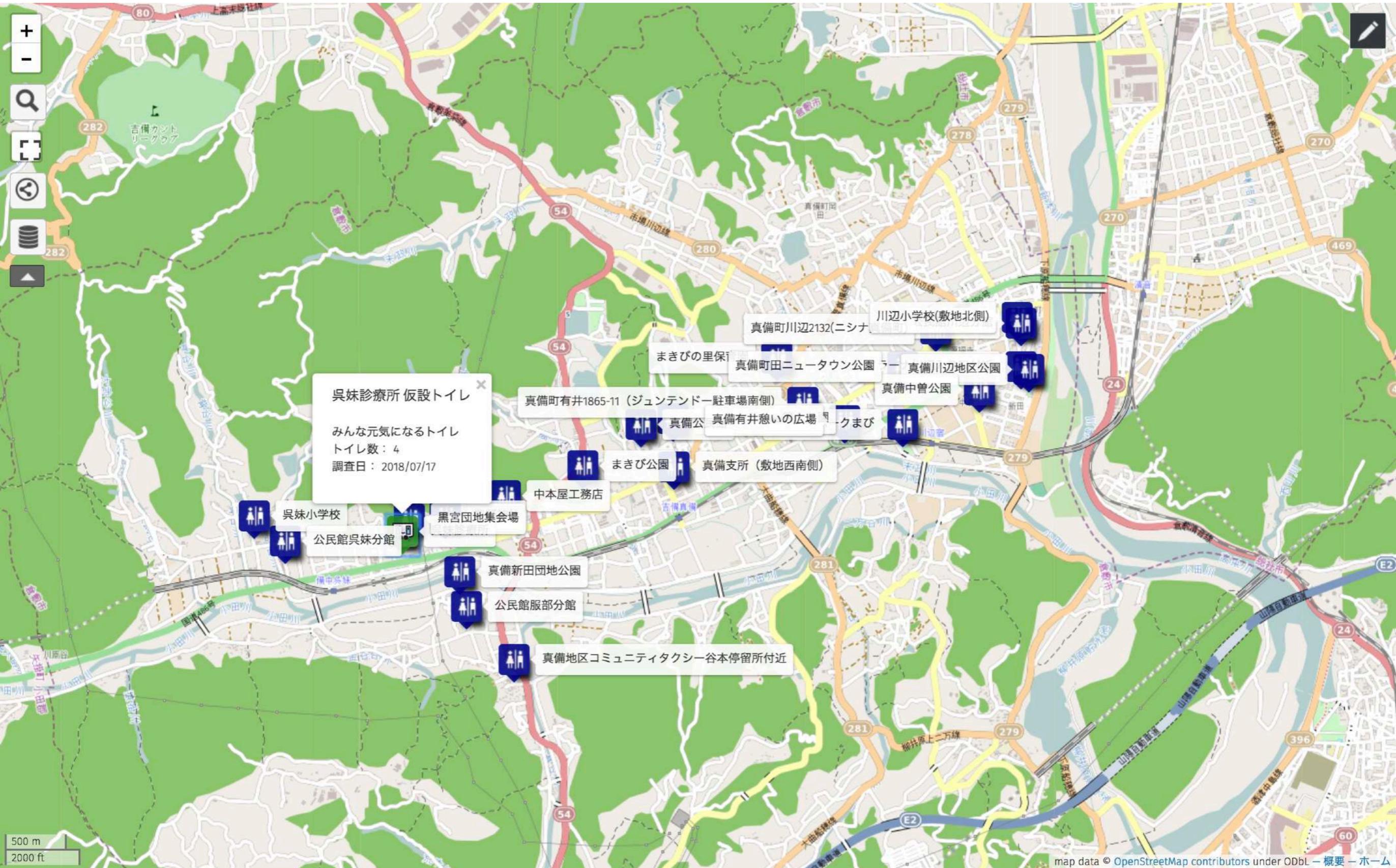
みんな元気になるトイレ

🇯🇵 助けあいジャパン

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

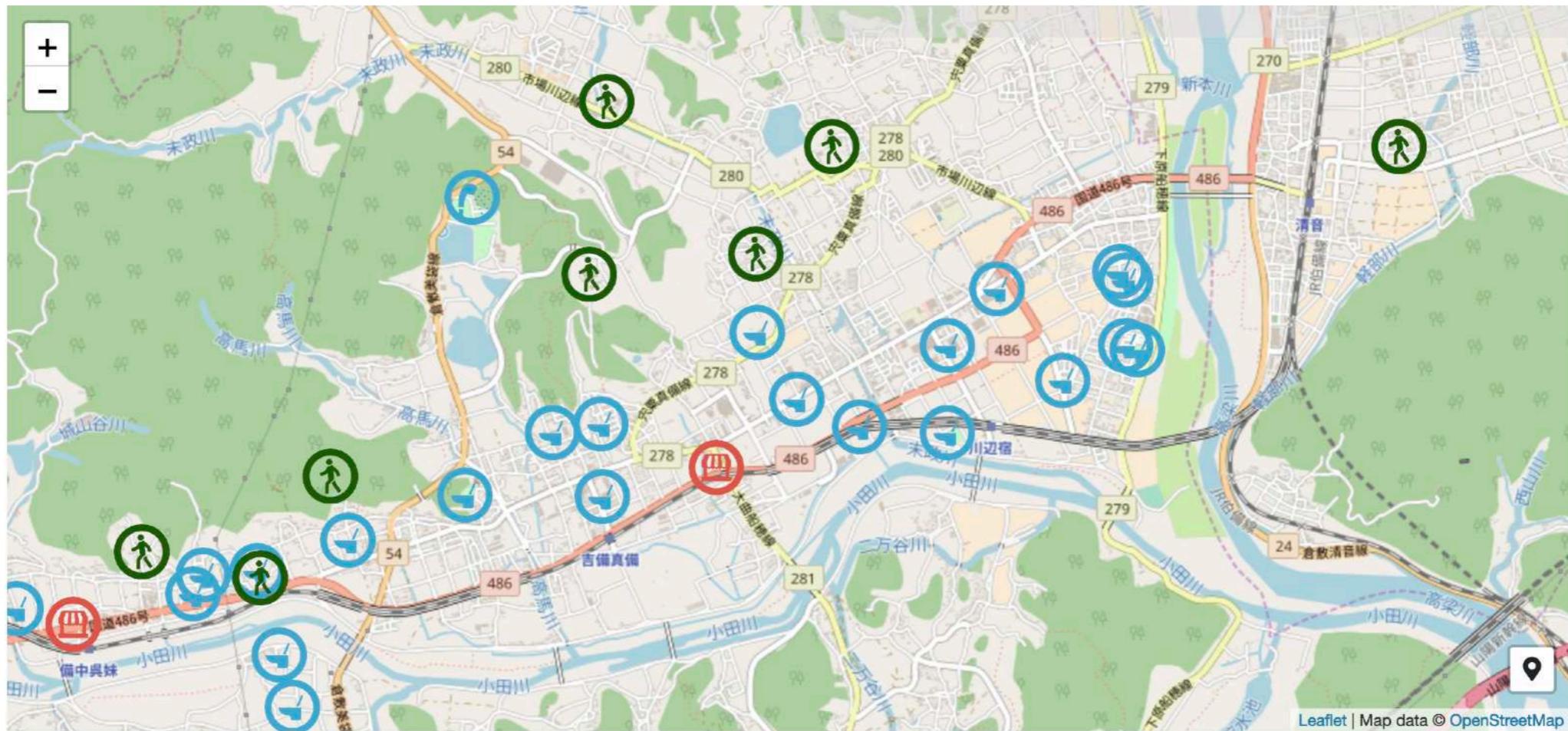


Temporary Toilets map



👤 地図から探す

ツイート シェア



🏪 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



TASKING MANAGER

Contribute

Learn

About

What is New?

English

MAPconciierge 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

Priority: URGENT

#4858 Japan Flood 2018 July, Kure city, Hiroshima

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

Priority: MEDIUM

#4908 Japan Flood 2018 July, GSI ortho imagery, Kurashiki/Sojya, Okayama

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

Priority: MEDIUM

#4888 Japan Flood 2018 July, Ozu city, Ehime

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

Priority: MEDIUM

#4772 Ibaraki City, Osaka Earthquake 2018 Jun, JAPAN

M6.1 Earthquake happened in north are of Osaka prefecture, Japan. (2018/06/18 7:58 JST)

<https://en.wikipedia.org/wiki/2018Osakaearthquake>

Some disaster volunteer centers have launched in affe...

Organization: CrisisMappers JAPAN

Campaign: DRONEBIRD

Level: BEGINNER

75% Mapped 73% Validated



CRiSiS
mappers

JAPAN



災害ドローン救援隊

DRONE BIRD



CRISIS
mappers
JAPAN



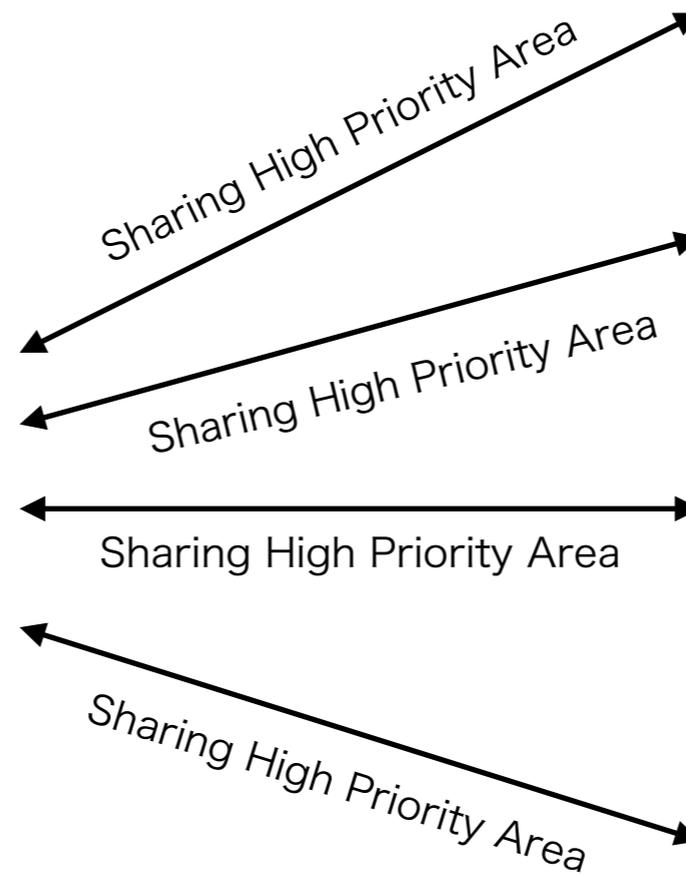
まびケア
- 被災のための情報ポータル -
<https://mabi-care.com/>



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



日本赤十字社
Japanese Red Cross Society





CRISIS
mappers
JAPAN



Sharing High Priority Area

Sharing High Priority Area

Sharing High Priority Area

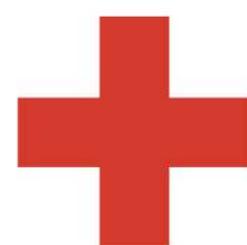
Sharing High Priority Area

Making Tasking Manager projects

まびケア
- 被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

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



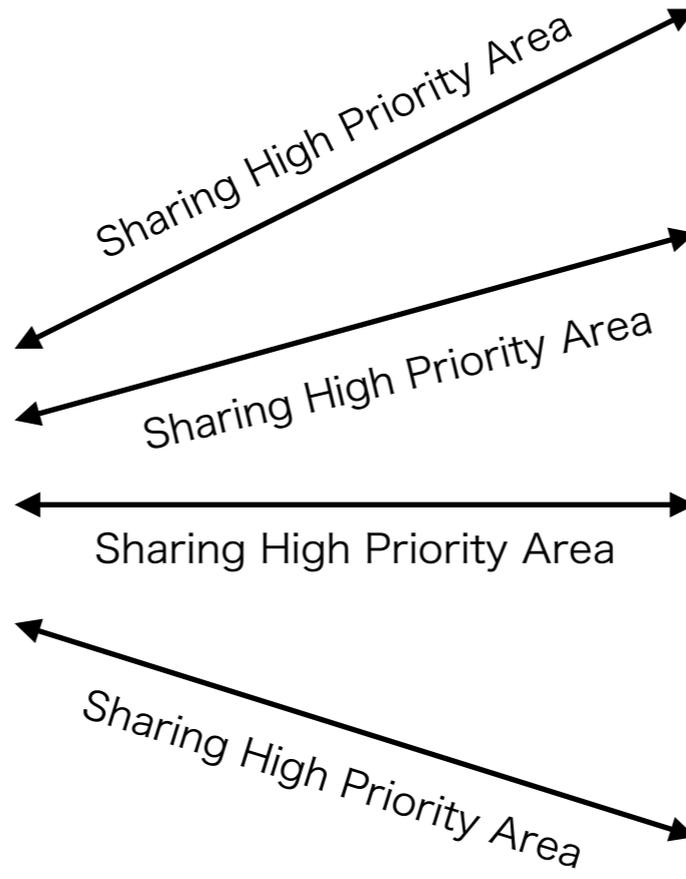
<http://corp.tasukeaijapan.jp/toilet/>



日本赤十字社
Japanese Red Cross Society



MEDECINS SANS FRONTIERES
国境なき医師団



Making Tasking Manager
projects



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.

地理院地図 (電子国土Web) 例: 釧岳 / 金沢市木ノ新保町 / 35度0分0秒 135度0分0秒 / 35.00 135.00 / 54SUE83694920

情報 機能

選択中の情報

リセット

表示 トップ>他機関の情報
人口集中地区 平成27年 (総務省統計局) 合成 透過率 解説

表示 トップ>ベースマップ
標準地図 グレースケール OFF 透過率 解説

20 km 標高: 2.0m (データソース: DEM5A)

表示値の説明

ドローン使用禁止

Drone Use Prohibited

中島公園内で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 ...

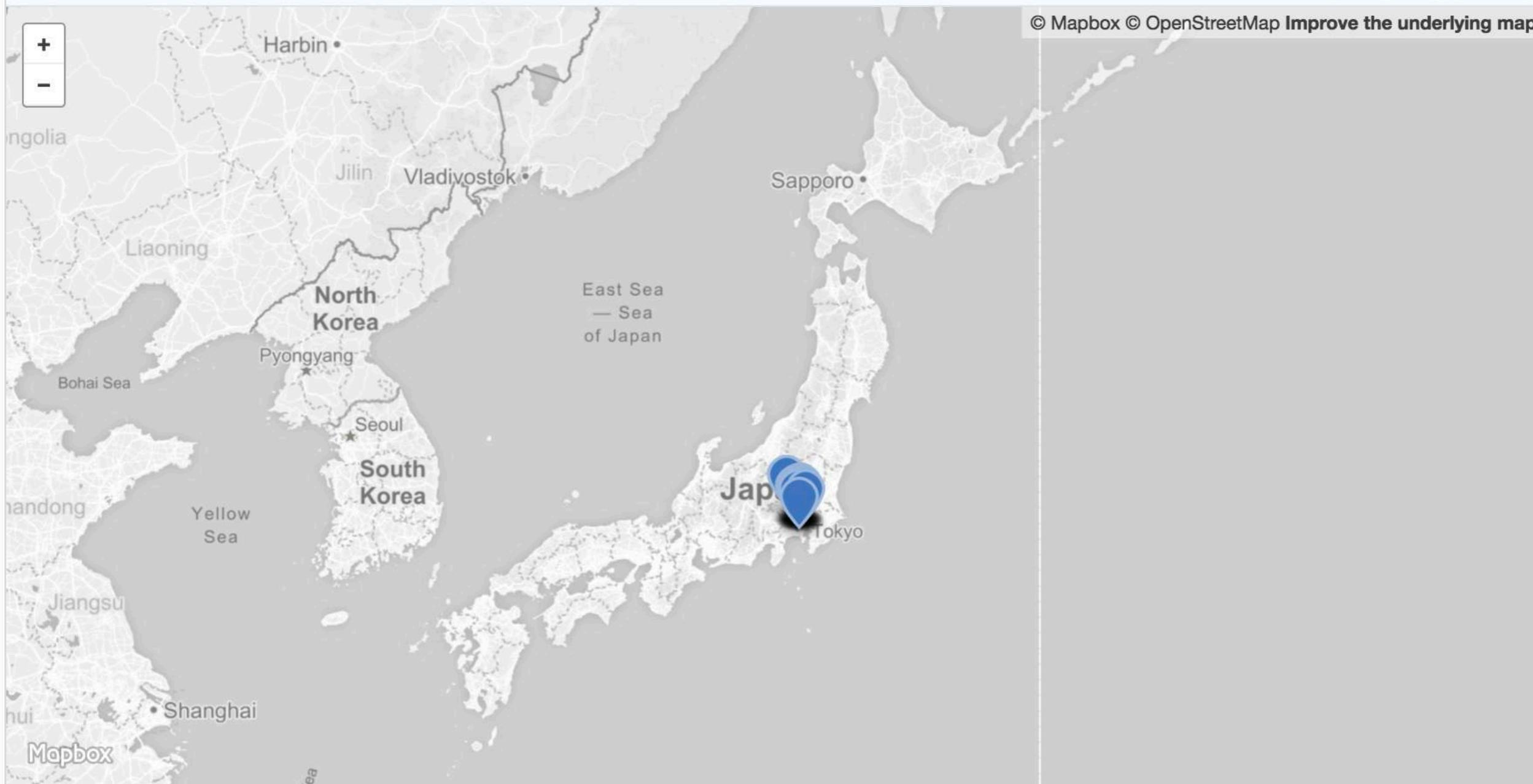
Agreements

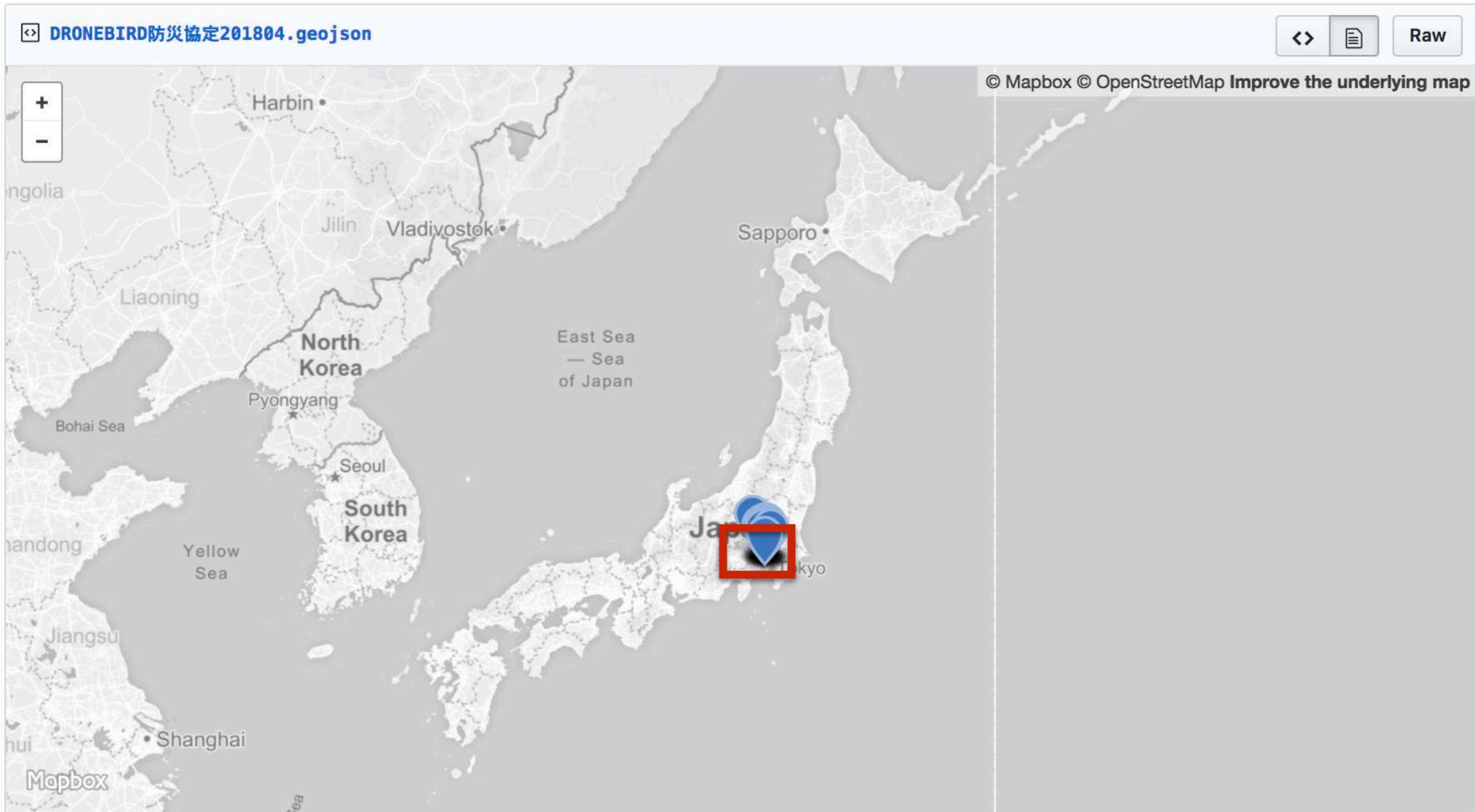
with local governments

in Japan

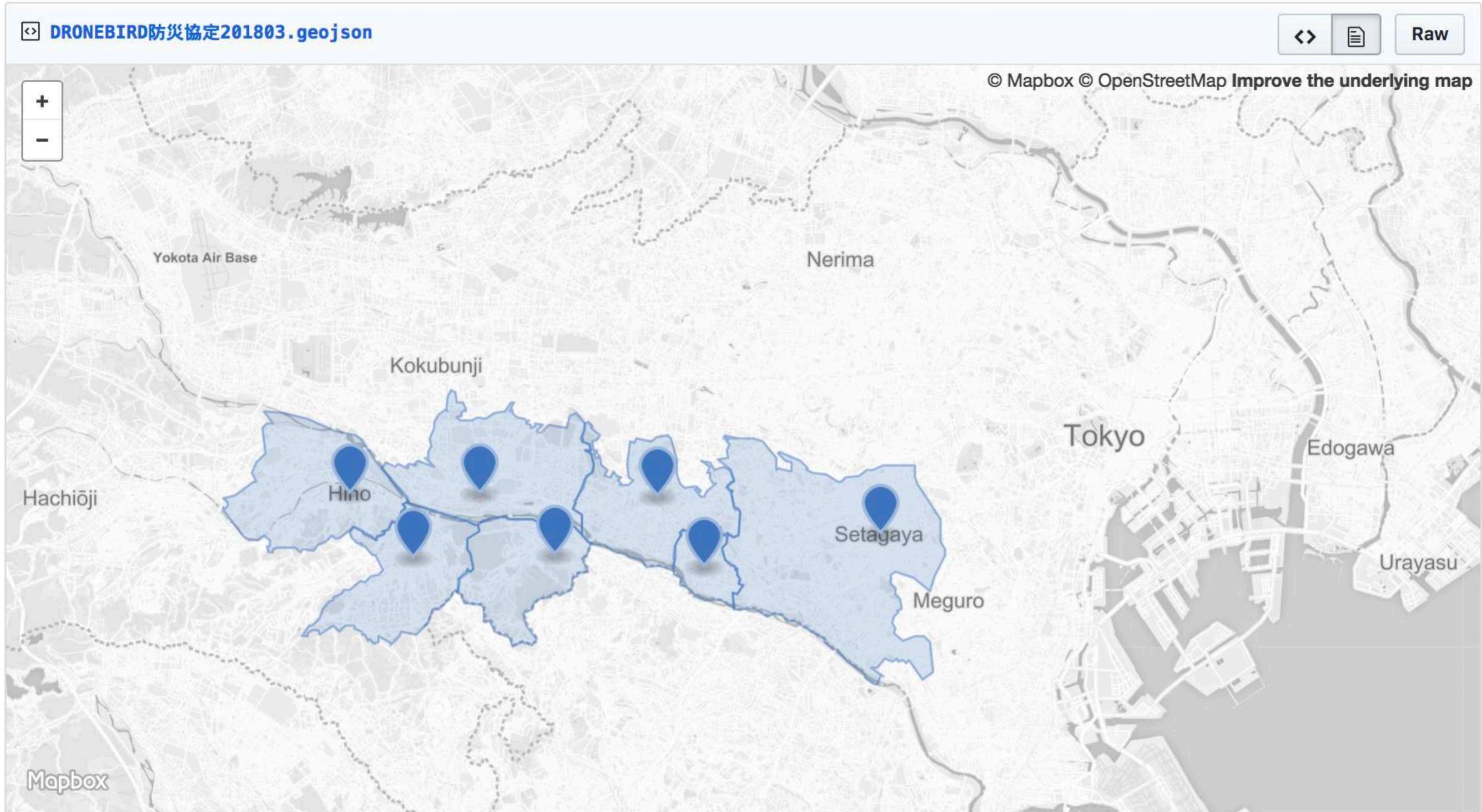
DRONEBIRD防災協定201804.geojson

<> Raw



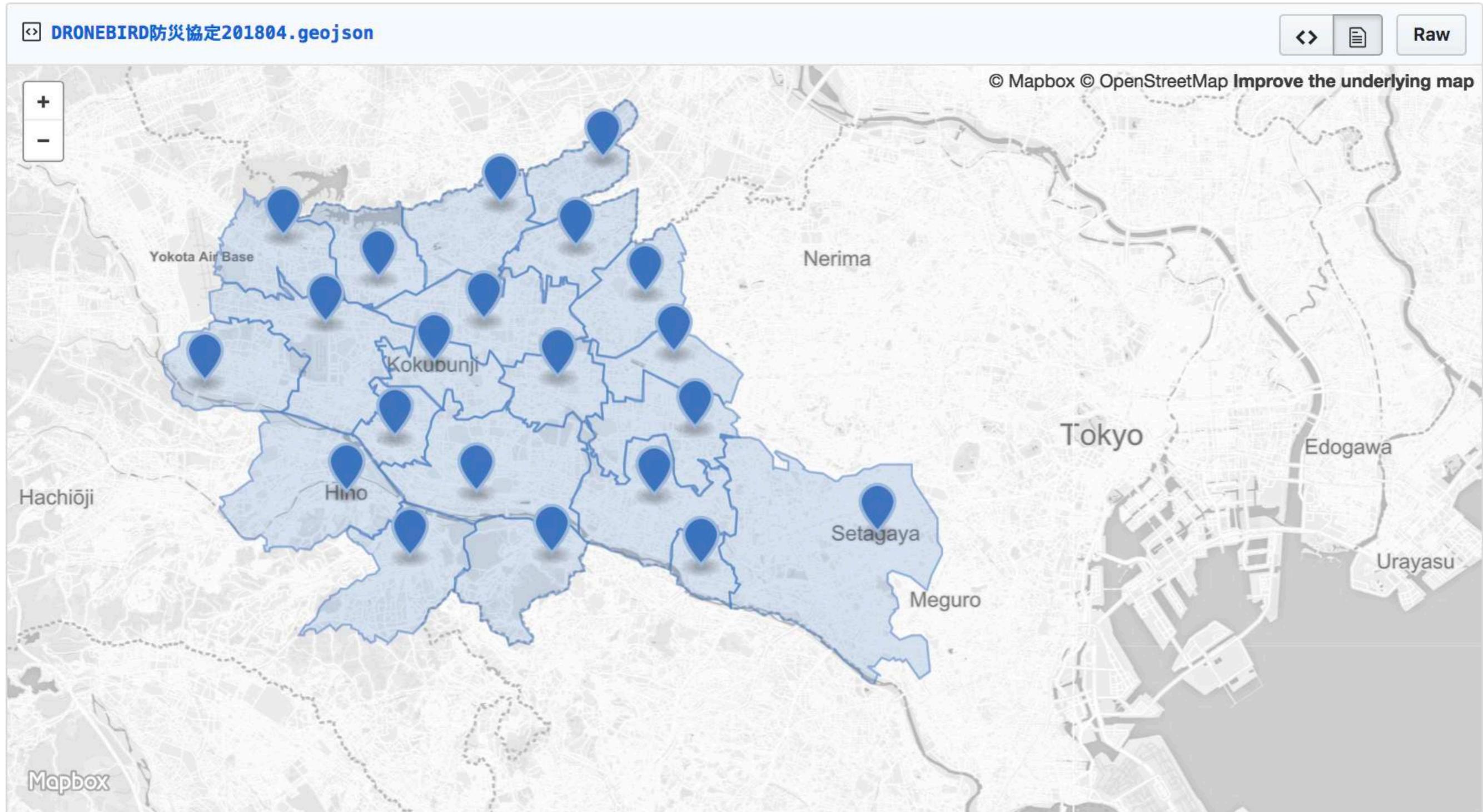


In 2017



9 local governments

In 2018 July

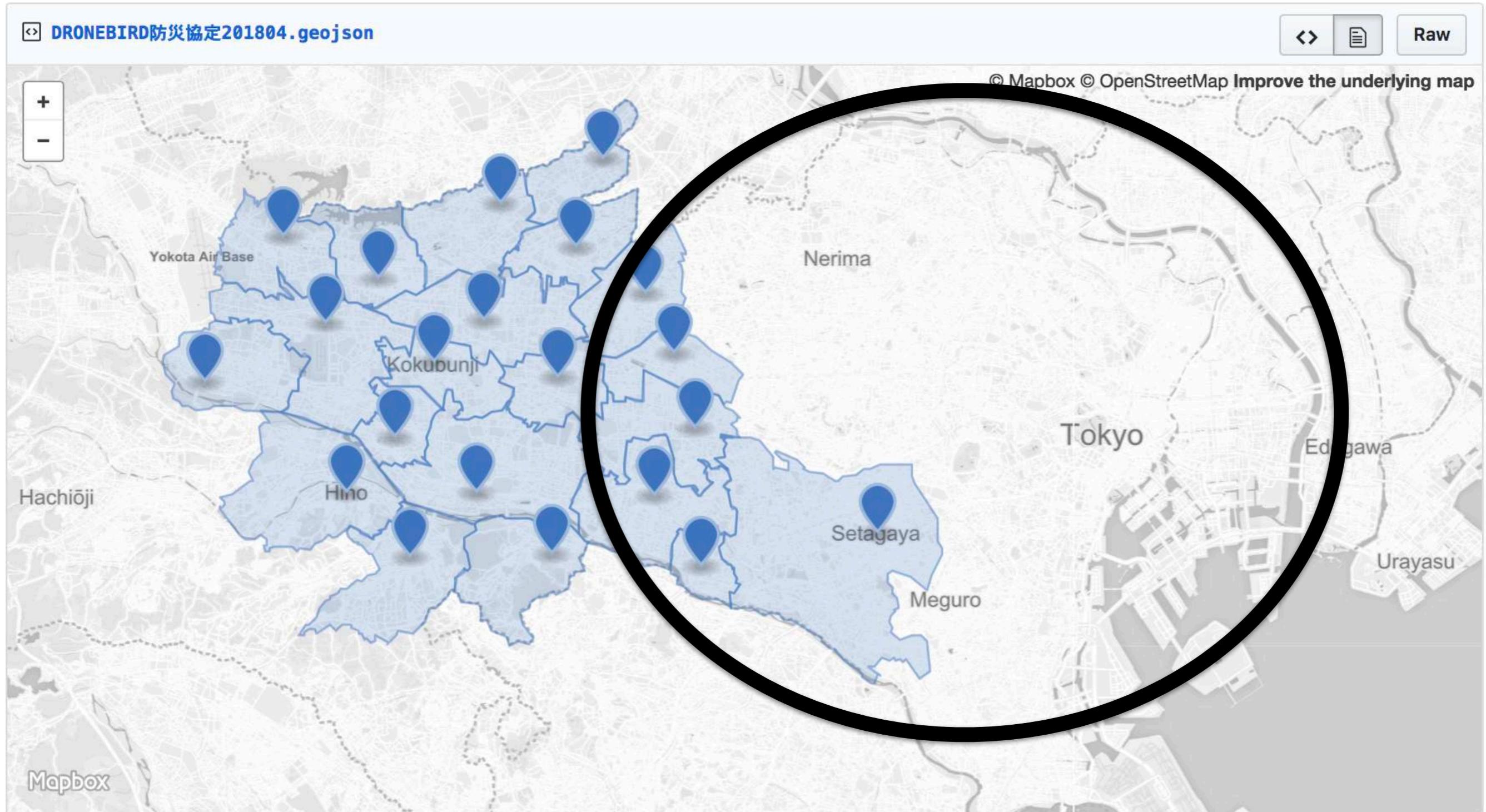


24 local governments

時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

Embed

<script src="https://gi



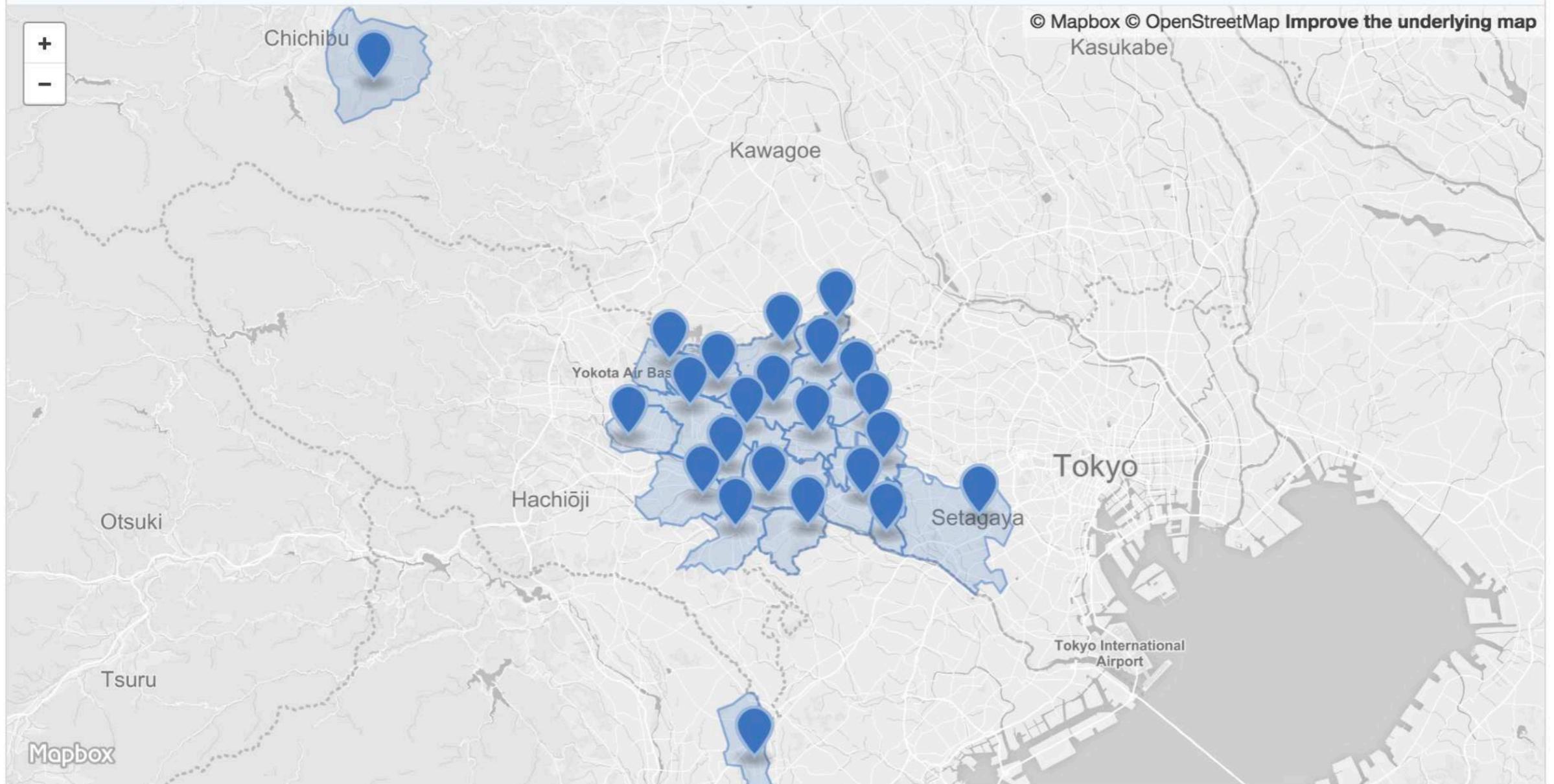
Download ZIP

DRONEBIRD防災協定201804.geojson



Raw

© Mapbox © OpenStreetMap Improve the underlying map
Kasukabe



mapconcierge / DRONEBIRD防災協定201804.geojson

Created a month ago

Edit Delete Star 0

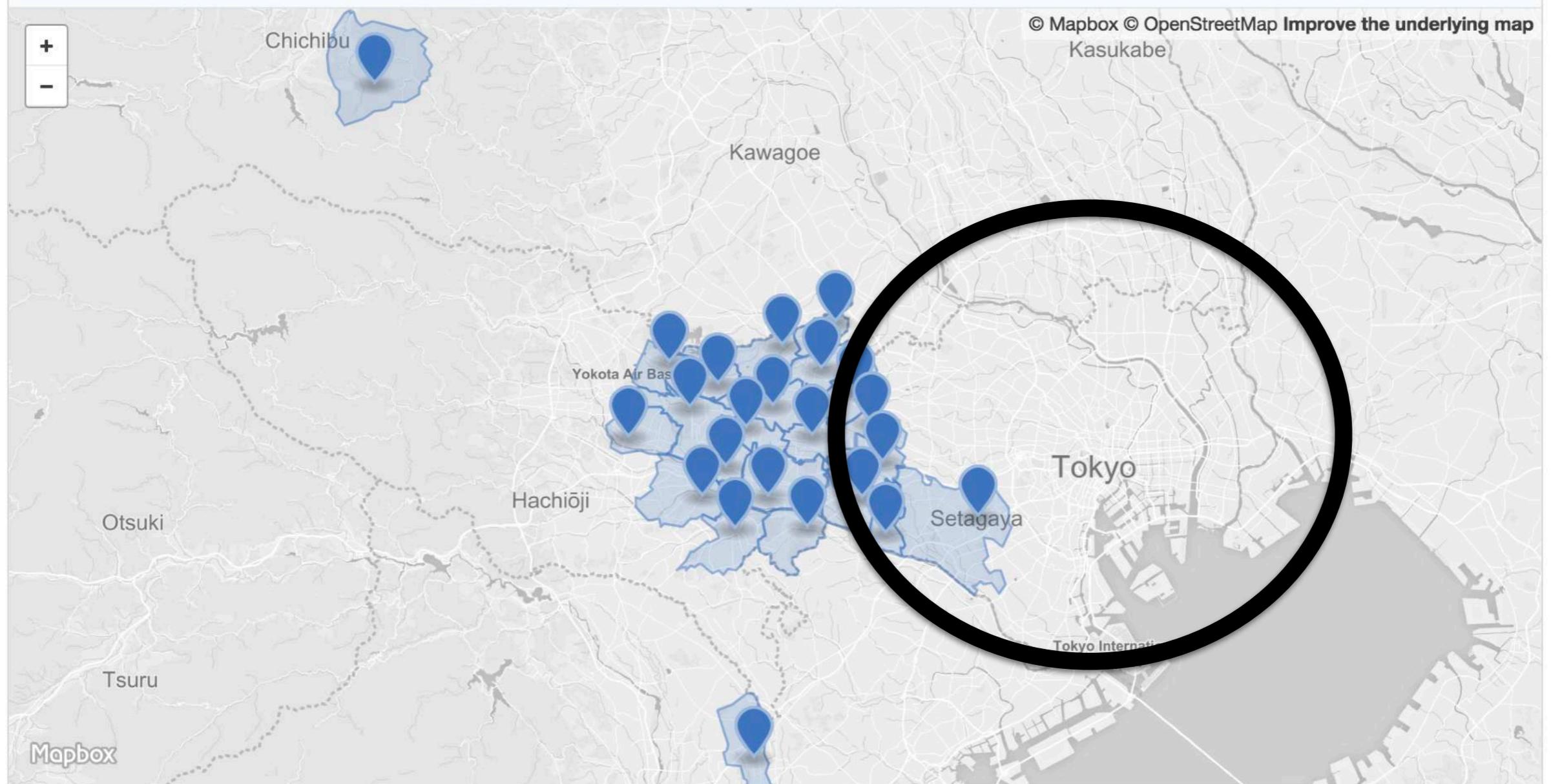
Code

Revisions 1

Embed <script src="https://gi... Download ZIP

DRONEBIRD防災協定201804.geojson

Raw



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

We will extend to more huge area.

And collaboration with

We
Robotics





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

<https://werobotics.org/>



Fédération Internationale des Géomaticiens
Not final

Finalist Lab
Yoko Ito

We support young surveyors for the future!!

Young Surveyors Involved
10 FIG's Commissions:
1. Professional Practice
2. Professional Education
3. Social Liaison and Management
4. Hydrography
5. Photogrammetry and Measurement
6. Engineering Surveying
7. Cadastre and Land Management
8. Spatial Planning and Urbanism
9. Urban and Air Management of the
10. Construction, Economic, Transport and Environment

Foundation
John Hohol

2nd FIG
Surveyors Network Asia Pacific Meeting
2014 in Japan

First Time FIG in Japan

MAXA
NABUUNING LAY

STRATEGIC TOOL PAPER 5

LOCAL
Various methods of using MAPs

Let's share experiences and grab opportunity!

Selection of Good Maps will grow!

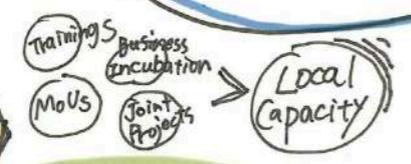
Making good communities through GIS





Using drone Mapping Digital technic

Also develop the APP. for local people



We can support from anywhere!



FROM 2010 to Future ...

Let's share experiences and Grab opportunity!



Situation of Crisis Mapping will grow!

Making good communities through GIS

Another approaches
in **peacetime**

Education for
next generation of Mappers
with Missing Maps project.



MEDECINS SANS FRONTIERES
国境なき医師団







MISSING
MAPS

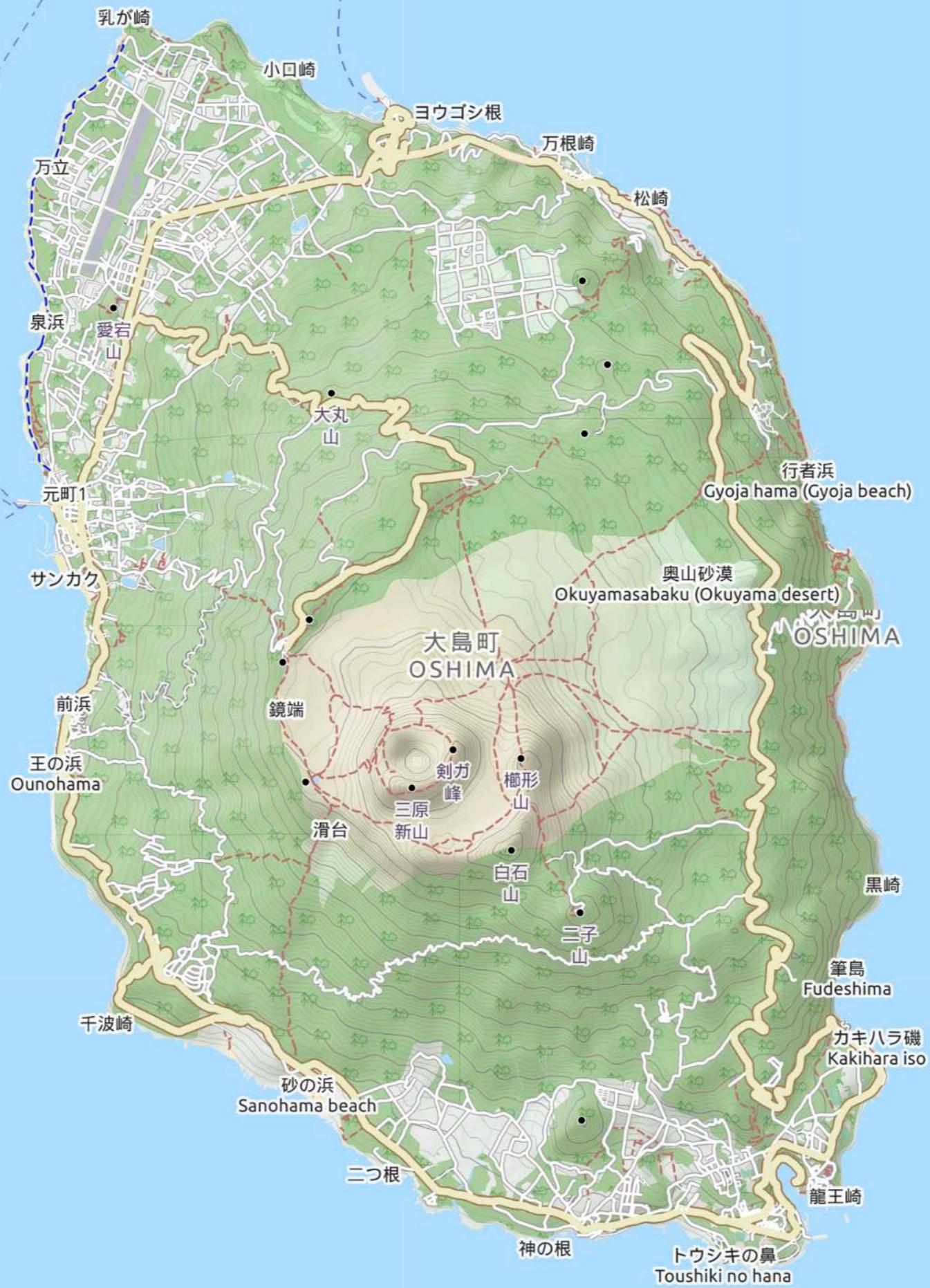


青山学院大学
Aoyama Gakuin University

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

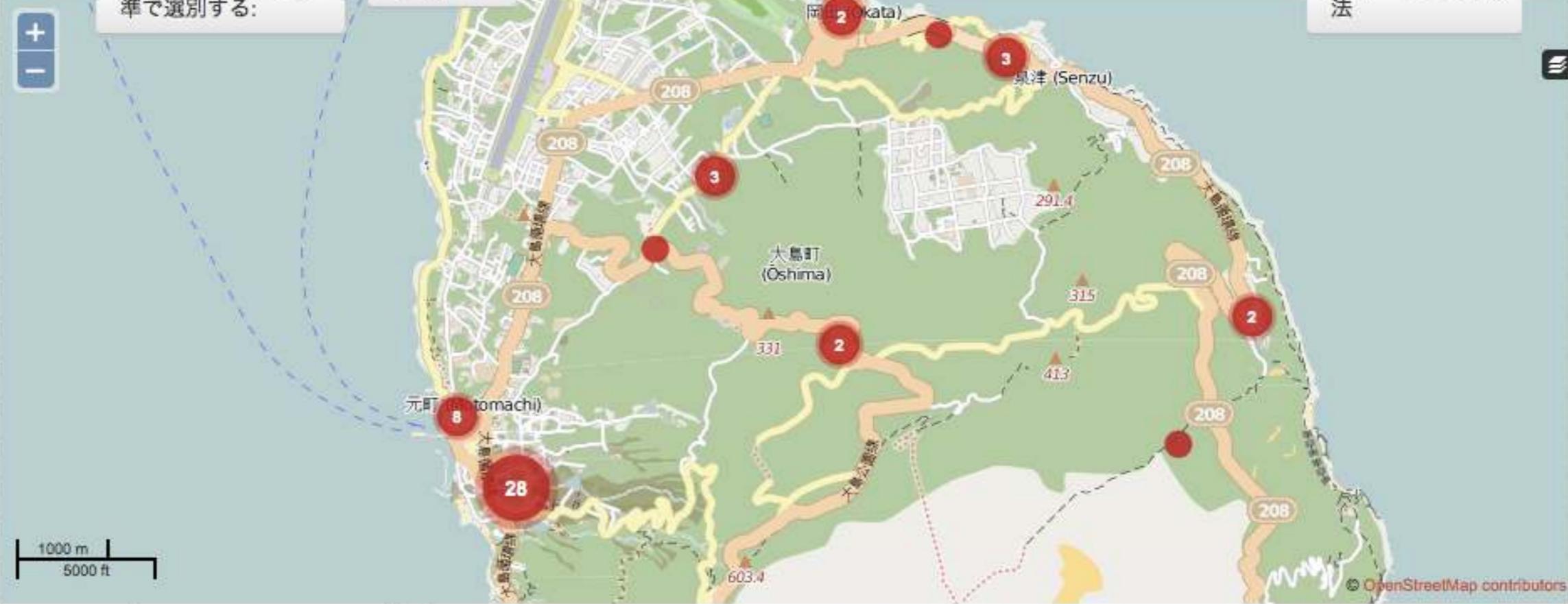
To embed this map in your own site use this HTML:

```
<iframe src="https://izuoshima26.crowdmap.com" width="515px" height="430px"></iframe>
```

レポートを以下の基準で選別する:

レイヤー

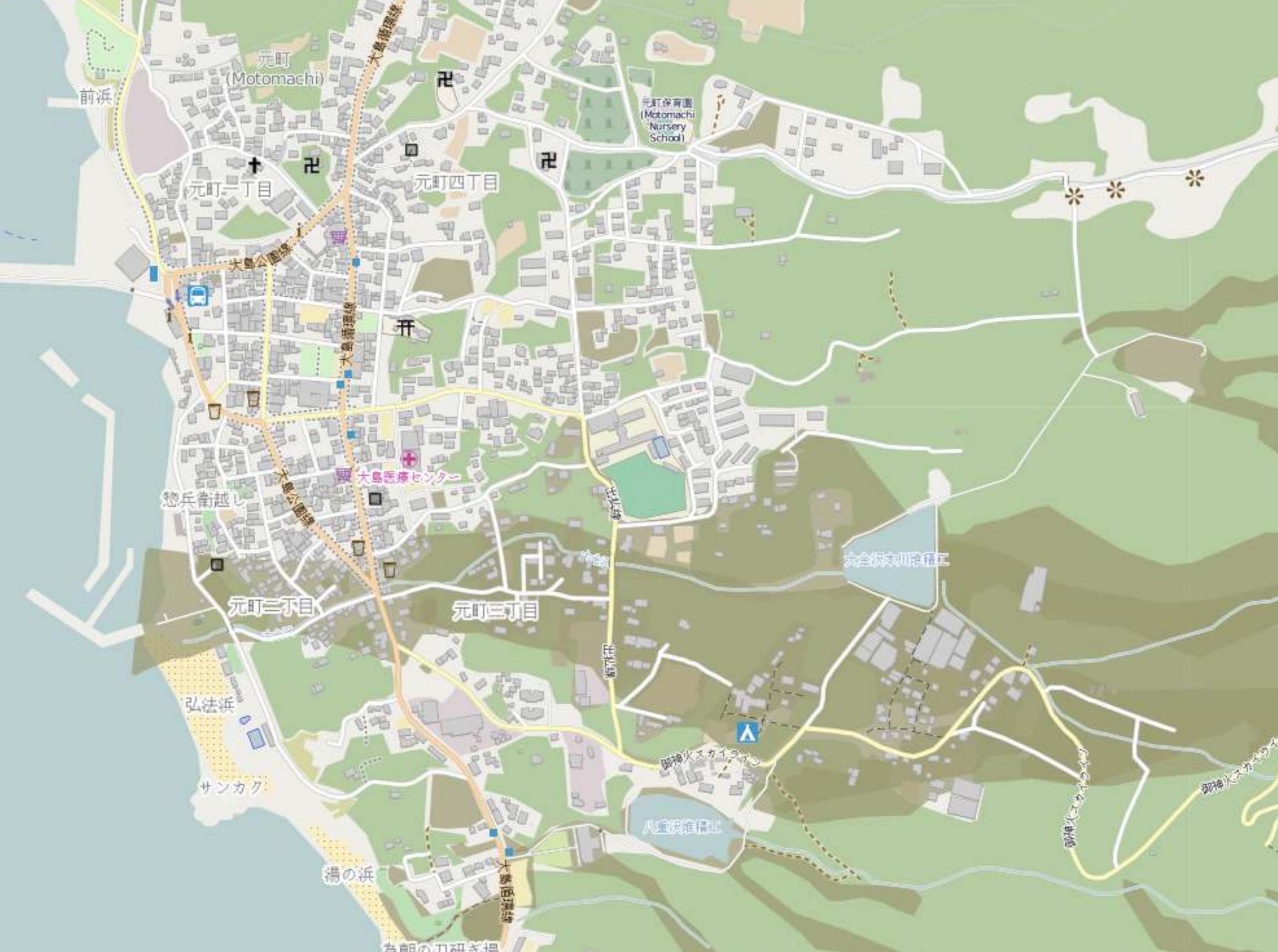
レポートする方法



Scale = 1 : 54K 34.78459, 139.31576

PRINT A MAP

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



元町 (Motomachi)

元町保育園 (Motomachi Nursery School)

元町一丁目

元町四丁目

惣兵衛越し

大島医療センター

元町三丁目

元町三丁目

弘法浜

サンカク

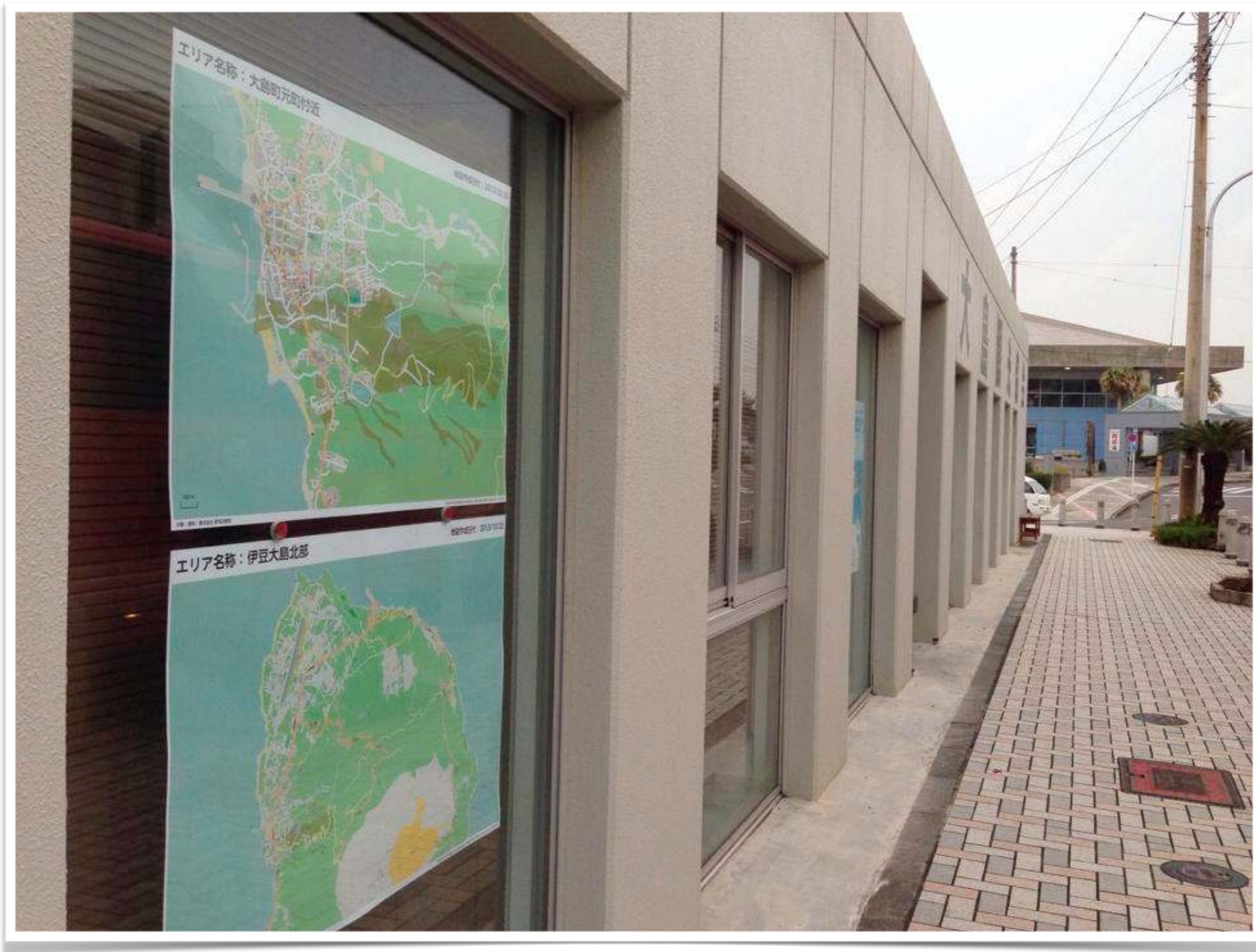
湯の浜

御神火スカイライン

八重沢准積正

六合松葉刈全積正

岩朝の刀研ぎ場





Now...

富士箱根伊豆国立公園

大島三原山

東京都

外輪山

三原山
麓









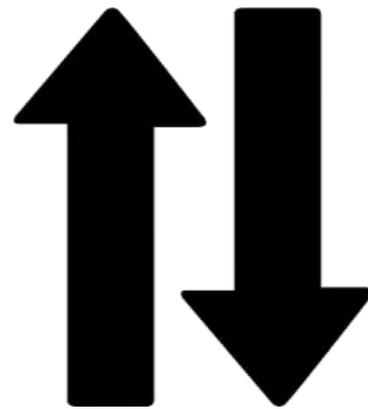
Our result,



AOYAMA VISION



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



in **crisis** → Crisis Response/Mapping





Happy Mapping!!

Taichi FURUHASHI
@**m**apconcierge



AOYAMA VISION