

UN Open GIS Initiative

**Cost-effective web maps with Smart
Maps Portable**

Feel free to interrupt.

Materials are online.

<https://unopengis.github.io/jica-2411>

Hidenori
web map enthusiast
JICA Senior Advisor

Hidenori

- Background in Information and Communications Technology (ICT)
- Geospatial Information Authority of Japan (20yr)
- IPI, Leibniz University of Hannover (1yr)
- United Nations Geospatial Information Section (2yr)
- Japan International Cooperation Agency (1yr)

UN Open GIS Initiative

Session objectives

**What contributions
can be made for**

**What benefits you
can get from**

the UN Open GIS Initiative

Focus
Surveying
Mapping
Publishing

Publishing = Web Maps

Sticky Note Map

<https://amx-project.github.io/note/>

Confirm you can open the map.

検索

Sticky Note Map

Ver. 0.03n © 2024 by AMX Project

2,180 PV

What is this map?

▶ Latest Post (10)

GAKUEN-NISHI-ODORI AVENUE 学園西大通り

NE 土浦境線

100 m



Digital maps on
web browsers

Open Data

with global coverage

- [OpenStreetMap](#)
- [NASADEM](#)
- [Terrain22 \(demo\)](#)

made cloud-native by the Initiative.

Open Source Software

MapLibre GL JS
UN Vector Tile Toolkit

Interactivity

Double click anywhere to
leave a comment

Comments are removed in
12 hours after posted

Feel free to comment on the map.

Q: Does your organization have a function to publish geospatial information?

Yes     ( )

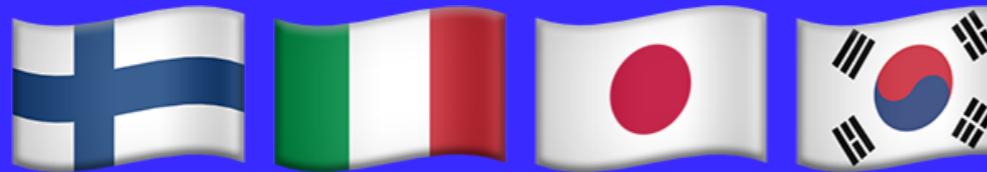
No    

Unknown

Topics of this session

1. UN Open GIS Initiative
2. UN Smart Maps Group
3. Smart Maps approach in JICA Technical Cooperation projects

UN Open GIS Initiative



2016-

 Welcome to the United Nations

UN Open GIS (Geospatial Information Systems) Initiative

Partners: Finland, Italy, Japan, Republic of Korea, United States of America

Status: Ongoing

The UN Open GIS Initiative, established in 2016, is an ongoing partnership initiative and supported by Member States, International Organizations including UN Agencies, Academia, NGOs, and the Private Sector.

The aim of UN Open GIS is the creation of an extended spatial data infrastructure by utilizing open source GIS solutions that meet the operational requirements of the United Nations (UN Secretariat including UN field missions and regional commissions). The initiative also reaches to UN agencies and operating partners, and to developing countries.

The UN Open GIS Initiative intends to provide a sustainable, hybrid GIS platform (integrating open source software GIS technology with the existing proprietary GIS platform) to effectively and efficiently support enhanced Situational Awareness and to inform decision-making. This will fulfill UN core mandates that refers to or depends on the following: geospatial information, the saving of lives and the support to emergency operations, and the enablement of cost-effective operations.

Various open source GIS solutions have been explored/assessed in the UN field operational environment, with findings of positive outcomes to move forward from the existing proprietary GIS platform toward the hybrid GIS platform. This is particularly on mobile GIS solutions (QField, KoBoToolbox, Geopaparazzi), desktop GIS solution (QGIS), OpenDroneMap, Cloud Free Satellite Imagery, and Hybrid GIS infrastructure.

To learn more, visit <https://www.un.org/geospatial>

Partnership for Technology in Peacekeeping initiative

Hosted by Department of Operational Support (DOS)
and Office of Information and Communication
Technology (OICT), United Nations

Supported by

- Member States 
- International Organizations including UN Agencies
- Academia
- NGOs
- the Private Sector

Aim

to create an extended spatial data infrastructure by utilizing **open source** GIS solutions that meet the operational requirements of the United Nations (UN Secretariat including UN field missions and regional commissions).

The initiative also reaches to UN agencies and operating partners, and **to developing countries.**

open source?

refers to software whose source code is made freely available for use, modification, and distribution, typically under a license that promotes collaboration, transparency, and community-driven innovation.

**open source
means (1/6)**
Accessibility

**open source
means (2/6)**
Customization

**open source
means (3/6)
Collaboration**

**open source
means (4/6)
Capacity Building**

**open source
means (5/6)**

**Transparency and
Trust**

**open source
means (6/6)
Sustainability**

UN Open GIS Initiative reaches to developing countries?

- Not very successful yet due to lack of resources.
- The original model is through UN peace missions and regional commissions.
- **Potential opportunity for JICA projects.**

Intention

- to provide sustainable, **hybrid GIS platform** (integrating open source software GIS technology with the existing proprietary GIS platform)
- to effectively and efficiently support enhanced Situational Awareness and to inform decision-making.
- This will fulfill UN core mandates that refers to or depends on the following:
 - geospatial information
 - the saving of lives and the support to emergency operations
 - the enablement of **cost-effective** operations

Outcomes

- movement forward from the existing proprietary GIS platform toward the hybrid GIS platform
- mobile GIS solutions (QField, ...)
- desktop GIS solution (QGIS)
- OpenDroneMap
- Cloud Free Satellite Imagery
- Hybrid GIS infrastructure.

Domain Working Groups (DWGs)

- DWG-1 Hybrid GIS platform
 - Mobile GIS Solutions, including integration with Azure AD
 - UNMISS Story Map
- DWG-2 Capacity Building
- DWG-5 Geo-AI & Analytics
- DWG-6 OpenDroneMap & 3D
- DWG-7 Smart Maps

DWG-7: Smart Maps Group **(SMG)**

Fast and smart web map publishing
components for the UN Open GIS hybrid
GIS infrastructure.

Activities

- Monthly meetings
- DWG activities
- Pilot projects like in UNMISS
- Attending events like FOSS4G

<https://github.com/UNopenGIS/>

Screenshot of the GitHub organization page for UNopenGIS.

The page shows the following details:

- Overview:** The main tab selected.
- Repositories:** 28 repositories listed.
- Projects:** 2 projects listed.
- Packages:** No packages listed.
- Teams:** No teams listed.
- People:** 12 people listed.
- Insights:** Insights section.
- Settings:** Organization settings.

UN Open GIS Initiative

 [Follow](#)

26 followers | <http://unopengis.org/> | [@unopengis](#)

README.md

UN Open GIS Initiative

- [the official website](#)
- [UN Smart Maps website](#)

Pinned

Customize pins

Repository	Public	Customize Pins
UN Smart Maps - keep web maps open for a better world	7	Customize
smartmaps	Public	Customize

View as: Public

You are viewing the README and pinned repositories as a public user.

Get started with tasks that most successful organizations complete.

Discussions

Set up discussions to engage with your community!

[Turn on discussions](#)

People

End of UN Open GIS Initiative
part

Questions and
Suggestions?

UN Smart Maps Group (SMG)

The 7th Domain Working Group (DWG)
of the UN Open GIS Initiative

<https://unopengis.github.io/smartmaps>

UN Smart Maps About ▾ Events Resources ▾ Get Involved ▾ English ▾ GitHub ☰ Search

UN Smart Maps

Keep web maps open for a better world

[Join UN Smart Maps](#) [See upcoming events](#)



Open License
UN Smart Maps is committed to sharing Open Source Software and Open Data.



Open Practice
UN Smart Maps is a Community of Practice. We share best practices and lessons learned.



Open Community
Anyone can join UN Smart Maps. We welcome contributions from anyone.

Smart Maps definition

**The use of
modern web map
technologies
for informed decisions.**

Smart Maps vision
Keep web
maps open
for a better world

Smart Maps mission

Test new
technologies
for future geospatial
applications

recent new technologies we
are testing

Generative AI
Portable Web

Generative AI Configuration Query

Free and Open Information Library for Geospatial (FOIL4G)

A geospatial information library where anyone can request adding open geospatial data.

Librarians are assisted by Generative AI (Large Language Model) when creating configuration files to add data.

FOIL4G: Free and Open Information Library for Geospatial

Concept

We incorporate Benjamin Franklin's library concept into the idea of the Free and Open Information Library for Geospatial (FOIL4G):

"Since our books were often referred to in our disquisitions upon the queries, it might be convenient to have them all together where we meet, so that they might be consulted when needed. Additionally, by pooling our books into a common library, we would, while we liked to keep them together, have the advantage of using the books of all the other members, which would be nearly as beneficial as if each owned the whole."

This quote is highly relevant to emphasize the philosophy behind FOIL4G. FOIL4G aims to create an open library of geospatial information, allowing all members to freely access and collaboratively utilize the data. By doing so, it leverages individual resources to enhance the collective knowledge and capabilities of the entire community.

Specifically, FOIL4G can incorporate the following elements:

- 1. Aggregation of Shared Resources:** Collect smart maps, geospatial data, relevant documents, and more in one place where everyone can access them.
- 2. Collaborative Work and Learning:** Facilitate discussions among members, enabling them to consult necessary information on the spot for effective decision-making and problem-solving.
- 3. Expansion of Knowledge:** By utilizing the shared library, each member can benefit from the knowledge and resources of others, thus enhancing their own capabilities.



UNOpenGIS / foil4g

Type / to search



Code

Issues 7

Pull requests 1

Discussions

Actions

Security 1

Insights

Settings

Filters ▾

is:issue is:closed

Labels 19

Milestones 0

New issue

Clear current search query, filters, and sorts

 7 Open 21 Closed

Author ▾

Label ▾

Projects ▾

Milestones ▾

Assignee ▾

Sort ▾

 Implement GELMap at [src/component/Datasets/GEL/index.tsx](#) 1

#96 by yuiseki was closed on Jul 1

 Add data called Smart Maps Global Elevation Tiles as [lib/data/data.source.coop/smартmaps/gel/index.yaml](#) 1

#94 by yuiseki was closed on Jul 1

 Add [lib/data/optgeo.github.io/virgo-data/transmission_line_v1.yaml](#) 1

#63 by hfu was closed on Jun 16

 Add [lib/data/optgeo.github.io/virgo-data/provinceboundary_cdudcp_v1.yaml](#) 1

#57 by hfu was closed on Jun 16

 Add [lib/data/optgeo.github.io/virgo-data/goverment_office_v0.yaml](#) 1

#55 by hfu was closed on Jun 16

 Add [lib/data/optgeo.github.io/virgo-data/firehydrant_2023_v1.yaml](#) 1

#53 by hfu was closed on Jun 15

 Add [lib/data/optgeo.github.io/virgo-data/electric_pole_point_v1.yaml](#) 1

#51 by hfu was closed on Jun 15



You are viewing `Copilot Workspace` in read-only mode. [Sign in again](#) for full access

 UNOpenGIS / foil4g  #63 main Auto saving...

 lib/data/optgeo.github.io/virgo-data/transmission_line_v1.yaml

 Create a new YAML file for the transmission line data

 Add a `data_id` field with a unique identifier for the data

 Add a `license` field with the value "unknown" and a note about the open data intention

 Add an `attributions` field with the Vientiane Integrated Urban Information GIS-based Opendata Platform and its URL

 Add a `description` field with a brief description of the transmission line data

 Add a `data_format` field with the value "shapefile"

 Add a `file_format` field with the value "shp"

 Add a `file_size` field with the value "unknown"

 Add a `url` field with the URL of the shapefile



Revise...



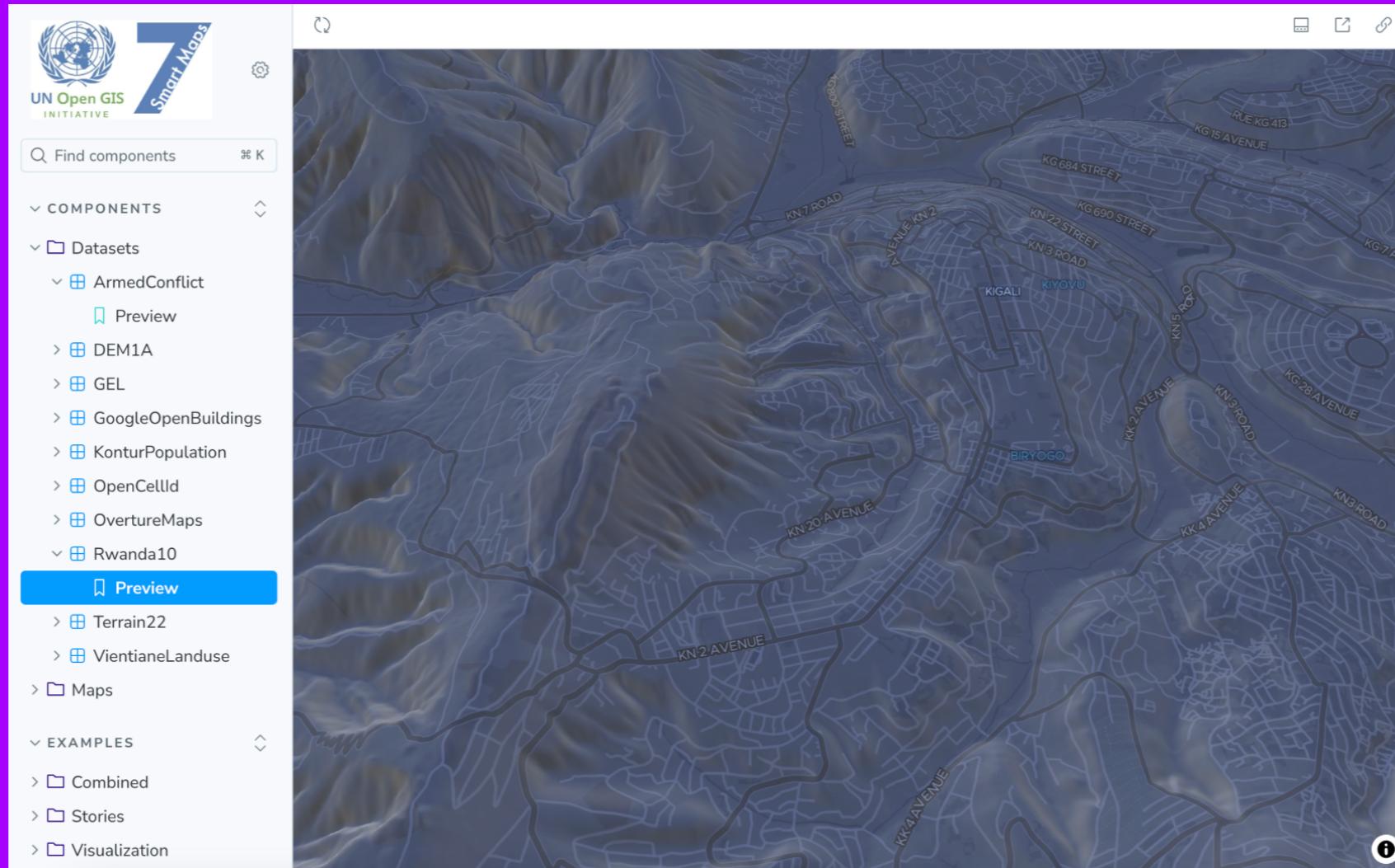
  Files changed 1

 Uncommitted changes

 lib/data/optgeo.github.io/virgo-data/transmission_line_v1.yaml

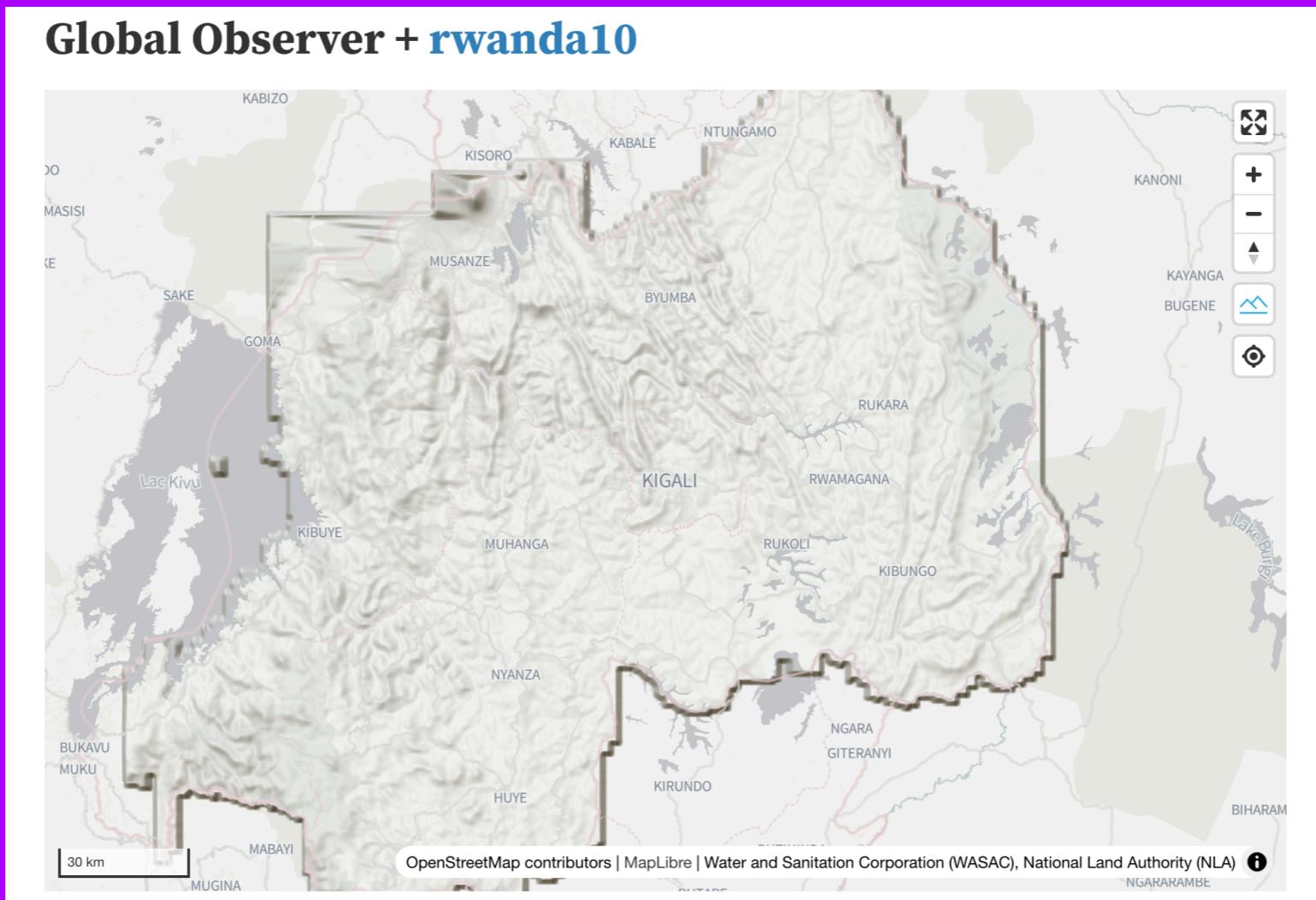
```
1 data_id: optgeo_transmission_line_v1
2 license: unknown
3 attributions:
4   - Vientiane Integrated Urban Information GIS-based Opendata Platform
5   - https://virgo.mpwt.gov.la/disclaimer/#/
6 description: Transmission line data for Vientiane, Lao P. D. R.
7 data_format: shapefile
8 file_format: shp
9 file_size: unknown
10 url: https://optgeo.github.io/virgo-data/transmission\_line\_v1.shp
11
```

FOIL4G



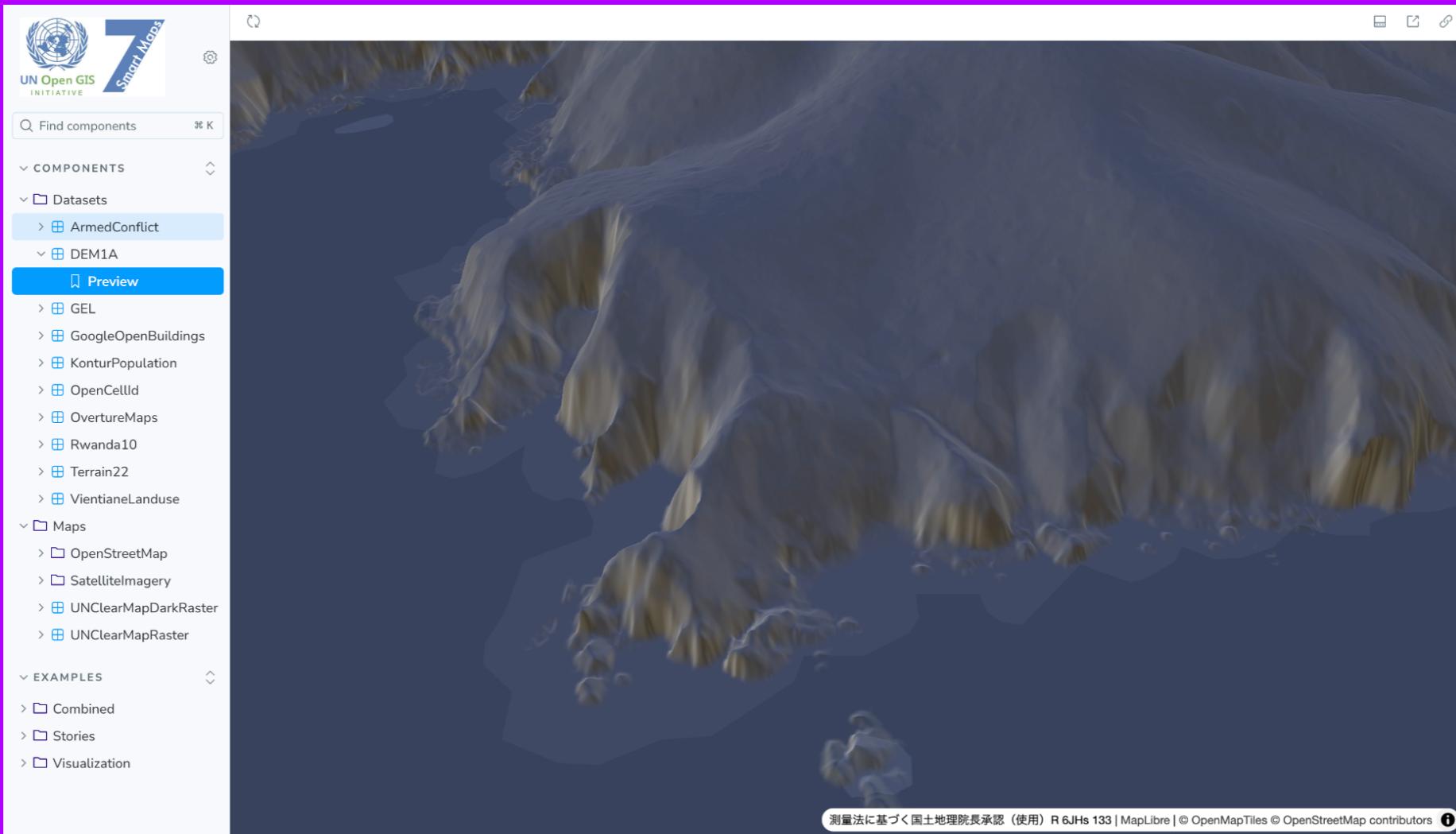
10m GSD DEM by NLA, Rwanda

The same data in another app



Beauty of online open data

FOIL4G



1m GSD DEM by GSI, Japan

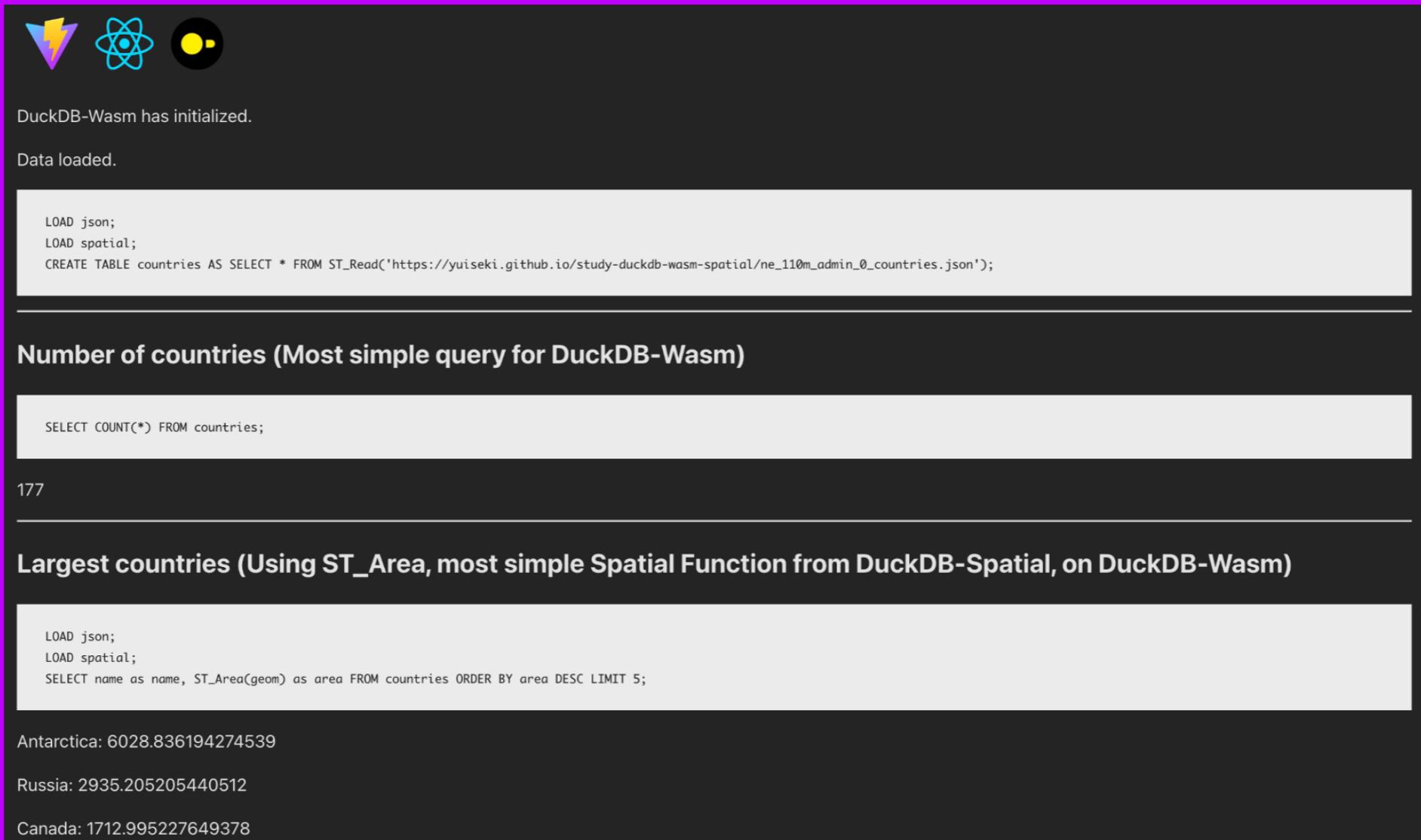
Generative AI Configuration Query

Database on web browsers

DuckDB-Wasm

DuckDB-Spatial

<https://yuiseki.github.io/study-duckdb-wasm-spatial/>



The screenshot shows the DuckDB-Wasm interface with the following components:

- Top Bar:** Icons for DuckDB (blue triangle), Wasm (atom), and Spatial (yellow dot).
- Messages:** "DuckDB-Wasm has initialized." and "Data loaded."
- Query Editor:** A code block containing:

```
LOAD json;
LOAD spatial;
CREATE TABLE countries AS SELECT * FROM ST_Read('https://yuiseki.github.io/study-duckdb-wasm-spatial/ne_110m_admin_0_countries.json');
```
- Section Header:** "Number of countries (Most simple query for DuckDB-Wasm)"
- Result:** A code block containing:

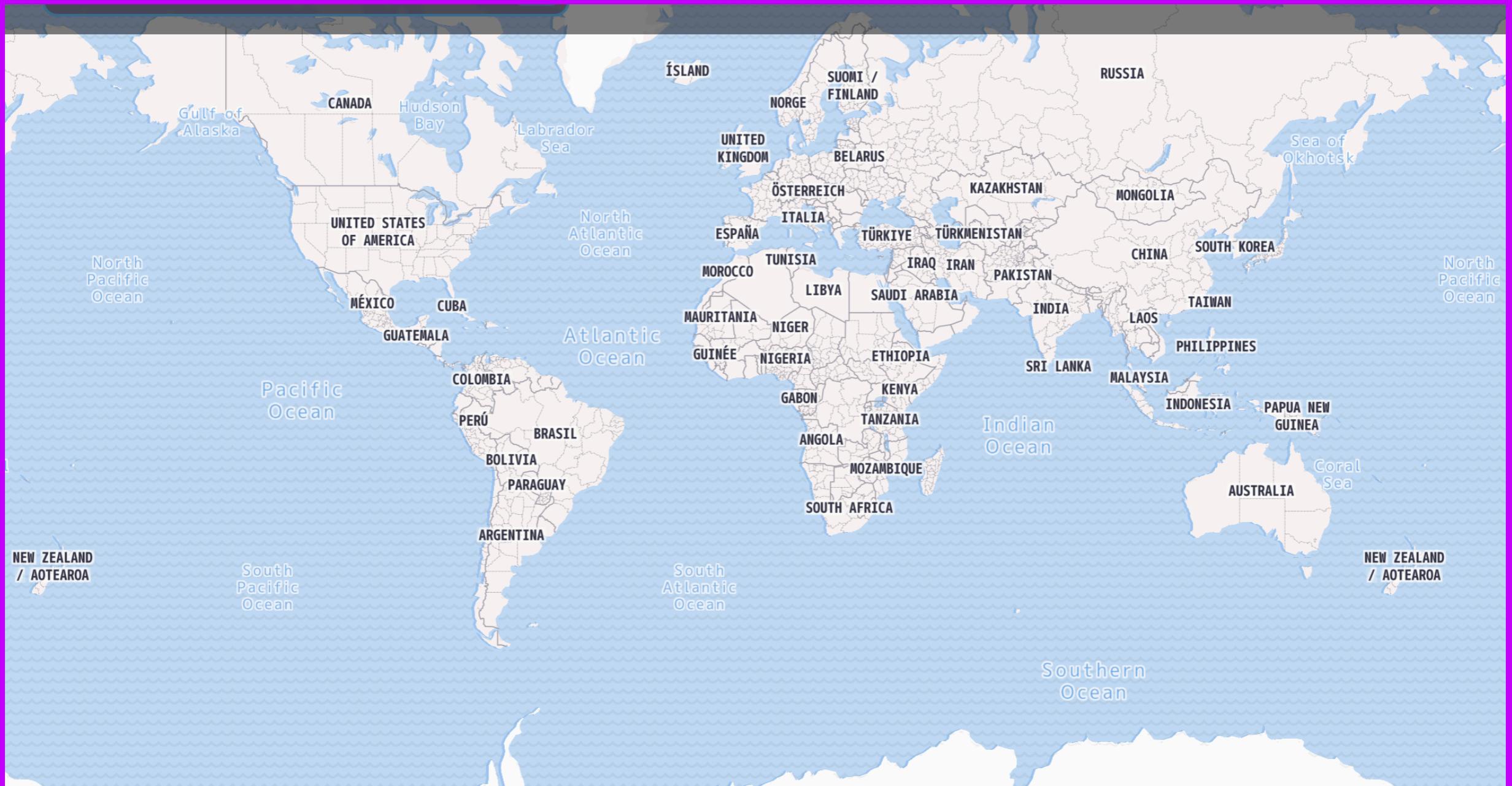
```
SELECT COUNT(*) FROM countries;
```

 followed by the result "177".
- Section Header:** "Largest countries (Using ST_Area, most simple Spatial Function from DuckDB-Spatial, on DuckDB-Wasm)"
- Result:** A code block containing:

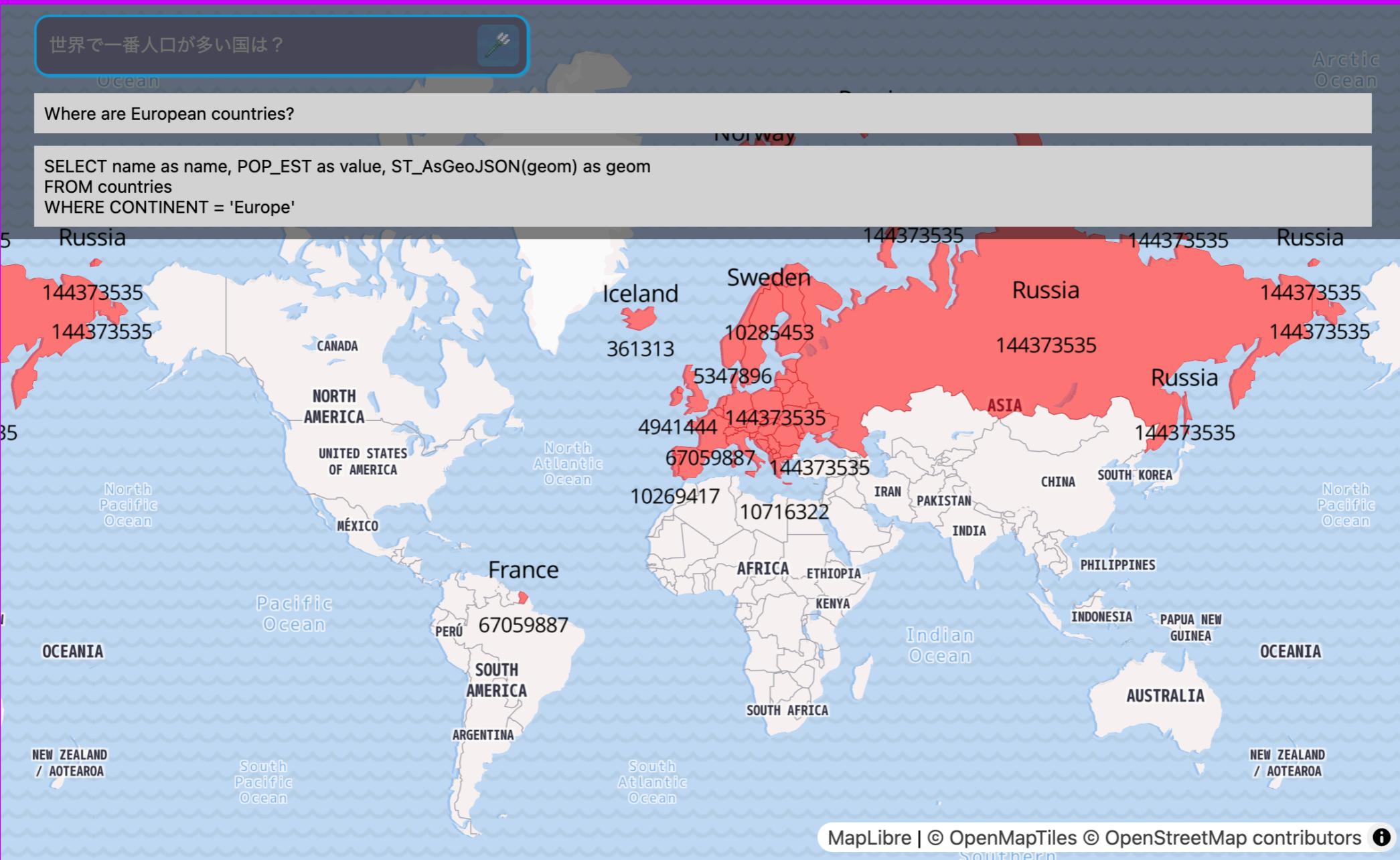
```
LOAD json;
LOAD spatial;
SELECT name as name, ST_Area(geom) as area FROM countries ORDER BY area DESC LIMIT 5;
```

 followed by the results:
 - Antarctica: 6028.836194274539
 - Russia: 2935.205205440512
 - Canada: 1712.995227649378

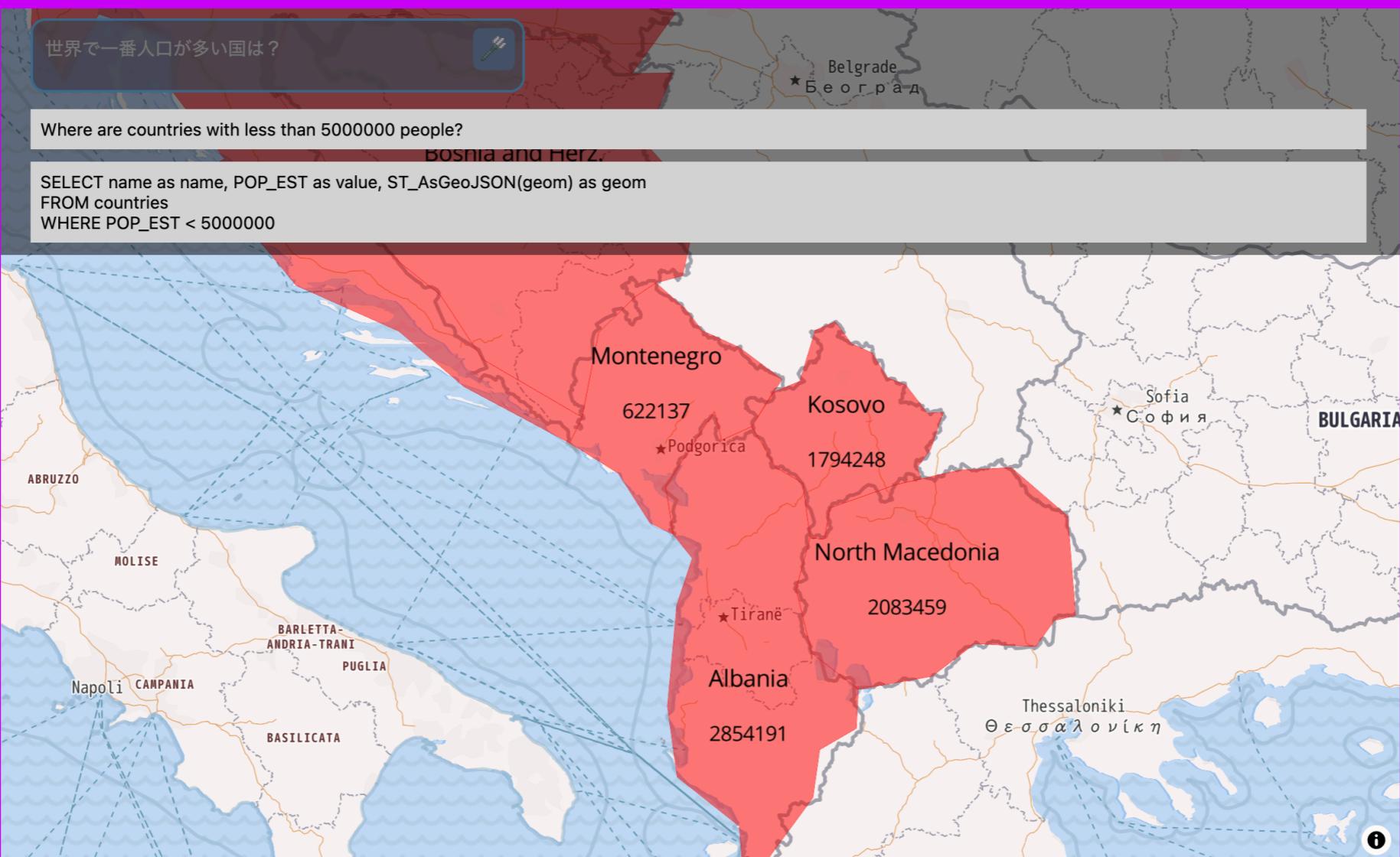
<https://trident.yuiseki.net/duckdb>



Where are European countries?



Where are countries with less than 5000000 people?



values SMG is recently
pursuing

**Adaptability
Portability**

recent new technologies
SMG is testing

Generative AI
Portable Web

Key technology
Cloud-native
dataset in a single file

PMTiles

The screenshot shows a dark-themed web page for the **PMTiles Concepts** documentation. At the top left is the **Protomaps Docs** logo. To the right are a search bar with a magnifying glass icon and the text "Search", a keyboard icon, and a navigation menu with items "Guides", "protomaps.com", "Sponsor on GitHub", and three vertical dots. On the far left is a sidebar with a tree-like navigation structure:

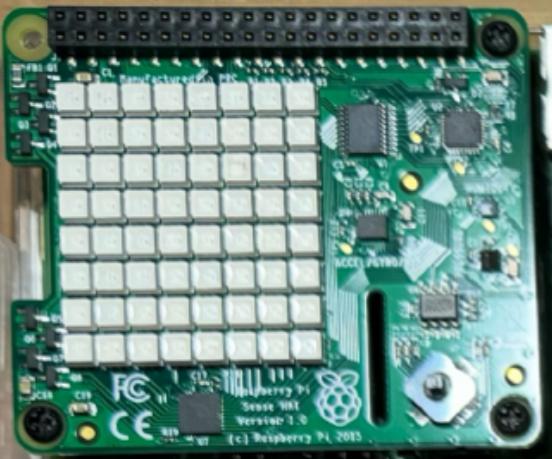
- Introduction** >
- PMTiles** ▾
 - Concepts
 - Creating PMTiles
 - Cloud Storage
 - pmtiles CLI
- PMTiles in the browser** >
- Accelerating PMTiles** >
- OSM Basemaps** >

In the center, a button labeled "On this page >" is visible. The main content area has a large heading **PMTiles Concepts**. Below it is a paragraph of text: "PMTiles is a single-file archive format for pyramids of tiled data. A PMTiles archive can be hosted on a storage platform like S3, and enables low-cost, zero-maintenance map applications." Further down is another heading **Concepts**, followed by a bulleted list of features:

- PMTiles is a general format for tiled data addressed by Z/X/Y coordinates. This can be cartographic basemap vector tiles, remote sensing observations, JPEG images, or more.
- PMTiles readers use [HTTP Range Requests](#) to fetch only the relevant tile or metadata inside a PMTiles archive on-demand.
- The arrangement of tiles and directories is designed to minimize the amount of overhead requests when panning and zooming.

At the bottom, a note states: "The current specification version of PMTiles is version 3, which you can [read on GitHub](#)."

Smart Maps Portable "Lunchbox Server"



USB + DC Power

多端口串行转接器
RS232 MAX
输入：RS232 MAX
输出：RS232 MAX
电源：DC 12V

串行端口转接器
RS232 MAX

In Our Initiative Smart Maps Group
Key web is open for a better world.
Test new technology for future generations.
We welcome contributions.
Open Source Community.



smartmaps.github.io/smartmaps

smartmaps.github.io/smartmaps

smartmaps.github.io/smartmaps

smartmaps.github.io/smartmaps

smartmaps.github.io/smartmaps

smartmaps.github.io/smartmaps



**Raspberry Pi 4B
USB UPS (10,000 mAh)
USB SSD (2TB)
GNSS antenna
USB power bank
(20,000 mAh)**

Runs 18 hours without external power supply.

Raspberry Pi 4B

Raspberry Pi Foundation
From 35 US\$

you asked **four** it



Linux

Demo

Connect WiFi

SSID: **smartmapsportable**

password: **smartmapsportable**

Open

<https://portable.local>

Should work for more than 25 clients.

Privacy error

Not Secure https://portable.local



Your connection is not private

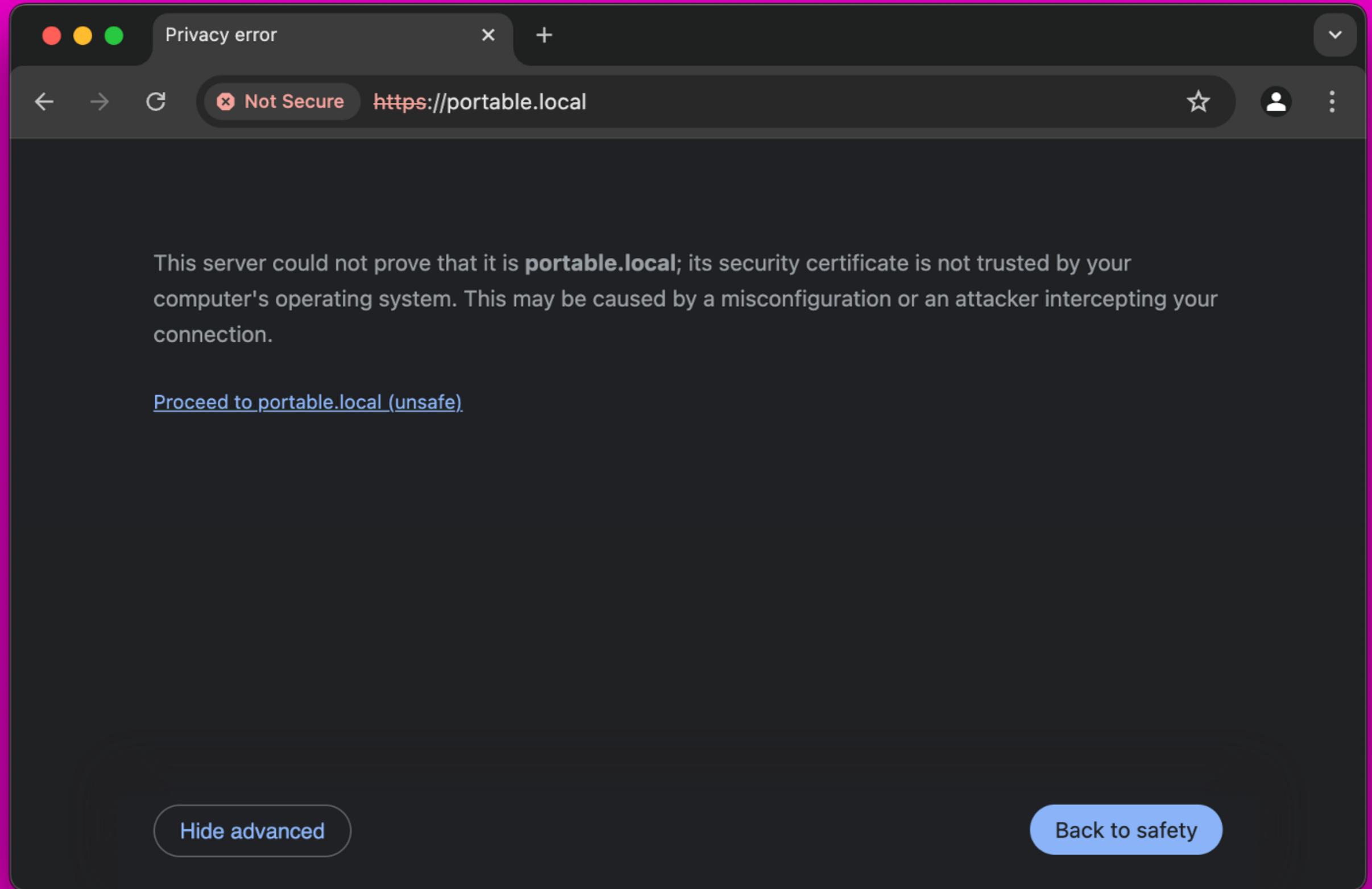
Attackers might be trying to steal your information from **portable.local** (for example, passwords, messages, or credit cards). [Learn more about this warning](#)

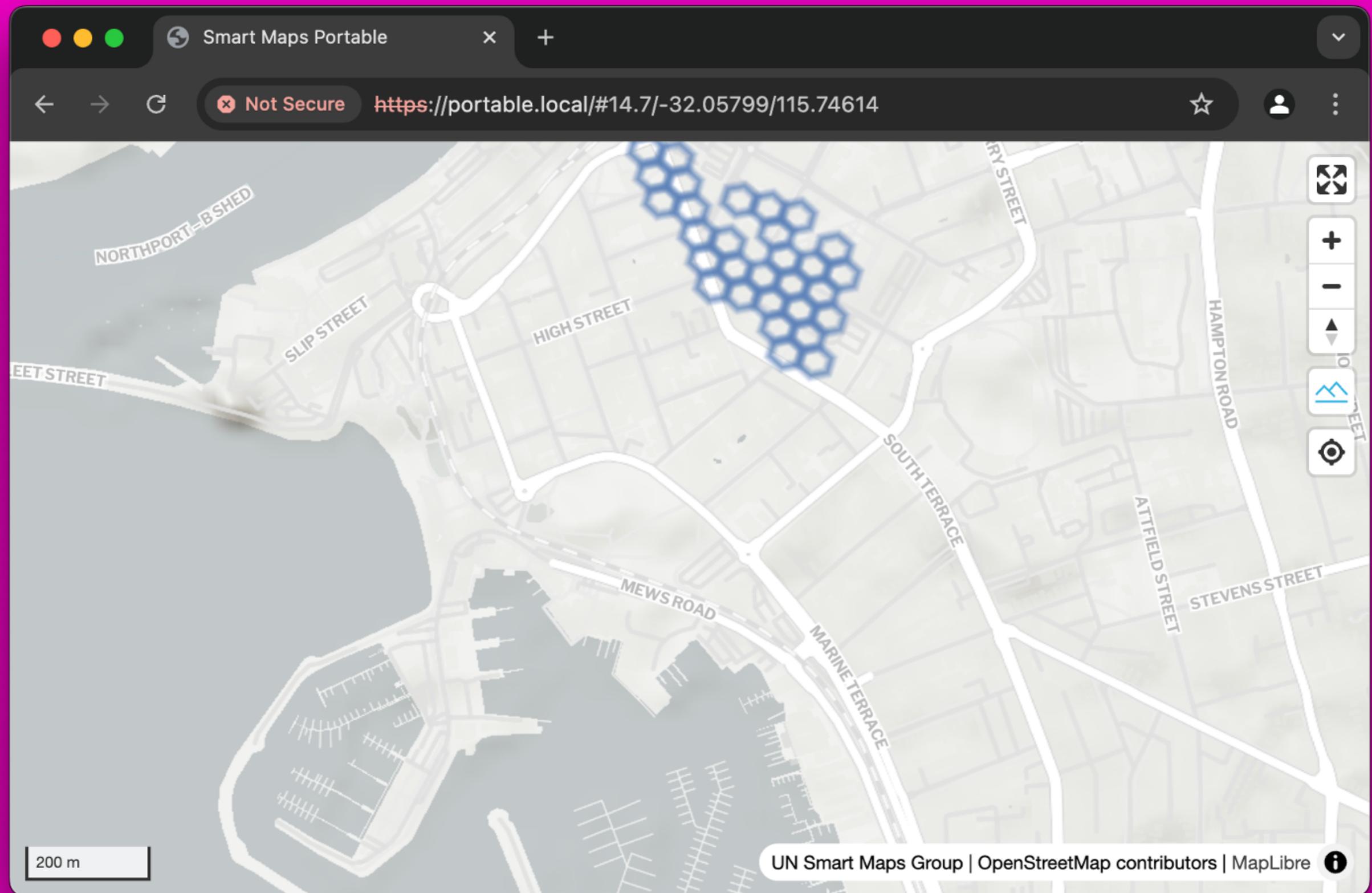
NET::ERR_CERT_AUTHORITY_INVALID

[Turn on enhanced protection](#) to get Chrome's highest level of security

[Advanced](#)

[Back to safety](#)





**Ctrl-Drag for
3D view**

Hosted contents

**OpenStreetMap vector tiles (69 GB,
Global)**

**NASADEM terrain tiles (183 GB,
Global)**

**LiDAR 3D Tiles (414 GB, Nagasaki,
Japan)**

GNSS tracks in h3j

"Your data" can be hosted easily!

Software

MapLibre GL JS
PMTiles.js

Cloud-native files can be easily hosted on other than Smart Maps Portable:

- On-premise Server
- Object Storage
- Existing platforms
 - Such as Open Data on AWS, Source Cooperative, OCHA HDX and UNDP GeoHub
 - InterPlanetary File System

Open Data on AWS

Registry of Open Data on AWS



① The Registry of Open Data on AWS is now available on AWS Data Exchange
All datasets on the Registry of Open Data are now discoverable on AWS Data Exchange alongside 3,000+ existing data products from category-leading data providers across industries. Explore the catalog to find open, free, and commercial data sets. [Learn more about AWS Data Exchange](#)

[Explore the catalog](#) X

About

This registry exists to help people discover and share datasets that are available via AWS resources. See [recent additions](#) and [learn more about sharing data on AWS](#).

Get started using data quickly by viewing [all tutorials with associated SageMaker Studio Lab notebooks](#).

See [all usage examples for datasets listed in this registry](#).

See datasets from [Allen Institute for Artificial Intelligence \(AI2\)](#), [Digital Earth Africa](#), [Data for Good at Meta](#), [NASA Space Act Agreement](#), [NIH STRIDES](#), [NOAA Open Data Dissemination Program](#), [Space Telescope Science Institute](#), and [Amazon Sustainability Data Initiative](#).

Search datasets (currently 591 matching datasets)

Add to this registry

If you want to add a dataset or example of how to use a dataset to this registry, please follow the instructions on the

The Human Sleep Project

[bioinformatics](#) [deep learning](#) [life sciences](#) [machine learning](#) [medicine](#)
[neurophysiology](#) [neuroscience](#)

The Human Sleep Project (HSP) sleep physiology dataset is a growing collection of clinical polysomnography (PSG) recordings. Beginning with PSG recordings from ~15K patients evaluated at the Massachusetts General Hospital, the HSP will grow over the coming years to include data from >200K patients, as well as people evaluated outside of the clinical setting. This data is being used to develop CAISR (Complete AI Sleep Report), a collection of deep neural networks, rule-based algorithms, and signal processing approaches designed to provide better-than-human detection of conventional PSG...

[Details →](#)

Usage examples

- Applications of a Capacitor-Based Respiratory Position Sensing Device: Implications for Radiation Therapy. *Austin Journal of Medical Oncology* 2014;1(2). PMCID: [PMC6956860](#). by Weng Y, Westover MB, Speier C, Sharp G, Bianchi MT, Westover KD.
- Sleep Apnea and Respiratory Anomaly Detection from a Wearable Band and Oxygen Saturation. *Sleep and Breathing*. 2021 Aug 18. doi: 10.1007/s11325-021-02465-2. Online ahead of print. PMCID: [PMC8854446](#). by Ganglberger W, Bucklin AA, Tesh R, Cardoso MDS,

Source Cooperative

NOTE: This service is under active development. Certain features may not work or become unavailable at any time.

SOURCE
COOPERATIVE

Search

BROWSE

SIGN IN / REGISTER

Source Cooperative is a neutral, non-profit data-sharing utility that allows trusted organizations to share data without purchasing a data portal SaaS subscription or managing infrastructure. Source allows organizations to share data using standard HTTP methods rather than requiring proprietary APIs or SaaS interfaces.

Featured Repositories

Overture Maps - Fused-partitioned Featured

The Overture 2024-11-13.0 dataset, geo-partitioned with Fused for convenient access.

Provided By [@fused](#) • Published on March 07, 2024

overture vector building footprints geoparquet geospatial land use pois transportation

Land, carbon and biodiversity data for supply chain impact calculation Featured

Indicators of deforestation, conversion of natural ecosystems, greenhouse gas emissions, and loss of intact or high integrity ecosystems originally prepared for the LandGriffon service (<https://landgriffon.com>) following international standards and guidelines for reporting and target setting in the ... [\[View More\]](#)

Provided By [@vizzuality](#) • Published on October 28, 2023

deforestation land use carbon emissions agriculture

National Wetlands Inventory Featured

The US National Wetlands Inventory (NWI) is a publicly available resource that provides detailed information on the abundance, characteristics, and distribution of US wetlands. The US Fish and Wildlife Service (FWS) is the principal US Federal agency tasked with providing information to the public o... [\[View More\]](#)

Provided By [@giswqs](#) • Published on November 10, 2023

geospatial geoparquet wetlands vector water conservation

Google-Microsoft-OSM Open Buildings - combined by VIDA Featured

This dataset merges Google's V3 Open Buildings, Microsoft's GlobalMLFootprints, and OpenStreetMap building footprints. It contains 2,705,459,584 footprints and is divided into 200 partitions. Each footprint is labelled with its respective source, either Google, Microsoft, or OpenStreetMap. It can be... [\[View More\]](#)

Provided By [@vida](#) • Published on August 26, 2024

SMG on Source Cooperative

NOTE: This service is under active development. Certain features may not work or become unavailable at any time.

SOURCE
COOPERATIVE

Search

BROWSE

SIGN IN / REGISTER

REPOSITORIES

MEMBERS

UN Smart Maps Group

- ⌚ Somewhere On Planet Earth
- 🔗 <https://unopengis.github.io/smartmaps>
- ⓘ No Bio Provided

Repositories

AMX Project 2024-04 PMTiles

AMX (Adopt Map XML) Project is a project to adopt open map data released by Japanese Ministry of Justice. This dataset is produced from the 3rd release in 2024-04. PMTiles Viewer should work on <https://protomaps.github.io/PMTiles/>?
url=https%3A%2F%2Fdata.source.coop%2Fsmartmaps%2Famx-2024-04%2FMojMa... [View More]

Provided By [@smartmaps](#) • Published on April 17, 2024

pmtiles amx

Japan GSI 1m GSD Terrain Tiles in PMTiles

測量法に基づく国土地理院長承認（使用）R 6JHs 133 Demo: <https://observablehq.com/d/c0a3f48cf7111cd2>
Provided By [@smartmaps](#) • Published on May 26, 2024

pmtiles

PMTiles terrain tiles from dem1a by Geospatial Information Authority of Japan

No Description Provided
Provided By [@smartmaps](#) • Published on May 28, 2024

pmtiles

FOIL4G Data Pack Release 1

FOIL4G (Free and Open Information Library for Geospatial) Data Pack Release 1
Provided By [@smartmaps](#) • Published on July 01, 2024

OCHA HDX

OCHA Services ▾

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Search Datasets

DATA | LOCATIONS | ORGANISATIONS | PRODUCTS ▾

ADD DATA

The Humanitarian Data Exchange

Find, share and use humanitarian data all in one place

LEARN MORE

FIND DATA

Search Datasets

19,337 DATASETS | 254 LOCATIONS | 2,042 SOURCES

HIGHLIGHTS

HDX DATASET DEEP DIVE WITH THE INTERNAL DISPLACEMENT MONITORING CENTRE

Tuesday, 26 November 2024 at 2pm CET
Register at bit.ly/data-idmc

OCHA centre for humdata IDMC

WEBINAR

HDX Dataset Deep Dive with IDMC

Number of people killed in the Gaza Strip

Month	Number of People Killed
Oct 2023	~5,000
Nov 2023	~10,000
Dec 2023	~15,000
Jan 2024	~20,000
Feb 2024	~25,000
Mar 2024	~30,000
Apr 2024	~35,000
May 2024	~38,000
Jun 2024	~40,000
Jul 2024	~42,000
Aug 2024	~43,000+
Sep 2024	~43,500
Oct 2024	~44,000
Nov 2024	~44,500

DATASET Central Bureau of Statistics data via HDX

Lebanon Crisis Page

OCHA HDX country page

OCHA Services | ? FAQ | Log in | Sign up | Switch to full desktop site

Search Datasets DATA LOCATIONS ORGANISATIONS PRODUCTS ADD DATA

HOME / LOCATIONS / PAPUA NEW GUINEA

Papua New Guinea

124 Datasets | 7 Followers | 36 Organisations

Key Figures

Population, total	Population density	GDP per capita, PPP (current international \$)	Land area
10.3mln	22	4.6k	452.9k
World Bank	World Bank	World Bank	World Bank
Data - Jan 01, 2023	Data - Jan 01, 2021	Data - Jan 01, 2023	Data - Jan 01, 2021

Datasets [108] | Archived Datasets[16] [?]

Filters

↗ Global IOM Displacement Tracking Matrix (DTM) from API
International Organization for Migration (IOM)
Time Period of the Dataset [?]: June 30, 2010-November 06, 2024 ... More
This dataset comes from the International Organization for Migration (IOM)'s displacement tracking matrix (DTM) publicly accessible API. This API allows the humanitarian community, academia, media, government, and non-governmental organizations to utilize the data collected by DTM. The DTM API only provides non-sensitive IDP figures, aggregated at the country, Admin ... More
100+ Downloads

OCHA HDX country page

OCHA Services | ? FAQ | Log in | Sign up | Switch to full desktop site

 Search Datasets DATA LOCATIONS ORGANISATIONS PRODUCTS ADD DATA

HOME / LOCATIONS / JAPAN

Japan

85 Datasets | 1 Follower | 27 Organisations   

Key Figures

Population, total	Population density	GDP per capita, PPP (current international \$)	Land area
124.5mln	344.8	50.2k	364.5k
World Bank	World Bank	World Bank	World Bank
Data - Jan 01, 2023	Data - Jan 01, 2021	Data - Jan 01, 2023	Data - Jan 01, 2021

Datasets [77] | Archived Datasets[8] [?] Filters 

Japan - Food Prices
WFP - World Food Programme
Time Period of the Dataset [?]: April 15, 2011-January 15, 2020 ... More
This dataset contains Food Prices data for Japan, sourced from the World Food Programme Price Database. The World Food Programme Price Database covers foods such as maize, rice, beans, fish, and sugar for 98 countries and some 3000 markets. It is updated weekly but contains to a large extent monthly data. The data goes back as far as 1992 for a few countries, ... More
 600+ Downloads

TONY BURKE

HDX COMMUNITY MANAGER, OCHA, UNITED NATIONS

INTRODUCING THE HUMANITARIAN DATA EXCHANGE



2024.02.19. 国際シンポジウム 「複合的危機における人道的データ交換システム：
リアルタイムなクライシスマッピングと長期トレンド分析」

UNDP GeoHub

The screenshot shows the UNDP GeoHub homepage. At the top left is the UNDP logo and the text "DATA FUTURES EXCHANGE" above "GeoHub". To the right are navigation links: HOME, DATA, MAPS, TOOLS, SUPPORT, and a red "SIGN IN" button. Below the navigation is a map of East Africa, specifically Uganda and Kenya, with county boundaries and names like Kampala, Jinja, Mbale City, Eldoret, Kakamega, Kisumu, Nakuru, Meru, Garissa, Arusha, and Moshi. The map uses a color-coded legend. At the bottom of the map are three white call-to-action boxes:

- Maps**
Explore community maps created and shared by users or create your own map
[EXPLORE >](#)
- Datasets**
Explore data catalogue or upload your datasets
[EXPLORE >](#)
- User Guide**
User guide is available to describe core features.
[READ MORE >](#)

At the very bottom of the page is a footer bar with the URL <https://docs.undpgeohub.org> and the copyright notice "United Nations Development Programme (UNDP) | © CARTO, © OpenStreetMap contributors".

SMG is active in GitHub issues

The screenshot shows the GitHub Issues page for the repository "UNOpenGIS". The page displays 40 open issues. The search bar at the top contains the query "is:issue is:open". Below the search bar are filters for Labels (13) and Milestones (6), and a "New issue" button. The issues are listed in descending order of creation date. Each issue card includes the title, labels, and a comment count. Some issues have specific icons and descriptions related to events or groups.

Issue Title	Labels	Comments
NLP2025 チュートリアル登壇 priority/MUST	priority/MUST	2
(event) 「オープンソースAIの定義 v1.0」リリース記念解説会 information priority/MUST	information priority/MUST	0
Smart Maps Meetup Weekly meetup	meetup	0
(Hackathon) Satellite Data Days information priority/MUST	information priority/MUST	3
TRIDENT Charites v0.0.1, Deployed priority/SHOULD	priority/SHOULD	1
GitHub Learning Sandbox (Research prototype) information priority/MAY waiting/assign	information priority/MAY waiting/assign	0
UN Smart Maps Group懇親会 priority/SHOULD	priority/SHOULD	2

**End of UN Smart Maps part
Questions and
Suggestions?**

Smart Maps approach in **JICA Technical Cooperation projects**

CORS

Continuously Operating
Reference Stations



NSDI

National Spatial Data
Infrastructure



**JICA Technical
Cooperation is
about Capacity
Development**

Three-layer capacity model

- 1. Technical Capacity**
- 2. Core Capacity**
- 3. Enabling Environment**

1. Technical Capacity

Ability to use technologies

GIS, programming

GNSS positioning,
remote sensing

Building workflows

2.Core Capacity

**Organizational
or individual
habits and
capabilities**

Knowledge sharing

Initiatives

Planning, budget
requesting

3. Enabling Environment

External supporting factors

Frameworks and standards

Open data policy

International cooperation

**JICA
Technical
Cooperation
Projects are
not only
about
Technical
Capacities.**

**Building
Core
Capacities
and Enabling
Environment
are to be
more
emphasized
for values.**

**Why, How,
What**

Start with why.

Value

Values are created in the strategic use.

Strategic Use of Geospatial Information

Operation

Sense-making

Decision-making

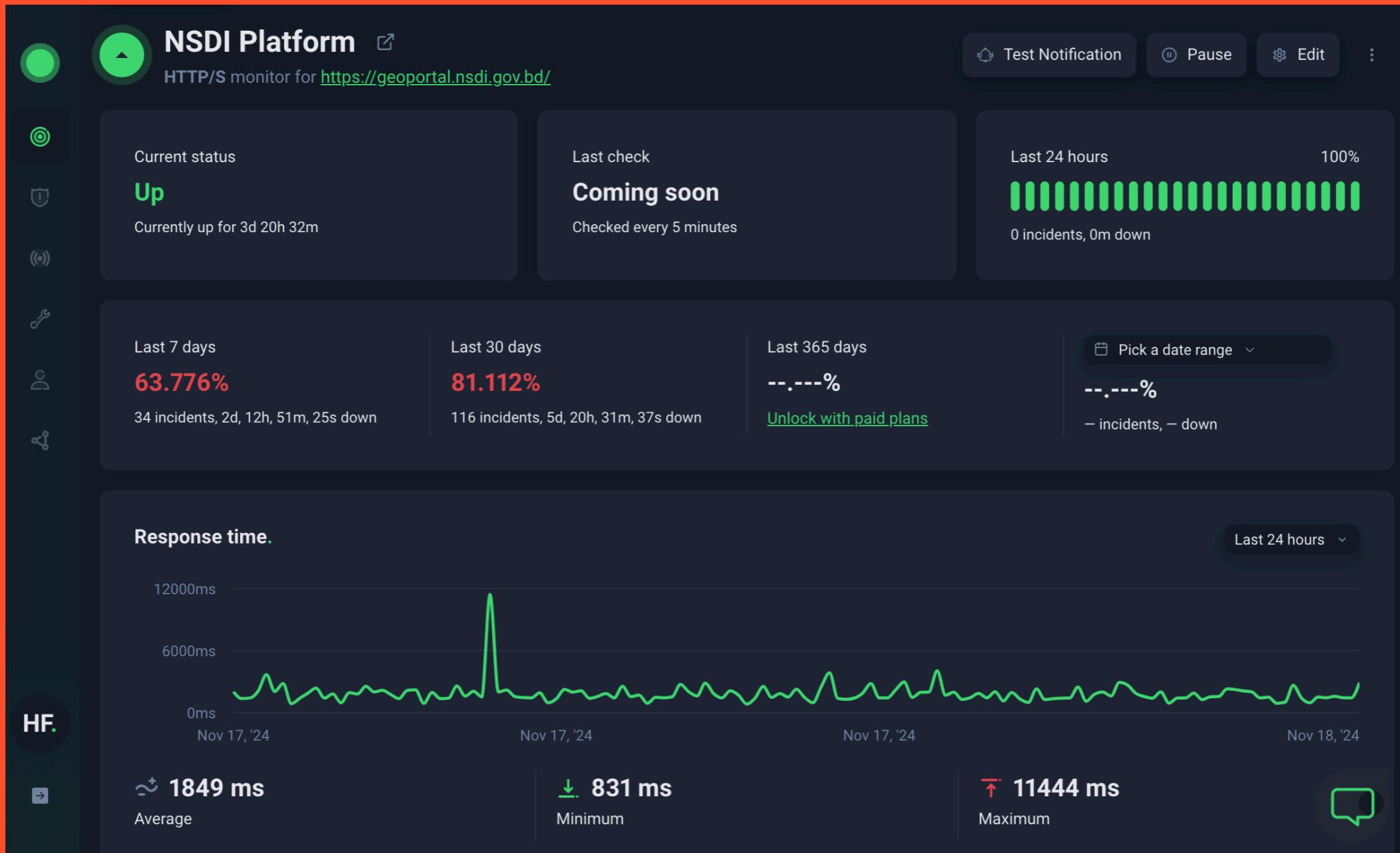
Smart Maps can help

1. Higher availability
2. Flexible app

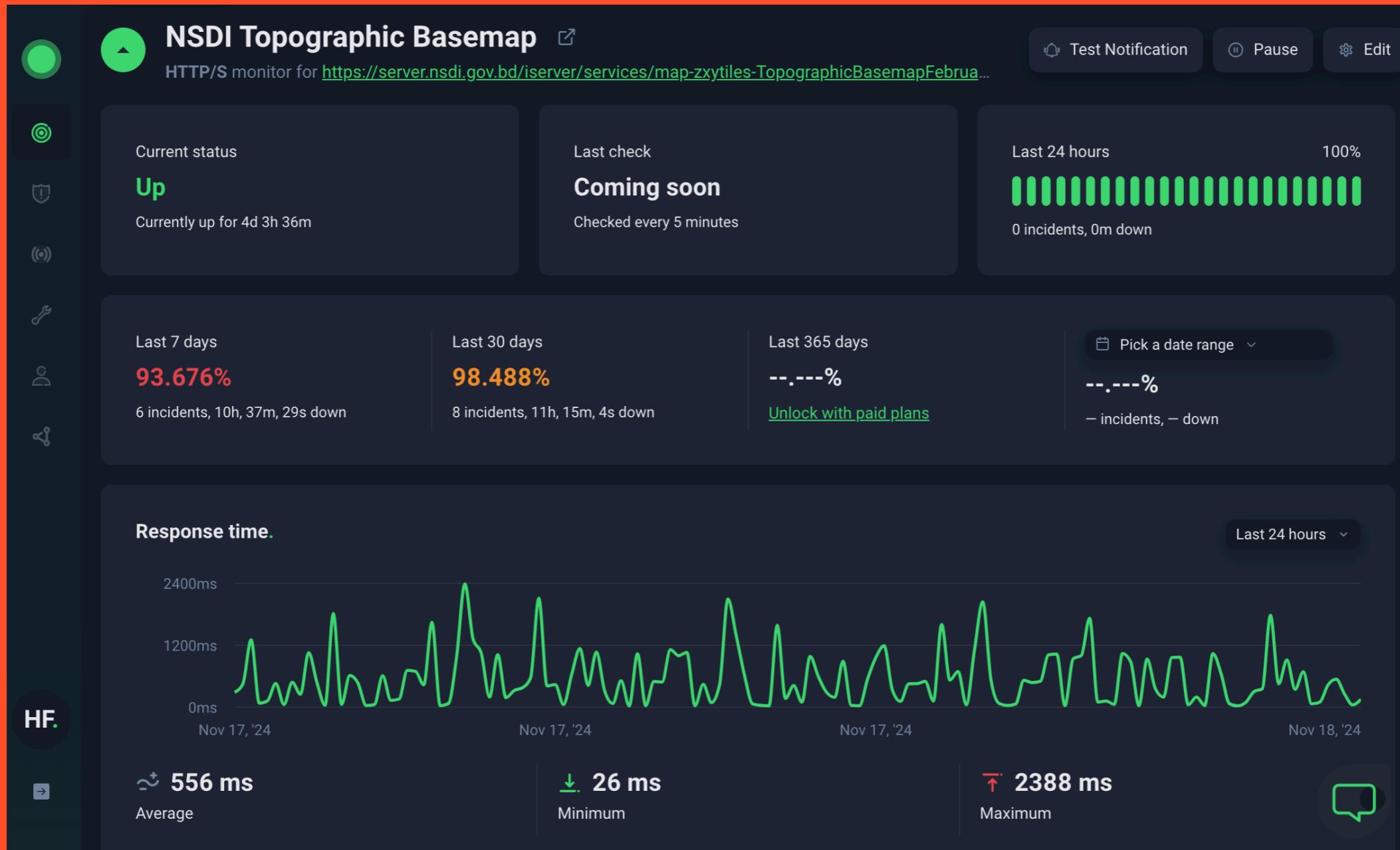
development

*We need to improve the availability of
the service implemented in the JICA
technical cooperation.*

80% availability of NSDI platform



98% availability of basemap services



We can make
simpler service
more distributed
with Smart Maps
approach

Hosting options

We can host cloud-native files on

1. On-premise servers
2. Object storage
3. Existing platforms
4. Portable servers
 - Smart Maps Portable
5. Distributed servers
 - InterPlanetary File System (IPFS)

Smart Maps can help

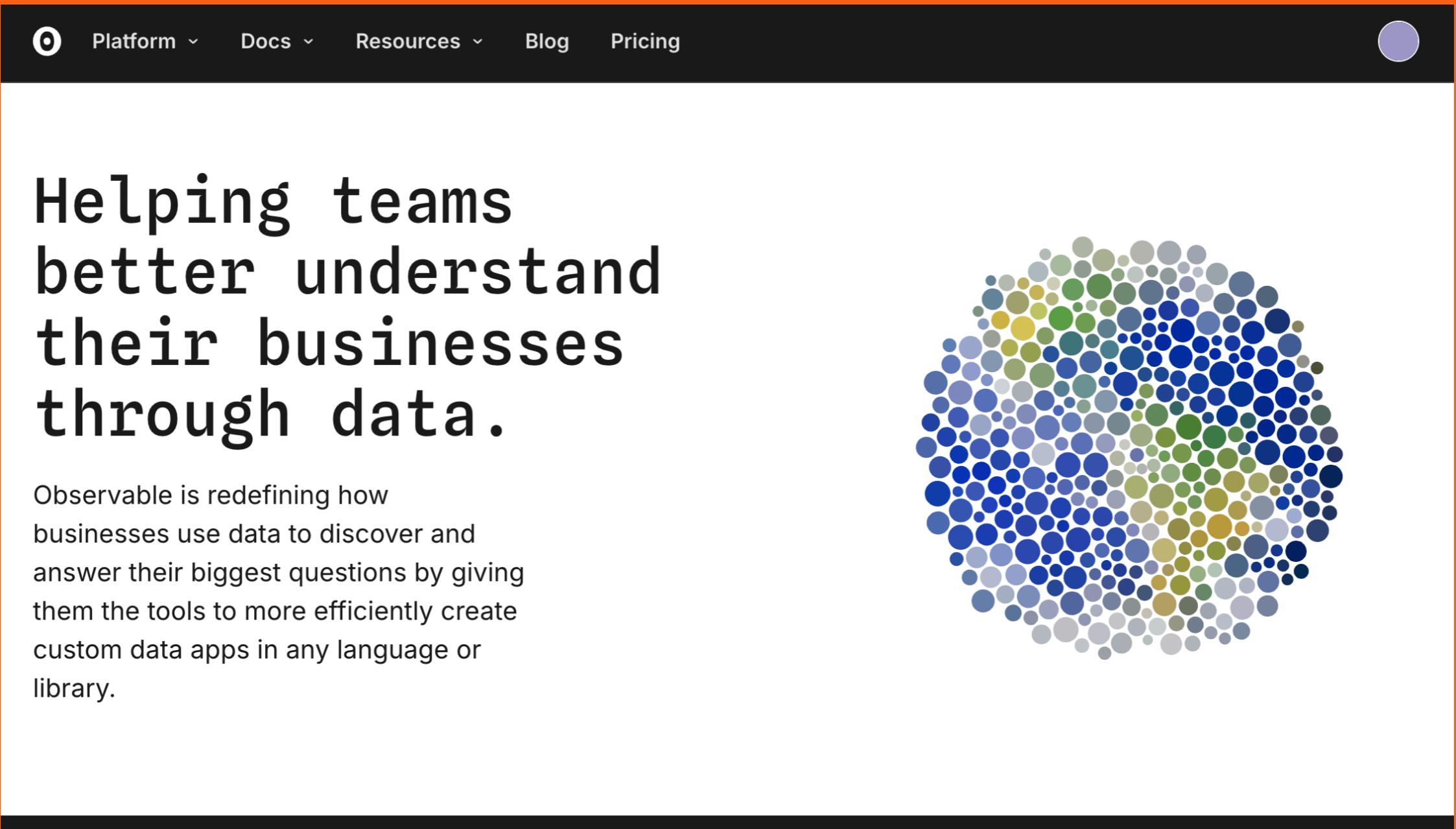
1. Higher availability

2. Flexible app

development

Flexible app development
web-based
AI-assisted
open *where*
possible

<https://observablehq.com/about>



The screenshot shows the 'about' page of the ObservableHQ website. At the top is a dark navigation bar with the Observable logo, 'Platform', 'Docs', 'Resources', 'Blog', 'Pricing', and a purple user icon. The main content area has a white background. On the left, large black text reads: 'Helping teams better understand their businesses through data.' Below this is a smaller paragraph: 'Observable is redefining how businesses use data to discover and answer their biggest questions by giving them the tools to more efficiently create custom data apps in any language or library.' To the right is a circular graphic composed of numerous colored dots in shades of blue, green, and grey, arranged in a roughly triangular shape pointing upwards.

Platform Docs Resources Blog Pricing

Helping teams better understand their businesses through data.

Observable is redefining how businesses use data to discover and answer their biggest questions by giving them the tools to more efficiently create custom data apps in any language or library.



You

Recents

Starred

Notebooks

Notebooks

85

Collections

0

Suggestions

0

Trash

0

Resources

Schedules

0

Secrets

0

Databases

0

Embed keys

0

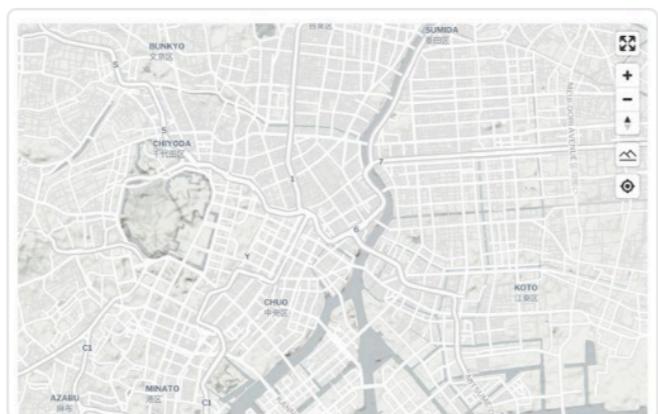
Action

Viewed

Access

All

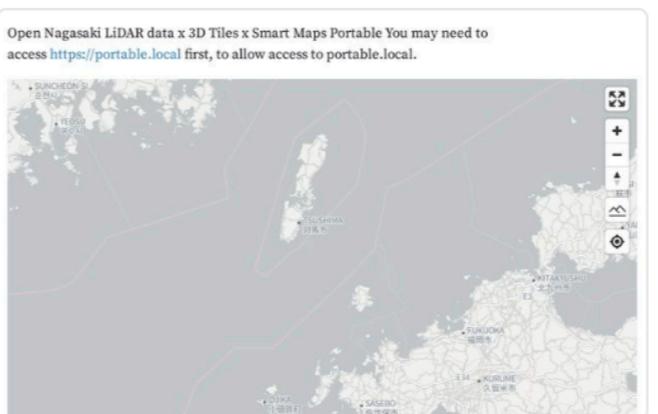
Showing 1-30 of 64 recents

[◀ Prev](#) [Next ▶](#)

Public

**New Template w/ "Layer Cells"
(2024-10)**

You viewed Oct 23



Unlisted

Free Nagasaki 2.2

You viewed Oct 22



Public

**NSDI Topographic Basemap +
Smart Maps global terrain
tiles**

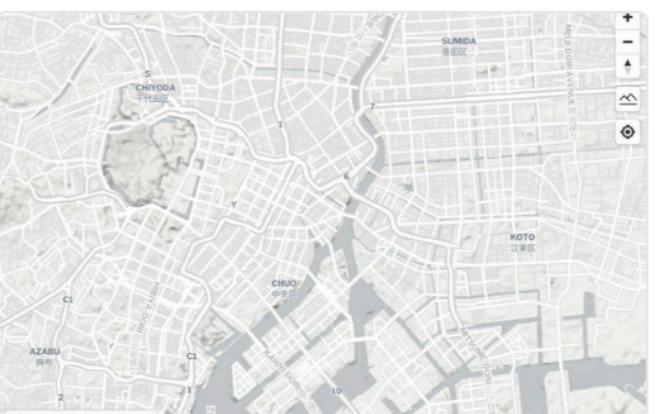
You viewed Oct 22



Public

Free Nagasaki 2.1

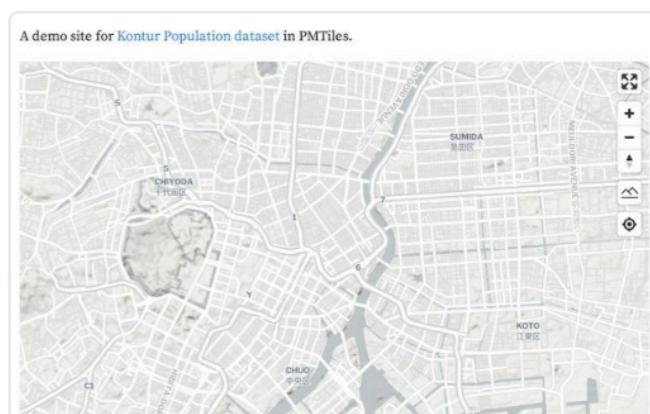
You viewed Oct 22



Public

kpop-pmtiles

You viewed Oct 22



Public

**kpop-pmtiles + sticky_note_map
(not working properly)**

You viewed Oct 22



charites-like-opfs

charites-like-opfs

- style.yml
- layers
 - background.yml
 - boundary-land-level-2.yml
 - boundary-land-level-4.yml
 - highway.yml
 - landcover-park-green.yml
 - place-country-2.yml
 - place-settlement.yml
 - road-major.yml
 - water.yml

```
1  version: 8
2  name: Charites Like OPFS Style
3  metadata: {}
4  sources:
5    openmaptiles:
6      type: vector
7      url: https://tile.openstreetmap.jp/data/planet.json
8      sprite: https://openmaptiles.github.io/osm-bright-gl-style/
9      glyphs: https://tile.openstreetmap.jp/fonts/{fontstack}/{r
10   layers:
11     - !!inc/file layers/background.yml
12     - !!inc/file layers/water.yml
13     - !!inc/file layers/landcover-park-green.yml
14     - !!inc/file layers/highway.yml
15     - !!inc/file layers/road-major.yml
16     - !!inc/file layers/boundary-land-level-4.yml
17     - !!inc/file layers/boundary-land-level-2.yml
18     - !!inc/file layers/place-settlement.yml
19     - !!inc/file layers/place-country-2.yml
```



Save (Ctrl + S) ファイルシステムを初期化しました

charites-like-opfs

- style.yml
- layers
 - background.yml
 - boundary-land-level-2.yml
 - boundary-land-level-4.yml
 - highway.yml
 - landcover-park-green.yml
 - place-country-2.yml
 - place-settlement.yml
 - road-major.yml
 - water.yml

```
3   source: openmaptiles
4   source-layer: place
5   filter:
6     - all
7     - - '=='
8       - class
9       - country
10  layout:
11    text-field: '{name:en}'
12  text-font:
13    - Open Sans Regular
14  text-max-width: 6.25
15  text-size:
16    stops:
17      - - 1
18      - 11
19      - - 4
20      - 17
21  text-transform: uppercase
22  visibility: visible
23  paint:
24    text-color: '#1e00ff'
25    text-halo-blur: 1
26    text-halo-color: rgba(255,255,255,0.8)
27    text-halo-width: 2
```



Hosting on Source Cooperative

SOURCE COOPERATIVE

Search BROWSE SIGN IN / REGISTER

FOIL4G Data Pack Release 1

FOIL4G (Free and Open Information Library for Geospatial) Data Pack Release 1
Provided By [@smartmaps](#) • Published on July 01, 2024
[pmtiles](#)

Smart Maps Global Elevation Tiles

WEBP elevation tiles, with mapbox pixel packing, packaged in PMTiles. Source data are NASADEM and Global Map data. Please see <https://qiita.com/T-ubu/items/c7bb5697b51f245ef163> for technical details. Observable demo is <https://observablehq.com/d/652ef8ca26776146>.
Provided By [@smartmaps](#) • Published on April 06, 2024
[pmtiles](#)

Mobility Data GTFS PMTiles

A single PMTiles file created from all active GTFS data from Mobility Database Catalog from Mobility Data. This is a work in progress. Data will be updated. Downloading and conversion script is at <https://github.com/optgeo/mmx-gtfs>.
Provided By [@smartmaps](#) • Published on April 28, 2024
[pmtiles](#) [gtfs](#)

Smart Maps LiDAR 3D Tiles from Open Nagasaki

UN Smart Maps Group has created a single 3D Tiles dataset from all LiDAR data from [Open Nagasaki](<https://opennagasaki.nerc.or.jp/>). Demo site: <https://observablehq.com/d/c4d563b1731f286f>. This is still a work in progress.
Provided By [@smartmaps](#) • Published on April 14, 2024
[3d tiles](#) [lidar](#)

OpenCellid PMTiles - FOIL4G (Free and Open Information Library for Geospatial)

data_id: opencellid_full license: CC-BY-SA-4.0 attributions: - OpenCellID - <https://opencellid.org/> description: OpenCellID is the world's largest collaborative community project collecting GPS positions of cell towers for various uses. data_format: csv file_format: gzipped_csv file_size: 105MB ... [View More]
Provided By [@smartmaps](#) • Published on June 16, 2024

SDG11 app

Indicator 11.2.1 Proportion of population that has convenient access to public transport

Indicator 11.3.1 Ratio of land consumption rate to population growth rate

→ kpop-pmtiles



Hidenori FUJIMURA

UN Smart Maps Lead. We keep web maps open for a better world.

Share...



Public

By Hidenori FUJIMURA

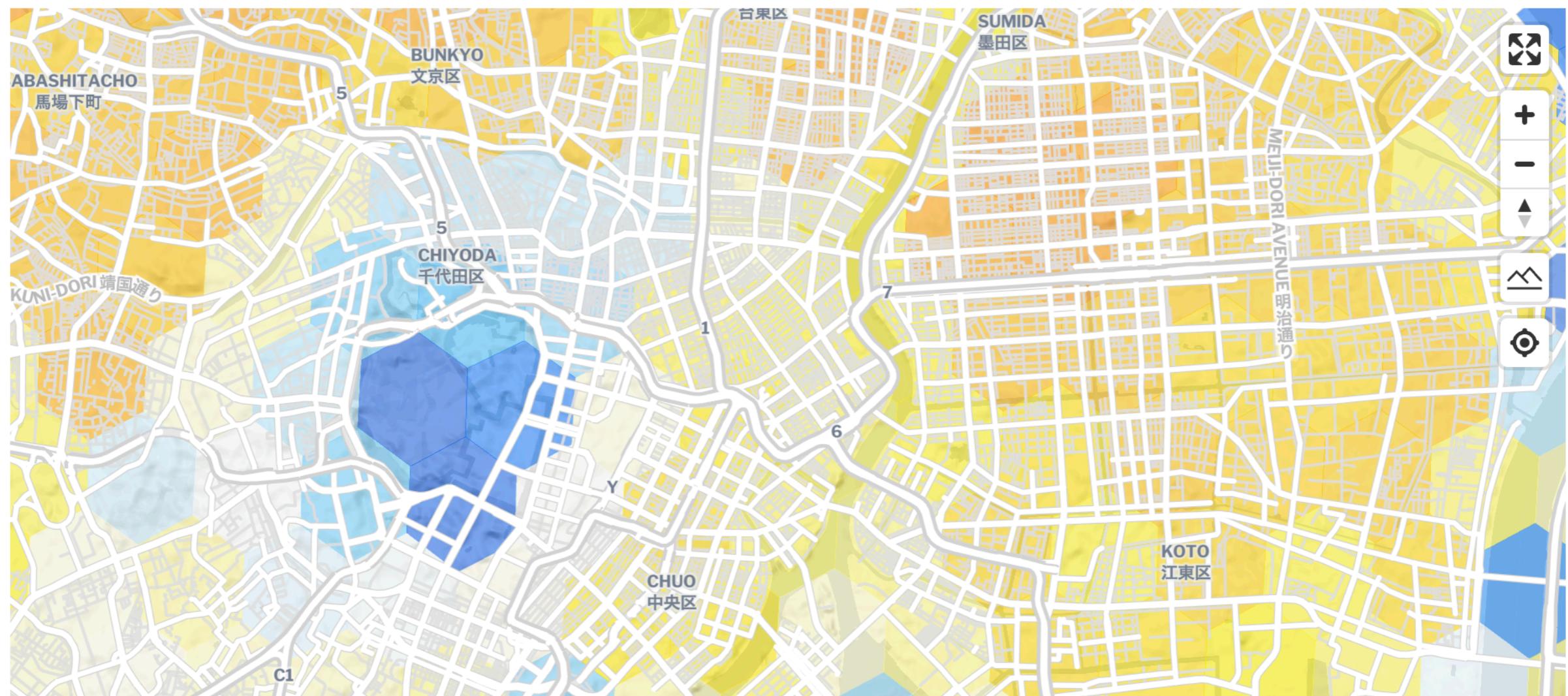
Edited Aug 27

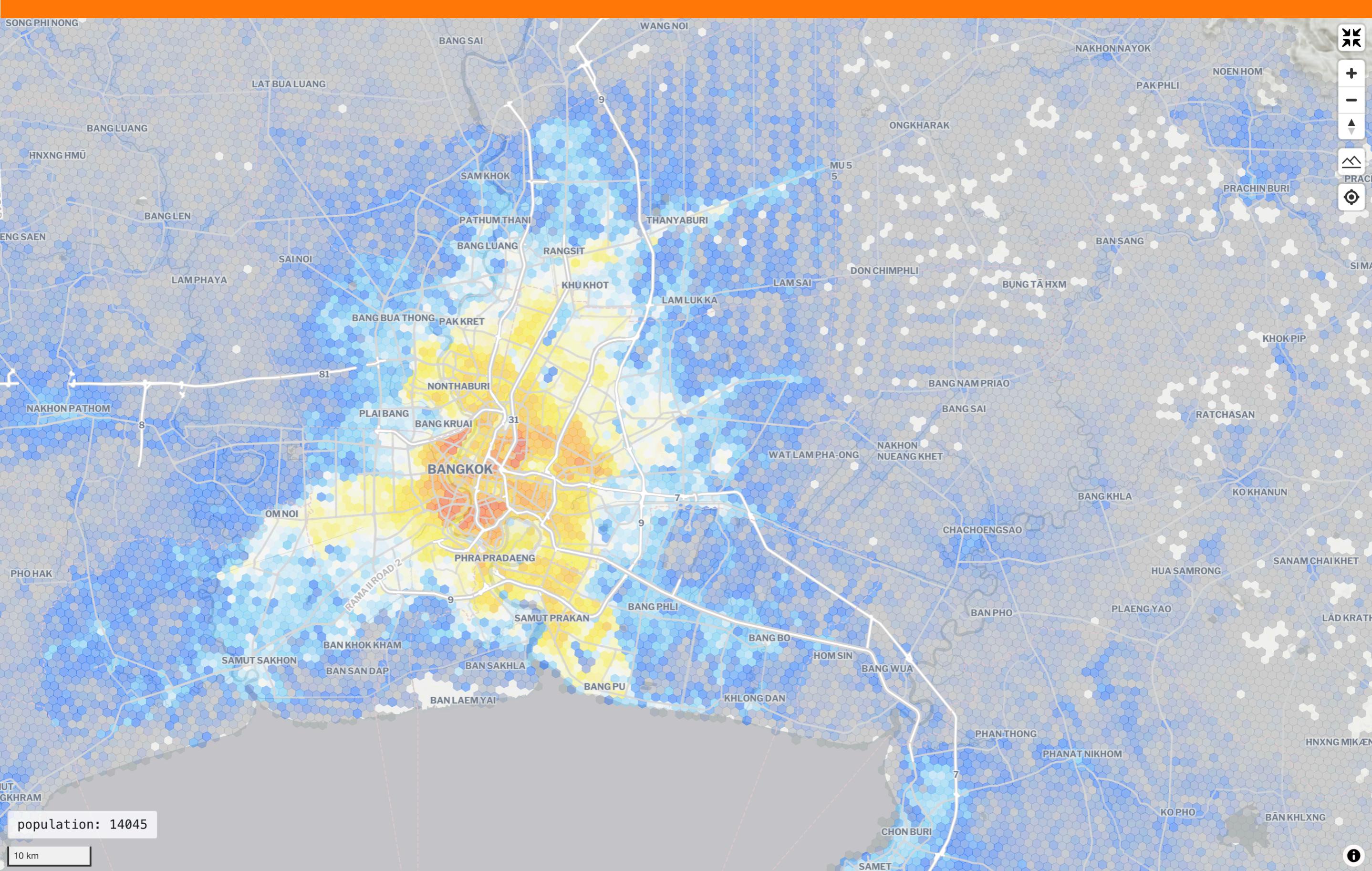
Fork of Automaptic 2024-08 • 2 forks

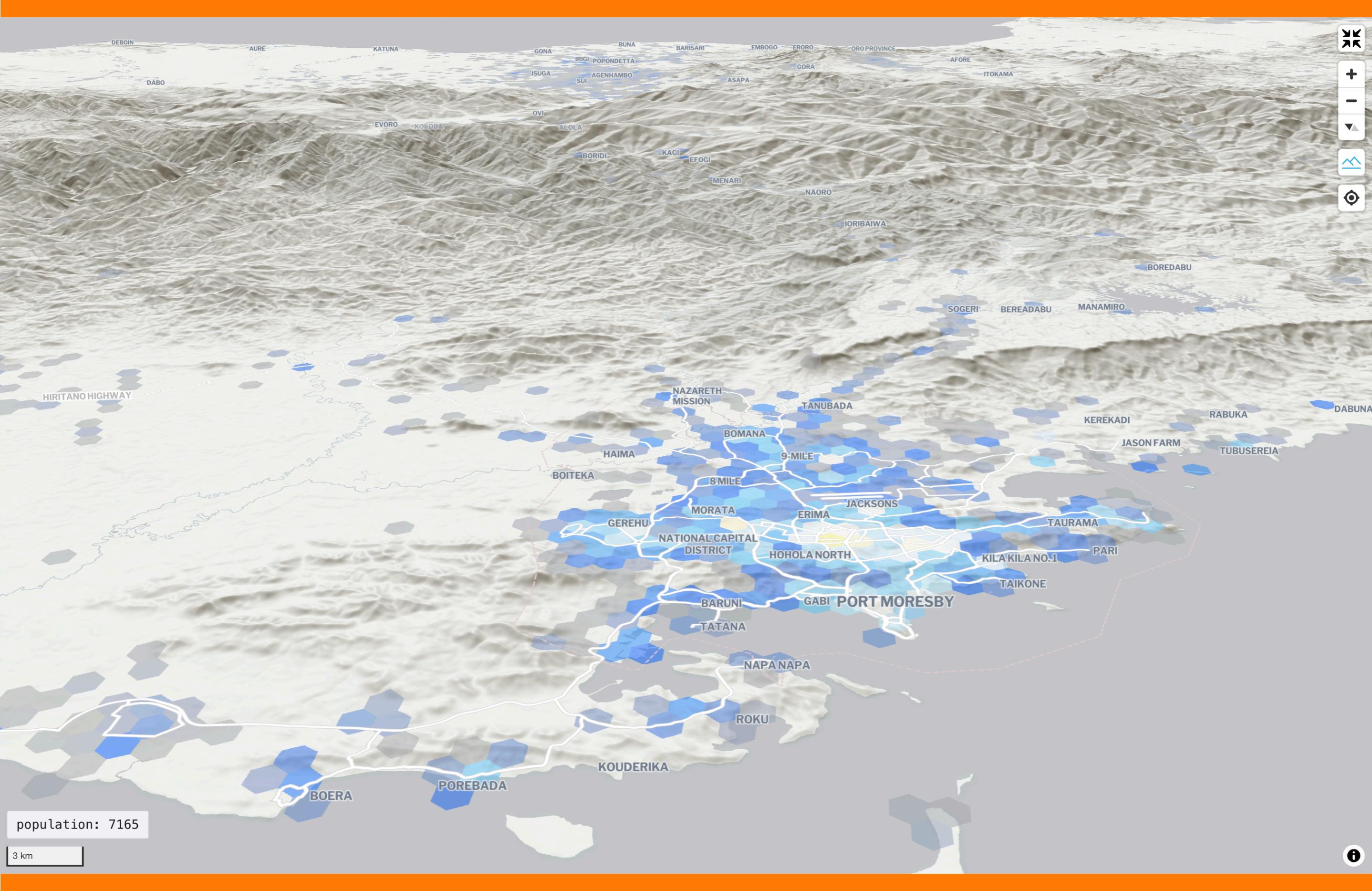
kpop-pmtiles

A demo site for [Kontur Population dataset](#) in PMTiles.

Current Issues







**Prototyped
with Open Data
Better with
Your Data**

Strategic Use of Geospatial Data

operation

sense-making

decision-making

**End of Smart Maps approach
in JICA Technical
Cooperation project part**

**Questions and
Suggestions?**

Preparation for
Taro
Matsuza's
session on web
maps

WiFi

SSID

smartmaps

password

900913coredumped

- Open Windows PowerShell
- ping j2213

Find your machine

ssh local@m3XX

top

country	machine
	m334
	m327
	m349
	m331
	m336
 A	m353
 M	m328
	m355
	m329
	m342
	m321

Session Review

[Topic 1] UN Open GIS
Initiative

**Initiative for
Hybrid GIS**

[Topic 2] UN Smart Maps Group

**Keep web maps
open
for a better world**

**Test new
technologies
for future geospatial applications**

[Topic 3] Smart Maps approach in JICA
Technical Cooperation projects

3 layer capacity model
technical, core, enabling

Strategic use
operation, sense-making, decision-making

Cloud-native
for higher availability

[Objective 1] What contributions can be made for the UN Open GIS Initiative?

Anything you can bring to help.

Do-ocracy: a system where decisions and influence are earned through action and contributions, empowering those who do the work to shape the project.

[Objective 2] What benefits you can get from the UN Open GIS Initiative?

Smart Maps

approach

make the best use of *open*

Cloud-native

Strategic use



Keep in touch

Hidenori Fujimura

- GitHub (hfu)
- LinkedIn
- Facebook
- fujimura.hidenori@jica.go.jp