



2023-11-29T16:30/16:50 (20 min.)  
@Baseurak Hall, Seoul Citizens Hall  
UN Open GIS Initiative Joint Workshop

# UN Smart Maps

Hidenori



2023-11-xxTxx:xx/xx:xx (xx min.)  
@xxx  
FOSS4G Asia 2023

# Smart Maps for the United Nations, with the United Nations

Hidenori



2023-12-12T13:10/15:20 (60 min. x 2)  
@Geospatial Information Authority  
JICA Program

# UN Open GIS Initiative

Hidenori



2023-12-13T10:40/11:40 (60 min.)  
@Geospatial Information Authority  
JICA Program for Bhutan

# UN Open GIS Initiative

Hidenori

1. 7<sup>th</sup> Domain Working Group under UN Open GIS Initiative.
  - The initiative is to identify and develop an open-source GIS bundle that meets the requirements of UN operations.
2. Volunteer group of engineers, educators, and students among others.
3. Open community of practice.
  - [Do-ocracy](#) which is common in open-source software community.
4. We define Smart Maps as application of modern web map technologies for informed decision.
5. Vision: keep web maps open for a better world.
6. Mission: test new technologies for future geospatial operations.

- 2016: UN Open GIS Initiative
  - Started a base web map toolkit project as a contribution from a mapping agency.
  - Thanks to my chief Mr. Eom Kyoung-Soo of UN Geospatial Information Section.
- 2018: UN Vector Tile Toolkit (under DWG4)
  - An open-source toolkit to produce, host, style and optimize base map vector tiles.
  - Thanks to our DWG chair Prof. Li Ki-Joune.
- 2022: UN Smart Maps Group (as DWG7)
  - Participants bring their objectives: base maps, 3D, LLMs, documentation, etc.



The screenshot shows the homepage of the UN Smart Maps website. At the top, there is a navigation bar with the UN Smart Maps logo, links for 'About', 'Events', 'Resources', and 'Get Involved', a language selector set to 'English', a 'GitHub' link, and a search bar. The main header is a blue banner with the text 'UN Smart Maps' and the tagline 'Keep web maps open for a better world'. Below this is a button that says 'What is UN Smart Maps?'. The main content area is divided into three columns, each with an illustration and a heading: 'Open License' (with a world map illustration), 'Open Practice' (with an illustration of a person and a globe), and 'Open Community' (with an illustration of two people and a globe). Each column has a short paragraph of text below the heading.

Open License



Open Practice



Open Community

# Open Community helping Secured Data <sup>8</sup>

**Secured Data**

We transfer technology and respect secured data.



**Open Community**

We test new open-source technologies with open data.

**Open Data**



1. UN Smart Maps Bazaar
  - Unlimited import, portable anywhere
  - PMTiles, 3D Tiles, Inter Planetary File System (IPFS), Raspberry Pi
2. UN Smart Maps Agent
  - (Open-source) LLMs for human-map interface, multilingualization, etc.
3. Communications and Community Strategy
  - Meetups and web sites
4. Core Toolkit, Spatial ID implementations (“Rhea”)

- あとでかく
- UNVT Portable (Raspberry Pi), IPFS, optgeo, 等が複雑に絡んでいる。

# UN Smart Maps Agent

- Use of LLMs for human-map interface.
- Open source LLMs.

# Communications and Community strategy

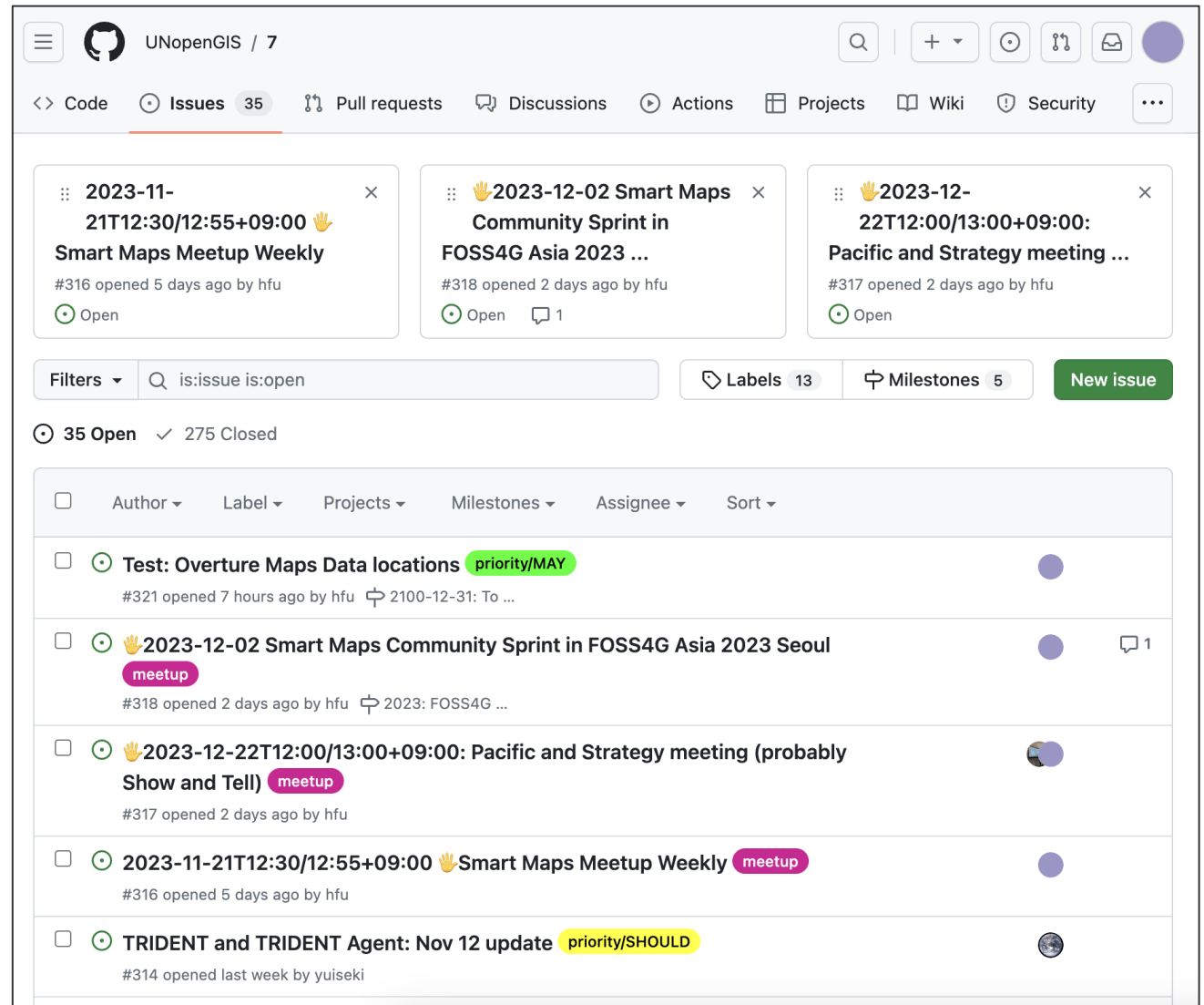
- Smart Maps Group website <https://unopengis.github.io/smartmaps>
- Monthly meetings – for Pacific time zones.
- Weekly meetings – 30 minutes every Tuesday.

- w/ UN Global Service Center
- w/ UN Missions (pilot project to be formulated)
- w/ Projects and trainings by Japan International Cooperation Agency (JICA)
- w/ Local governments (through non-profit organizations (NPO))
- Through webinars, tech blogs, and YouTube.
- Some materials are on GitHub.

- Practitioners (“web map engineers”)
  - OpenStreetMap Foundation Japan
  - Global is not always about small scale.
- Mappers
  - e.g. Annual Humanitarian Mapathon ([mapathon.la](http://mapathon.la); 2024-04?)
- National mapping agencies
  - ASIG (Albanian national mapping agency): vector tile prototype in a JICA project.
  - JICA knowledge co-creation programs.

- Commit on GitHub.
  - The best way known to work.
  - Anyone can join.
- Community Sprints

<https://github.com/unopengis/7/issues>



UNopenGIS / 7

Code Issues 35 Pull requests Discussions Actions Projects Wiki Security

2023-11-21T12:30/12:55+09:00 Smart Maps Meetup Weekly #316 opened 5 days ago by hfu Open

2023-12-02 Smart Maps Community Sprint in FOSS4G Asia 2023 ... #318 opened 2 days ago by hfu Open 1

2023-12-22T12:00/13:00+09:00: Pacific and Strategy meeting ... #317 opened 2 days ago by hfu Open

Filters is:issue is:open Labels 13 Milestones 5 New issue

35 Open 275 Closed

<input type="checkbox"/>	Author	Label	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>	hfu	priority/MAY				
<input type="checkbox"/>	hfu	meetup				1
<input type="checkbox"/>	hfu	meetup				
<input type="checkbox"/>	hfu	meetup				
<input type="checkbox"/>	yuisseki	priority/SHOULD				

- Director, Research Planning, Geography and Crustal Dynamics Research Center, Geospatial Information Authority of Japan
- Mission: Promote partnership through geospatial information.
- Vision: Create a world where map engineers prosper.



# Potential new areas

- Digital Twin
- Metaverse
- Multilingualization with open source LLMs
- Sensor integration