Experiments and Exercises Combining Efforts for Geospatial Data Sharing

Oki Shoichi, co-chair, UN-GGIM WG-Disasters
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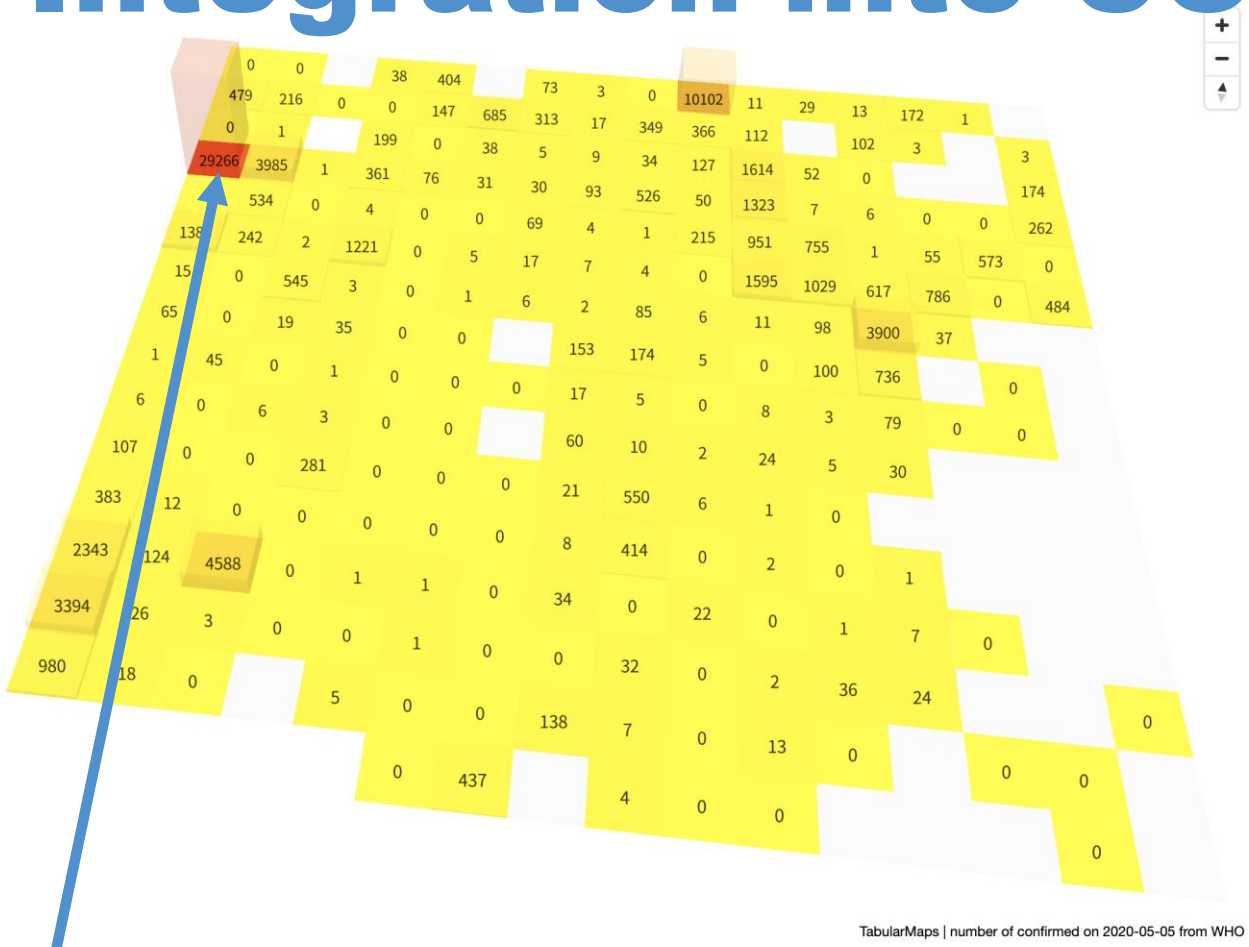
UN-GGIM WG-Disasters

1. Working Group on Geospatial Information and Services for Disasters
2. established by decision 5/110 at UN-GGIM 5 in 2015-05
3. consists of Member States, Int'l Organizations, NGOs, academia, private sector, plus UNDRR, UN-SPIDER, and UNITAR-UNOSAT.
4. 2 co-chairs: Jamaica and Japan
5. 4 task groups plus an Assessment Tool
   A) Strategic Framework on Geospatial Information and Services for Disasters
   B) Scenario-based Exercises (Japan)
   C) Common Statistical Framework on Disaster-related Statistics (Jamaica)
   D) Supporting Integrated Geospatial Information Framework (New Zealand)

Integration into COVID-19 response

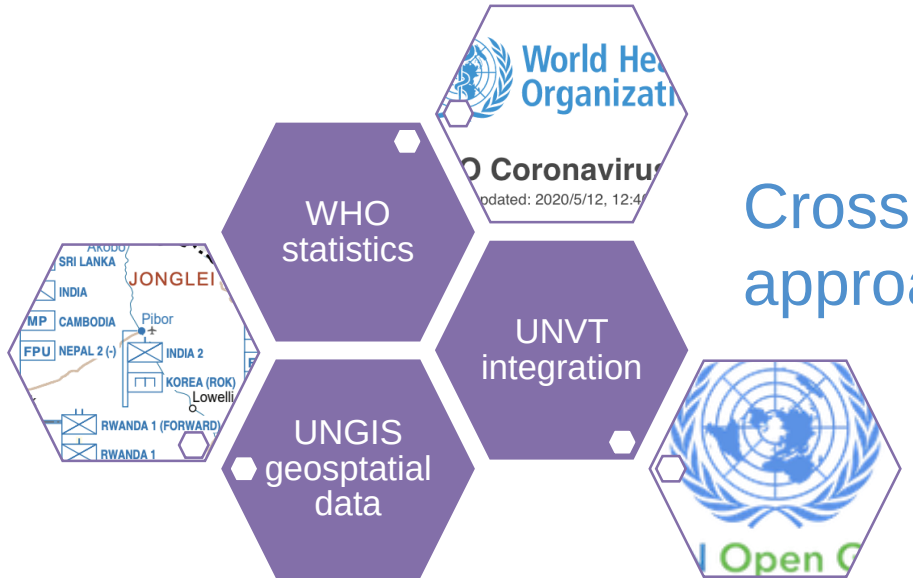


Each square represents a Member State.

United States of America:
29266 confirmed

Squares to be replaced by UNGIS.

- Joint project of UN Open GIS Initiative and UN Geospatial Information Section (UNGIS).
- Geospatial-statistics integration using WHO statistics.
- Integration through interoperable web map technology - the United Nations Vector Tile Toolkit (UNVT)

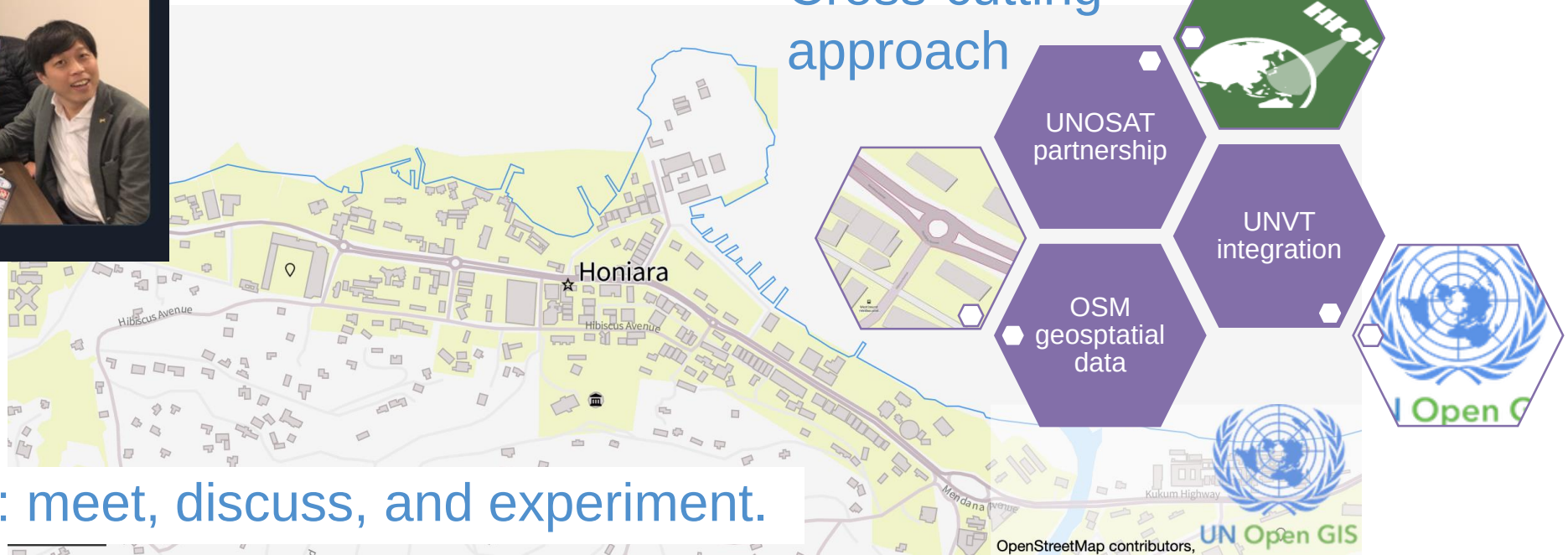


Cross-cutting approach

Challenge: combine efforts in reality

- ✓ COVID-19 postponed UN-GGIM WG-Disasters Conference 2020 in Tokyo (February 2020).
- ✓ We kept on: joint project of UNITAR-UNOSAT and UN Open GIS Initiative (UN Vector Tile Toolkit)
- ✓ OSM Vector Tiles for CommonSensing partners.

Cross-cutting approach



Recommendations: meet, discuss, and experiment.

How can countries with limited geospatial resources and capabilities utilize them best?

What is the support other countries can give?

Partnerships and Innovation!

Use innovative (interoperable and efficient) technology, and combine efforts through equal partnership, starting from **Experiments**.

SDG #17
IGIF SP 7

Strategic Pathway 7

Partnerships

SDG #9
IGIF SP 5

Strategic Pathway 5: Innovation *(forthcoming)*

UNVT promotes partnerships and innovation via interoperable and efficient ICT.

Participants can give each other by open practices including **Exercises**.

Leaflet version 20200227
(early access)

UN Open GIS
INITIATIVE

Misora (tbd)

Modern web map server on a single-board PC (Raspberry Pi)

powered by the United Nations Vector Tile Toolkit (UNVT)

Recent activities with UNVT

2018 -12	OSGeo.JP Workshop for UN Vector Tile Toolkit in FOSS4G Asia 2018
2019 -06	UN OICT-PM Japan Joint Event on Partnership in Geospatial Information & Technology for United Nations Operation
2020 -XX	UN-GGIM WG-Disasters Conference 2020 (exercise using Misora)

The UNVT community

GeoThings

Geospatial Information Authority of Japan

mapbox

Mapple On

National Astronomical Observatory of Japan

National Institute for Agro-environmental Sciences

OSGeo Japan Chapter

School of Global Studies and Collaboration, Aoyama Gakuin University

UN Geospatial Information Section

UN Global Service Centre

See also

UNVT GitHub
https://github.com/un-vector-tile-toolkit
UN Open GIS Initiative website
http://unopengis.org

The United Nations Vector Tile Toolkit supports SUSTAINABLE DEVELOPMENT GOALS

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

17 PARTNERSHIPS FOR THE GOALS

SDGs Action Plan 2020 of the Governement of Japan promotes Geospatial Partnerships. 6

Misora, UNVT and UN Open GIS

Misora is a modern web map server implemented on a $35 single-board PC called Raspberry Pi. Misora can run without Internet. Misora consumes only $1 worth of electricity per month. Misora keeps your geospatial information in your hands while it enables dissemination.

Misora was designed for a demo of, and for capacity building on the **United Nations Vector Tile Toolkit (UNVT)**. You can produce, host, style, and optimize basemap web maps taking full advantage of modern Open Source vector tile technologies.

Major subprojects of UNVT includes:

1. UNVT deployment at UN Global Service Centre (UNGSC) for UN data dissemination
2. GSI Maps Vector - the next generation web map service from the Geospatial Information Authority of Japan (GSI)
3. Misora - UNVT on Raspberry Pi

UNVT is a project under the **UN Open GIS Initiative**. The initiative was established in 2016 with the aim to identify and develop Open Source GIS bundle that meets the requirements of the UN, taking full advantage of the experience of the contributing partners and open source community.

Misora contains open geospatial data captured and prepared by GSI for Kawagoe area in Japan, in response to Typhoon Hagibis in 2019.

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