



UN Open GIS Monthly VTC

10 December 2025

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Agenda

1. Comments by co-chairs, introduction of new participants
2. **UNDP use cases leveraging open-source GIS infrastructure (GeoHub)** — Ioan Ferencik
3. DWG and pilot project reports — leads; descending order
 1. DWG-8: **Open-source Implementation of IGIF** – #Ariel, Horacio
 2. DWG-7: **Smart Maps** – Hidenori, Diego, #Timur
 3. DWG-6: **OpenDroneMap and 3D** – Stephen, Catalina, Davide, #Cung
 4. DWG-5: **Geo-AI and Analytics** – Zhongxin, Maria, Andrea, #Cung
 5. DWG-2: **Capacity Building** – Ivan, Susan, Diego
 6. DWG-1: **Hybrid GIS platform** – Timur, Zeeshan, Epa/Rodwell, Akbar, #Cung
 1. Mobile GIS Solutions – Epa/Rodwell, Zeeshan, Cung
 2. UNMISS Story Map – Zahurul/Akbar/Debasish, Timur
4. Any other business



DWG-7: Smart Maps

Keep web maps open. Test new technologies. Practice software freedom.



DWG7: Progress of the month

- **Solutions “in-da-house”** – we test new technologies.
 - We install solutions on **Raspberry Pi** devices, assisted by GenAI.
 - [GeoSight in-da-house](#): Successful with Docker, trying [without Docker](#).
 - [uMap in-da-house](#): Successful.
 - In the pipeline: GeoRepo in-da-house, ChatMap in-da-house
- We collaborate with **HOT**, **GeoThings**, and AERO TOYOTA through **JICA Quick Mapping Project**.
 - Next slides.



Mapping our world together



DONATE



WHAT WE DO

OUR WORK

TOOLS & DATA

NEWS

OPEN MAPPING HUBS

COMMUNITY & ORGANIZATION

PARTNER WITH US

GET INVOLVED



News — 07 May, 2025

Mapping Freetown from Above: How a City and its Residents are Producing their Own Aerial Imagery Datasets

Posted by



[Mariana Marín](#)



[Pete Masters](#)



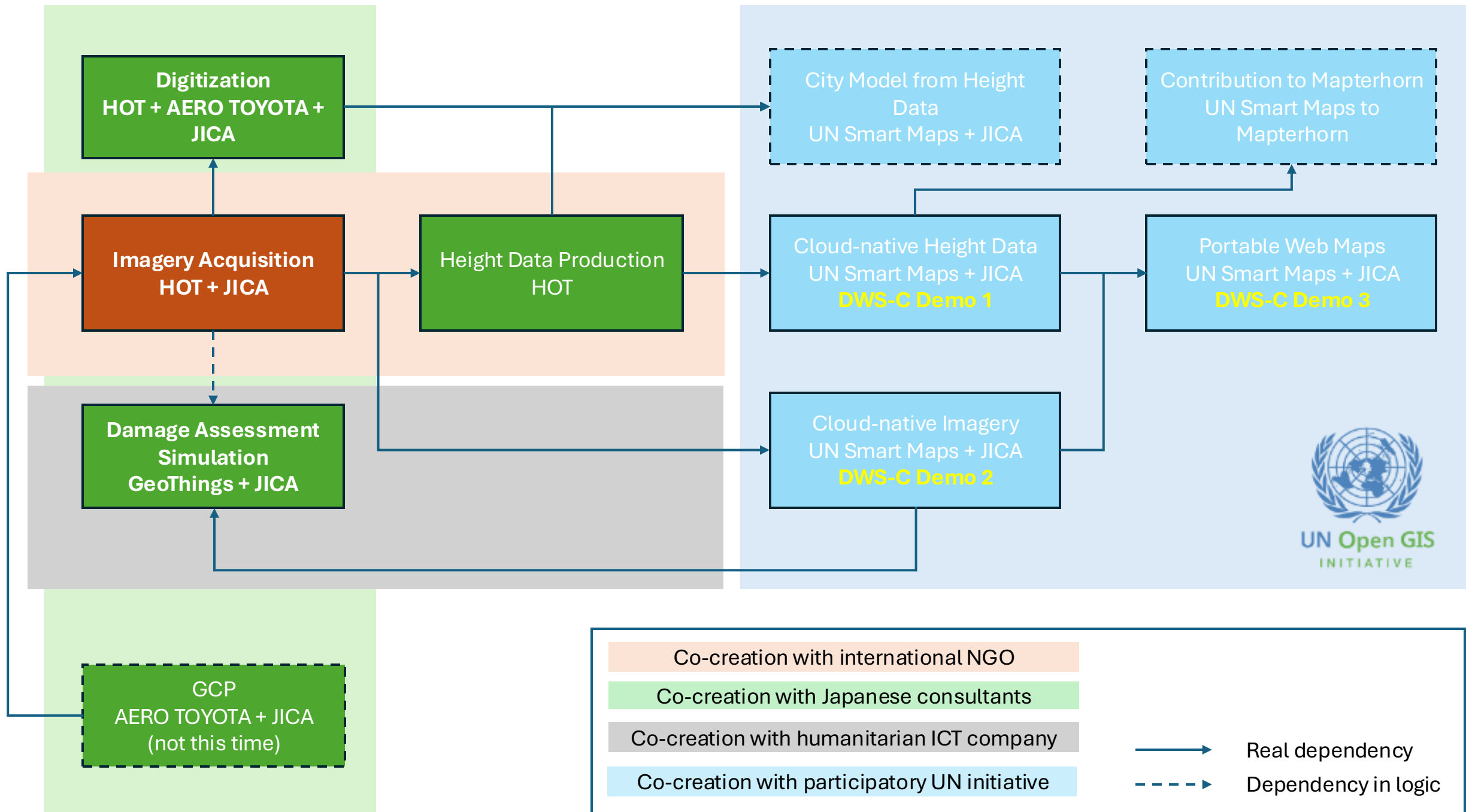
[Céline Jacquin](#)

Countries

[Sierra Leone](#)



Click the image to open the web site.

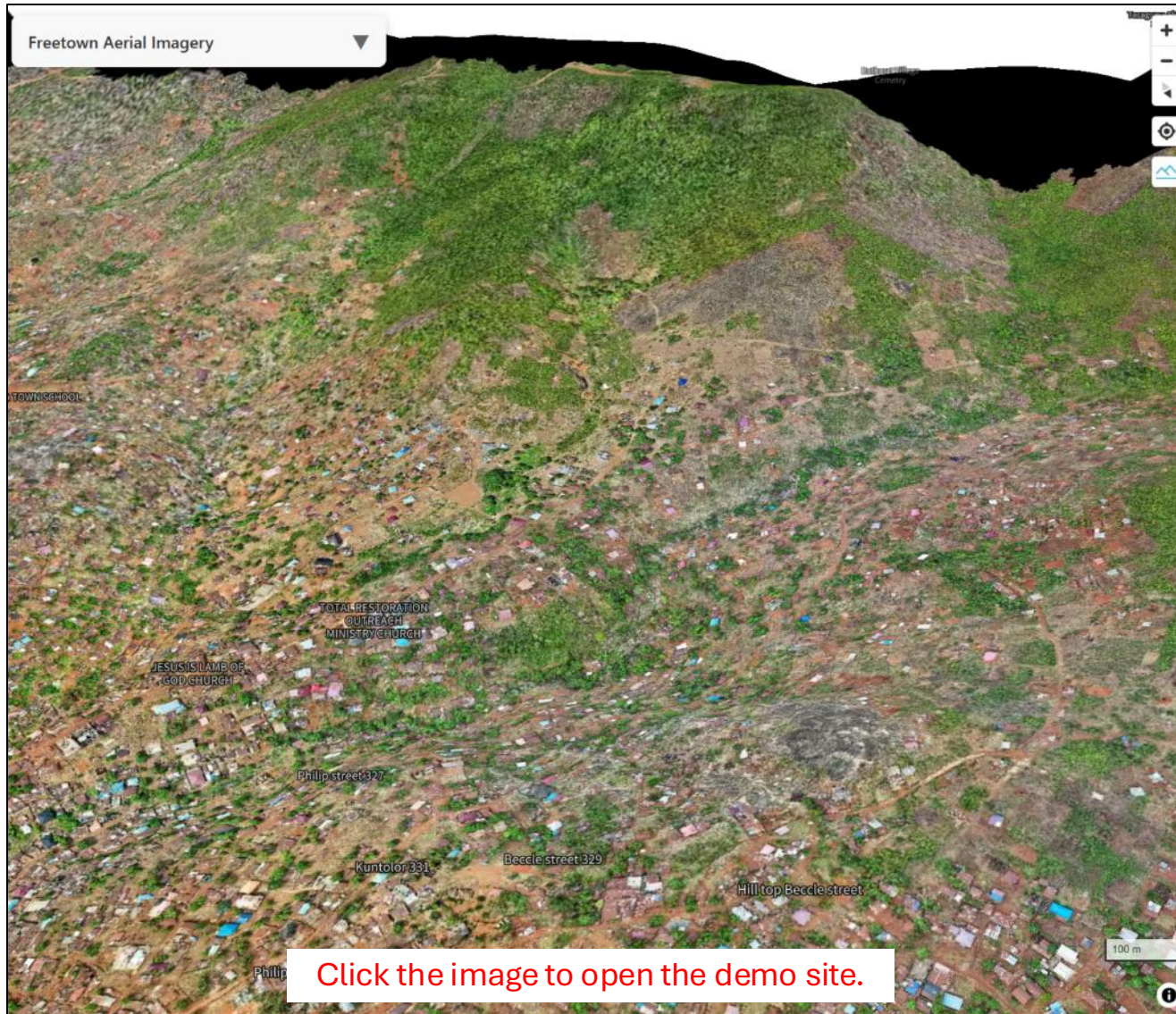


DWS-C Demo 1: Cloud-native height data



- Open-source PMTiles conversion & visualization of 1m GSD DEM (any GeoTIFF)
- Based on Mapperhorn code assisted by GitHub Copilot.
- Japan data for demo; planning upstream contribution to Mapperhorn.
- To demonstrate feasibility and usability in Sierra Leone.
- Nagasaki: hilly area land use might be similar.

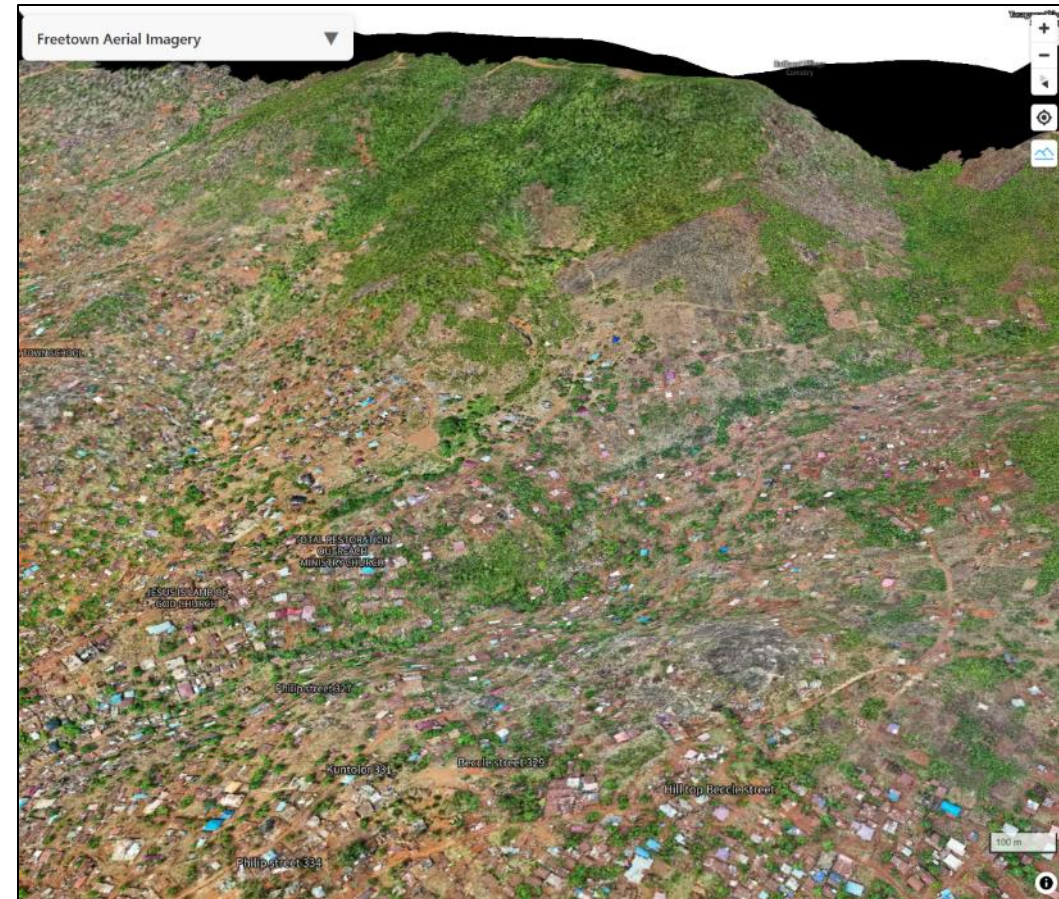
DWS-C Demo 2: Cloud-native imagery



- Open-source PMTiles conversion & visualization of 4cm GSD “Freetown Urban with Sensitive Areas Blurred” from OpenAerialMap.
- With terrain 3D visualization using Mapperhorn.
- Load balancing and potentially accelerate performance.
- To be used in DWS-B.

DWS-C Demo 3: Portable Web Maps

- Demo 1 and Demo 2 are hosted by a **Raspberry Pi 4B** from home network through Cloudflare Tunnel.





Any other business (AOB)



For information

- UN Open GIS Team has met in FOSS4G Auckland 2025. ↑ Taichi, Hidenori, Koji, and Ki-Joune
- [DWG8 web site](#) is up – thanks to Koji.
- UN Open GIS VTC schedule for 2026 is up on [GitHub Issues](#).
 - The next VTC would be 21 January 2026 – to be announced.

For action

- We encourage the DWGs to provide news articles.

Have a great holiday season!