



UN의 오픈소스 하이브리드 아키텍처와 UN Open GIS Initiative 동향

UN Open GIS Initiative

Challenge & Opportunity

강혜경 연구위원, 김은화 연구원, 황유원 연구원
국토연구원 (UN Open GIS Initiative Secretariat Office)
UNOpenGIS@krihs.re.kr

자료: 이 PPT는 UN-GGIM-AP주최 지역워크숍* 발표를 위하여 UN본부에서 작성한 초안을 재구성한 것입니다.

*지역워크숍: Regional Workshop for Promoting the Asia-Pacific Geospatial Information Platform by the UN-GGIM Regional Committee for Asia and the Pacific (UN-GGIM-AP)

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Secretary-General's Remarks

Promote open source, open data as digital public goods

"Secretary-General's remarks to the Virtual High-Level Event on the State of the Digital World and Implementation of the Roadmap for Digital Cooperation [as delivered]"

...

Second, **Digital Public Goods**. We need a concerted global effort from Member States, the UN system, private sectors, and others, **to promote open source software, open data, open AI models, open standards and open content** that adhere to privacy, applicable laws and do no harm. These have vast potential to help us achieve the Sustainable Development Goals.

자료: <https://www.un.org/sg/en/content/sg/statement/2020-06-11/secretary-generals-remarks-the-virtual-high-level-event-the-state-of-the-digital-world-and-implementation-of-the-roadmap-for-digital-cooperation-delivered> (검색일시). 2020.11.10)



United Nations
Secretary-General

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11 June 2020

New York

Secretary-General's remarks to the Virtual High-Level Event on the State of the Digital World and Implementation of the Roadmap for Digital Cooperation [as delivered]

Statements

Latest Statements

Statements on 11 June 2020

- Secretary-General's statement at the Security Council briefing on Mali [scroll down for French version]
- Secretary-General's remarks to the

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Excellencies, distinguished participants, dear friends.

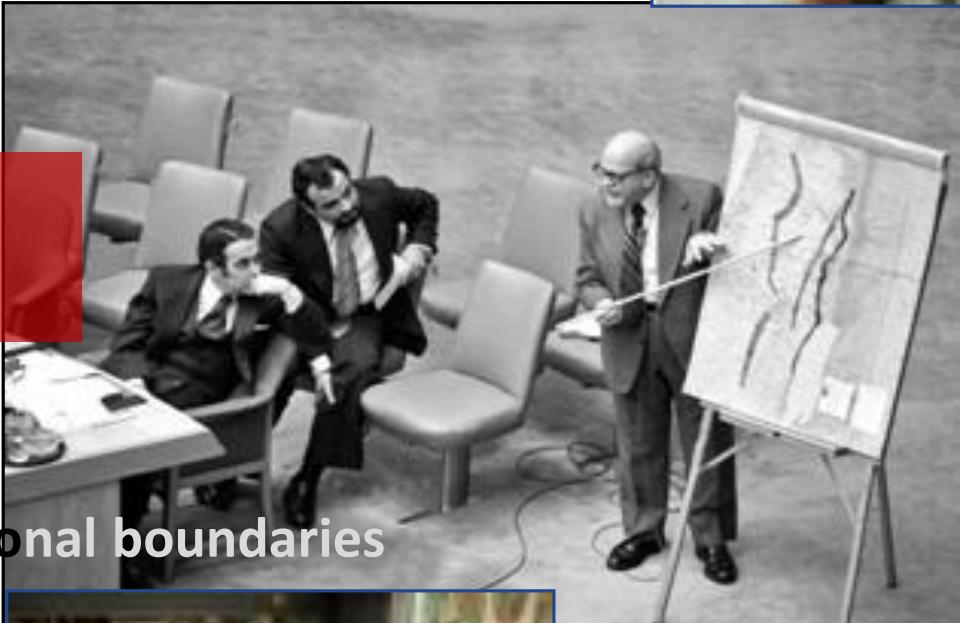
Technology is moving from analog to digital technology at a faster pace than we could ever have predicted. This vast promise – and some peril.



UN Geospatial Operations

Geospatial information and services to the United Nations mandates and operations including for :

- UN Security Council
- Executive Committee & Deputy Committee (EC/DC) <NOTICE>
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- UN Operations & Crisis Centre (OCC) (OCC)
- UN Secretariat (all departments/offices, Regional Commissions)
- UN Peace operations and field missions (DPO, DPPA & DOS)
- UN-GGIM, as Co-Secretariat (with DESA/Statistics Division)
- Member States for technical assistance on international boundaries
- UN agencies, funds and programmes



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UN Geospatial Operations



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UN requirements



GIS enables the Situational Awareness Platforms

- Geospatial visualisation for improving situational awareness
- Geospatial analysis for supporting decision making
- Smart knowledge-based platform for UN operations



GIS supports the fulfilment of core mandates

- Monitors ceasefire 자료의 저작권은 UNOpenGIS Initiative (UNOpenGIS@krihs.re.kr)에 있습니다.
- Protection of civilians 자료의 무단도용을 금합니다.
- Sustainable development 인용시 출처를 밝히기 바랍니다.



GIS saves lives and supports emergency operations

- Identify locations, and search & rescue operations
- Crisis management, Evacuations, **Disaster Response**
- Go-NoGo, and Minefield area



GIS enables cost-effective operations

- Minimize ground visits at planning and operational stages
- Better understanding of UN operating environment
- Ground water exploration, etc.

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UN Geospatial Operations

UN Headquarters
New York, USA

MINUJUST

UNVMC

ECLAC

UN Global Service Centre
Brindisi, Italy

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UNMIL

MINUSCA

MONUSCO

BINUB

UNMISS

UNMIHA

UNSO

UNDOF

UNIFIL

UNTSO

UNFICYP

UNAMA

ESCW

ESCAP

Enterprise Geospatial System
Global Geospatial Data
Global Satellite Imagery
Advanced Analytics
Geospatial Intelligence
UN Geospatial Policies
UN Open GIS Initiative
UN GeoPortal
UN-GGIM



Why Open GIS?

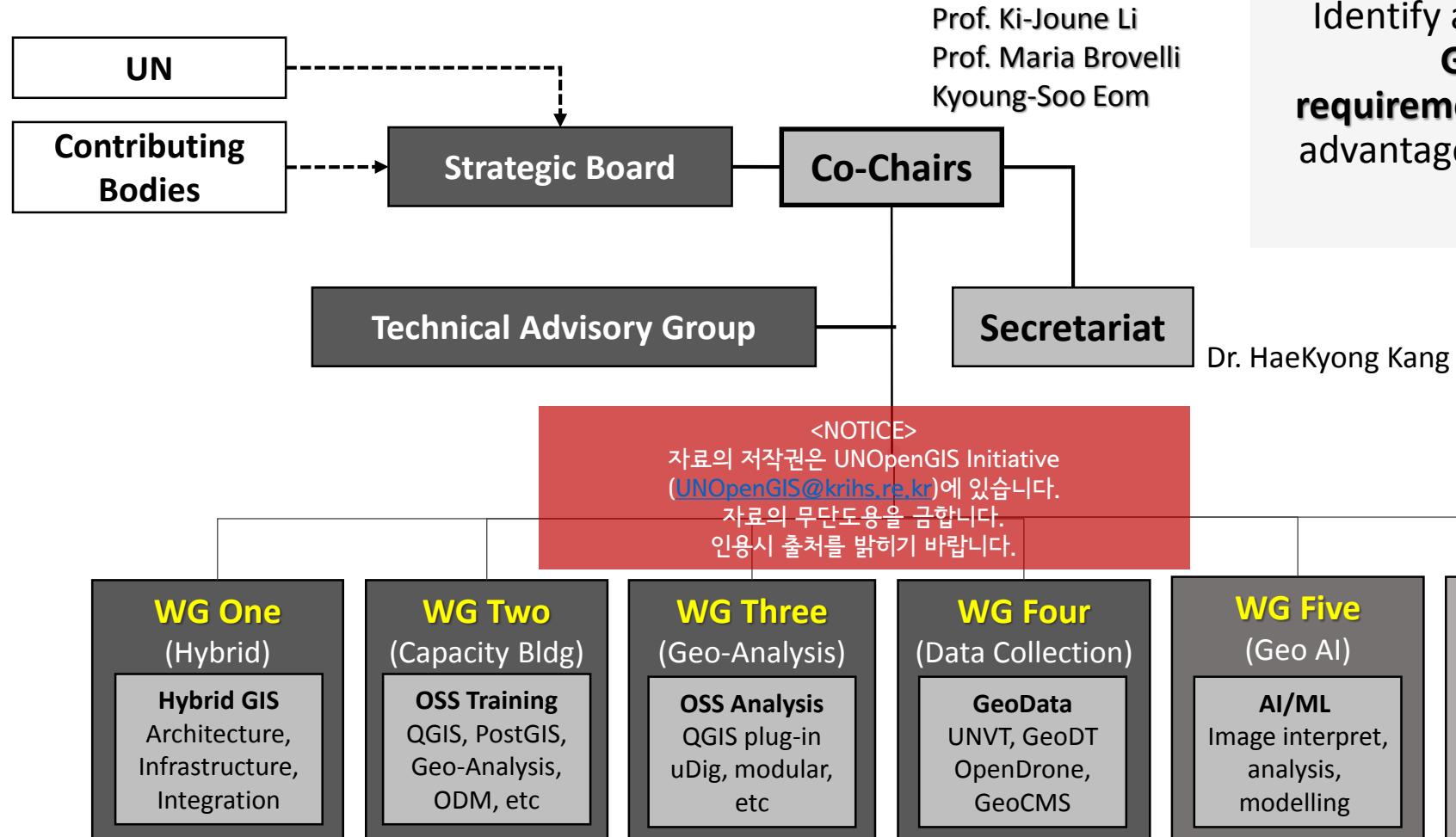
1. Support the increasing **UN operational demands**
2. Constraint with current approach
3. Limit to support **Member States** for capacity building & technology transfer
4. Increase **flexibility** and **scalability**
5. Improve access to **open content**
6. Share social value of **FOSS4G**

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UN Open GIS Initiative

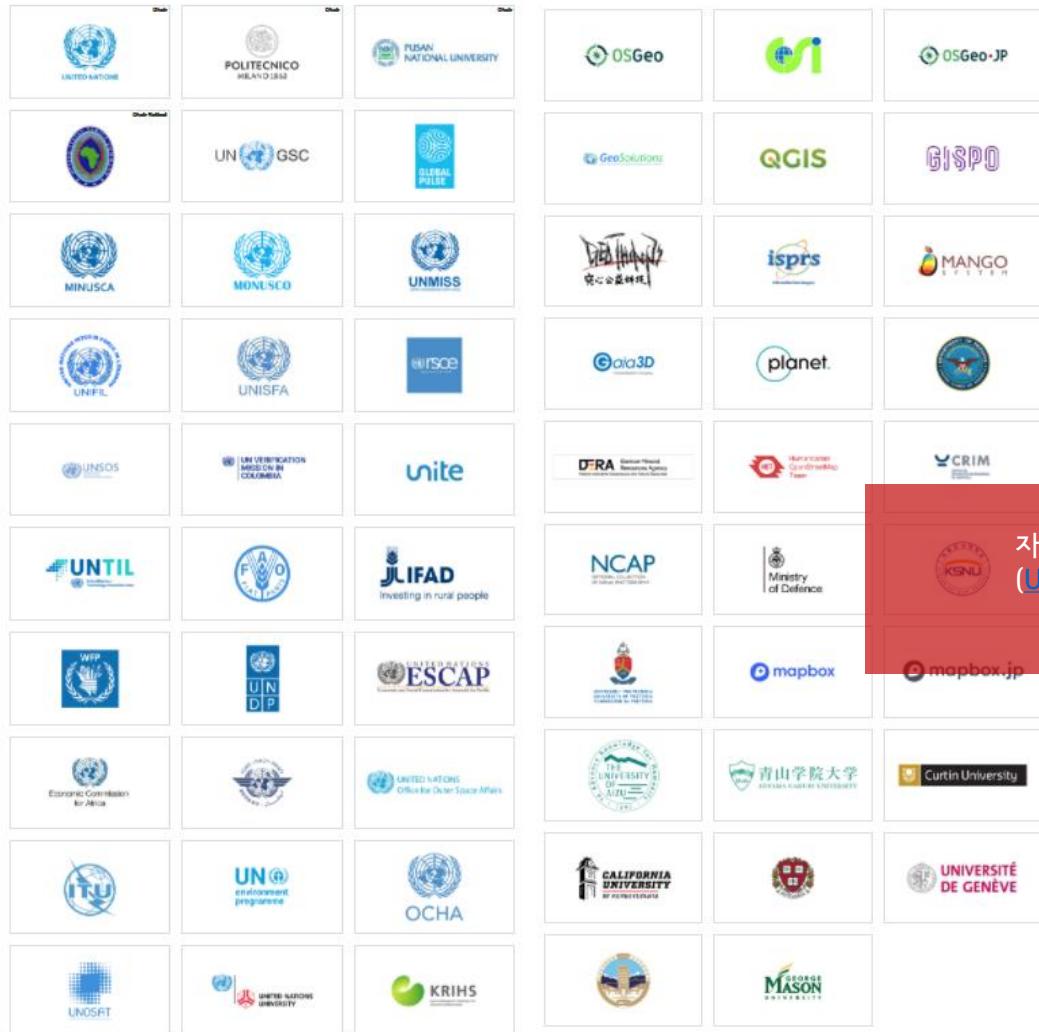
(since 2016)





UN Open GIS Initiative

(since 2016)



Welcome to Partnership Initiatives of United Nations Department of Operational Support

UN Open GIS Initiative

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LATEST UPDATES

- [Working Group 5 Geo-AI] First Consultation Call Report
- [Webinar] 11 September, 14:00 C Open Geo-AI Consultation Webin
- Processing toolbox tutorial data Area of Interest_Seoul
- WG2 and WG3 published QGIS 3. GeoAnalysis Practice including 2 geoanalytic functions for PKO
- 11 September 2020, Geo-AI Cons Meeting hosted by UN Open GIS WG5

CALL FOR PARTICIPATI

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by Geo-AI WG Co-Chair
Tomaz Logar,
United Nations Global Pulse

Document number:
UNOpenGIS-WG5-202001027
Document type: Report
Document language: English

[Working Group 5 Geo-AI] First Consultation Call Report by Tomaz Logar (Geo-AI WG Co-Chair, UN Global Pulse)

자료: unopengis.org(검색일시: 2020.11.13)

- - [Working Group 5 Geo-AI] First Consultation Call Report
 - [Webinar] 11 September, 14:00 C Open Geo-AI Consultation Webin
 - Processing toolbox tutorial data Area of Interest_Seoul
 - WG2 and WG3 published QGIS 3. GeoAnalysis Practice including 2 geoanalytic functions for PKO
 - 11 September 2020, Geo-AI Cons Meeting hosted by UN Open GIS WG5

CALL FOR PARTICIPATI

- [Call 4 UN Mappers] OpenStreetMappers?? Be UN Mappers!
 - Call for UN Volunteers (UNV) with



Working Groups of UN Open GIS Initiative



WG1-Hybrid GIS Architecture

Hybrid is the best approach to effective support UN operations



UNITED NATIONS



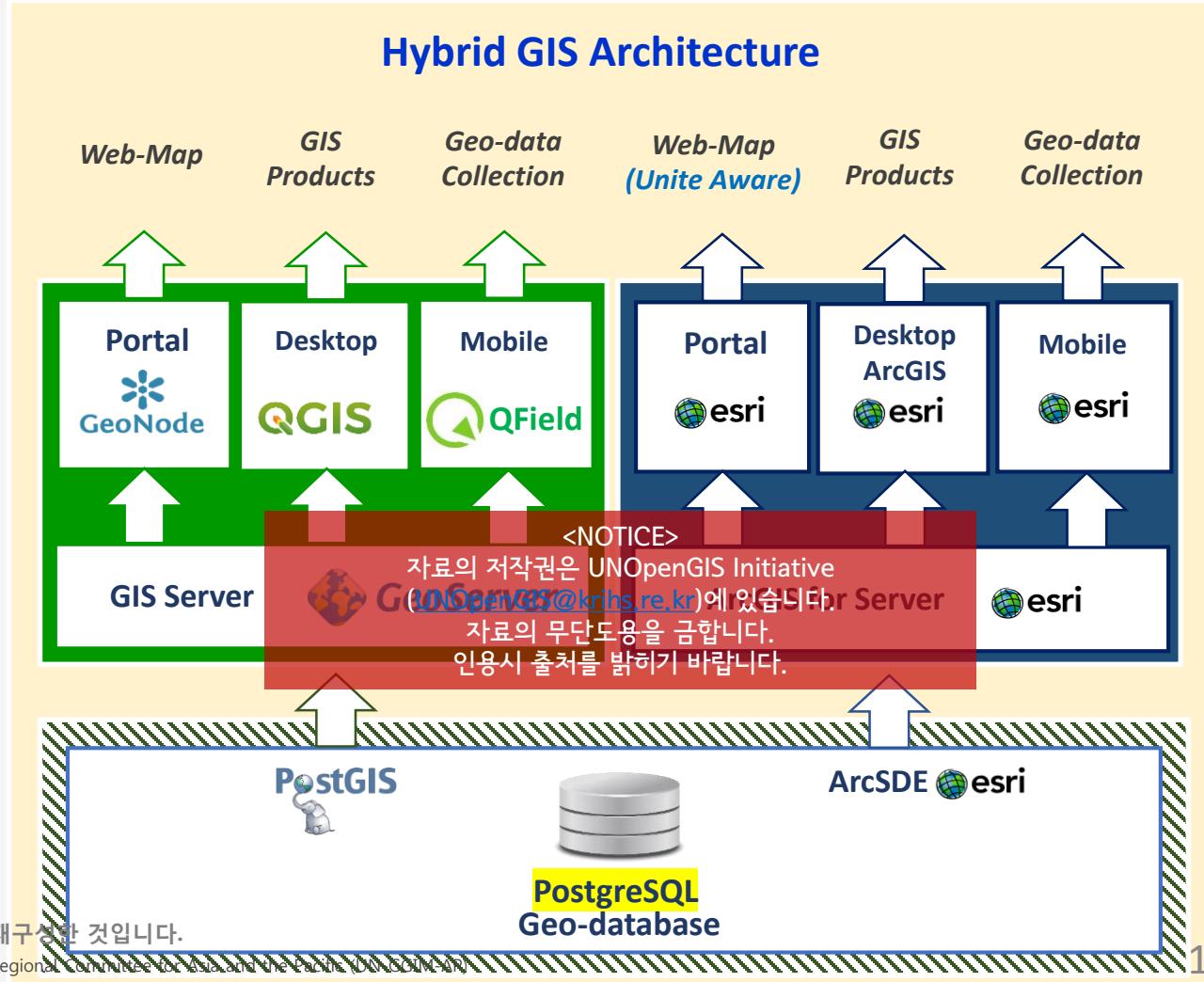
GeoSolutions



UN GSC

HYBRID APROACH:

- **Integration** of Geo-databases to serve esri and **open-source**
- **Complementing** systems to serve every UN requirement
- **Cost effective**
- **Flexible**
- **Scalability**
- **Innovations**
- **Social value**



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WG2-Capacity Building



POLITECNICO
MILANO 1863



- **WG2 (Capacity Building)** aims to deliver training programs for open source software to UN staffs and partners. It provided online QGIS and PostGIS trainings. It also developed ~~ed training materials for~~ <NOTICES> each WG.
- **WG2** runs OSGeo - United Nations ~~bridge~~ 인용시 출처를 밝히기 바랍니다. OSGeo community such as Geo4All of OSGeo. The OSGeo UN Committee hosted several educational challenge for WG2.
- All of the training materials developed by WG2 are published at unopengis.org.



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UN Initiative

OSGeo Committee representing us in a working group on Geospatial Information and Services for Disasters. This working group was formed to support the UN migration to Open Source Geospatial software solutions.

Mailing List Wiki
unopengis.org



자료 : <http://unopengis.org/unopengis/what/what02.php> (검색일시: 2020.11.1)

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WG3-GeoAnalysis



KRIHS
Korea Research Institute for
Human Settlements



- WG3 GeoAnalysis aims to develop and deliver geo-analytic functions for UN operations.

- During the 1st phase of the WG3 from 2016 to 2019, members of WG3 developed the JAVA-based GeoAnalytic libraries (hereafter "Processing Toolbox") for GeoServer WPS, uDig and GeoTools which can be downloaded at [SourceForge](#). From the 2nd phase of WG3 in 2020, QGIS embedded GeoAnalytic functions are under development.

- Major outcome:
 - Open GeoAnalytic Libraries 'OpenGXT' for uDig, GeoServer, and GeoTools
 - GeoAnalytic Functions for QGIS
 - Training Materials

WG3 Resources

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1. [Source Code GitHub](#)
 2. [List of Geo Analytic Functions \(pdf\)](#)
 - 3.1 [Download WG3 library for Desktop](#): "org.locationtech.udig.processingtoolbox_2.0.xxx.jar"
 - 3.2 [Download WG3 library for GeoServer](#): "GeoServer-Extension-OpenGXT-2.15.x.zip"
 - 3.3 [Architecture and GeoServer Screenshot](#)
 4. [Training Materials](#)
 - 4.1 [Ebola prediction by using Processing Toolbox](#)
 - 4.2 [Environmental Analysis by using Processing Toolbox](#)
 - 4.3 [QGIS 3.10 with 26 primitive geoanalytic functions for PKO](#)

자료: <http://unopengis.org/unopengis/what/what03.php>(검색일시: 2020.11.10) 13



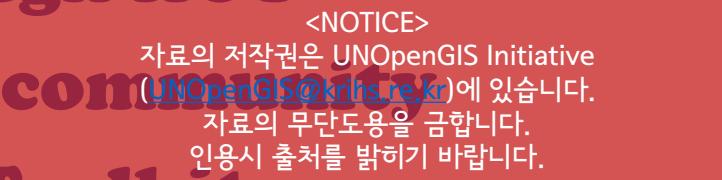
WG4-GeoData Collection



PUSAN
NATIONAL UNIVERSITY



- WG4 aims to develop field-data collection and validation tools for UN operations. Three major activities are running on.
- **1. Unite Map through HOT**
- **2. OpenDroneMap**
- **3. UN Vector Tile Toolkit**
- **Live Drone Map(replaced with OpenDroneMap)**
- **Data Quality Assessment/Quality Control(dismissed)**
- **Generalization(dismissed)**



자료: <http://unopengis.org/unopengis/what/what04.php> (검색일시: 2020.11.10)



WG4 – Unite Map



Humanitarian
OpenStreetMap
Team

- The UN Global Service Centre, the UNHQ Geospatial Information Section, and three peacekeeping missions - UNSOS, MONUSCO and MINUSCA of the Department of Operational Support - established the foundation of a new and wider global initiative called Unite Maps in August 2019.
- By leveraging internal and crowdsourcing capabilities, Unite Maps aims not only to enrich topographic and operational data in UN mission areas <NOTICE>
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인용시 출처를 밝히기 바랍니다. and humanitarian actors with topographic maps, operational geo-information, and navigation tools, and imagery and street-level base maps.

 [Page](#) [Discussion](#)

Unite Maps Initiative/UN Mappers/Leaderboard

Are you the most active mapper in the [UN Maps Initiative](#) campaigns? Here it comes the [UN Mappers Leaderboard](#). The leaderboard is reporting statistics of all the OSM contributors which commented their changesets with the hashtag: #UNMappers. Community leaderboards and editing statistics are available with respect to the overall mapping contribution and the single Projects, including both mapping projects and crowdsourced data imports.

Mapping Specification

[Main Page](#) [The map](#) [Map Features](#) [Contributors](#) [Help](#) [Blogs](#) [Shop](#) [Donations](#) [Wiki discussion](#) [Recent changes](#) [Tools](#) [What links here](#) [Related changes](#) [Special pages](#) [Printable version](#) [Permanent link](#) [Page information](#) [Cite this page](#)

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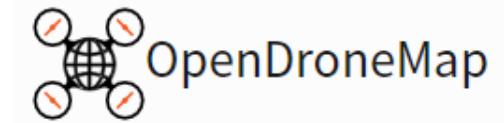
Click

#	Project Name	Mapper Level	Total Contributors	Description
#7927	United Nations for Somalia, Qosol Tire area, landuse and landcover	Beginner Mapper	293 total contributors	The Objective of this mapping
#7918	United Nations for Somalia, Qarar area, waterways	Beginner Mapper	20 total contributors	The Objective of this mapping
#8267	Somalia UNSOS waterways import (project 01)	Beginner Mapper	22 total contributors	'FOR EXPERIENCED MAPPERS'
#6802	United Nations Mapathon - Bangui	Intermediate Mapper	26 total contributors	In this mapping adding roads
#8735	Mapping Luputa	Intermediate Mapper	26 total contributors	

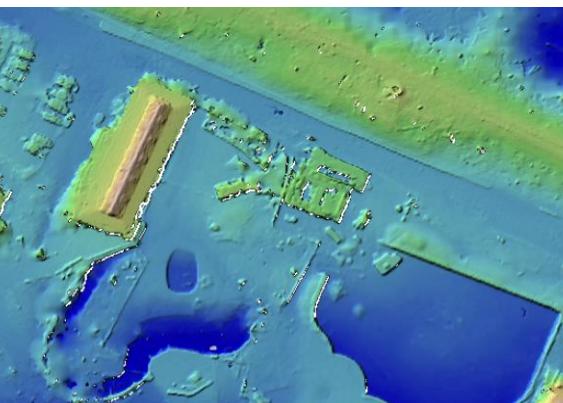
Request for Mapping



WG4 - OpenDroneMap



- **OpenDroneMap (ODM)** is an open source toolkit for aerial drone imagery, as modern photogrammetry – fully automated matching, digital surface modelling and mosaicking
- Partnership to apply ODM technology in UN operational environment (peacekeeping, humanitarian, UNGS, SDC, etc.)
Pilot to train and install ODM in UNGSC to support UN field missions, Regional commissions and UN agencies



The screenshot shows the OpenDroneMap website. At the top, there's a navigation bar with links for Projects, Community, Documentation, Stories, and Code. The main heading is "Awesome. Drone. Software." with the subtext "We're creating the most sustainable drone mapping software with the friendliest community on earth." Below this, there are two buttons: "WebODM (User Interface)" and "ODM (Command Line)".



An Open Ecosystem

We're building sustainable solutions for collecting, processing, analyzing and displaying aerial data while supporting the communities built around them.

Our efforts are made possible by collaborations with key organizations, individuals and with the help of our growing [community](#).

[Join the Community](#)



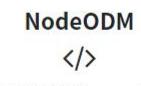
ODM

A command line toolkit to process aerial images.
Since its creation in 2014, it has become the de-



WebODM

A user-friendly, extendable application
and API for drone image processing. It provides a



NodeODM

</>
A lightweight REST API to access ODM. It also provides a minimal web interface to access its functions.

자료: <https://www.opendronemap.org/>(검색일자: 2020.11.10)



WG4 - UN Vector Tile Toolkit (UNVT)

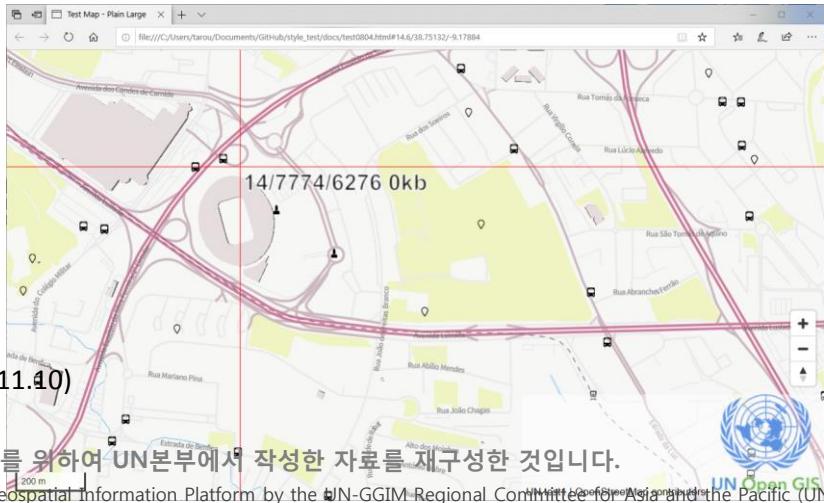


- To provide the latest and efficient web map technology (Vector Tile Technology) to public organizations (National Geospatial Agencies, UN agencies, etc.)
- UNVT provides a set of **Node.js** open source scripts designed for developers to use in conjunction with existing and proven open source vector tile software
- Tools are developed and released on GitHub (<https://github.com/UNOpenGIS/UNVT>)
- Implement in UNGSC for cost-effective dissemination and explore DRR as a pilot in Japan

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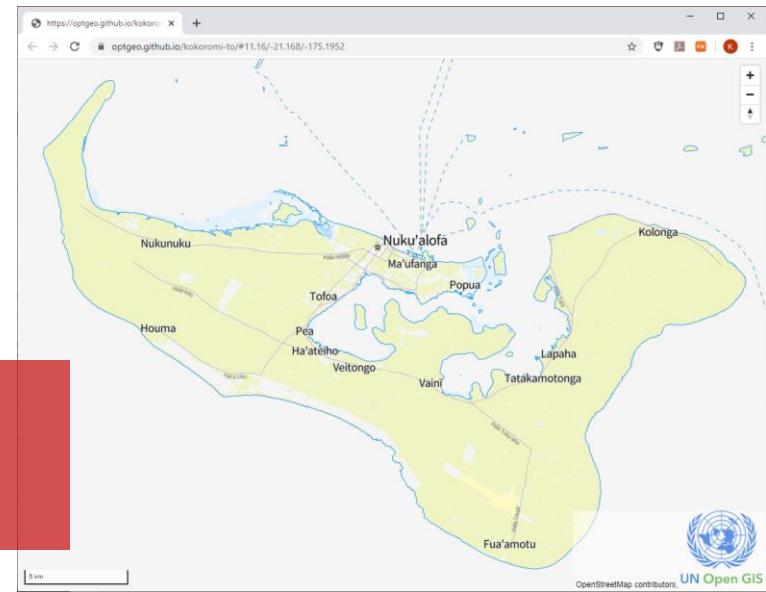


자료: <https://unvt.github.io/>(검색일시: 2020.11.10)



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The UNVT community



GeoThings



Geospatial Information Authority of Japan



mapbox



National Institute for Agro-environmental Sciences



Mapple On



National Astronomical Observatory of Japan



OSGeo Japan Chapter



School of Global Studies and Collaboration, Aoyama Gakuin University



UN Global Service Centre



UN Geospatial Information Section

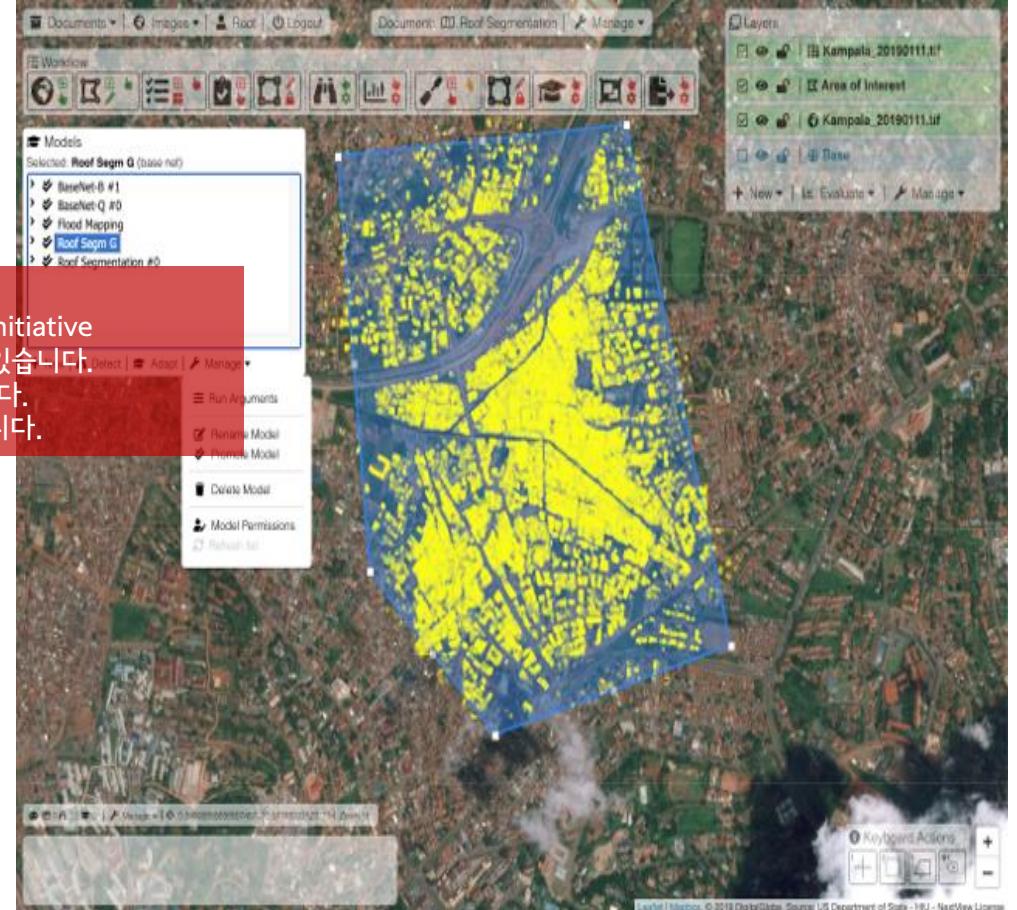


WG5-GeoAI



- The Geo-AI Working Group will research, elaborate and adopt innovations, best practices, and recommendations to:
 - Ensure efforts to advance AI technologies in the field of geospatial information will benefit the United Nations Field Operations and the United Nations at large
 - Research AI applications and methodologies that support geospatial analysis, including image interpretation
 - Promote interoperability between open source frameworks
 - Enhance and develop open source standards and tools for the wider AI and GIS communities
 - Include bleeding edge open source AI developments into open source GIS software
 -

자료: <http://unopengis.org/unopengis/what/what05.php> (검색일시: 2020.11.10)



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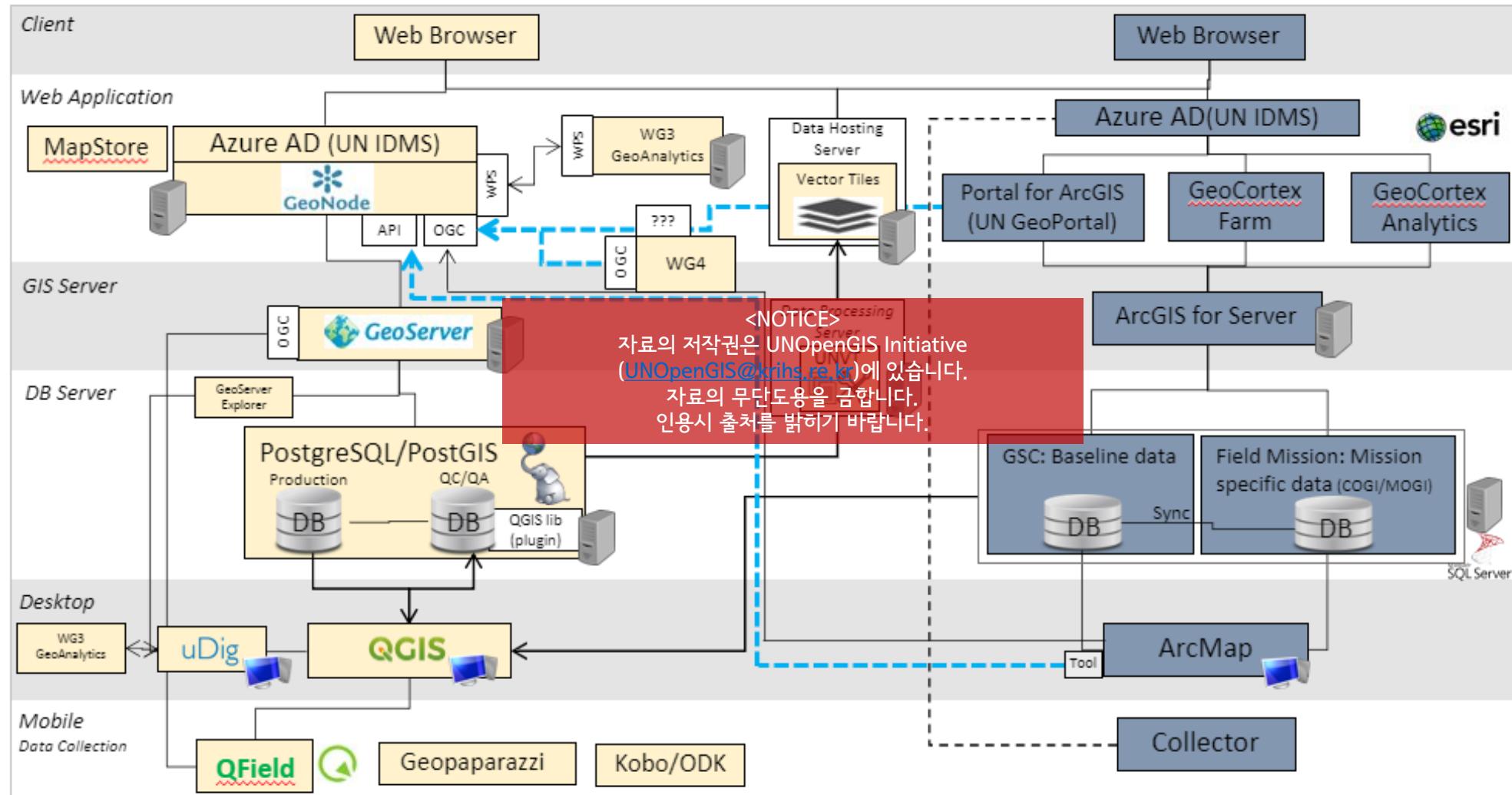
*지역워크숍: Regional Workshop for Promoting the Asia-Pacific Geospatial Information Platform by the UN-GGIM Regional Committee for Asia and the Pacific (UN-GGIM-AP)



Pilot Projects in Hybrid Architecture of UN Open GIS Initiative

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Hybrid GIS Architecture



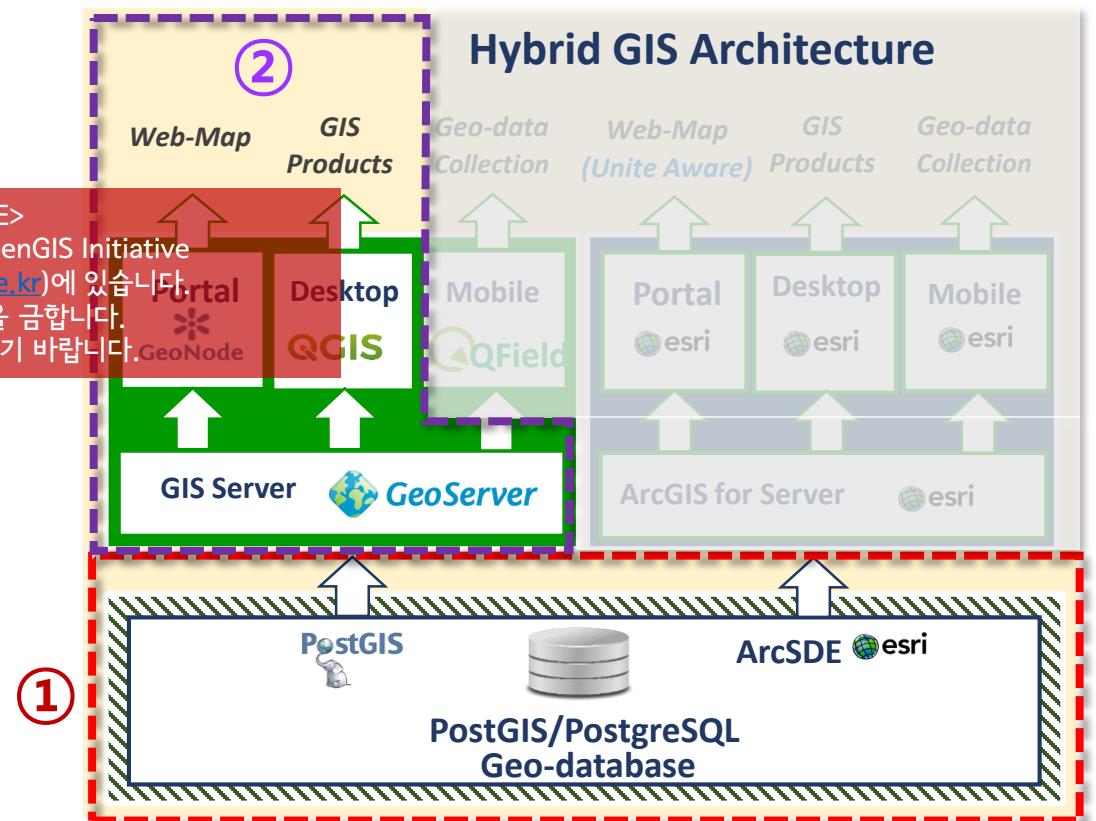
자료: Internal report of UN Open GIS Initiative (2020.2)



Hybrid GIS Architecture For UniteMap, and OpenGeoPortal

- Purpose:** Proof of concept through design & implement **hybrid prototype** to support
① Unite Map, ② Open GeoPortal
- Duration:** 6 months (October 2020 - March 2021)
- Contributors:** KRIHS/Korea, UNGIS, UNGSC
- Scope:** see figure
- Next step (Mid-/Long-term plan):**
Develop a **global rollout plan** to
implement Hybrid GIS infrastructure
based on the outcome of pilot project

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자료: UNGIS (2020.10)

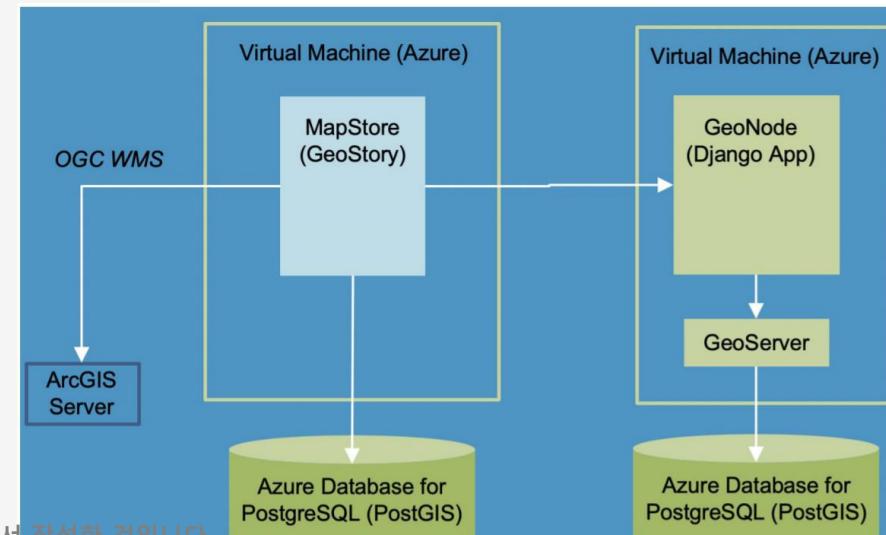
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Pilot: UNMISS Story Map

- To develop an **open source platform** to provide a Story Map to geolocate and geotag public information stories, articles and narratives of UNMISS's quick impact projects.
- The Story Map will utilize open source solutions and Microsoft Azure cloud environment available for the United Nations
- Expected Benefits:**
 - Cost-efficient access to the project information and data
 - Cost-efficient to operate and maintain the Story Map portal
 - Scalability



unmiss.unmissions.org/request-expression-interest

United Nations Peacekeeping

UNMISS UNITED NATIONS MISSION IN SOUTH SUDAN

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REQUEST FOR EXPRESSION OF INTEREST

REQUEST FOR EXPRESSION OF INTEREST REOI PRO/REOI/20/12 Provision of Geostories Maps for UNMISS South Sudan Closing Date for Receipt of EOI: Monday, 23 November 2020 at 16.00 hours local time (GMT+3)

REQUEST FOR EXPRESSION OF INTEREST REOI PRO/REOI/20/12 Provision of Geostories Maps for UNMISS South Sudan

Closing Date for Receipt of EOI: Monday, 23 November 2020 at 16.00 hours local time (GMT+3)

Application period: 09 Nov 2020 to 23 Nov 2020

Download PDF (123.51 KB)

REQUEST FOR EXPRESSION OF INTEREST PRO/REOI/20/11 Provision of Printing and Promotional Materials to UNMISS, South Sudan Closing Date for Receipt of EOI: Friday, 20 November 2020 at 16.00 hours local time (GMT+3)

REQUEST FOR EXPRESSION OF INTEREST PRO/REOI/20/11

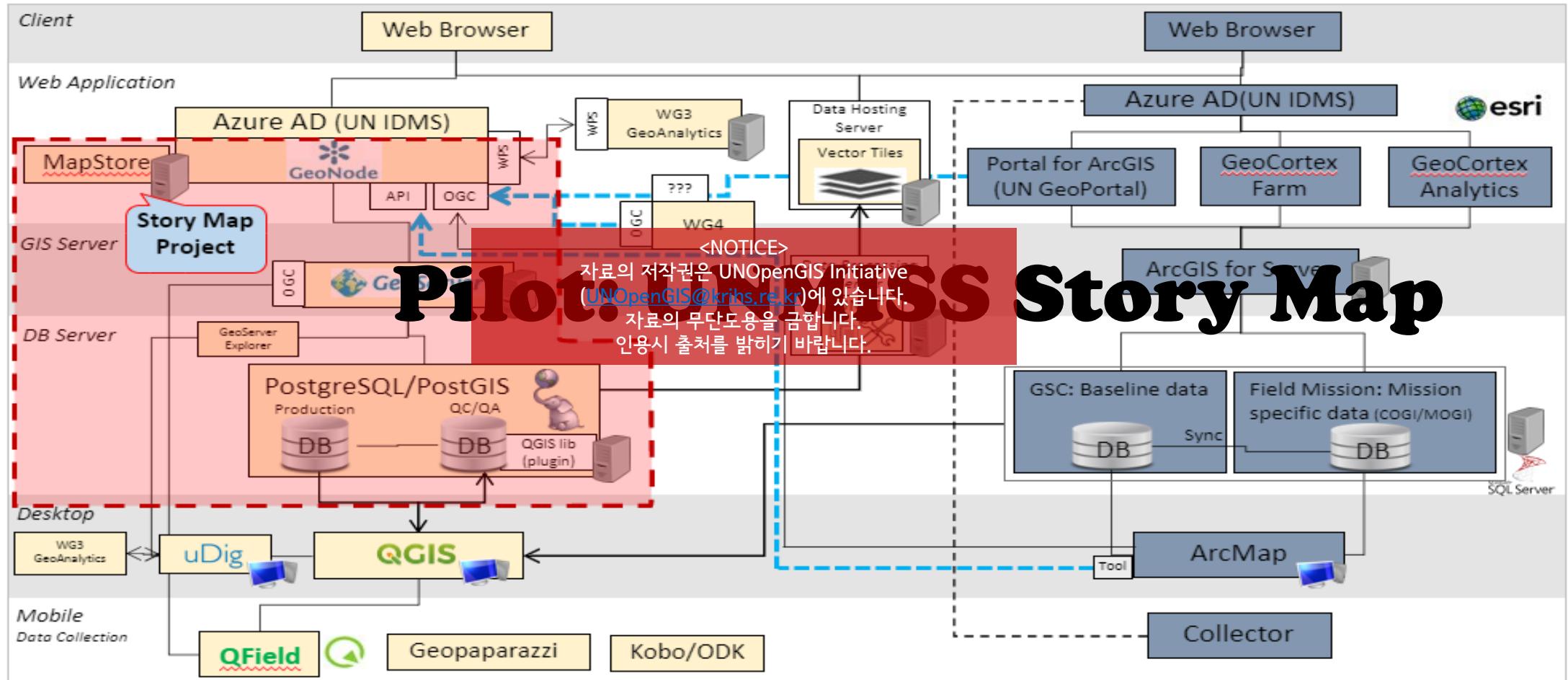
자료: <https://unmiss.unmissions.org/request-expression-interest>(검색일시: 2020.11.10)



UN Open GIS High Level Hybrid Architecture

- Conceptual Model + Products/Solutions -

Story Map Project (UNMISS)

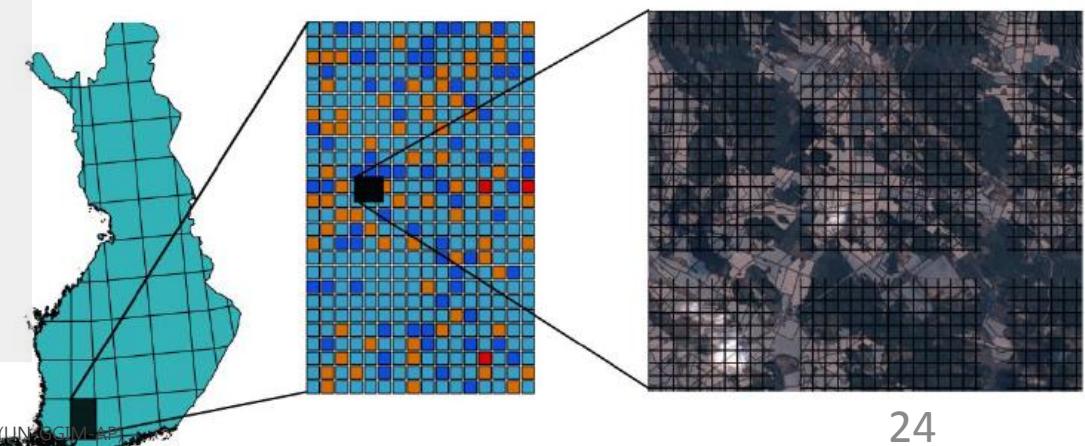
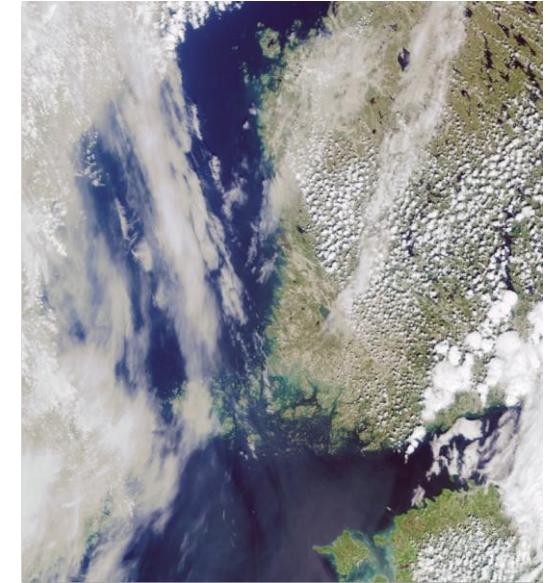


자료: Internal report of UN Open GIS Initiative (2020.2)



Pilot: Cloud-Free Satellite Imagery in WG5

- Cloud coverages limit application of optical satellite images
- Conduct use case analysis using **Sentinel 2** satellite (10 m resolution)
- Test the developed algorithm to **higher** resolution satellite image (WorldView, QuickBird, etc.)
- Initial funding: **Finland**
- Project development Team: **GISPO** with Finnish partners
- Initial testing bed – **UNISFA**
- Operational requirements and field testing;
 - UNHQ, UNGSC and UN field missions
- Project timeline: **Oct 2020 - Feb 2021**



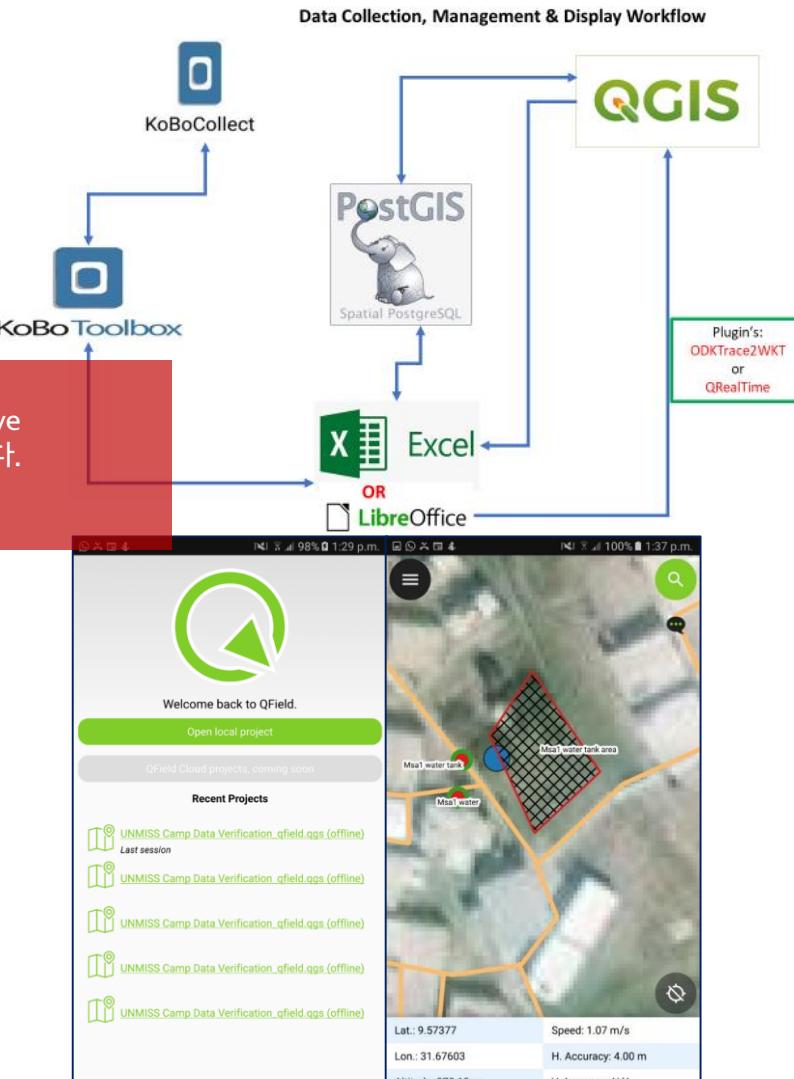
자료: 이 PPT는 UN-GGIM-AP주최 지역워크숍* 발표를 위하여 UN본부에서 작성한 것입니다.

*지역워크숍: Regional Workshop for Promoting the Asia-Pacific Geospatial Information Platform by the UN-GGIM Regional Committee for Asia and the Pacific (UN-GGIM-AP)



Pilot: Mobile Open GIS

- Field assessment of **QField**, **KoBo Toolbox**, and **Geopaparazzi** in UNMISS and MONUSCO
 - Evaluate the **effectiveness** of Open Source Mobile solutions in field;
 - Setup the **fundamental process** for integration, implementation, and use of GIS mobile <NOTICE>
자료의 저작권은 UNOpenGIS Initiative
application under UN Open GIS (UNOpenGIS@krihs.re.kr)에 있습니다.
자료의 무단도용을 금합니다.
인용시 출처를 밝히기 바랍니다.
 - **Test** the Mobile solution compatibility with well-known Open Source systems such as desktop (QGIS), servers (GeoServer), and databases (PostgreSQL/PostGIS).
- **Expected Benefits:**
 - Better availability of mobile solutions in the field
 - Increase efficiency of operations and support decision-making in the field through visualizing the geographic intelligence



자료: 이 PPT는 UN-GGIM-AP주최 지역워크숍* 발표를 위하여 UN본부에서 작성한 초안을 재구성한 것입니다.

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Participation in UN Open GIS Initiative





Through applying to the Calls from UN Open GIS Initiative



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Call for Participation

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All [WG1](#) [WG2](#) [WG3](#) [WG4](#) [WG5](#) [Secretariat](#)

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No.	Category	Subject	Deadline	Email
Notice	[WG2]	[Call4 Best Practices]	2020.12.31	hkkgang@krihs.re.kr
Notice	[WG4]	[Call 4 UN Mappers] OpenStreetMap Mappers?? Be UN Mappers!	2022.07.30	unopengis@krihs.re.kr
Notice	[WG1]	Call for UN Volunteer (UNV) with GIS expertise in UN mission in South Sudan (UNMISS)	2020.01.24	unopengis@krihs.re.kr
3	[WG3]	WG3-Tutorial of Open Geo-Analytic Functions	2019.08.27	unopengis@krihs.re.kr
2	[Secretariat]	4th UN Open GIS Workshop at FOSS4G 2019 Bucharest	2019.08.26	unopengis@krihs.re.kr
1	[WG5]	[Call4Join] New Geo-AI Working Group	2020.12.31	UNOpenGIS@krihs.re.kr

자료: <http://unopengis.org/unopengis/call/call01.php> (검색일시: 2020.11.10)

Follow @UNopenGIS and monitor what is going on

 UN Open GIS Retweeted

Kyoung-Soo Eom @KyoungSooEom · 6h

Special thanks to Prof. Ki-Joune Li, Mr. Stephan Mather (@smathermather) and Mr. Taro Ubukawa (@TaroUbukawa) for this important workshop preparation.

 UN Open GIS @UNopenGIS · 7h

[OpenDroneMap] In cooperation with @OpenDroneMap, UN Open GIS is organizing OpenDroneMap online Workshop to train the trainers for UN Offices, Field Missions and UN Agencies on 23-24 November 2020.



OpenDroneMap Training Workshop

ODM and UN Open GIS Initiative

Virtual Workshop

November 23 – 24, 2020

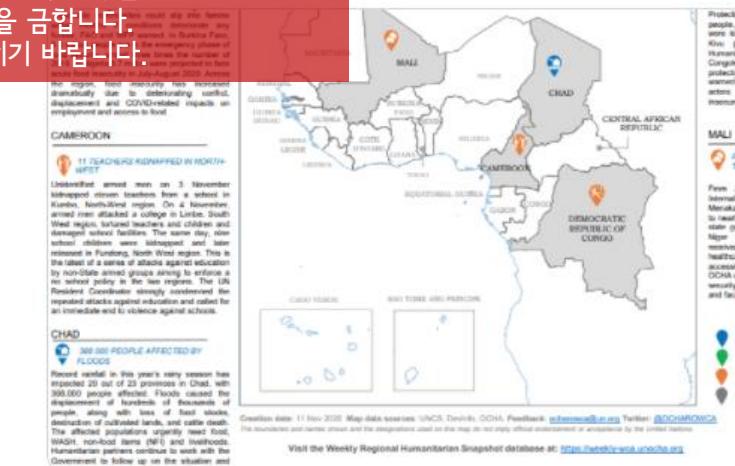
 UN Open GIS Retweeted

OCHA W&C Africa @OCHAROWCA · 9h

This week on the weekly humanitarian snapshot:

- Burkina Faso & North-East Nigeria edging closer to famine
- 388000 affected by floods in #Chad
- Continuing attacks on education in #Cameroon

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Protection Cluster: at least 100,000 people, including humanitarian workers, were kidnapped in October 2020 in South Darfur, Sudan. On 8 November, the Humanitarian Coordinator in DRC called on Congolese authorities to prioritize the protection of civilians and raise awareness about the risk that humanitarian actions may be forced to withdraw from measure areas if incidents continue.

MALI

On 7 July in Gao, the number of Internally Displaced People (IDPs) in the Ménaka region has increased from 21,000 to nearly 33,000 due to fights between radical groups affiliated with Ansar Dine and the Niger border. All identified households received assistance in areas, NFI, food and medical supplies. Some areas are still not accessible to aid workers due to insecurity. OCHA continues to advocate for access and security of humanitarian personnel, assets and facilities.

CHAD

Recent rainfall in this year's rainy season has impacted more than 20 provinces in Chad, with 300,000 people affected. Floods caused the displacement of hundreds of thousands of people, particularly in the northern regions, destruction of cultivated lands, and cattle death. The affected populations urgently need food, shelter, water, and medical care, as well as other humanitarian partners continue to work with the Government to follow up on the situation and support the response provided and still required.

Creation date: 11 Nov 2020. Map data sources: UNCS, DevInfo, OCHA, Feedback: www.unocha.org. Twitter: @OCHAROWCA

Visit the Weekly Regional Humanitarian Snapshot database at: <http://weekly-wrh.unocha.org>



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UN Mappers @UN_Mappers · Nov 12

#GeoNovember mood? 🍁

Map with us, give your contribution to support peace!
Participative Mapping to support UN Peacekeeping Missions in Central African Rep. 🇨🇫

Nov, 12th from 6 pm to 8 pm CET

Register here bit.ly/MappingCAR

Organized in collaboration with @MasterGIS_Droni



NOVEMBER, 12th 2020

PARTICIPATIVE MAPPING TO SUPPORT
UNITED NATIONS PEACEKEEPING MISSIONS IN
CENTRAL AFRICAN REPUBLIC

UN Photo/Hervé Serefi

UN Open GIS

792 Tweets

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Kyoung-Soo Eom @KyoungSooEom · Nov 6

Thanks to Tomaz Logar of @UNGlocalPulse, Zhongxin Chen of @FAO and Maria Brovelli @MariaBrovelli for taking the lead.

<NOTICE> UN Open GIS @UNopenGIS · Nov 6

[First Consultation Group] First Consultation Report has been posted at UN (UNOpenGIS@krihs.re.kr)에 있습니다. site (UNOpenGIS.org). WG's objective is to experiment with 자료의 무단도용을 금합니다. AI into the wider UN Open GIS Initiative's workflow, and 인용시 출처를 밝히기 바랍니다. develop and implement AI for UN operations.

INITIATIVE

UN Open GIS: Working Group 5 - GeoAI
First Consultation Call Report

Friday, September 11th, 2020

by Geo-AI WG Co-Chair
Tomaz Logar,
United Nations Global Pulse





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UN Open GIS Retweeted

UN Global Pulse @UNGlobalPulse · 8h
Job Opp! We're looking for a Project Analyst to join our team in NYC. You'll help mobilize resources for the development, deployment and adoption of #technology tools by #UN partners to support peace & security.

Apply by 30 Nov: bit.ly/38ADrNf

GLOBAL PULSE

UN Open GIS @UNopenGIS · Sep 9, 2017
UNGIS is looking for **Interns** in geospatial Information:
uncareer.net/vacancy/134378

40 26

UN Open GIS @UNopenGIS · Nov 9, 2019
UNGIS is looking for Open GIS **Intern**:
[inspira.un.org/psc/UNCAREERS/...](http://inspira.un.org/psc/UNCAREERS/)

1 25 34

UN Open GIS @UNopenGIS · Nov 9, 2019
UNGIS is looking for GIS **intern**: [inspira.un.org/psc/UNCAREERS/...](http://inspira.un.org/psc/UNCAREERS/)

6 10

United Nations careers

Job Opening

Posting Title: Geospatial Information Systems - Internship, I (Temporary Job Opening)

Job Code Title: INTERN - INFORMATION SYSTEMS & COMMUNICATION TECHNOLOGY

**Department/
NOTICE:** Office of Information and Communications Technology

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United Nations Core Values: Integrity, Professionalism, Respect for Diversity

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Org. Setting and Reporting

The Geospatial Information Section provides cartographic and geospatial information to the UN Secretariat. The internship is for minimum two months with an opportunity for extension. The internship is unpaid and fulltime. Interns work five days per week (35 hours).

Responsibilities

Under the direct supervision of the Chief of the Geospatial Information Section or his/her designated officer, the incumbent is responsible for the following duties in the Geospatial Information Section of the Operations Support Division (OSD), Office of Information and Communications Technology (OICT): Assists in providing cartographic and geospatial information services to the Secretariat as well as the Security Council; Assists in providing timely geospatial information support to peacekeeping and other

Accessibility

30

UN Open GIS INITIATIVE

자료: <https://twitter.com/UNopenGIS/status/1192919493254758400> (검색일시): 2020.11.10

자료: https://inspira.un.org/psc/UNCAREERS/EMPLOYEE/HRMS/c/UN_CUSTOMIZATIONS.UN_JOB_DETAIL.GBL?Page=UN_JOB_DETAIL&Action=A&SiteId=1&JobOpeningId=122240&PostingSeq=1& (검색일시: 2020.11.10)



Thank you

UN의 오픈소스 하이브리드 아키텍처와 UN Open GIS Initiative 동향
UN Open GIS Initiative
Challenge & Opportunity

강혜경 연구위원, 김은화 연구원, 황유원 연구원
국토연구원 (UN Open GIS Initiative Secretariat Office)

UNOpenGIS@krihs.re.kr

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