GeoForAll

Monthly Newsletter

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Be part of "Geo for All"

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1. Activities of the Network

- GeoForAll community are pleased to share the summary and [recording of the webinar](#) mini-conference on "GeoForAll contributions to the United Nations Sustainable Development Goals" during World Commons Week 2019. UniqueMappersTeam have contributed to the "GeoForAll contributions to the United Nations Sustainable Development Goals" aims (more at https://www.osgeo.org/foundation-news/geoforall-miniconference-at-world-commons-week-2019/)

- The work that UniqueMappersTeam are doing for SDG2 and smallholder farmers' land rights is very important for Zero Hunger and Sustainable Development Goals (SDG) aims. Details at https://landportal.org/blog-post/2020/05/empowering-women-open-data-mapping-agriculture-implications-land-rights-and-sdgs

4. Conferences

Europe

September 2020
1. 15-18 September: [GIScience](#)
Venue: Poznań, Poland

North and Central America and the Caribbean

July 2020
2. 6 and 10 July: II Conference of Open GIS and Open Remote Sensing in Costa Rica

Venue: Virtual Event

Registration: From June 15 to 28, 2020 by [geografia.fcs.ucr.ac.cr](#) (more details in section "17. Ideas/ Information")

August 2020
3. 24-29 August: [FOSS4G](#).
Venue: Calgary Telus Convention Centre, Calgary, Canada *(Canceled. FOSS4G 2021 to be held in Beunos Aires, Argentina)*

October 2020
4. 5-9 October: III International Convention "Geography, Environment and Land Management"
Venue: University of Havana, Convention Centre, Havana, Cuba

GeoForAll Themes

- **OpenCity Smart**

  Theme under revision

- **Teacher Training & School Education**

  ➢ Chairs: Elżbieta Wołoszyńska-Wiśniewska (Poland), Nikos Lambrinos (Greece)

  ➢ Mail list: geoforall-teachertraining@lists.osgeo.org

  ➢ Website: http://wiki.osgeo.org/wiki/GeoForAll_TeacherTraining_SchoolEducation

- **CitizenScience**

  ➢ Chairs: Peter Mooney (Ireland) and Maria Brovelli (Italy)

  ➢ Mail list: https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-geocrowd

  ➢ Website: http://wiki.osgeo.org/wiki/Geocrowdsourcing_CitizenScience_FOSS4G

- **AgriGIS**

  ➢ Chairs: Didier Leibovici (U.K.) and Nobusuke Iwasaki (Japan)

  ➢ Mail list: https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-agrigis

  ➢ Website: http://wiki.osgeo.org/wiki/Agrigis

GeoForAll Regional Chairs and Contact Information

North America Region

Chairs: Helena Mitasova (USA), Charles Schweik (USA), Phillip Davis (USA) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-northamerica

Email: na.gfa.chair@osgeo.org

Iberoamerican Region

Chairs: Sergio Acosta y Lara (Uruguay) and Silvana Camboim (Brazil) and Antoni Pérez Navarro (Spain). Subscribe at mail list: https://lists.osgeo.org/mailman/listinfo/geoforall-iberoamerica

Email: geoforall-iberoamerica@lists.osgeo.org.

Africa Region

Chairs: Msilikale Msilanga (Tanzania), Serena Coetzee (South Africa) and Bridget Fleming (South Africa) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-africa

Email: africa.gfa.chair@osgeo.org

Asia Region (including Australia)

Chairs: Tuong Thuy Vu (Malaysia/Vietnam) and Venkatesh Raghavan (Japan/India) Subscribe at maillist http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-asiaaustralia

Email: asia.gfa.chair@osgeo.org

Europe Region

Chairs: Maria Brovelli (Italy) and Peter Mooney (Ireland) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-europe

Email: eu.gfa.chair@osgeo.org

5. Webinars

- GODAN in partnership with Plan4All and the UN FAO and in the context of the ongoing Kampala and Dubrovnik Inspire Hackathons offer all webinars at https://www.plan4all.eu/updates/kampala-inspire-hackathon-2020-webinars/. Their last webinar was on April 23, where participants could learn about the tools available through the SmartAfriHub platform, new mapping tools using QGIS, as well as a range of other tools useful in data mapping and related activities.

7. Training programs

- GeoForAll educational materials have been transferred to our new web site. GeoForAll educational inventory system, a place to search and share educational materials

- Train the Trainers: Tools & Techniques for Teaching about Sentinel-3 Marine Data. Duration: June, 22, 2020 – July 10, 2020. This course offers participants the opportunity to work with other trainers to incorporate the use of Copernicus marine data from EUMETSAT in to their own educational activities. Contact name: Hayley Evers-King (hayley.eversking@eumetsat.int). Language: English

- Introductory Webinar: Understanding Phenology with Remote Sensing. Three 1-hour sessions. Duration: June 30, 2020 | July 7, 2020 | July 14, 2020 — 11AM-12PM EDT (UTC-4) This training will focus on the use of remote sensing to understand phenology: the study of life-cycle events. Phenological patterns and processes can vary greatly across a range of spatial and temporal scales, and can provide insights about ecological

processes like invasive species encroachment, drought, wildlife habitat, and wildfire potential. This training will highlight NASA-funded tools to observe and study phenology across a range of scales. Attendees will be exposed to the latest in phenological observatory networks and science, and how these observations relate to ecosystem services, the carbon cycle, biodiversity, and conservation. Thematic area: Agriculture & Food Security, Ecosystems. Link: https://arset.gsfc.nasa.gov/land/webinars/phenology?utm_source=announcement&utm_medium=email&utm_campaign=Phenology. Language: English, Spanish.

11. Free books, educational materials, etc.

- Free book from The National Academies Press about Food and Agricultural research by 2030. Get it from https://www.nap.edu/catalog/25059/science-breakthroughs-to-advance-food-and-agricultural-research-by-2030
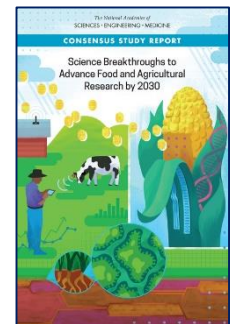
12. Articles

Acronyms

by **Nikos Lambrinos**, Chief Editor, and **Michael Finn**.

For those who would like to support this effort, please send any acronyms to the Chief Editor (labrinos@eled.auth.gr).

3DEP: 3-D Elevation Program

AAG: Association of American Geographers

AGI: Ambient Geographic Information

AGS: American Geographical Society

AGU: American Geophysical Union

AM/FM: Automated Mapping/Facilities Management

API: Application Programming Interface

ASPRS: American Society for Photogrammetry and Remote Sensing

AURIN: Australian Urban Research Infrastructure Network

BBSRC: Biotechnology and Biological Sciences Research Council

BIM: Building Information Modelling

CAADP: Comprehensive African Agricultural Development Programme

CAD: Computer Aided Design

CaGIS: Cartograhy and Geographic Information Society

CCGI: Collaboratively Contributed Geographic Information

CEGIS: Center of Excellence for Geospatial Information Science

CEOS: Committee on Earth Observation Satellites

CI: CyberInfrastructure

CLGE: The Council of European Geodetic Surveyors

CODATA: Committee on Data for Science and Technology

COGO: Coordinate geometry

CRC: Census Research Centre

CRS: Coordinate Reference System

CSA: Canadian Space Agency

CUDA: Compute Unified Device Architecture

DAAC: Distributed Active Archive Center (of NASA)

DEM: Digital Elevation Model

DSM: Digital Surface Models

DWG: Design file format

DXF: Drawing Interchange File

ECMWF: European Center for Medium range Weather Forecasting

EOS: Earth Observation Science

EOSDIS: Earth Observing System and Data Information System

EPA: Environmental Protection Agency

EPSG: European Petrol Survey Group (used in projection IDs)

ESA: European Space Agency

ESERO: European Space Education Resource Office

EUROGI: European Umbrella Organisation for Geographic Information

EuroSDR: European Spatial Data Research

FOSS: Free and Open Source Software

FOSS4G: Free and Open Source Software For Geospatial

GCP: Ground Control Point

GloFAS: Global Flood Awareness System

GNSS: Global Navigational Satellite System

GODAN: Global Open Data for Agriculture and Nutrition

GPS: Global Positioning System

GPX: GPS Exchange Format

GRASPgfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow integrated modeling to support Global Food Security

GSoC: Google Summer of Code

HOT: Humanitarian OpenStreetMap Team

HPC: high-performance computing

ICA: International Cartographic Association

ICSU-WDS: International Council for Science – World Data System

IDE: Spatial Data Infrastructure

INSPIRE: Infrastructure for Spatial Information in Europe

IPGH: Pan American Institute of Geography and History

ISO: International Organization for Standardization

ISPRS: International Society for Photogrammetry and Remote Sensing

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JAXA: Japan Aerospace Exploration Agency

KML: Keyhole Markup Language

LBS: Location-Based Service

LiDAR: Light Detection and Ranging

LOC: Local Organizing Committee

LOD: Level Of Detail

MIL: Media and Information Literacy

MoU: Memorandum of Understanding

NAD: North American Datum

NCSA: National Center for Supercomputing Applications

NED: National Elevation Dataset

NEPAD: NEw Partnership for African Development

NGA: National Geospatial Intelligence Agency

NHD: National Hydrologic Dataset

NLCD: National Land Cover Dataset

NSDI: National Spatial Data Infrastructure

NSF: National Science Foundation

OECD: Organisation for Economic Co-Operation and Development

OER: Open Educational Resources

OGC: Open Geospatial Consortium

OHI: International Hydrographic Office

 OSGeo: Open Source Geospatial Foundation

OSM: OpenStreetMap

OTB: Orfeo Tool Box

PPGIS: Public Participation in Geographic Information Systems

PPSR: Public Participation in Scientific Research

RCMRD: Regional Centre for Mapping of Resources for Development

RDA: Research Data Alliance

ROSHYDROMET: Russian Federal Service for Hydrometeorologyand Enviromental Monitoring

RUFORUM: Regional Universities Forum for capacity building in agriculture

SaaS: Software as a Service

SAR: Synthetic Aperture Radar

SDG: Sustainable Development Goal

SDI: Spatial Data Infrastructure

SIG: Geographic Information System

SIGTE: The GIS and Remote Sensing Service of the University of Girona, Spain

SPIDER: open SPatial data Infrastructure eDucation nEtwoRk

SQL: Structured Query Language

STISA 2024: Science Technology Innovation Strategy for Africa

STSM: Short Term Scientific Missions

TIN: Triangulated Irregular Network

UAV: Unmanned Aerial Vehicle

UML: Unified Modeling Language

UN-GGIM: United Nations Global Geospatial Information Management

USGS: U.S. Geological Survey

USGIF: United States Geospatial Intelligence Foundation

VGI: Volunteered Geographic Information

XSEDE: Extreme Science and Engineering Discovery Environment

WCS: Web Coverage Service

WFS: Web Feature Service

WGCapD: Working Group on Capacity Building and Data Democracy

WGS: World Geodetic System

WISERD: Wales Institute of Social & Economic Research, Data & Methods

WMO: World Meteorological Organization

WMS: Web Map Service

WMTS: Web Map Tiles Services

WOIS: Water Observation Information System

WPS: Web Processing Service

17. Ideas / Information

1. If you are interested in educational material, then go to https://www.osgeo.org/initiatives/geo-for-all/in-your-classroom/ where you can find software resources for your classroom. Also, go to "Resources" https://www.osgeo.org/resources/ to get a guidance on how to use open source projects and tools.

2. There is an invitation to anyone interested in submitting research articles to the Special issue "Advances in Social Network Analysis – Spatio-Temporal and Semantic Methods" in the Open Access Journal ISPRS International Journal of Geo-Information. More information and the full call for papers can be found at https://www.mdpi.com/journal/ijgi/special_issues/social_spatial

Submission deadline: 30 June 2020.

Data from geospatial applications, such as social media, location-based service (LBS), and volunteered geographic information (VGI) platforms, have become a prominent source for modeling human behavior and for better understanding complex social dynamics in geographic spaces. The massive amount of multi-dimensional data (spatial, temporal, semantic) from these sources is typically unstructured and thus calls for an advance in data representation, modeling, analysis, and visualization for the successful transition from data to information. This Special Issue is inviting contributions that demonstrate integrated analysis of spatial, temporal, and semantic data from social networks, including their content, linkage, and structure, towards a better understanding of social behavior, human interaction patterns, and the dynamic characteristics of real-world phenomena and events. This involves novel use of machine learning approaches, analysis frameworks, data mining, and (geo-)statistical methods to exploit unstructured content of social network data. This Special Issue also encourages the demonstration of new analytical tools; discussion of current data privacy and licensing issues; the exploration of data from lesser known social media, LBS, and VGI platforms; and the application of fusion methods of data across multiple platforms.

3. Special Issue "Geospatial Open Systems" ISPRS. International Journal of Geo-Information

This Special Issue intends to synergize insight about the state of knowledge of open systems scoping, design, implementation, deployment, use, and sustainability for geo-information (geospatial) applications. Manuscripts that broaden and/or deepen insight into these topics are candidates for the Special Issue.

Scope: Open systems provide free access to geo-data and geo-information in a variety of geospatial domains, such as environmental science and management, human dynamics, transportation planning and management, geo-information crowdsourcing, community organizing, and geosciences, among others. Open systems enable access for almost everyone, barring any illegal activity. Open systems might or might not use open source software as part of the development efforts. Open knowledge systems now in development for various applications promise to transform how people make use of data, information, evidence, and knowledge. The Special Issue explores the past, present, and future of open systems environments addressing data, information, and knowledge for geospatial applications. Any aspect of open geospatial data, information, knowledge, and software systems is a relevant topic as long as the topic is well reasoned and developed in a thorough manner in line with IJGI guidelines. Prospects for development and use of geospatial open source software are relevant for consideration. Software applications addressing these topics are also part of the scope, but the issue is not limited to these topics.

Deadline for manuscript submissions: 31 October 2020.

4. The Faculty of Geography of the University of Havana and the co-sponsoring institutions convene the III International Convention "Geography, Environment and Land Management" under the

slogan "For inclusive and sustainable territorial governance and management".

The event will be held from October 5 to 9, 2020, at the Convention Center of the University of Havana.

General objective of the Event:

Contribute to the analysis and dissemination of research carried out in the country and in other regions of the planet, mainly in Latin America, in the thematic areas of this III Convention, as well as the promotion of the scientific debate on the vital problems that currently exist in the geographical space and their transformation in view of the progress of the globalization and the dominant neoliberal orientation, which require a geographical education that contributes to the construction of a new culture of inclusive, participatory planning, governance and territorial management, and the evaluation of experiences accumulated in overcoming the pressing problems derived from climate change.

For more information: Dra. C. Nancy Pérez Rodríguez (nan@geo.uh.cu)

5. Special Issue entitled "Applications of Remote Sensing and Geospatial Technologies to Earth Observations" in the online journal, Applied Sciences (ISSN 2076-3417,

https://www.mdpi.com/journal/applsci).

For further reading, please follow the link to the Special
Issue: https://www.mdpi.com/journal/applsci/special_issues/Geospatial_RS

If this topic is of interest, you are warmly invited to submit a manuscript now or up until the deadline (1 December 2020). Submitted papers should not be under consideration for publication elsewhere. Authors are encouraged to send a short abstract or tentative title in advance.

6. The goal of the Kampala INSPIRE Virtual Hackathon 2020 is to continue to build and strengthen relationships between several EU projects and African communities that started in 2019 with the Nairobi INSPIRE hackathon.

You are invited to join in celebrating the fruits of this international collaboration to support a sustainable Africa. The INSPIRE hackathon is not an event, it is a process. You can read more about the projects at https://www.plan4all.eu/updates/kampala-inspire-hackathon-2020-challenges/

The results of this international collaboration to support a sustainable Africa can be found at https://www.smartafrihub.com/home/-/blogs/results-of-the-kampala-inspire-hackathon-2020

7. Project SPIDER: open SPatial data Infrastructure eDucation nEtwoRk.

The project SPIDER aims to promote and strengthen active learning and teaching towards open spatial data infrastructures. SPIDER is a collaboration of Bochum University of Applied Sciences (Germany), Delft University of Technology (Netherlands) KU Leuven (Belgium), Lund University (Sweden), and the University of Zagreb (Croatia).

The project received an Erasmus+ grant for a three-year period. In the past 20 years, European public authorities have invested considerable resources in the development of spatial data infrastructures (SDIs). National SDIs were developed throughout Europe to facilitate and coordinate the exchange and sharing of geographic data. The European INSPIRE Directive acted as an important driver for this development. These SDIs initially focused on data sharing among public authorities as a closed system. Currently, SDI education around the globe is characterized by single disciplinary or siloed views missing out on opportunities of a holistic, multidisciplinary view on SDIs. In addition, the recent Open SDI trend has not been implemented in any SDI curriculum yet. Moreover, teaching methods are still limited to traditional teaching in the classroom. As a consequence, there is barely an international exchange of educational material and approaches on open SDI among universities. An overview and detailed analysis of existing SDI education is unavailable and an international platform facilitating the SDI education is lacking. The SPIDER project aims to overcome these shortcomings.

The overarching objective of the project is to promote and strengthen active learning and teaching towards Open SDI.

Subobjectives are:

1. To explore, develop and implement the concept of Open SDI as a new paradigm to SDI education

2. To develop and promote active and multidisciplinary learning and teaching on Open SDI

3. To develop a general toolkit for implementing Open SDI in existing curricula in study programs of different disciplines

4. To drive the uptake of Open SDI teaching and learning resources by teachers and students via open online platforms

More information – Contact the project coordinator Prof. Dr. sc. Jan Schulze-Althoff (Jan.Schulze-Althoff@hs-bochum.de) and find more information about the project by visiting the website https://sdispider.eu/wp/.

SPIDER is an ERASMUS+ project funded under KA2 Cooperation for innovation and the exchange of good practices, KA203 – Strategic Partnerships for higher education.

8. Empowering Women for Open Data Mapping in Agriculture: Implications for Land Rights and the SDGs in Africa. There is an interesting blog post from the Land portal Foundation (https://landportal.org) that summarises perfectly the interventions made by the panellists of the recently held GODAN webinar on "Empowering Women for Open Data Mapping in Agriculture: Implications for Land Rights and the SDGs in Africa"

9. From Foteini Zampati (foteini.zampati@godan.info) Data Rights Research Specialist

The new GODAN, GFAR, CTA Codes of Conduct toolkit for agricultural data has just been launched!

The aim and purpose of this online tool on codes of conduct is to provide a guide to best data management practice to farmers and the agri-businesses and associations who collect, manage, and share their data. It has a further practical purpose: to provide the conceptual basis for general scalable guidelines for everyone dealing with the production, ownership, sharing, and use of data in agriculture.

These Guidelines help you produce a guidance list to consider when sharing or collecting agricultural data with partners.

Find out more and explore the tool here: https://www.godan.info/news/new-agricultural-code-conduct-toolkit

10. From Suchith Anand (Suchith.Anand@nottingham.ac.uk)

For those interested in Agrisemantics, the following resources might be of interest.

GODAN Action's Agrisemantics Map of Data Standards is at https://vest.agrisemantics.org

GODAN Action involves the Food and Agriculture Organization of the United Nations (FAO), Wageningen UR, the Technical Centre for Agriculture and Rural Cooperation (CTA), the Global Forum on Agricultural Research (GFAR), AgroKnow, the Land Portal, the Open Data Institute (ODI), AidData, the Institute of Development Studies (IDS).

A survey of semantic web technology for agriculture paper might be of interest. Details at https://www.sciencedirect.com/science/article/pii/S2214317318302580

Recordings of panel discussion on Agrisemantics at Semantic Web Applications and Tools for Health Care and Life Sciences 2019 are at http://www.swat4ls.org/workshops/edinburgh2019/agrisemantics/

https://www.godan.info/news/agrisemantics-health-care-and-life-sciences

11. II Conference of Open GIS and Open Remote Sensing in Costa Rica

Objectives:

* Exhibit work related to the application of open GIS and remote sensors.

* Conduct workshops in the field of open GIS and remote sensors

Important dates:

Date of the activity: July 6 and 10, 2020.

Venue: Virtual event.

Registration: From June 15 to 28, 2020, by geografia.fcs.ucr.ac.cr

Terms of reference:

Maximum quota per workshop: 30 people. The organization will make a balanced selection among the target population of the activity: students, graduates, officials of public or private companies, and the general public.

The interested party, when registering, should schedule the date and time of the activity, so they assume the possibility of admission to the workshops or conferences.

The interested party may register in one or two workshops of interest, and they must have their personal computer, stable internet connection, installed software, and data.

The language of the event is Spanish.

Publication of the final list of enrolled: July 1, 2020, by email.

Costs: This event is free.

More information: Organized by: Geography School and Graduate School, in coordination with the Research Program in Applied Geomatics and Cartography - Training and updating program (PROCADI)

Email: procadi.eg@ucr.ac.cr

12. From Suchith Anand
(Suchith.Anand@nottingham.ac.uk).

The Massive Open Online Course (MOOC) on Open Data Management in Agriculture and Nutrition is now available in French, thanks to the generous efforts of

GODAN Partner, the African Francophone community for open data, CAFDO.
THE COURSE MATERIALS ARE AVAILABLE HERE FOR USE OR DOWNLOAD

The intended audience is reasonably broad, including information professionals interested in open data research and management (including ICT specialists, STEM journalists, communications professionals and archivists), data scientists and researchers, and policy and decision makers.

We have already received considerable interest in making this useful resource available in additional language versions. On behalf of the wider GODAN community, we would like to extend our thanks to CAFDO, for undertaking the translation into French and we are looking for collaborations with further partners for other languages, with Spanish and Portuguese a priority. There is an open call for making open data management course materials available in major world languages at https://www.godan.info/news/open-call-making-open-data-management-course-materials-available-major-world-languages

If you or your organisation are interested in participating, please send an Expression of Interest, explaining how you intend to contribute (including details on expertise, resources, etc) to the editorial work to ensure it is accurate and of high quality. Please outline a versioning strategy, as you plan updates to the original text. Contact GODAN Operations Director Sam Compton by 30 May, 2020, to register your interest at samuel.compton@godan.info