



# GeoForAll

Monthly Newsletter



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## Be part of "Geo for All"

### 4. Conferences

#### NORTH AMERICA

##### October 2022

1. 2-6 October: [GIS-Pro 2022](#) URISA's 60th Anniversary Conference

Venue: Boise, ID, USA

2. 14-16 October: [National Council for Geographic Education](#) (NCGE)

Venue: Minneapolis, MN, USA



#### EUROPE

##### July 2022

3. 5-8 July: [GISalzburg22](#). Designing future with Geoinformatics

Venue: Salzburg, Austria

4. 12-13 July: [IGU-CGE: Teaching Geography: Past and Future Challenges](#).

Venue: Rennes, France

5. 18-22 July: [IGU Centennial Conference Paris](#).

Venue: Sorbonne, Institut de Géographie, Société de Géographie.

##### August 2022

6. 19-21 August: [State of the Map 2022](#). OpenStreetMap Conference

Venue: Florence, Italy

7. 22-28 August: [FOSS4G 2022 International Conference](#)

Venue: Firenze (Florence), Italy

8. 30 August – 2 September: [RGS-IBG Annual International Conference](#)

Venue: Newcastle University, UK



## Editorial Board

Please refer to the appropriate person according to the following table:

<p>Chief Editor</p> 	<p>Nikos Lambrinos, Professor, Dept. of Primary Education, Aristotle University of Thessaloniki, Greece. President of the Hellenic digital earth Centre of Excellence <a href="mailto:labrinos@eled.auth.gr">labrinos@eled.auth.gr</a></p>	Oceania
<p>Co-editor</p> 	<p>Rizwan Bulbul, Assistant Professor of GIScience Head of Geospatial Research and Education Lab Department of Space Science, Institute of Space Technology, Islamabad, Pakistan <a href="mailto:bulbul@grel.ist.edu.pk">bulbul@grel.ist.edu.pk</a></p>	India, Sri Lanka, Pakistan, Afghanistan, Nepal, Burma, Iran, Iraq, Jordan, Syria, Israel, Lebanon, Turkey, Saudi Arabia, Oman, Yemen, United Arab Emirates, Kuwait and Islands of S. Pacific.
<p>Co-editors</p> 	<p>Pavel Kikin, Senior Lecturer "Department of applied informatics and IT", Siberian State Univer. of Geosystems and Technologies Alexey Kolesnikov, Senior Lecturer "Department of cartography and GIS", Siberian State Univer. of Geosystems and Technologies <a href="mailto:it-technologies@yandex.ru">it-technologies@yandex.ru</a></p>	Russia, Mongolia, China, Japan, S. Korea, Vietnam, Thailand, Malaysia, Laos, Myanmar, Cambodia, Singapore, Brunei, Indonesia, Philippines, Turkmenistan, Uzbekistan, Tajikistan and Kyrgyzstan.
<p>Co-editor</p> 	<p>Rania Elsayed, Computers &amp; Information Researcher, Division of Scientific Training &amp; Continuous Studies, National Authority for Remote Sensing &amp; Space Sciences, Cairo, Egypt. <a href="mailto:ranyaalsayed@gmail.com">ranyaalsayed@gmail.com</a></p>	Africa
<p>Co-editor</p> 	<p>Seraphim Alvanides, Reader (Geographical Information Science) Northumbria University, Newcastle NE1 8ST, United Kingdom. <a href="mailto:s.alvanides@gmail.com">s.alvanides@gmail.com</a></p>	Scandinavian countries, Denmark, Germany, Austria, Switzerland, UK, Ireland, Iceland
<p>Co-editor</p> 	<p>Antoni Perez Navaro, Associate Professor at Universitat Oberta de Catalunya (UOC) Computer Sciences and Multimedia Department <a href="mailto:aperezn@uoc.edu">aperezn@uoc.edu</a></p>	Italy, Malta, Spain, Portugal, France, Belgium, The Netherlands, Luxemburg.
<p>Co-editor</p> 	<p>Emma Strong Planner with Pueblo County, Colorado <a href="mailto:eestrong118@gmail.com">eestrong118@gmail.com</a></p>	North and Central America
<p>Co-editor</p> 	<p>Sergio Acosta Y Lara, Departamento de Geomática Dirección, Nacional de Topografía, Ministerio de Transporte y Obras Públicas, URUGUAY <a href="mailto:sergio.acostaylara@mtop.gub.uy">sergio.acostaylara@mtop.gub.uy</a></p>	South America
<p>Co-editor</p> 	<p>Codrina Ilie, PhD student at the Technical University of Civil Engineering, Bucharest, Romania</p>	The Balkans, Ukraine, Moldavia, Estonia, Lithuania, Belarus, Latvia, Hungary, Czech Republic, Slovakia
<p>Production Designer</p> 	<p>Nikos Voudrislis, MSc, PhD in geography education. <a href="mailto:nvoudris@gmail.com">nvoudris@gmail.com</a></p>	Design and final formation of the newsletter
	<p>Paulo César Coronado Sánchez, Professor of computer sciences at Universidad Distrital Francisco José de Caldas, Head of GISEPROI and OSGeoLabUD research Group. Bogotá, Colombia <a href="mailto:paulocoronado@gmail.com">paulocoronado@gmail.com</a></p>	Translator and designer of the Spanish Edition



## 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](mailto:geoforall-teachertraining@lists.osgeo.org)

➤ Website: [http://wiki.osgeo.org/wiki/GeoForAll\\_TeacherTraining\\_SchoolEducation](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](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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:eu.gfa.chair@osgeo.org)



## GeoAmbassador Content table

July 2016, Vol.2, no.7	Prof. Georg Gartner, Vienna University of Technology
Aug 2016, Vol.2, no.8	Prof. Silvana Philippi Camboim, Federal University of Paraná, Brazil
Sep 2016, Vol.2, no.9	Nimalika Fernando, Sri Lanka
Oct 2016, Vol.2, no.10	Sergio Acosta Y Lara, Montevideo Uruguay
Nov 2016, Vol. 2, no. 11	Victoria Rautenbach, Centre of Geoinformation Science Univ. of Pretoria, South Africa
Dec 2016, Vol.2, no.12	Dr. Daria Svidzinska, Taras Shevchenko National University of Kyiv, Ukraine
Jan 2017, Vol.3 no.1	Dr. Mark Ware, University of South Wakes, UK
Feb 2017, Vol.3, no. 2	Dr. Rafael Moreno Sanchez, Department of Geography and Environmental Sciences, University of Colorado Denver, USA
March 2017, Vol.3 no.3	Dr. Tuong Thuy Vu, School of Environmental and Geographical Sciences, University of Nottingham, Malaysia campus
April 2017, Vol.3 no.4	Michael P. Finn, U.S. Geological Survey
May 2017, Vol.3 no.5	Dr. Peter Mooney, Maynooth University, NASA
June 2017, Vol.3 no.6	Patrick Hogan, NASA
July 2017, Vol.3 no.7	Prof. Dr. Josef Strobl, Salzburg
September 2017, Vol.3 no.9	Bridget Fleming, South Africa
October 2017, Vol.3 no.10	Sven Schade, Joint Research Centre, Italy
November 2017, Vol.3 no.11	Luciene Stamato Delazari, Universidade Federal do Paraná in Brazil
December 2017, Vol.3 no.12	Charlie Schweik, Univ. of Massachussets, USA
January 2018, Vol.4 no.1	Julia Wagemann, European Centre for Medium-Range Weather Forecasts
February 2018, Vol.4 no.2	Barend Köbben, Department of Geo-Information Processing University of Twente
March 2028, Vol.4 no.3	Kurt Menke, Birds Eye View
April 2018, Vol.4 no.4	Dr. Clous Rinner, Department of Geography and Environmental Studies at Ryerson University, Toronto, Canada
June 2018, Vol.4, no.6	Martin Landa, Department of Geomatics, Faculty of Civil Engineering, Czech Technical University (CTU) in Prague

## Lab of the Month, Content table

Aug 2015, Vol.1 no.1	Open Source Geospatial Lab, Kathmandu University, Nepal (Asia)
Sep 2015, Vol.1 no.2	FOSS4G Lab, University of Colorado Denver (USA)
Oct 2015, Vol.1, no.3	Open Source Geospatial Lab, University of Southampton, UK (Europe)
Nov 2015, Vol.1 no.4	The Northeast Institute of Geography and Agroecology of Chinese Academy of Science, China (Asia)
Jan 2016, Vol.2 no.1	Centre for Geoinformation Science, University of Pretoria, South Africa, (Africa)
Feb 2016, Vol.2 no.2	Open Source Geospatial Lab, University of Newcastle, UK, (Europe)
Mar 2016, Vol.2 no.3	SMART Open Source Geospatial Lab, University of Wollongong, (Australia)
Apr 2016, Vol.2 no.4	Regional Centre for Mapping of Resources for Development, Nairobi, Kenya (Africa)
May 2016, Vol.2 no.5	GeoDa Centre – Arizona State University, (USA)
June 2016, Vol.2 no.6	Direccion Nacional de Topografia – MTOP Montevideo, Uruguay, (South America)
July 2016, Vol.2 no.7	SIGTE – University of Girona, Spain (Europe)
August 2016, Vol.2 no.8	Open Source Geospatial Lab, Department of Geodesy and Surveying, Budapest Univ. of Technology and Economics, Hungary (Europe).
September 2016, Vol.2 no.9	Open Source Geospatial Lab, Faculty of Geodesy, University of Zagreb, Croatia, (Europe)
October 2016, Vol.2 no.10	Hellenic digital earth Centre of Excellence, Aristotle University of Thessaloniki, Greece, (Europe)
November 2016, Vol.2 no.11	Department of Geoinformatics, Palacký University in Olomouc, Czech Republic
December 2016, Vol.2 no.12	Asian Institute of Technology, Bangkok, Thailand
January 2017, Vol.3 no.1	Spatial Lab, Texas A&M, Corpus Christi, USA
February 2017, Vol.3 no.2	Open Source Geospatial Lab, Faculty of Civil Engineering, Belgrade, Serbia
March 2017, Vol.3 no.3	Geomatics and Earth Observation Laboratory (GEOlab) , Politecnico di Milano, Italy
April 2017, Vol.3 no.4	Faculty of Civil Engineering, Department of Geomatics, Czech Technical University in Prague, Czech Republic
May 2017, Vol.3 no.5	the Laboratory of socio-geographical research of the University of Siena, ITALY
June 2017, Vol.3 no.6	A World Bridge program
July 2017, Vol.3 no.7	Department of Civil, Environmental and Mechanical Engineering of the University of Trento, Italy
August 2017, Vol.3 no.8	Institute of Geography, Faculty of Science, Pavol Jozef Šafárik University in Košice, Slovakia
November 2020, Vol.6 no.11	Universitat Oberta de Catalunya (UOC), Spain
January 2021, Vol.7 no.01	gvSIG Uruguay Community, Uruguay



## October 2022

9. 26-28 October: [XII International Congress of Geomatics and Earth Sciences, TOPCART, 2022](#)

Venue: Seville, Spain

## ASIA

### October 2022

10. 3-7 October: [The Asian Conference on Remote Sensing – 2022](#) (ACRS-2022)

Venue: Ulaanbaatar, Mongolia (online)

## 5. Webinars

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- If you want to start learning how to use QGIS, there are some excellent free resources at <https://www.gislounge.com/free-ways-to-learn-qgis/> and [https://www.gislounge.com/self-guided-qgis-courses/?utm\\_medium=email&utm\\_campaign=GISNL-Aug-27-2020&utm\\_source=YMLP](https://www.gislounge.com/self-guided-qgis-courses/?utm_medium=email&utm_campaign=GISNL-Aug-27-2020&utm_source=YMLP)

## 6. Courses

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- How to explore the new Sentinel-3 Data (III) - Data Access Services  
Start date: September 08, 2022  
End date: September 08, 2022  
Organizer: EUMETSAT  
Format/Training type: Online Course  
Language: English  
Contact name: EUMETSAT User Helpdesk  
Contact email: [OPS@eumetsat.int](mailto:OPS@eumetsat.int)  
Link: <https://training.eumetsat.int/course/view.php?id=436>

## 7. Training programs

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

## 8. Key Research Publications

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- “Global Community Guidelines for Documenting, Sharing, and Reusing Quality Information of Individual Digital Datasets” available at <https://datascience.codata.org/articles/10.5334/dsj-2022-008/>

## 11. Free books, educational materials, etc.

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- Visit the YouTube QGIS channel at <https://www.youtube.com/channel/UCGS162t4hkOA0b35ucf1yng/videos> to get videos of QGIS applications, representations and ideas.

## 12. Articles

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### 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](mailto:labrinos@eled.auth.gr)).

3DEP: 3-D Elevation Program

AAG: Association of American Geographers

AGI: Ambient Geographic Information



AGS: American Geographical Society	DWG: Design file format
AGU: American Geophysical Union	DXF: Drawing Interchange File
AI: Artificial Intelligence	ECMWF: European Center for Medium range Weather Forecasting
AM/FM: Automated Mapping/Facilities Management	EOS: Earth Observation Science
API: Application Programming Interface	EOSDIS: Earth Observing System and Data Information System
ASPRS: American Society for Photogrammetry and Remote Sensing	EPA: Environmental Protection Agency
AURIN: Australian Urban Research Infrastructure Network	EPSG: European Petrol Survey Group (used in projection IDs)
BBSRC: Biotechnology and Biological Sciences Research Council	ESA: European Space Agency
BDS: BeiDou Navigation Satellite Demonstration System	ESERO: European Space Education Resource Office
BIM: Building Information Modelling	EUROGI: European Umbrella Organisation for Geographic Information
CAADP: Comprehensive African Agricultural Development Programme	EuroSDR: European Spatial Data Research
CAD: Computer Aided Design	FOSS: Free and Open Source Software
CaGIS: Cartography and Geographic Information Society	FOSS4G: Free and Open Source Software For Geospatial
CCGI: Collaboratively Contributed Geographic Information	GCP: Ground Control Point
CEGIS: Center of Excellence for Geospatial Information Science	GDAL: Geospatial Data Abstraction Library
CEOS: Committee on Earth Observation Satellites	GEO: Group on Earth Observations
CI: CyberInfrastructure	GEO: Geosynchronous Earth Orbits
CLGE: The Council of European Geodetic Surveyors	GloFAS: Global Flood Awareness System
CODATA: Committee on Data for Science and Technology	GNSS: Global Navigational Satellite System
COGO: Coordinate geometry	GODAN: Global Open Data for Agriculture and Nutrition
CRC: Census Research Centre	GPS: Global Positioning System
CRS: Coordinate Reference System	GPX: GPS Exchange Format
CSA: Canadian Space Agency	GRACE: Gravity Recovery and Climate Experiment (satellite program)
CSSTEAP: Center for Space Science & Technology Education in Asia and the Pacific	GRASPGfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow integrated modeling to support Global Food Security
CUDA: Compute Unified Device Architecture	GSoC: Google Summer of Code
DAAC: Distributed Active Archive Center (of NASA)	HLPF: High Level Political Forum (of UN)
DEM: Digital Elevation Model	HOT: Humanitarian OpenStreetMap Team
DSM: Digital Surface Models	



- 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
- ISRO: Indian Space Research Organization
- JAXA: Japan Aerospace Exploration Agency
- KML: Keyhole Markup Language
- LBS: Location-Based Service
- LEO: Low Earth Orbits
- LiDAR: Light Detection and Ranging
- LOC: Local Organizing Committee
- LOD: Level Of Detail
- MEO: Medium Earth Orbits
- MIL: Media and Information Literacy
- MoU: Memorandum of Understanding
- MSS: Multispectral Scanner
- 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
- NOOSA: United Nations Office for Outer Space Affairs
- NRSA: Indian National Remote Sensing Agency
- 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
- RBV: Return Beam Vidicon
- RCMRD: Regional Centre for Mapping of Resources for Development
- RDA: Research Data Alliance
- ROSCOSMOS: Russian Federal Space Agency
- ROSHYDROMET: Russian Federal Service for Hydrometeorology and Environmental 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
- SWIR: Short Wave Infrared
- 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

VNIR: Visible Near Infrared

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

to the guest editor of a special issue with the title of the paper, authors, and abstract. The full manuscript, as a word document, will be uploaded to [IJPM Dashboard](#).

Issue 1 - Unravelling the history, theory, scope, and politics of participatory mapping (submit by June 1st, 2022)

Issue 2 - Methods and Practice of Participatory Mapping (submit by December 1st, 2022)

Issue 3-Indigenous and Rural Community Mapping (submit by April 2023)

Issue 4 - The Impact of Participatory Mapping on Urban Planning and Development (submit by August 2023)

If you're unsure if your topic fits within the scope of the journal, please email [journal@pmappingsociety.org](mailto:journal@pmappingsociety.org).

3. [FLUID Earth](#). Fluid Earth is an interactive web application that allows you to visualize current and past conditions of Earth's atmosphere and oceans.

You can use Fluid Earth to learn about the atmosphere and oceans by exploring the daily conditions in places where you live, work, and play or examining whole regions of the planet over years. In particular, Fluid Earth provides hands-on visualizations of conditions in polar regions, changes they are undergoing, and connections between polar regions and the rest of the planet. An open-source application, Fluid Earth is a vehicle for modern Earth science communication, making information used by the scientific community accessible and engaging to everyone. Fluid Earth is explorable 24 hours a day, 7 days a week.

4. [Space Service Hub: Launch event](#), July 22, 2022. (online event)

During this launch event, the audience will be navigated through an animated version of planet Earth to get acquainted with the different satellite-based services populating the 3D web platform. Participants will have the chance to learn more about ESA's incentives and competitions behind this initiative. The

## 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. Call for article submission

[The International Journal for Participatory Mapping](#) (IJPM) Editorial Board ([journal@pmappingsociety.org](mailto:journal@pmappingsociety.org)) has identified special themes for the first four issues which will cover the first two years of the publication. Papers can be submitted for peer review anytime before the deadlines outlined in the theme calls. You need to indicate your intent to submit a paper by email





solutions of the companies involved will be showcased in short videos. There will be room for questions and interaction with the different representatives and speakers throughout the session.



5. [GIS4Schools](#) (from the website). Leading partner: Euronike (Italy). Erasmus+ project.

The Gis4Schools project is a strategic partnership in the field of School Education aimed at introducing new methodologies based on the use of GIS technologies applied to the impact of climate change on the environment in order to improve STEAM's learning by pupils.



The project “GIS4Schools” addresses, on a transnational basis, digital skills (along with the underlying technological elements) and climate change awareness and understanding (along with the underlying scientific elements) for secondary schools pupils and teachers supported by experts guidance.

More specifically, the GIS4Schools project contributes to increasing the interest of secondary schools' pupils in STEAM disciplines. It enhances their level of knowledge and capabilities by involving them in the co-creation of new methodologies and replicable digital tools using and exploiting Earth Observation (EO) and other data to develop GIS products in order to address the impact of climate change on the local environment. To improve STEAM's learning, it is fundamental “to find better ways to nurture the curiosity and cognitive resources of children” by linking science with other subjects and disciplines. The purpose is to enable students to better understand and tackle the environmental and societal challenges,

even at the local level. In this approach, GIS is a precious enabling tool for the engagement of pupils in analysis related to their environment and community.

The following are some useful materials produced during the project:

GIS4Schools Training Package: [Download the GIS4Schools Handbook](#)

Have a look at the open-access archive on Zenodo: <https://bit.ly/3tsPVQL/> <https://github.com/GIS4Schools>

Check the free lessons from the Politecnico di Milano on Thinkific: <https://bit.ly/3O9Phzk>

