



New trends in the EO*GI job market and the EO4GEO approach to Training Offers

**EO4GEO: development of training materials
and offers based on actual needs**



New trends in the EO*GI job market and the EO4GEO approach to Training Offers

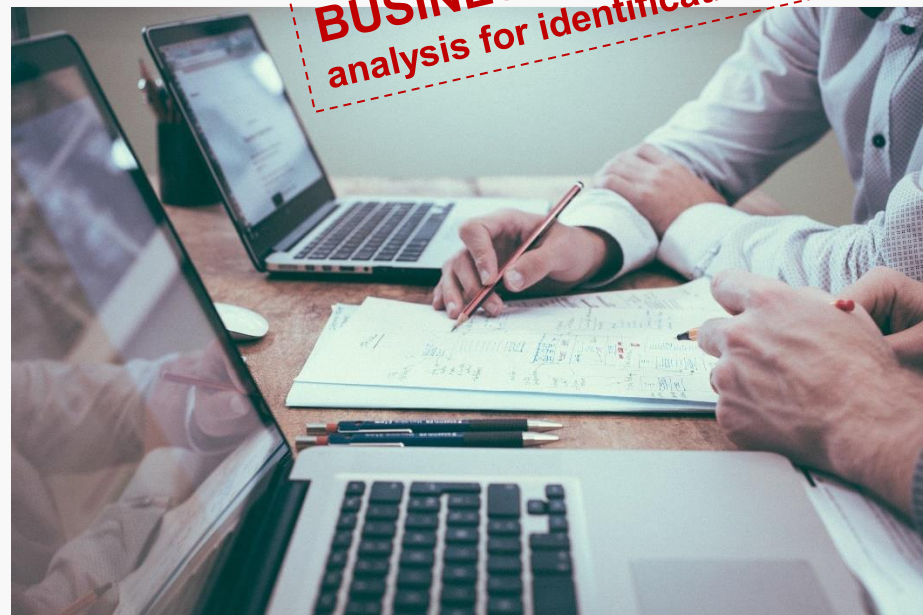
**EO4GEO: development of training materials
and offers based on actual needs**

How to get there?

INTERVIEWS
with private & public sector



BUSINESS PROCESSES
analysis for identification of tasks



EO4GEO training approach



Co-funded by the
Erasmus+ Programme
of the European Union

Gathering needs for training by
understanding business contexts

Designing academic courses and
vocational education and trainings

Performing
demonstration trainings

General design

Business processes and
Occupational profiles
([Occupational profile tool](#))

Designing curricula
([Curricula design tool](#))

Training Materials
([Training Material catalogue](#))

Training Actions
([Training Action list](#))



EO4GEO training approach



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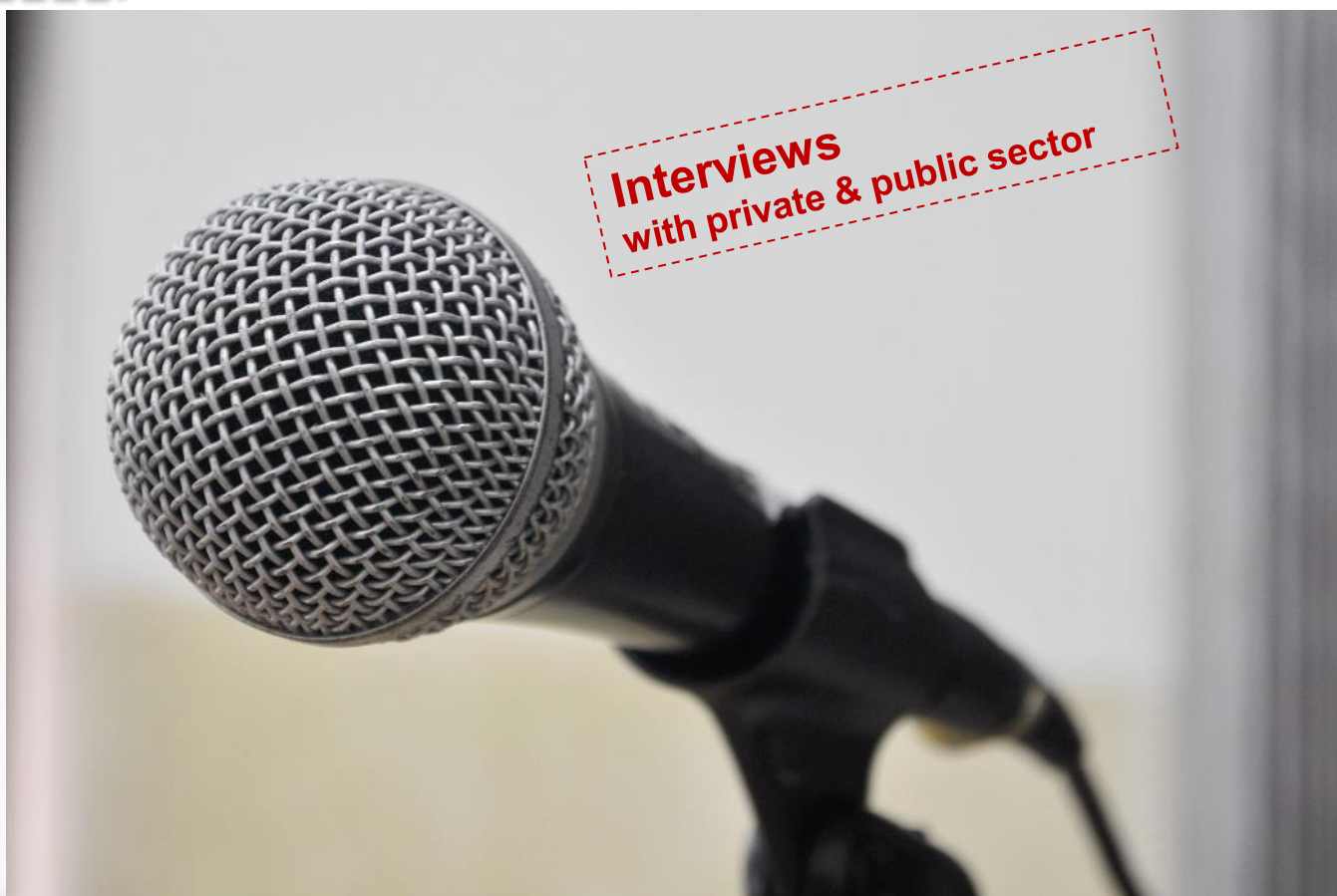
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Lack of specialised skills:

Selling skills for EO products and services

Experts in EO/GI with a background in cloud computing, machine learning and programming

PRIVATE:
skills in data analytics and machine learning; commercial and technical skills

PUBLIC:
experts in EO*GI techniques; lack of know-how on the use of products/services and relevant training

Skills administration would need:

Hard skills: GIS and data processing; computing; knowledge of deep learning techniques.

Combination of soft & technical skills

Soft skills:
commercial/selling skills

Intensive up-to-date training

PRIVATE:
leadership skills, dialogue with the end user, customer awareness.

Public update on the latest technological developments; effective use of EO data.

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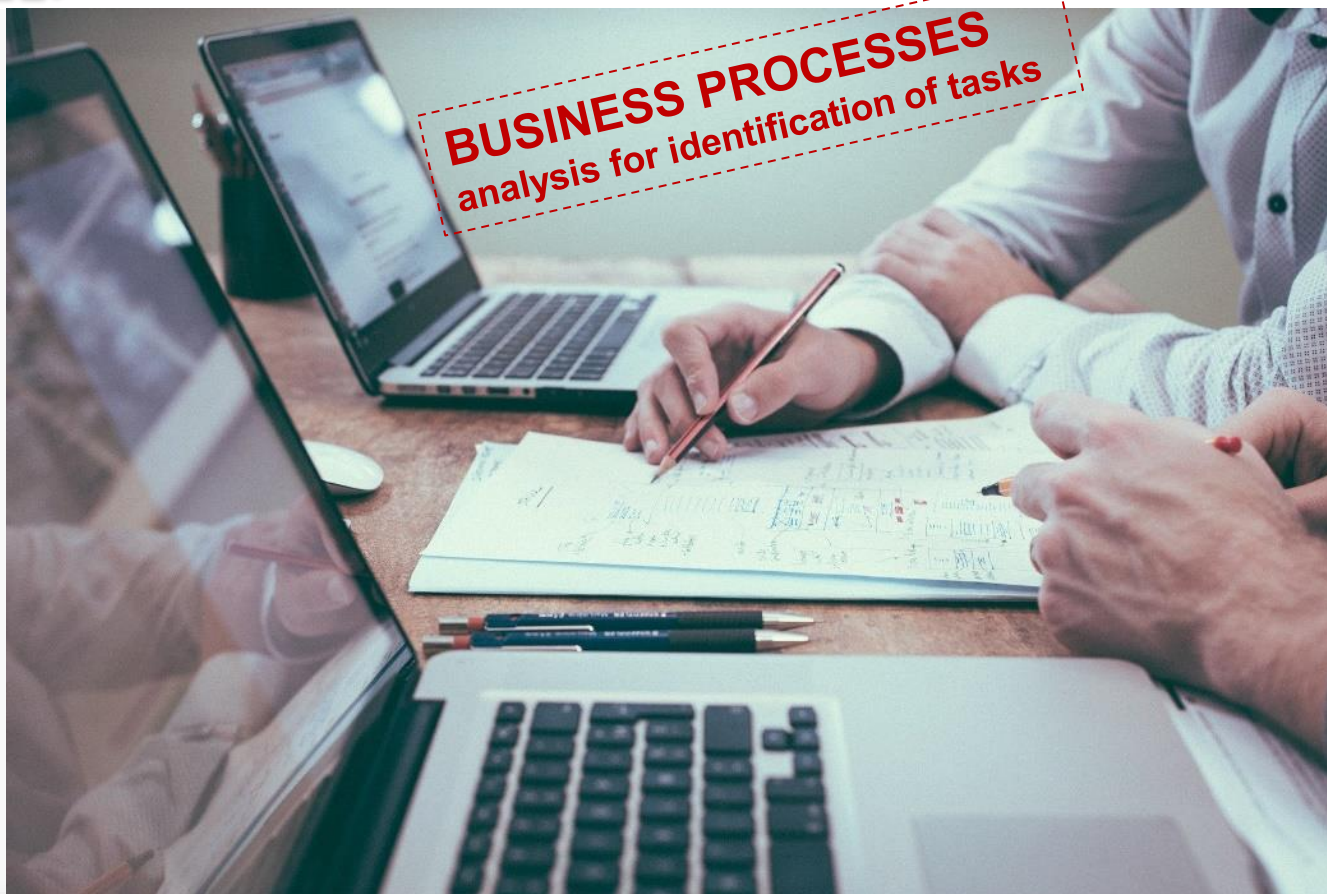
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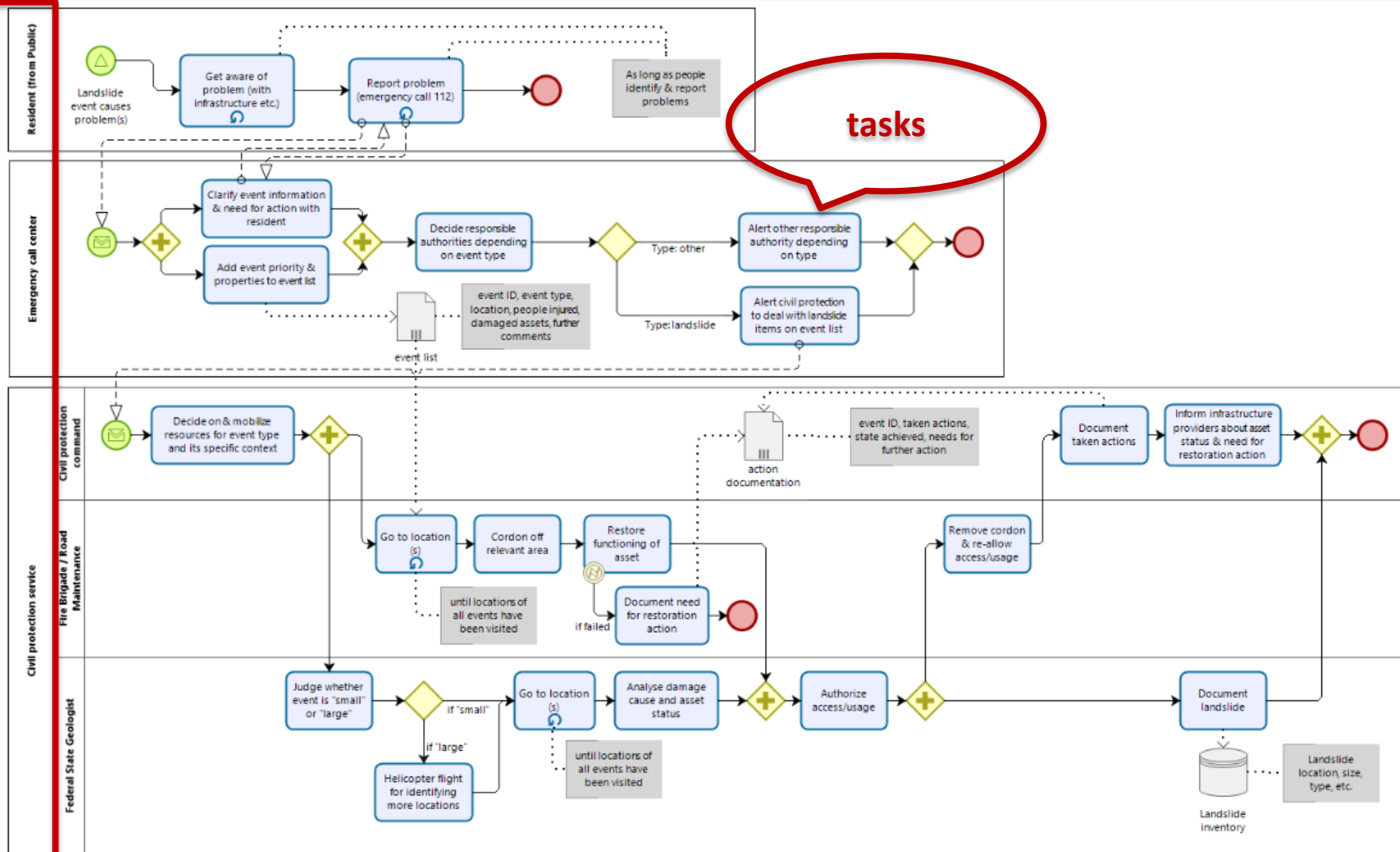
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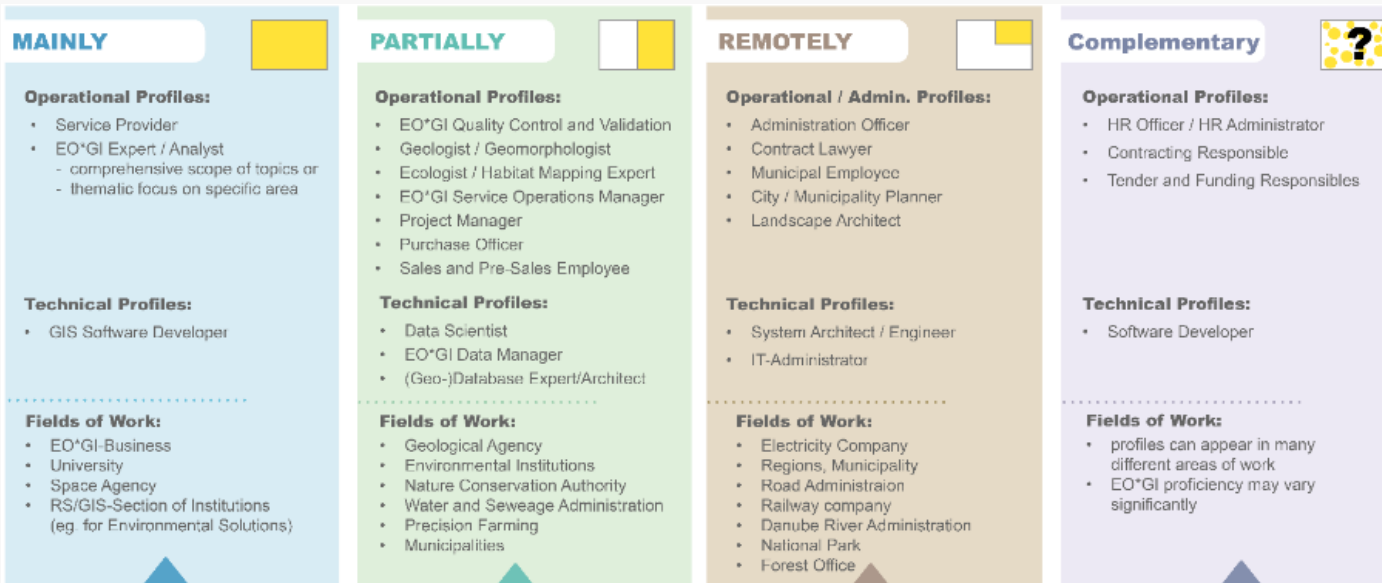
Training Materials
([Training Material catalogue](#))

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([Training Action list](#))

BUSINESS PROCESSES
analysis for identification of tasks







Profiles mentioned in BPMNs:

Geological Agency of the Federal State Customer Contact EO*GI Data Manager EO*GI Analyst Geomorphologist/Geologist EO*GI Innovator HR Officer/HR Administrator EO*GI Service Operations Manager Geocatabases & IT Administrator EO*GI Quality Control and Validation Regional/National Nature Conservation Authority Service Provider Ecologist/Habitat Mapping Expert MM SpA (engineering company) Service Provider Customer Pre-Sales Project Manager EO*GI Analyst IT-Administrator Service Provider - Tender Purchase Officer HR Officer/HR Administrator Service Provider Customer Pre-Sales Project Manager EO*GI Analyst IT-administrator EO*GI Quality Control and Validation Administration Officer GIS Analyst Business Analyst Water Management Expert System Architect Database Architect Data Scientist System Engineer Geo-Information Expert Database Expert Software Developer GIS Software Developer Danube River Administration Service Provider Stakeholder Service Provider Baltic Environmental Forum ERM Coordinator RS-Section - Institute for Environmental Solution Regional Stakeholder involved in Agriculture Monitoring GIS Expert EO Expert Model Expert Petaciato Municipality Geological Survey Baia Archaeological park/Municipality of Pozzuoli Geological Survey Sicily Region, Etna National Park Geological Survey Municipality of Como Geological Survey of Italy Service Provider External Stakeholder for Air Quality Planning, Abatement Strategy and Decision Making External Stakeholder: General Secretariat of Civil Protection at Regional or Country Local Forest Office Solar (PV/CSP) farm Operators, Managers of Electricity EO Analyst Service Public de Wallonie (SPW) Coordinator SPW Technician ISSEP Technician ISSEP Coordinator Service Provider - Product of Sale Stakeholder Service Provider - Project Fundings Stakeholder - Fundings City Planners (municipality) Service Provider Road Administration (municipality) Municipalities Elderly Care Service Provider Regional Health Authorities Road Administration (Municipality) Service Provider Road Administration, Stockholm Water Service Provider Service Provider Landscape Architects City Planners Service Provider Ecologists Municipality Planners Researchers KI Region Stockholm Service Provider Project Manager State Road and Railway companies Administration Officer Stakeholder Purchase Officer GIS-Section - Institute for Environmental GIS-Expert - Local Forest Office Building Permit Officer Service Provider IT Systems Architect Contract Lawyers HR Officer/HR Administrator EO*GI Analyst (biotope mapping service) EO*GI Quality Control and Validation Tomaresca Windery



Mainly EO*GI
related profiles



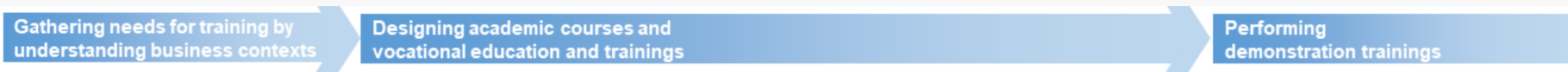
Partially EO*GI
related profiles



remotely EO*GI
related profiles



complementary
profiles



General design

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Example of a Curriculum
- skills gap related
- BoK-annotated



Course: Management view on Spatial Data Infrastructures

This module gives an overview of the non-technical aspects related to Spatial Data Infrastructures (SDI). In an SDI several technical and non-technical components work together. This module focuses on the non-technical components and is targeting process owners and managers.

Study areas (11)

What is a Study area?

- Community development (Architecture and construction)
- Town and country planning (Architecture and construction)
- Urban planning (Architecture and construction)
- Administration (Business and administration)
- Information processing/data entry (Business and administration)
- Local public administration (Business and administration)
- Management skills (Business and administration)
- Public and institution management (Business and administration)
- Quality management (Business and administration)
- Conservation and land management (Environment)
- Law (Law)

Gathering needs for training by
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General design

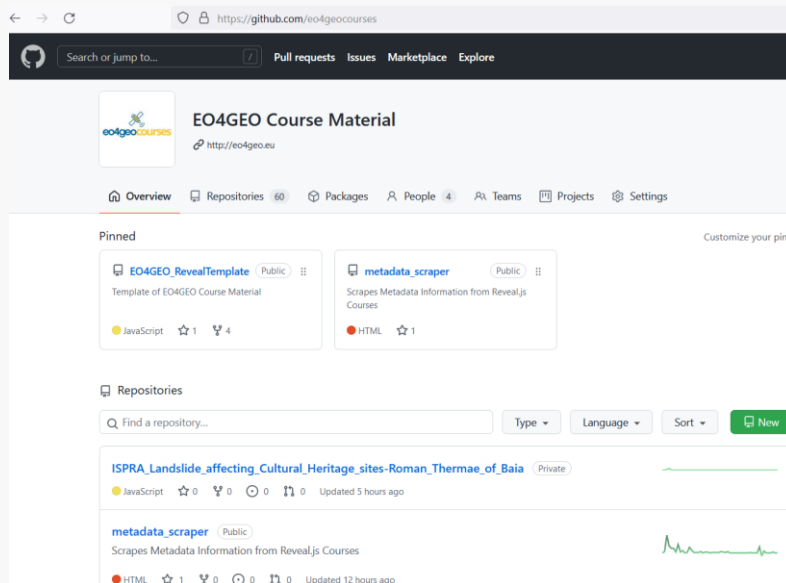
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- Materials were created in **Reveal JS**: open source *HTML* presentation framework
- Material collection on **GitHub**



Training Materials



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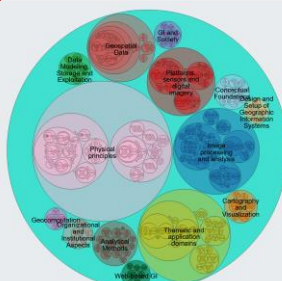
Gathering needs for training and understanding business and economic courses and trainings

Performing demonstration trainings

BoK Visualization Tool

General

Business Occurrence (Opportunity)



[GIST] Geographic Information Science and Technology
Description:
Geographic Information Science and Technology

Subconcepts [14]
[G1] Geospatial Data
[G2] Geospatial Information Systems
[G3] Geospatial Services
[G4] Geospatial Applications
[G5] Geospatial Infrastructure
[G6] Geospatial Policy
[G7] Geospatial Infrastructure
[G8] Geospatial Policy
[G9] Geospatial Infrastructure
[G10] Geospatial Policy
[G11] Geospatial Infrastructure
[G12] Geospatial Policy
[G13] Geospatial Infrastructure
[G14] Geospatial Policy

Skills [2]

- Identify the main knowledge domains of GIS Science and Earth observation.
- Discuss the synergy between processes in geo-information systems and earth-observation systems.

Contributors [1]

EO4GEO project

Versioning

→ New are string: version 1.0 (2021/02/04) (Current BoK Version)

version 0.1 (2020)

version 0.0 (2020)

Permalink: <https://bok.eo4geo.eu/PP3-11>

[IP3-11] Time series analysis

Status: Completed

Description:

Satellite image time series analysis plays an important role in different domains including vegetation dynamics monitoring, estimating crop yields, discriminating between different land cover classes, exploring human nature interactions, monitoring land cover change, assessing environmental threats, or evaluating ecosystems-climate feedbacks or urbanization. Time series analysis requires high quality time series which are reconstructed by removing any source of contamination such as clouds, cloud shadows, or scan-line corrector (SLC) gaps of the Enhanced Thematic Mapper plus sensor (ETM+) on Landsat 7. Removed pixels are usually filled in with data predicted from a different date (temporal interpolation), nearby pixels (spatial interpolation) or from both (spatiotemporal interpolation). Different methods are available for screening and masking out clouds and shadows in satellite images including mono-temporal methods such as Function of mask (fmask), or multi-temporal mask (e.g. fmask algorithm). fmask is used by the United States Geological Survey (USGS) to produce a cloud mask layer of Landsat images. European Space Agency (ESA) is using Sentinel processor to produce Level 2A Sentinel-2 data with a shadow and cloud shadow mask. All images used in the time series have to be co-registered, i.e. they align as closely as possible. Time series analysis is used to (1) investigate various surface properties such as evapotranspiration, land surface temperature, (2) map the cover of the Earth's surface (e.g. land cover mapping, crop mapping etc.), (3) detect different type of changes such as abrupt changes (fire event) or gradual changes (urbanization), and (4) study the trends. To map surface features from satellite image time series, numerous studies make use of the vegetation phenology extracted from a spectral temporal trajectory of a given spectral vegetation index such as the normalized difference vegetation index (NDVI) or enhanced vegetation index (EVI). Several metrics can be used to characterize vegetation phenology: metrics of greenness and metrics of time. The metrics of greenness include the minimum and maximum spectral vegetation indices, their difference or amplitude, seasonally averaged greenness etc. The metrics of time include start and end of the growing season, duration or length of the growing season or the timing of maximum greenness. Changes, on the other hand, are identified either by investigating two images acquired at two different points in time or by identifying breaks in a dense (annual or multi-annual) satellite image time series.

Copy to Clipboard: [HTML code](#) [Permalink](#)



Training Materials
(Training Material catalogue)

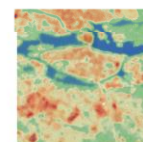
Training Actions
(Training Action list)

Identification of heat islands to support city planning

This is a slideset for city planners about Urban Heat Islands and the importance of their identification in a spatial planning context. The slideset introduces the EO surface temperature maps, with their potential and their limitations.

Learning outcomes

- ✓ Understand the importance of identifying UHIs in a spatial planning context.
- ✓ Understand how EO surface temperature time series can support identification of UHIs.
- ✓ Understand how to interpret EO surface temperature time series to identify UHIs.
- ✓ Understand how to derive maps from EO surface temperature data, to be integrated with other relevant information related to UHI identification in a spatial planning context.
- ✓ Understand how to analyse information derived from EO surface temperature data integrated with other relevant information related to UHI identification in a spatial planning context.



Ownership

Designed and developed by: Giacomo Martirano, Lisa Bilotti (Epollon Italia) and Greger Lindeberg, Sara Wiman (Geografiska Informationsbyrån - GIB).
Contributors: Spatial Services GmbH, University of Zagreb Faculty of Geodesy.
License: Creative Commons Attribution-ShareAlike.

Education level

EQF 4 (what is this?)

Language

English

Access

Find below a direct link to the HTML presentation.

[ACCESS THE PRESENTATION](#)

Find below a link to the GitHub repository where you can download the presentation.

[DOWNLOAD THE PRESENTATION](#)

Share this course.

Detailed view

Identification of heat islands to support city planning

A slideset for city planners about Urban Heat Islands and the importance of their identification in a spatial planning context.

Description

The course material consists of 5 videos about Earth Observation technologies and capabilities made especially for decision-makers and everyone that wants to gain insight into EO and its contribution in various fields.

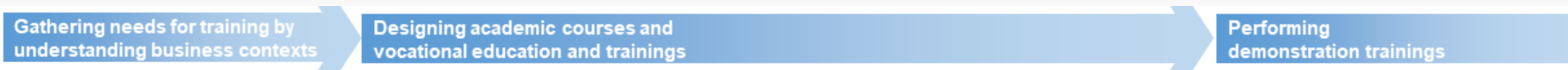
Object-based Image Analysis – An Introduction

These slides provide an introduction to concepts and methods of Object-based image analysis. The slides have been prepared for and used in the virtual GEOBIA summer school in 2020.

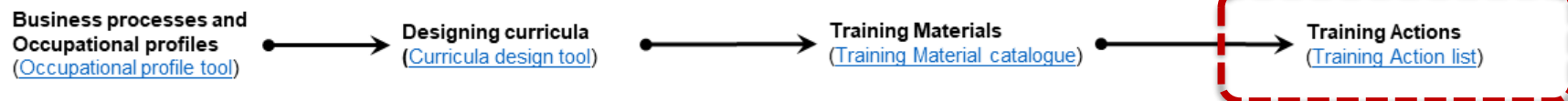
Training Actions



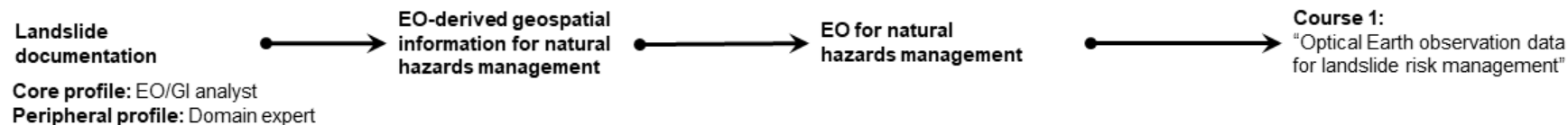
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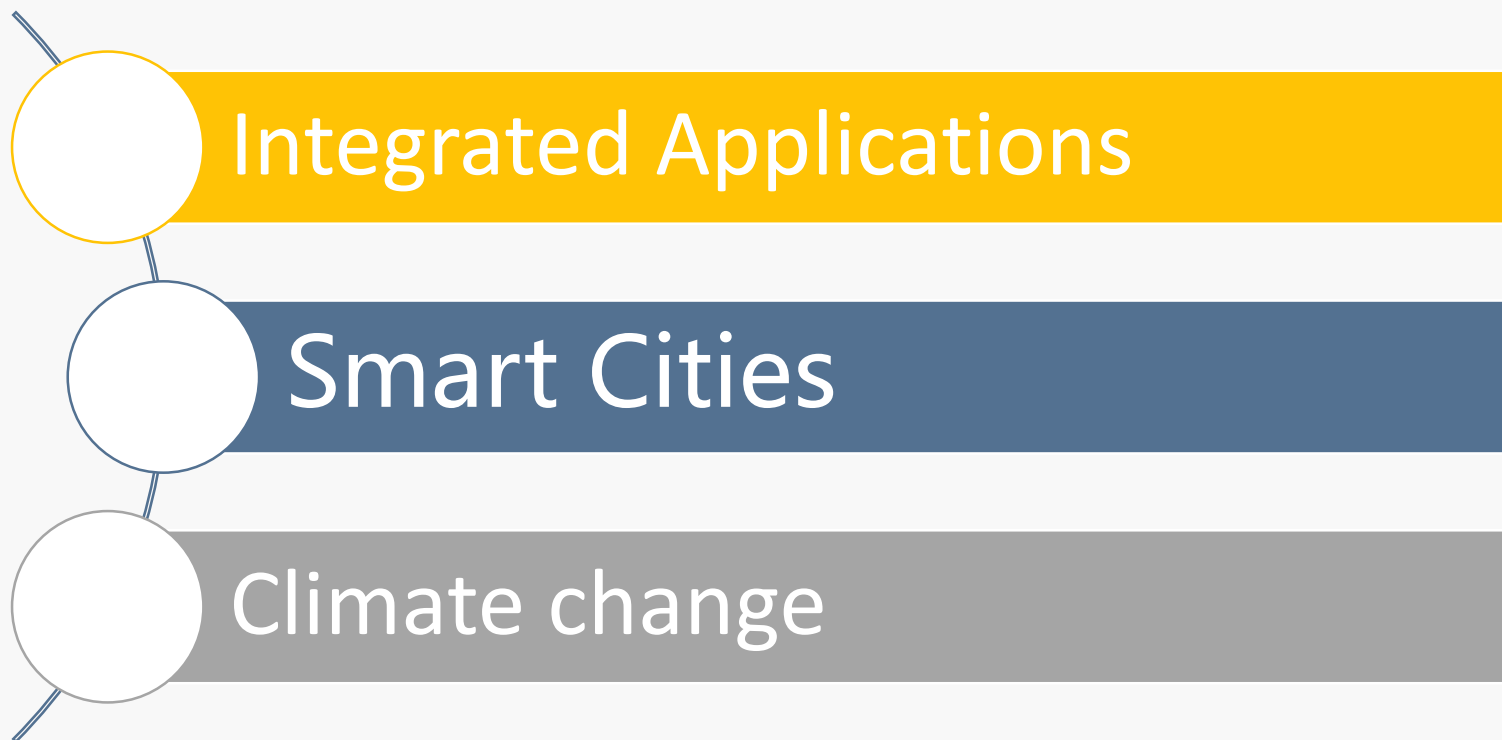


General design



Individual scenario





Rationale for the selection of scenarios

The task lead and the contributors proposed scenarios **based on previous or on-going activities**, so that they feel confident to access the relevant data and to involve known stakeholders.



The **optimal spread of involved actors** offered by the selected scenarios were considered to enable the use of relevant training measures based on scientific as well as VET curricula.



The relation of the scenarios to higher political objectives was considered, since problem-based learning requires understanding the context of planned actions or development interventions.

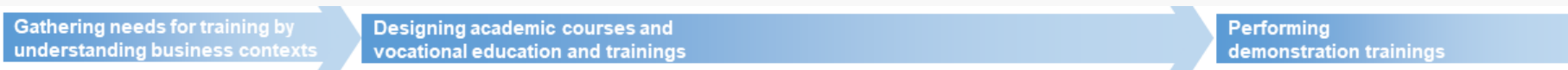
Training Actions



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	Scenario	ID	Learning path (please suggest possible other TA that would fit to yours)	Partner (lead)	Type of training action	Date of the training action (if known otherwise planned)
Integrated Applications	Landslide affecting Cultural Heritage sites - Roman Thermae of Baia	IA1	IA4 / IA8	ISPRA	MOOC	from October 18, 2021
	Observing from space agriculture and environment	IA2	2nd: IA7 / 3rd: IA9	UJI	Workshop	18 nov 2020
	Change detection using EO data	IA3		ROSA	Academic course	1st: 31 March / 2nd: ???
	Optical Earth observation data for landslide risk management	IA4	IA1 / IA8	PLUS	Workshop	15 April 2021
	The rise of Artificial Intelligence for Earth Observation	IA5		Planetek	Webinar	2 mar 2021
	Development of a citizen science project within the Mijntuinlab (MyGardenLab) environment	IA6		KU-Leuven	Project work	Autumn 2021 for project work
	WP7: A new Common Agricultural Policy (CAP) based on Copernicus program and EO4GEO tools	IA7	1st: IA2 / 3rd: IA9	CNR-IREA	Webinar	28. April 2021
	Fast disaster response – satellite technologies for surface displacement monitoring	IA8	IA1 / IA4	GEOF	Webinar	12-14 July
	Partner TA: "Usability of EO+IoT+GIS data in agriculture"	IA9	1st: IA2 / 2nd: IA7	IGEA	Webinar	End of 2021
Smart Cities	Identification of local heat islands to support city planning	SC1	CC1 / CC2 / CC3	GIB	Webinar	3 feb 2021
	Evaluation and planning of urban green structures	SC2	SC4 / SC5 / CC6	GIB	Webinar	8 june 2021, kl 10-11:30
	Evaluation and planning of urban green structures	SC2	SC4 / SC5 / CC6	GIB	Webinar	8 september 2021 10-11:30
	Improving sustainability of cities to storm and water	SC3		GIB (FSU-EO)	Project work	Autumn 2021
	Smart cities, UHI and urban green (preparing for workshop), Swedish	SC4	SC1 / SC2 / CC6	GIB	Webinar	5th oct 2021 10-12
Climate Change	Smart cities, UHI and urban green (w5 with a technical focus and more hands on work), Swedish	SC5	SC1 / SC2 / SC4 / CC6	GIB	Workshop	8th oct 2021 9:00-12:00
	Training Actions: 15 out of 25 People reached so far: ~1.000 Courses: Webinars / Workshops / Summer Schools / Academic courses / MOOC / OOC / Project work					
	Air quality monitoring and management (e-shape)	CC2	SC1 / CC1 / CC3	UPAT	Workshop	November 2021
	Solar potential maps at municipal level (Hybrid event)	CC3	SC1 / CC1 / CC2	UPAT	Webinar	9 November 2021
	CO2 budgets for municipalities	CC4		NOVOGIT	OOC (without "M")	October 2021
	Early warning for disease epidemics at regional level	CC5		UPAT	Webinar	11. June 2021
	EO for urban greenery management	CC6	SC2 / SC4 / SC5	UNEP-GRID	Webinar	26. April 2021
	Spark! - Earth Observation and Geographic Information: a crucial tool to monitor and tackle climate change	CC7	SC1/SC2/CC1/CC6/CC3	Climate-KIC	Workshop	26. October 2021
	Partner TA: Active fire detection with Sentinel-3	CC8		Serco	Webinar	28. October 2021
Summer Schools	Introduction to Satellite Remote Sensing (on the Website after the TA)	SS1		UNIBAS / UNEP GRID	Summer School	15. - 18. June 2021
	Intelligent Earth Observation	SS2		PLUS / UNEP-GRID	Summer School	8. June - 7. July 2021

Training Actions



General design

Business processes and
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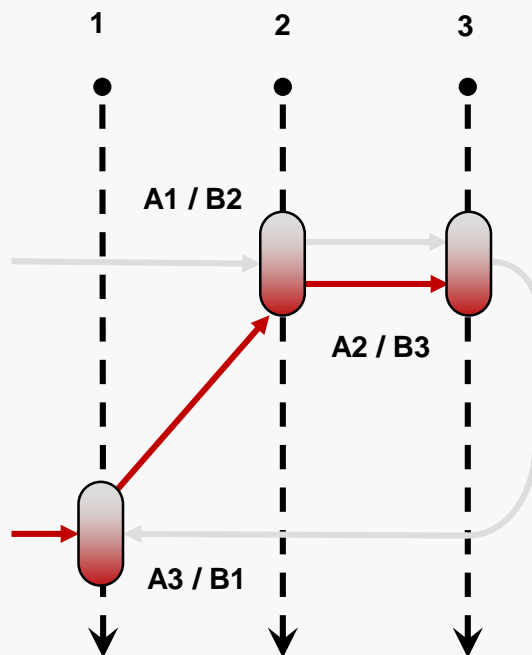
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Courses

Learning path A:
For landslide experts

Learning path B:
For EO*GI students



Course 1

- Non-technical intro to EO*GI methods
- Discuss product quality in application

Course 2

- Technical intro to EO*GI methods
- Apply methods and produce a map for an application

Course 3

- Accuracy and quality assessment methods
- Produce a map for an application, assess accuracy and analyze the quality

Learning Path



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Integrated Applications	Landslide affecting Cultural Heritage sites - Roman Thermae of Baia	IA1	IA4 / IA8	ISPRA	MOOC
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	Optical Earth observation data for landslide risk management	IA4	IA1 / IA8	PLUS	Workshop
	The rise of Artificial Intelligence for Earth Observation	IA5		Planetek	Webinar
	Development of a citizen science project within the MijnTuinlab (MyGardenLab) environment	IA6		KU-Leuven	Project work
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Smart Cities	Identification of local heat islands to support city planning	SC1	CC1 / CC2 / CC3	GIB	Webinar
	Evaluation and planning of urban green structures	SC2	SC4 / SC5 / CC6	GIB	Webinar
	Evaluation and planning of urban green structures	SC2	SC4 / SC5 / CC6	GIB	Webinar
	Improving sustainability of cities to storm and water	SC3		GIB (FSU-EO)	Project work
	Smart cities, UHI and urban green (preparing for workshop), Swedish	SC4	SC1 / SC2 / CC6	GIB	Webinar
	Smart cities, UHI and urban green (WS with a technical focus and more hands on work), Swedish	SC5	SC1 / SC2 / SC4 / CC6	GIB	Workshop
Climate Change	Air quality monitoring and management	CC1	SC1 / CC2 / CC3	UPAT	Webinar
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	Spark! - Earth Observation and Geographic Information: a crucial tool to monitor and tackle climate change	CC7	SC1/SC2/CC1/CC6/CC3	Climate-KIC	Workshop
	Partner TA: Active fire detection with Sentinel-3	CC8		Serco	Webinar
Summer Schools	Introduction to Satellite Remote Sensing (on the Website after the TA)	SS1		UNIBAS / UNEP GRID	Summer School
	Intelligent Earth Observation	SS2		PLUS / UNEP-GRID	Summer School

Training material (e.g. Introduction to GIS)

Training Action material (e.g. Solar potential maps)

- material of EO4GEO training actions that is worth saving
- well structured units / repositories
- publicly accessible and editable

- ready to use for implementation
- embedded in environment with additional features like general information, past recordings, presentations aso.



Material to provide Training Actions
outside of EO4GEO



Training Actions provided within EO4GEO

Home

- Dashboard
- Calendar
- Private files
- Content bank
- Site administration

▼ Integrated Applications

- MOOC: Landslide affecting Cultural Heritage sites - Roman Thermae of Baia (ISPRA)
- Webinar: Fast disaster response – satellite technologies for surface displacement monitoring (GEOF)
- Webinar: A new Common Agricultural Policy (CAP) based on Copernicus program and EO4GEO tools (CNR-IREA)
- Academic lecture: Change detection using EO data (ROSA)
- Webinar: The rise of Artificial Intelligence for Earth Observation (PLANETEK)
- Workshop: Optical Earth observation data for landslide risk management (PLUS)
- Webinar: Observing from space agriculture and environment (UJI)

▼ Smart cities

- Workshop: Smart cities, UHI and urban green (GIB)
- Webinar: Evaluation and planning of urban green structures (GIB)
- Webinar: Identification of heat islands to support city planning (GIB)

▼ Climate change

- Webinar: Development of CO2 budgets at municipal level (NOVOGIT)
- Webinar: Solar potential maps at municipal level (UPAT)
- Webinar: Active fire detection with Sentinel-3 (SERCO)
- Webinar: (Climate-KIC)
- Webinar: Air quality monitoring and management (UPAT)
- Webinar: Early warning for disease epidemics at regional level (UPAT)
- Webinar: EO for urban greenery management (UNEP-GRID)

▼ Summer Schools



eo4geo

Webinar: The rise of Artificial Intelligence for Earth Observation (PLANETEK)

Participants

Badges

Grades

General information

Agenda

Presentation

Record from webinar

Evaluation -
questionnaires

Evaluation - results

GitHub repository

Case-based learning
scenario

Dissemination

Metadata

Certificate

Webinar: The rise of Artificial Intelligence for Earth Observation (PLANETEK)

[Home](#) / [Courses](#) / [Integrated Applications](#) / [Webinar: The rise of Artificial Intelligence for Earth Observation \(PLANETEK\)](#)

General information

An EO4GEO Webinar | 2 March 2021 at 10:00 AM

Organizers: [Planetek Italia](#)



Language: English

  [Announcements](#) 

Agenda

- Presentation of the webinar content
- Presentation of the EO4GEO project
- AI – Background and concepts
- Applications to EO
- AI to map shadowed coffee plantations using multi-temporal and multi-sensor EO images
- Poll
- Presentation of the AI4EO challenge
- QA
- Conclusion



EO4GEO Training Actions

Find here a list of current and past innovative and case-based training actions organized by EO4GEO

Featured training actions

EO4GEO Webinar + Workshop: Heat islands and green infrastructure in urban areas

EO4GEO and Geografiska Informationsbyrån **GiB** invites you this October 5th and 8th to an **introductory webinar** addressing the issue of urban heat and urban heat islands, and more specifically how to use EO-derived surface temperature maps to identify areas prone to heat stress in the urban environment.

The webinar will be followed by a **workshop** aiming at getting a hands-on experience with the data that is used to assess green infrastructure and heat islands in the urban environment.

[MORE INFORMATION](#)

Heat islands and green infrastructure in urban areas

 EO4GEO Webinar + Workshop

-Webinar: October 5th 2021 at 1:00 PM CEST.
-Workshop: October 8th 2021 at 9:30 AM CEST.

Upcoming and current events



Heat islands and green infrastructure in urban areas

October 5th and 8th 2021

Landslide affecting Cultural Heritage sites – Roman Thermae of Baia

October/December 2021

Earth Observation and Geographic Information: a crucial tool to monitor and tackle climate change

26 October 2021



Evaluation and planning of urban green structures

An EO4GEO Webinar | June 8th. 2021 at 10:00 AM

This webinar is focused on the use of EO and GIS data for management and analysis of urban green structures.

The urban green infrastructure provides a number of important ecosystem services to city inhabitants. The webinar consists of a theoretical background on green infrastructure and ecosystem services, but also real-world cases exemplified by an extensive urban development planned north of Stockholm metropolitan area.

Participants will learn more about the use of EO and GIS tools, urban green infrastructure and ecosystem services.

The webinar is mainly non-technical and targets planners on different levels in cities or municipalities but also Climate adaption coordinators, GIS technicians, researchers and ecologists.



Date



June 8th. 2021 at 10:00 AM CET. Duration: 1.5 h.

Registration

Please register by using the link below.



[REGISTER NOW](#)

Agenda

- Presentation of the webinar content
- Presentation of the EO4GEO project.
- Poll #1.



The rise of Artificial Intelligence for Earth Observation

An EO4GEO Webinar | 2 March 2021 at 10:00 AM

This webinar addresses the use of AI algorithms in EO applications. Participants will become familiar with AI concepts, from machine to deep learning, from unsupervised to supervised methods. Furthermore, applications in object detection, semantic segmentation, classification, clustering, and data augmentation will be showed.

This webinar is developed within the "Integrated Applications task in the EO4GEO project.

The basic idea of AI algorithms (random forest, Multi-Layer Perceptron, Convolutional Neural Networks, and Generative Adversarial Networks) and how they are useful in the EO applications will be presented.

During the webinar, the **AI4EO Project** Team would like to introduce the AI4EO initiative and announce the launch of its first official Challenge. AI4EO is an initiative of the European Space Agency's Φ -lab that aims to bring the worlds of Artificial Intelligence (AI) and Earth Observation (EO) closer together, stimulating and

Webinar recording



Agenda

- Presentation of the webinar content



New trends in the EO*GI job market and the EO4GEO approach to Training Offers

Are there any questions or remarks?

