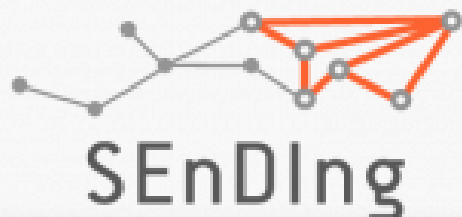


# EO4GEO

Towards an innovative strategy for skills development  
and capacity building in the space geo-information  
sector supporting Copernicus User Uptake

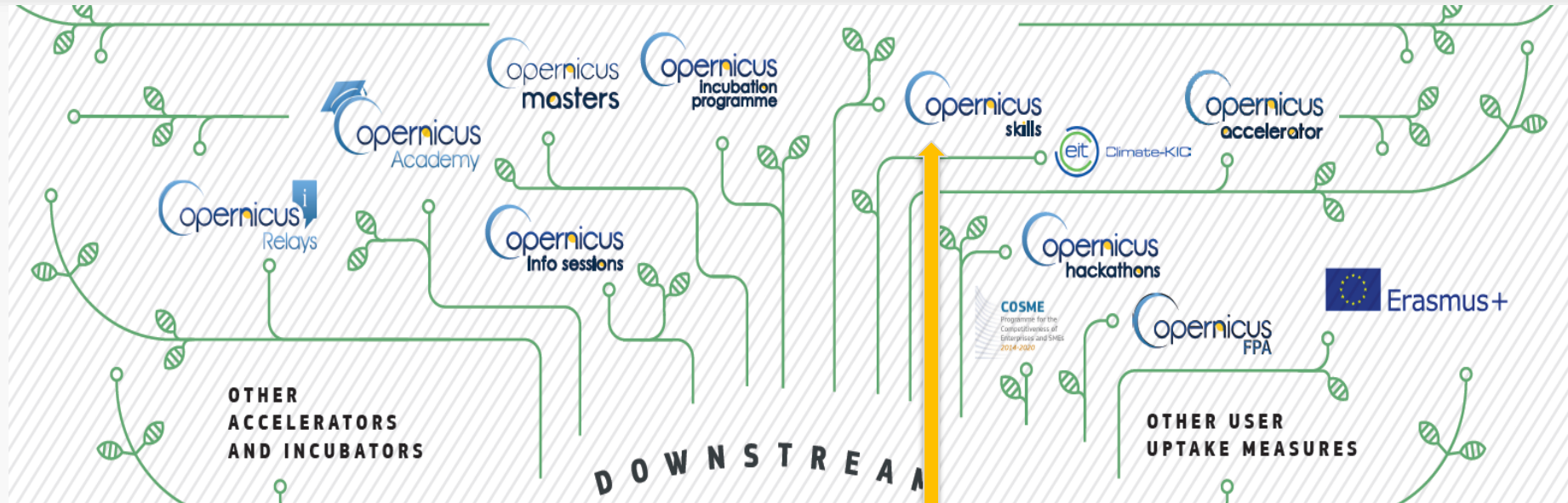
**Innovative solutions for  
Earth Observation/Geoinformation training**

**Giorgio Saio, GISIG  
EO4GEO Coordinator**



- **Duration:** 4 years from January the 1st, 2018
- **Budget:** 3,87 million € (funded by ERASMUS+ Sector Skills Alliance)
- **Partnership:** 25 Partners and > 30 Associated Partners (from 16 EU Countries) from Academia, Companies and networks





## Strategic axes for enhancing education and skills development through Copernicus

**Awareness/ Outreach**

**Communication**

- Outreach material
- Events
- Branding
- Promotion support actions (**COSME**)

**Information/ Networking**

**Users uptake**

- National training & info sessions
- **CEST** (Copernicus Ecosystem)
- Industry workshops

**Skills training**

**Users uptake**

- Copernicus **Accelerator/ Incubation** programme
- Professionals training (**KICs**)
- **RUS** (Researchers support)
- Students training (**KICs**)
- **PhDs & post-PhDs** scholarships (**KICs**)

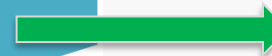
**Skills enhancing**

**Users strategy**

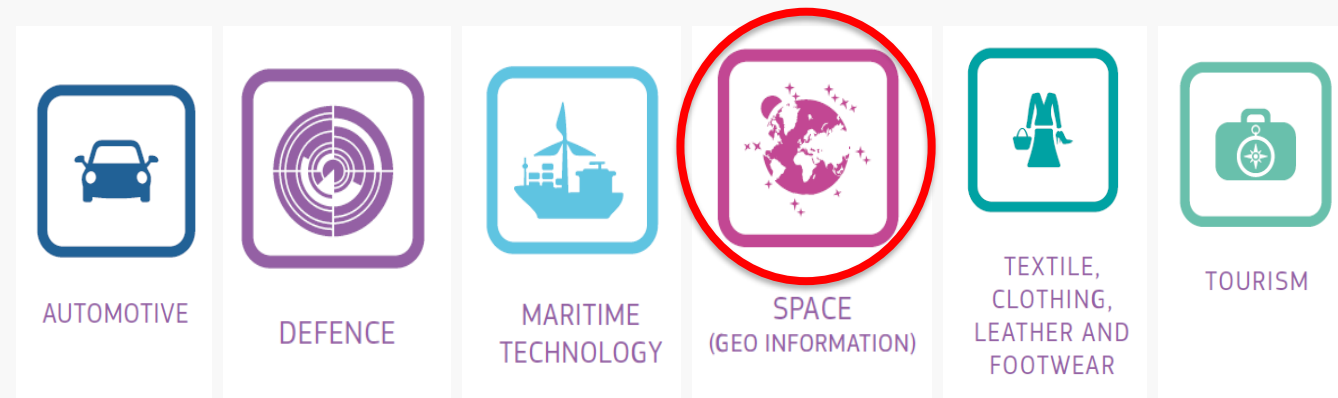
- **DIAS** (Digital infrastructure)
- **Copernicus Academy** and **Relays** networks
- **FPA** and **COP FWC**
- **H2020**
- **E4GEO** partnership (Erasmus+)

**ERASMUS PLUS  
SECTOR SKILLS  
ALLIANCE**

**TO DEVELOP A  
STRATEGIC  
APPROACH  
(BLUEPRINT)**



- Responding to skills mismatches
- Part of the New Skills Agenda for Europe
- Roll-out at national and regional level:
- cooperation with national and regional authorities, industry and key stakeholders.

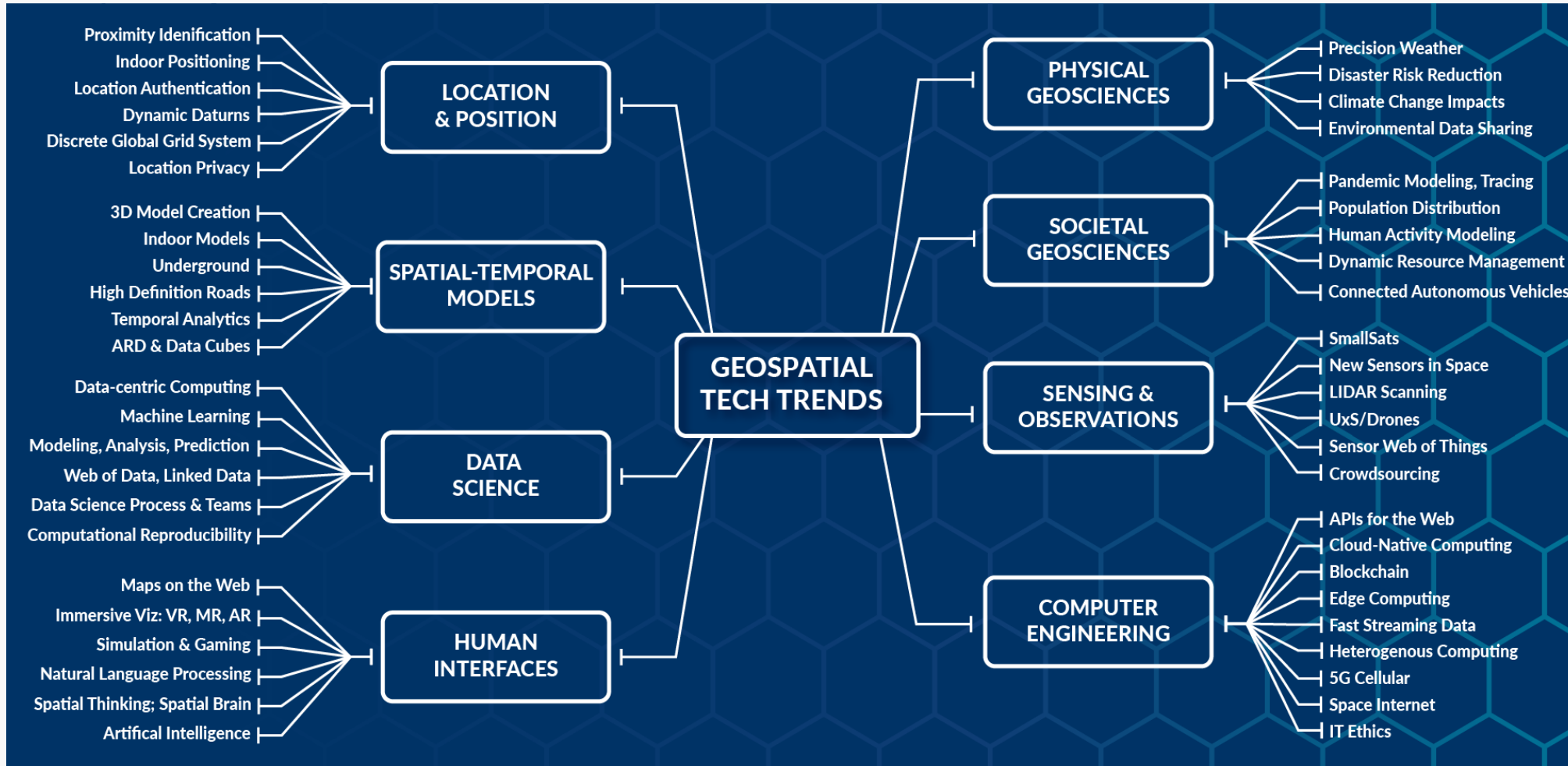


- A **Sector Skills Strategy** with recommendations on how to respond to skills shortages in the spatial and geo-spatial sectors
- An **ontology-based Body of Knowledge** for the space/geospatial sector;
- A **collaborative platform** with innovative tools (curricula/job profile design, new learning tools,...)
- A series of curricula and a portfolio of training modules directly usable in the context of Copernicus and other relevant programs
- A series of training actions for a selected set of scenario's in the three sub-sectors - integrated applications, smart cities and climate change to test and validate the approach
- A Long-term Action Plan will be developed and endorsed to roll-out and sustain the proposed solutions

## Sectoral Skills Strategy

“Skills Intelligence”: “a comprehensive and user friendly information, data, facts, analysis and interpretation about the past, present or future skill needs in occupations and sectors”

- ✓ Identifying the **supply of GI and EO education and training** at the academic and vocational levels
- ✓ Identifying the **current demand for GI and EO skills** and occupational profiles
- ✓ Analysing **trends, challenges and opportunities** in the GI and EO sector: setting - up a technology and non - technology watch
- ✓ Assessing the **skills shortages, gaps and mismatches** between supply and (future) demand
- ✓ Defining a **GI and EO sector skills strategy** in terms of training provision and formats



**Body of Knowledge:**  
collection of interlinked  
concepts, methods in the  
EO\*GI sector

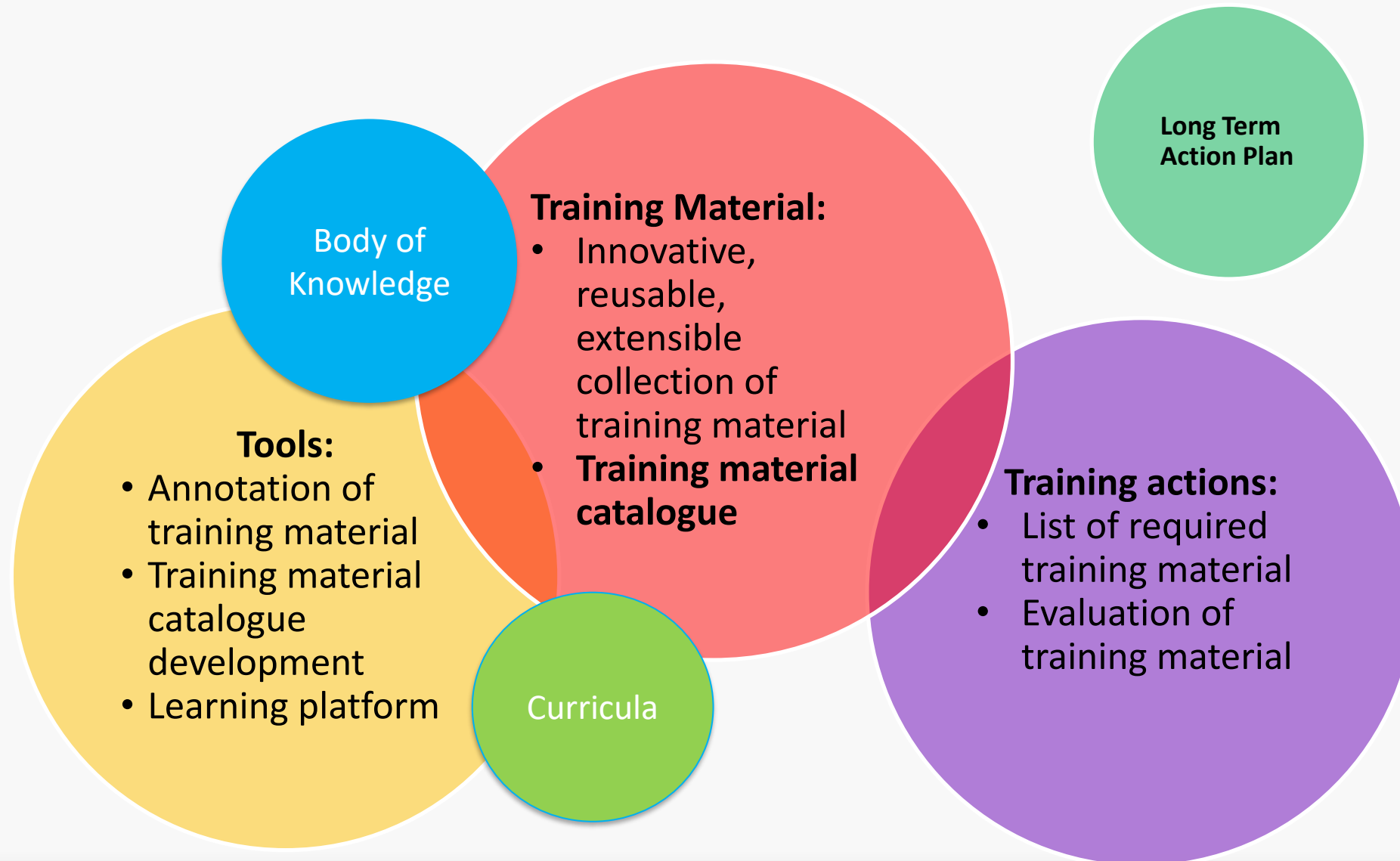
**Business processes:**  
identification of tasks and  
occupational profiles in the  
EO\*GI sector

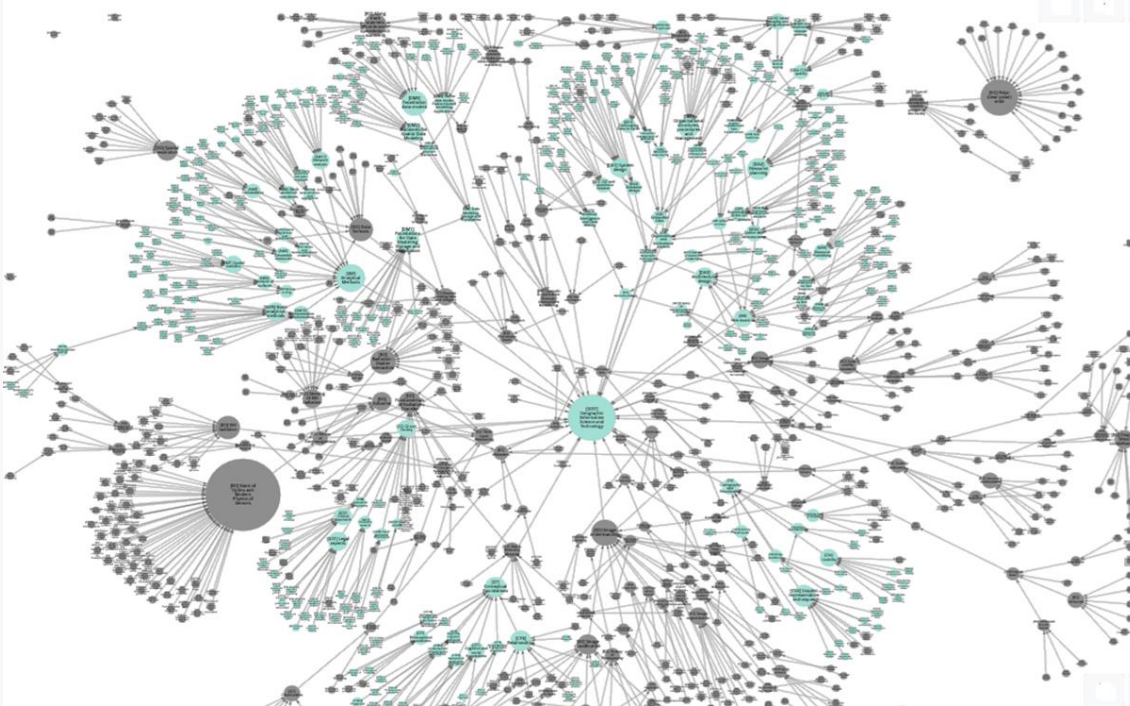
*... utilizing concepts & tools for sector-specific  
curricula design and innovative trainings in user-  
centric application scenarios*

**Tools:** occupational profile  
tool, curriculum design tool,  
BoK matching tool

**Curricula:** teaching content  
covering vocational training  
and academic education







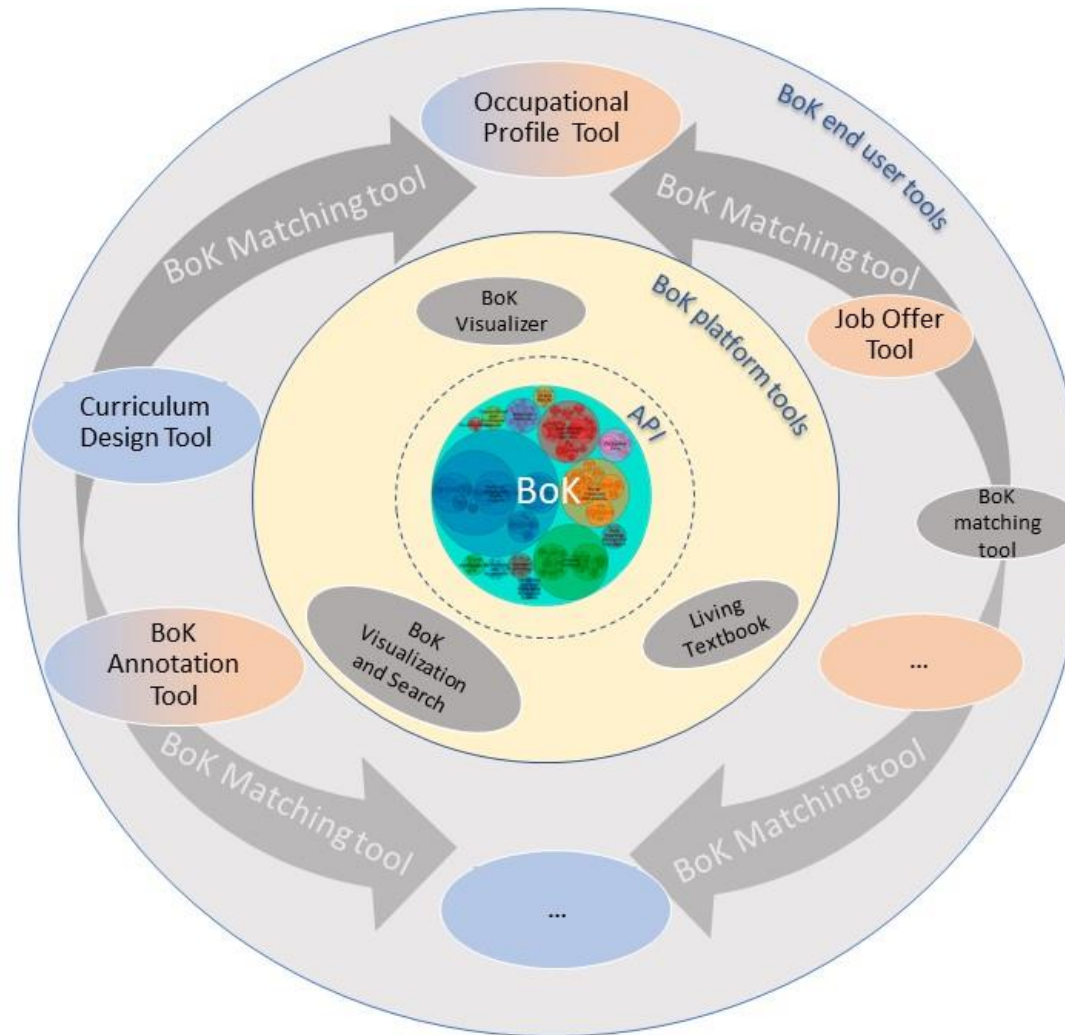
- The BoK consists of concepts

Theory  
Method  
Technology  
Legislation  
Application  
...

- Concepts relate to each other

Concepts are described, while also related skills are defined, mostly in terms of learning outcomes  
References to papers, learning modules, tools ...

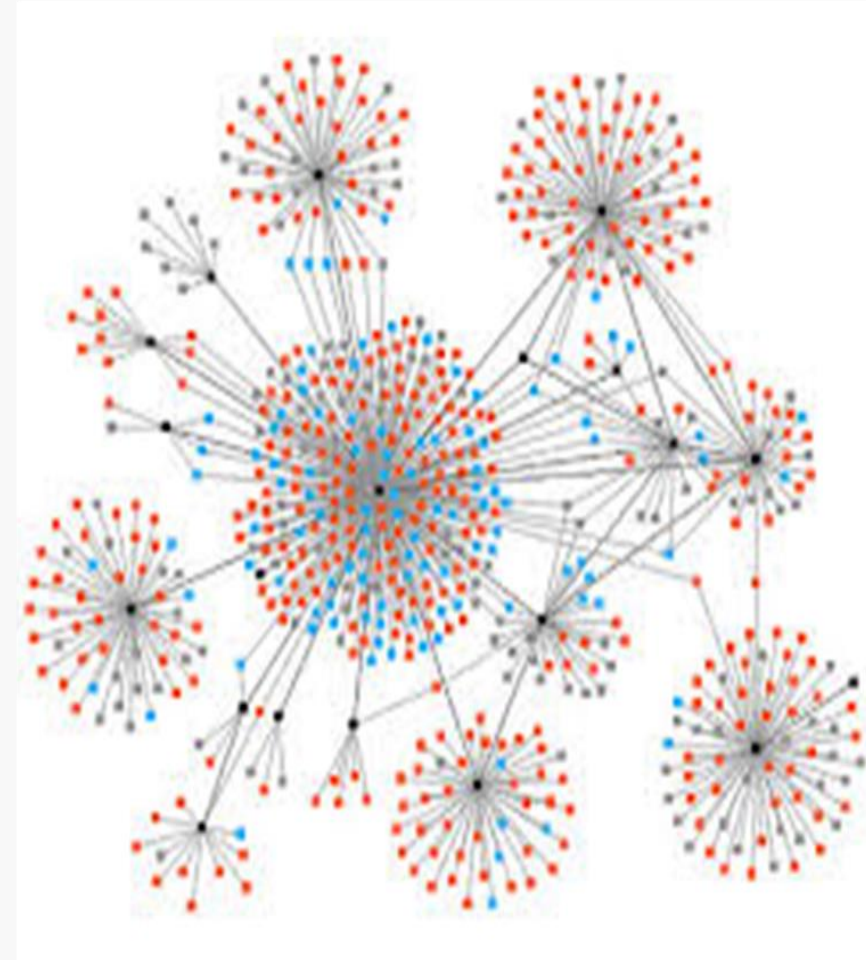
A set of tools to help bridge education supply and training demand in the EO/GI sector



The ontology-based BoK is the 'motor' steering the tools

Currently tools are ready to be tested by the stakeholders of EO4GEO

- Network of Networks
  - Alliance: GISIG, NEREUS, EARSC, Climate-KIC ...
  - Associated membership: OGC, EuroSDR, EARSeL, AGILE, Agoria, EIT Raw Materials ...
  - Networks of individuals (AB, EB, BoK experts)
- Developing a sustainable strategy (LTAP)



# Thanks for you attention!



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

[www.eo4geo.eu](http://www.eo4geo.eu)

The screenshot shows the homepage of the eo4geo website. At the top, there is a navigation menu with links for HOME, THE PROJECT, RESOURCES, NEWS&EVENTS, CONTACT, and GET INVOLVED. The main content area features a large background image of a river delta. A central text block states: "EO4GEO aims to help bridging the skills gap between supply and demand of education and training in the EO/GI sector" with a "LEARN MORE ABOUT EO4GEO" button. Below this is a section titled "OUR OPEN RESOURCES" with the text: "EO4GEO will offer a series of tangible results that are usable for the broader space/geospatial education/training community." This section contains four white boxes, each with an icon and a title: 1. "Body of Knowledge" (icon: two people) with text: "EO4GEO and a network of experts develops a commonly agreed Body of Knowledge (BoK) describing an updated ontology for the EO/GI domain." and a "Learn more >" link. 2. "Tools" (icon: gears) with text: "EO4GEO supports teachers, students and professionals of the EO sector with a complete opensource tools ecosystem based on the Body of Knowledge." and a "Learn more >" link. 3. "Training Material" (icon: graduation cap) with text: "EO4GEO offers to educators/instructors and students and extensive catalogue of specialised training resources on how to use EO/GI data." and a "Learn more >" link. 4. "Training Actions" (icon: laptop) with text: "Join our training actions (webinars, workshops, etc.) for different case-based learning scenarios in the sub-sectors 'integrated applications', 'smart cities' and 'climate change'." and a "Learn more >" link. At the bottom, a blue footer contains a cookie policy notice: "This website or third-party tools used in this website make use of cookies required to operate and useful for the purposes described in the cookie policy. By clicking 'OK' you consent to the use of cookies." with an "OK" button and a close icon.

HOME THE PROJECT RESOURCES NEWS&EVENTS CONTACT GET INVOLVED

EO4GEO aims to help bridging the skills gap between supply and demand of education and training in the EO/GI sector

LEARN MORE ABOUT EO4GEO

OUR OPEN RESOURCES

EO4GEO will offer a series of tangible results that are usable for the broader space/geospatial education/training community.

**Body of Knowledge**

EO4GEO and a network of experts develops a commonly agreed **Body of Knowledge** (BoK) describing an updated **ontology for the EO/GI domain**.

[Learn more >](#)

**Tools**

EO4GEO supports **teachers, students and professionals** of the EO sector with a complete **opensource tools ecosystem** based on the Body of Knowledge.

[Learn more >](#)

**Training Material**

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