

EO4GEO

Space/Geospatial Sector Skills Alliance

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

Key Figures

- **Duration:** 4 years from January the 1st, 2018
- **Budget:** 3,87 million € (funded by ERASMUS+)
- **Partnership:** 26 Partners + 22 (initially) Associated Partners (from 16 EU Countries) from Academia, Companies and networks
- **Coordinators:** GISIG (General), KU Leuven (Scientific & Technological), PLUS (Education & Training), Climate-KIC (Exploitation)



Blueprint for Sectoral Cooperation on Skills

The **aim** is:

- to improve the quality and relevance of training and other ways of acquiring skills
- to make skills more visible and comparable, to enable people make better career choices, find quality jobs and improve their life chances

ERASMUS+ Sector Skills Alliances aim to tackle skills gaps with regard to one or more occupational profiles in a specific sector.

ERASMUS+ Sector Skill Alliances shall cover a coherent and comprehensive set of activities and outputs as relevant for the sector concerned.

What is needed for the Blueprint?

- ✓ gathering skills intelligence on the sector, detail major trends, develop a sound **replicable methodology to analyse gaps and mismatches** and monitor evolution of demand and supply of skills
- ✓ do that by **occupation** (profession): identify the priorities and work to deliver concrete solutions
- ✓ develop European **‘core’ occupational profiles** and related **curricula**, including work-based learning and work placement abroad
- ✓ promote relevant sectoral **qualifications and certifications** and their recognition
- ✓ **identify actors**: policy makers, businesses, trade unions, education and training providers, etc. so that the developed European ‘core’ curricula are integrated in national systems

- A **Sector Skills Strategy** with recommendations on how to respond to skills shortages in the spatial and geo-spatial sectors (1Q2019)
- An ontology-based **Body of Knowledge** for the space/geospatial sector (extending the existing GI BoK with EO/Copernicus concepts);
- A collaborative platform of **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



SURVEY ON SUPPLY

Survey on supply of EO and GI education and training

The survey focuses on the supply of academic and Vocational Education and Training (VET) in Europe in the space/geospatial sector.

It is finalized at an analysis of **existing and planned training educational offer** in the sector and at identifying the organizations (from academy and from the private sector) which can contribute to the improvement of the skills for the user uptake of Copernicus data and services.

Thanks for your time!

SURVEY ON DEMAND

Survey on demand for EO and GI skills and occupational profiles

The objectives of the demand survey are to better **understand the demands of current professional workforce and to highlight skills required on the EO/GI sector in the future.**

Your participation in the survey will support research, academic institutions and companies to identify solutions to overcome present and future skills gaps and skills mismatches.

Thanks for your time!

www.eo4geo.eu/surveys

From Vision to Action

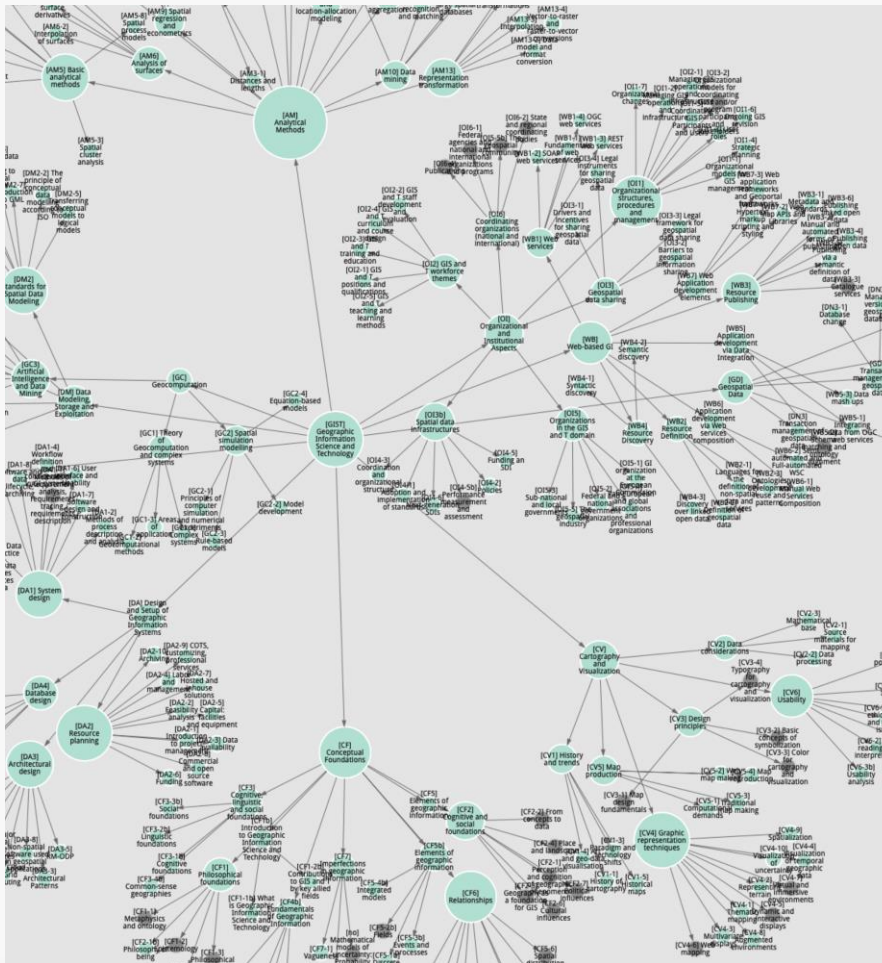
The **VISION of the Sector Skills Strategy** is to foster the growth of the European EO/GI sector ensuring a workforce with the **right skills, in the right place, at the right time.**

The **MISSION of the Sector Skills Strategy** is to ensure the strategic cooperation among stakeholders on skills development in the EO/GI sector (Sector Skills Alliance).

- **strategic collaboration** between the skills alliance, private sector, government and “end user”
- A **political commitment** at EU level (DG-GROW and DG-EMPL) to stimulate innovative skills development policies is ensured.
- Improve **competitiveness** and penetrate other sectors through **market intelligence** across stakeholders
- Improve **awareness/engagement with “end user”** sectors, increase Copernicus uptake
- **Harmonised curricula/training offers** (including workforce mobility)
- A **standard for describing key qualifications**
- Promoting EO/GI services as an **inspiring and innovative context** for learning across all age groups and value chains
- **Skills needs are mapped** to better refine teaching supply, with a focus on flexible learning pathways.

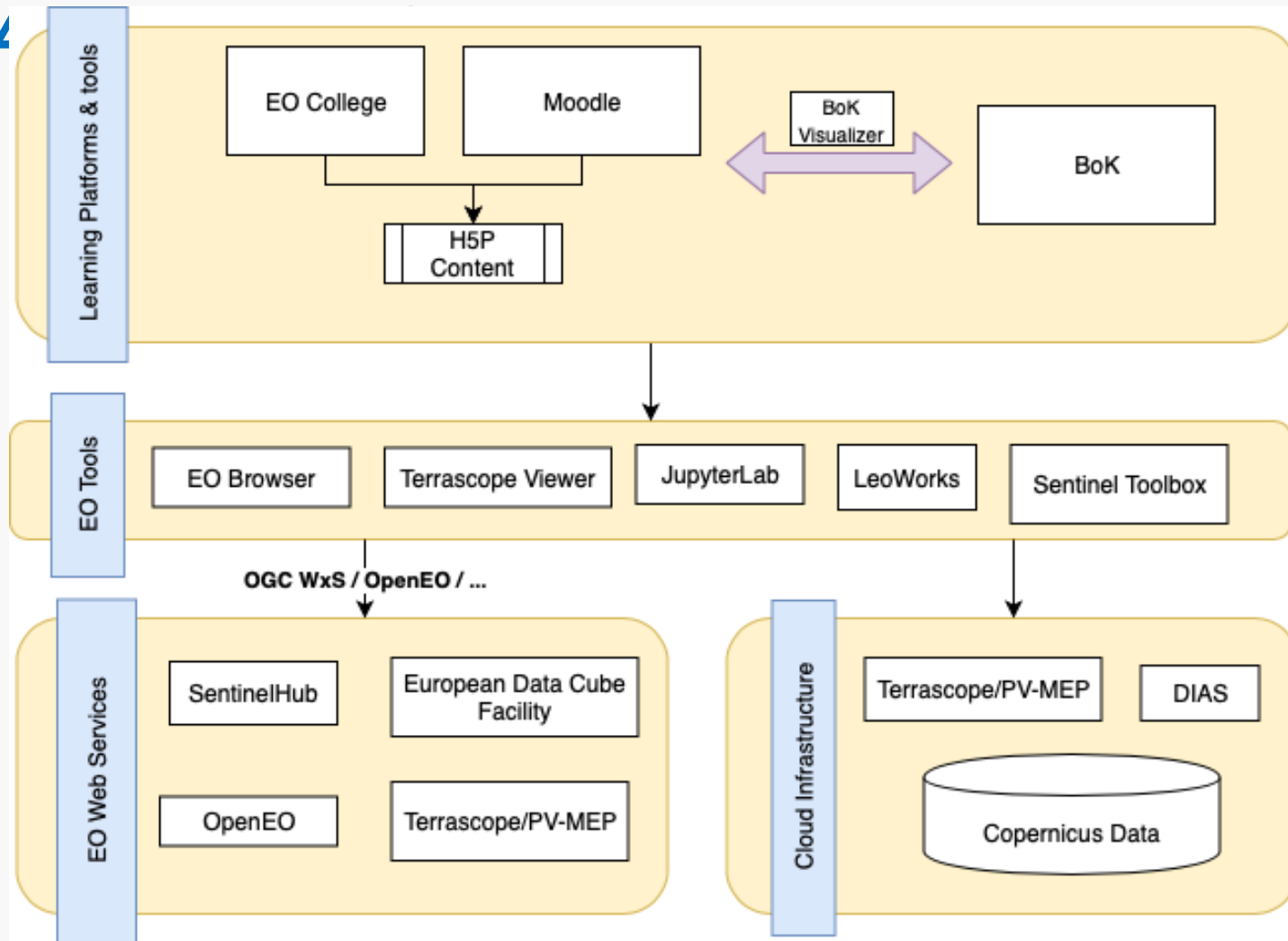
Ontology-based Body of Knowledge

A formal description of a professional domain



- Concepts
 - Theory
 - Methods
 - Technologies
 - ...
- Relations

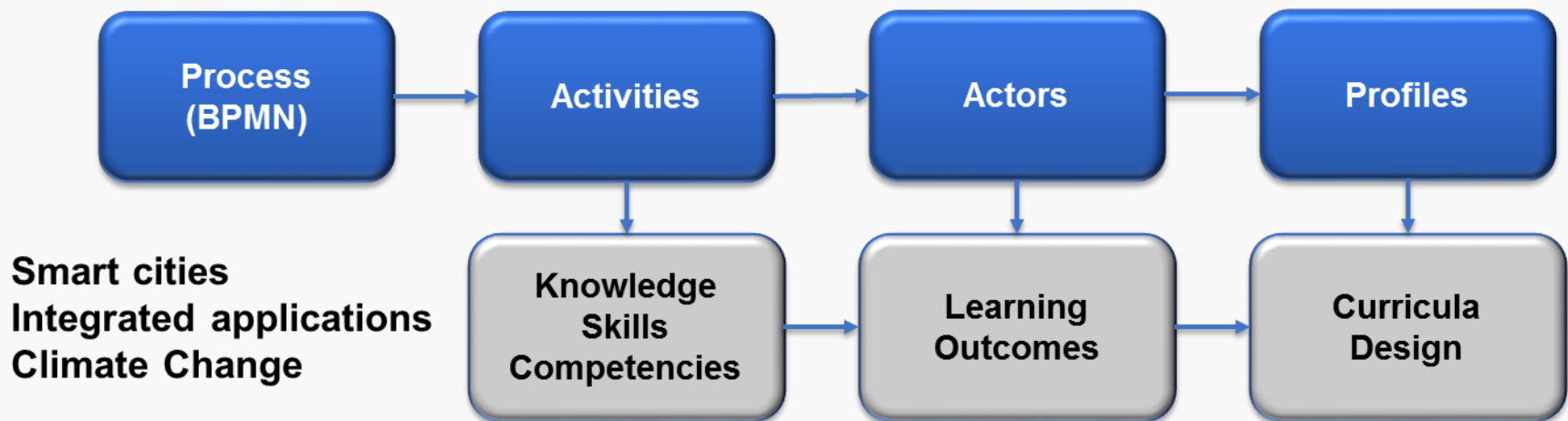
EO4



A set of EO services/tools linked with learning and educational platforms
for EO/GI promotion and learning across all age groups and value

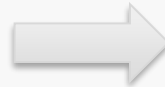
Curricula design in EO4GEO

- Identifying and defining a set of work processes in the field of Climate Change, Smart Cities and Integrated Applications
- Each work process can be split in sub-processes which in turn contain many activities/tasks
 - Certain knowledge, skills and competencies are required
 - By certain actors ... who can cover one or more profiles

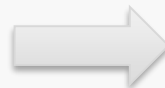


WP6 - Long-term Action Plan

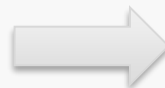
✓ AWARENESS



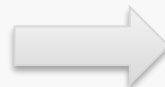
✓ ATTRACTION



✓ ENGAGEMENT



✓ CONSOLIDATION



✓ MAINTENANCE



Thank you!



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