



## D7.4.1 - High level capacity building seminars and events

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### Work package / Task:

WP7 Capacity Building and Dissemination

Task 7.5 – High level capacity building seminars and events

### Short Description:

This report contains, for each event organised in the first year, the announcement, the Agenda, the list of participants and the main outcomes of the event.

### Keywords:

Awareness, dissemination, communication, seminar

Dissemination Level		
PU	Public	X
RE	Restricted to other programme participants (including Commission services and project reviewers)	
CO	Confidential, only for members of the consortium (including EACEA and Commission services and project reviewers)	

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### Revision History:

Revision	Date	Author(s)	Status	Description
0.1	18/12/2018	Silvia Gorni (GISIG)	1 <sup>st</sup> draft	Draft
0.2	20/12/2018	Ilaria D'Auria (NEREUS)		Updated with events in 2019
1.0	31/12/2018	Silvia Gorni, Milva Carbonaro (GISIG)	Final draft	Version ready for QA evaluation
2.0	29/01/2019	Silvia Gorni, Milva Carbonaro, Giorgio Saio (GISIG)	Final version	Updated after QA evaluation. Ready for SC



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## 1. Introduction

### 1.1. Introduction to EO4GEO

EO4GEO is an **Erasmus+ Sector Skills Alliance** gathering **26 partners from 13 EU countries**, most of which are part of the **Copernicus Academy Network**. Be they from academia, public or private sector, they are all active in the education and training fields of the space / geospatial sectors. The project is also supported by a strong group of Associated Partners mostly consisting of associations or networks active in space/geospatial ecosystem. The project started on January 1st, 2018, upon approval by the EU Education, Audiovisual and Culture Executive Agency (EACEA) and runs over four years.

EO4GEO aims to help bridging the skills gap in the space/geospatial sector by creating a strong alliance of players from the sector/community reinforcing the existing ecosystem and **fostering the uptake and integration of space/geospatial data and services**. EO4GEO works in a **multi- and interdisciplinary** way and will apply innovative solutions for its education and training actions including: case based and collaborative learning scenarios; learning-while-doing in a living lab environment; on-the-job training; the co-creation of knowledge, skills and competencies; etc. The **specific objectives** of EO4GEO are:

- 1) to **define** a long-term and sustainable **strategy** to fill the gap between supply of and demand for space/geospatial education and training taking into account the current and expected technological and non-technological developments in the space/geospatial and related sectors (e.g. ICT);
- 2) to define an ontology-based **Body of Knowledge for the space/geospatial sector** based on previous efforts by mobilizing an extended network of domain experts in a collaborative environment;
- 3) to **develop and integrate a dynamic platform** with associated tools that allows: a collaborative method for integrating new concepts (theories, methods, technologies ...) and update existing concepts of a Body of Knowledge for GI (Geoinformation) and EO (Earth Observation); the design of curricula for (academic and) VET; direct access, not only to the training materials, but also to space and geospatial data, case-based learning scenario's, self-tests and other relevant materials;
- 4) to **design and develop a series of curricula** for different types of occupational profiles in the sector, making use of the Body of Knowledge and taking into account the identified needs, and to develop a rich **portfolio of training modules** directly usable in the context of Copernicus and other relevant programmes;
- 5) to design, develop and conduct a series of **training actions** for a selected set of scenario's for **three sub-sectors** - integrated applications, smart cities and climate change –



supported by remote sensing and geospatial technology in order to test and validate the approach, the platform, the designed curricula and developed training modules;

- 6) to **develop and endorse a long-term Action Plan** based on the strategy developed and the experience gained in the implementation phase including: a Governance Model and Structure; a Business Plan to become financially sustainable; a plan for mainstreaming, promoting and multiplying the approach in other sub-sectors; and a plan to roll-out the technical solutions developed.

## 1.2. **Objectives of the Work Package**

In order to build a **long-term and sustainable strategy** to fill the gap between the supply of and demand for space/geospatial education and training, several actions have been foreseen which imply a progressive strategy to foster the visibility of the project itself in order to engage with specific target audiences. This Work Package includes the definition of an overall approach to Communication and Dissemination, with capacity-building activities as a key element for the dissemination of the project results and community engagement.

**Community-building and consolidation** is fundamental for pursuing the longer-term objectives, i.e. the sustainability of the project outcomes after its conclusion. This particular item of the strategy will be developed in close relationship with the coordinator of WP6. The basis for such sustainability started from the beginning of the project with the awareness raising activities and will be consolidated throughout the project.

The work package aims at:

- **Raising awareness** on the uses of EO/GI data and information;
- **Attracting** new stakeholders interested in using EO / GI data;
- **Building capacity** to foster user uptake of Copernicus-based products and services in three sub sectors;
- **Consolidating** the EO4GEO community to build a sustainable long-term strategy;
- **Reach out** to the selected and profiled target groups and raise their awareness and understanding on the uses of EO/GI data and information;
- **Foster the dialogue** between the training/education and the space/geospatial sector and help to build a community;
- **Build a strong EO4GEO brand** which will contribute to the overall Copernicus brand identity and strengthen the recognition of the long-term Action Plan;
- **Identify and establish potential collaboration mechanisms** between the education/training and the space/geospatial industry.



The overall perspective is to **promote the EO4GEO strategy for skills development in different contexts**, towards the target groups addressed by the project dissemination. This will be done by paying attention to the specific skills and knowledge needed for the implementation of the Space Strategy for Europe.

This is a **horizontally supporting work package** that is planned along the whole project duration.

It is crucial as it ensures that the specific objectives and deliverables of the project have an effective outreach during the project life-time. It requires that the consortium partners provide input for profiling the target groups and contribute to the dissemination activities in order to maximise outreach.

### **1.3. Objectives of the Task 7.5**

This task deals with the organisation of High level Capacity Building seminars, focused to specific sectors and in relation with the best-tuned exploitation of the different learning contents produced. They will be organized by the NEREUS network Members, which are part of the Copernicus Academy Network.

Moreover, other EO4GEO seminars/workshops will be organised besides well-known sectorial events in the technical sector of the project at European and National level, with the aim to raise awareness and disseminate project objectives and preliminary results to a wide target audience.

It is already planned to propose workshops within the major sectorial events such as the INSPIRE Conference, the GIForum conference yearly organised in Salzburg; also other associated members such as AGORIA have expressed their willingness to organise seminars or similar events, especially in the context of bigger events that occur at annual basis.

Other awareness and dissemination events could be organised upon initiative of the partners every time there will be the opportunity to promote EO4GEO in a wider context.

### **1.4. Purpose and structure of this document**

The purpose of the deliverable D7.4.1 is to describe, for each event organised in the period, the announcement, the Agenda, the list of participants and the main outcomes of the event.

The annual deliverable is organised in two sections: the first one (chapter 2) includes the results achieved for the reported year (D7.4.1 for the first year includes the report of a workshop organised at the INSPIRE Conference 2018); while the second part (chapter 3) includes the description of the planned High Level Capacity Building seminars, with focus, this year, on those planned in 2019.



## **2. EO4GEO events in 2018**

The first year of the project was dedicated to preparing the Space/Geospatial Sector Skill Strategy (ref. WP1) and the EO4GEO dissemination activities were focused on the awareness of the project in the context of other sectoral events, with many actions, as listed within D7.3.1-Annual Dissemination Report.

Taking the opportunity for organising workshops, offered by the organisers of the INSPIRE Conference, a workshop dealing with the training and education in GI and EO sectors was jointly organised with another European project (giCASES) during the INSPIRE Conference in Antwerp in September 2018.

### **2.1. EO4GEO workshop at INSPIRE Conference 2018**

September 18<sup>th</sup>, 2018 - Antwerp

**Title:** Training and education in GI and EO sectors

#### **Objectives**

The aim of the workshop has been to raise awareness on the activities and results of two cutting edge projects, EO4GEO and giCASES, promoted respectively within the Sector Skills Alliances and the Knowledge Alliances actions of the ERASMUS+ Programme, and provide the audience with hands-on examples and demonstrations on the approaches and methodologies planned and/or already developed within the two projects, with an interactive focus aimed at achieving a common shared understanding on how to foster, apply and sustain innovation in teaching and learning in the geospatial sector.

The EO4GEO objectives of the event were:

- To support the capacity building of the INSPIRE Community with educational and training opportunities, in line with the new strategic approach of the Commission.
- To raise awareness on the EO4GEO sectoral skills strategy, in the EO Academic and industrial context, presenting the first results and its approach on how it could be implemented through an ontology-based Body of Knowledge for the space/geospatial sector, a series of designed curricula and a portfolio of training modules directly usable in the context of Copernicus and other relevant programmes in view of a long term action plan for a sustainable and systematic collaboration between the actors of the educational/training and space/geospatial sectors.
- To discuss with the audience on the replicability and sustainability of the presented approaches and strategies, and how to foster the connection with the EU policies of Digital Economy and Copernicus user up-takes initiatives, in view of the addressed long-term socio-economic impact.



## List of participants

No.	Name	Surname	Organisation
1	Danny	Vandenbroucke	KU Leuven
2	Tatiana	Sluga	GEOSNAVLAB UNITS
3	Raffaella	Cefalo	GeoSNav Lab – University of Trieste – IT
4	Dennis	Devriendt	HO GETN
5	Maria	de Saudade Pontes	KU Leuven
6	Dirk	Frigne	Geosparc
7	Carlo	Cipolloni	ISPRA
8	Katleen	Miserez	VMM
9	Francesco	Facchinelli	University of Padova
10	Stefan	Lang	Univ Salzburg- Dep of Geoinformatics
11	Eduardo	Dras	VU- Amsterdam
12	Gabriele	Giannini	DG AGRI-EC
13	Marian	Bouvet	EARSC
14	Monika	Rustecla	UNEP/GRID Warsaw
15	Tandang	Yuliadi	Geospatial Information Agency of Indonesia (BIG)
16	Milva	Carbonaro	GISIG

## Agenda (EO4GEO session)

- EO4GEO and giCASES: the policy framework supporting skills EO and GIA new strategic approach (Blueprint) to sectoral cooperation on skills
- EO4GEO objectives and outlines
- A look at the EO industry and its potential
- EO4GEO perspective in the context of the Copernicus Academy Network
- Result of the supply survey for GI and EO
- Result of the demand survey for GI and EO
- Development of the Body of Knowledge for GI and EO (demonstration)
- Discussion and conclusions

## Proceedings:

Workshop's proceedings are available on the web site: <http://www.eo4geo.eu/workshops/>





## Workshop outcomes (EO4GEO session)

The INSPIRE Conference 2018 has represented an important event to support the **Training and education in GI and EO sectors** towards the INSPIRE Community. The workshop was organised into two different sessions, following the approaches of two ERASMUS+ projects, supporting respectively a strategy for the sector skill development and the methodology for the co-creation of knowledge linking in an ideal Alliance the HEI and the world of the Enterprises.

As a common introduction of the two sessions, the workshop began with a presentation of the Erasmus+ Programme, the EU programme to support education and training in Europe, which is organized in 3 key actions: KA1 – Learning mobility of individuals, KA2 - Cooperation for innovation and the exchange of good practices, KA3 – Support for policy reform. EO4GEO falls within KA2 Action, that supports Sector Skills Alliances.

In relation to the EO4GEO session, it was highlighted that the ERASMUS+ Sector Skills Alliances aim to tackle skills gaps with regard to one or more occupational profiles in a specific sector. EO4GEO is the Erasmus+ Sector Skills Alliances for implementing a new strategic approach (“Blueprint”) to sectoral cooperation on skills (sectoral skills strategy) in the Space Data (geo-information) sector.

The EO4GEO session continued with presentation about the key issues of the project:

The EO4GEO project, with its aims and objectives, was therefore introduced: what can be expected in terms of tangible results (Body of Knowledge, innovative tools as curricula/job profile design tools, a series of curricula and a rich portfolio of training modules) and new perspectives (a long-term Action Plan to roll-out and sustain the proposed solutions).

The structure of the project in relation to the scientific, technical and training work package was shortly presented, with some key messages on their major expected outcomes.

EARSC, leader of the Sector Skills strategy (part of WP1), has an important role in the project due primary to the fact that represents the European EO industry. They promote the industry and its capabilities by creating links between EO services sector and other business sectors and creating Networks of Interests. The “EARSC EO Services Industry Survey” provides a comprehensive view of the European EO Services Industry, thanks to the principal industry statistics (Revenues & Employment, Activities, Customers & Markets).

In the European Scene, Copernicus, with its Sentinel satellites and Services, is driving a huge change in the business environment in which the companies providing the EO operate, thanks to the large volume of data now freely available.

For EO4GEO project it's time for strategic questions to set up the skills strategy. Among other: What are the essentials of the EO/GI Sector Skills Strategy?; Who are the key stakeholders?; How do we align Skills Strategies to industry needs and public priorities? What occupations and skills are in high demand?

The EO4GEO perspective in the context of the Copernicus Academy Network was also briefly presented. The Copernicus Academy Network is in formation to link authorities (with their demand), service providers (with their need for innovation), and research (with their potential for evolution and capacity development). It aims being a gateway to Copernicus for all who want to know more, engage, and contribute.



Key actions of EO4GEO in support to the Copernicus Academy shall be: tackling skills gaps and identifying a European body of knowledge, develop a sectoral skills strategy, teaching and training methodology, best practices sharing (e-Learning, etc.), pursue concrete actions to foster the coordination of the space geo-information sector (establishing the operational Copernicus Academy network).

The first preliminary results of the supply and demand survey were presented. Some statistics by the answers received and the training content (supply side); a reference to the existing ESCO classification of skills, the objectives of the study, some statistics and the EO/GI skills profiles derived from the survey (demand side).

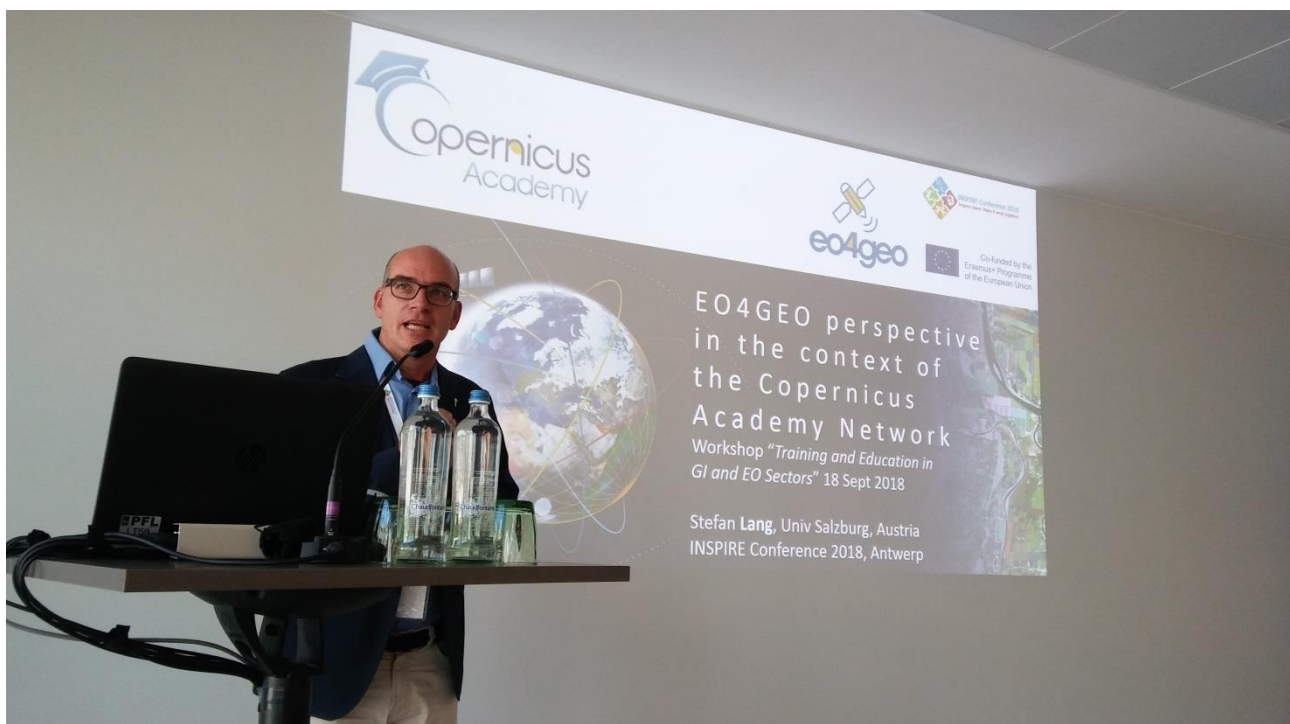
Finally there was an introduction to the Body of Knowledge for GI and EO, starting from the explanation of what is an ontology-based Body of Knowledge, a reference to the EARSC Taxonomy and the architecture of the BoKWiki.

The workshop ended with open questions to the participants.

A great interest arose about the importance of training and education in GI and EO sectors by the participants, representative of different type of organisations (Higher Education Institutes, Public Authorities and Enterprise), allowing exchange of ideas from different perspectives.

The training needs about capacity for the Copernicus user uptake was highlighted, together with the need for the definition of curricula addressed to different application domains.

Finally, all the participants were invited to actively participate in the project activities: participate in the surveys; apply for the Call for Experts; become an Associate Member; subscribe to the Newsletter; follow EO4GEO project on Social Media.



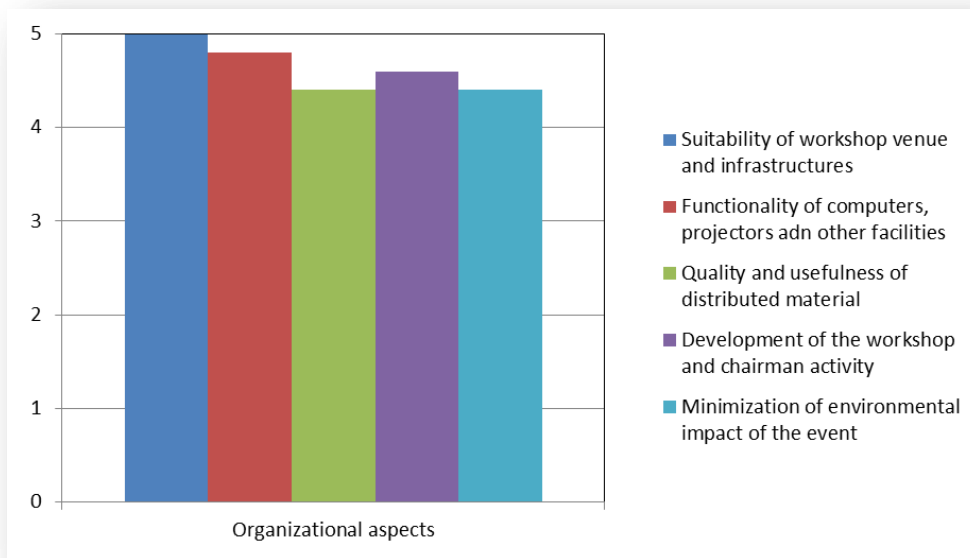


## Quality evaluation

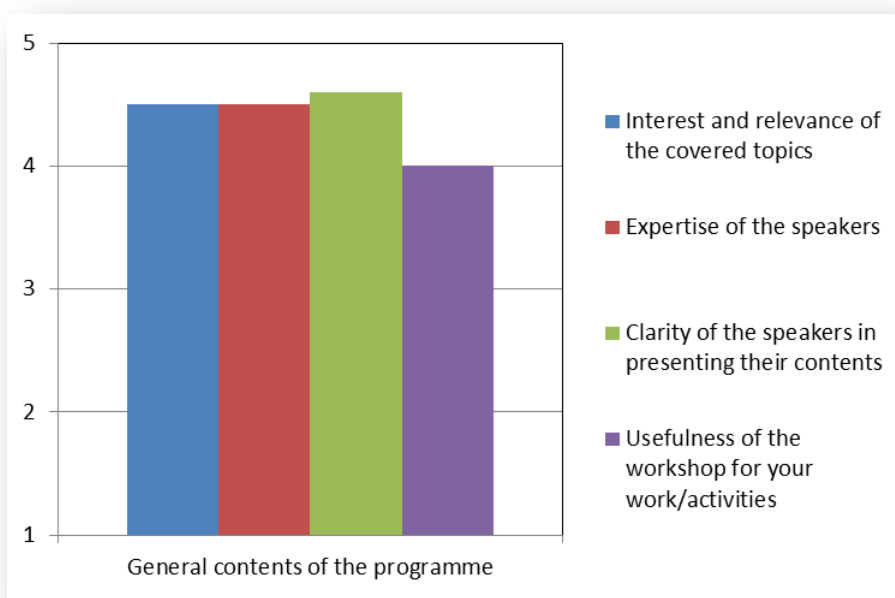
The workshop attendants were asked to evaluate the workshop with a questionnaire; the results of these evaluations were positive.

The following graphics show the average values of the answers. Not everyone answered all the questions.

### Organizational aspects [from 1 (poor) to 5 (very good)]

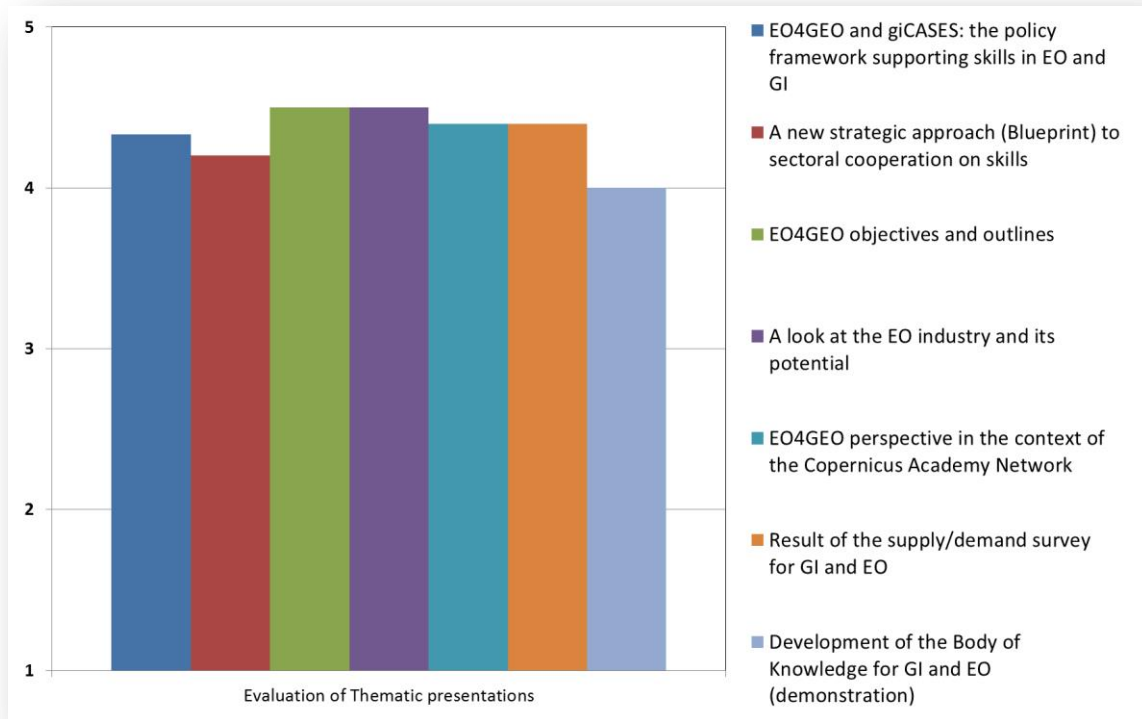


### General contents of the programme [from 1 (poor) to 5 (very good)]

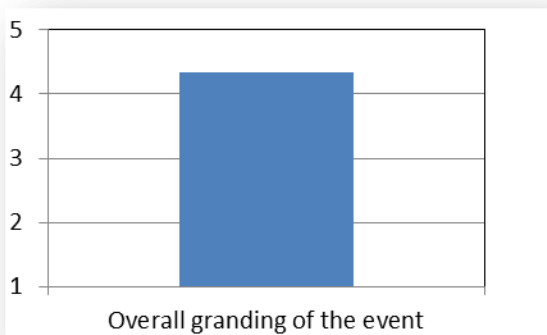




**Evaluation of Thematic presentations** [from 1 (poor) to 5 (very good)]



**Overall grading of the event** [from 1 (poor) to 5 (very good)]





### General evaluation

General evaluation	Yes
Would you recommend a next EO4GEO event to a friend/colleague of yours?	80%
Would you be interested to participate in evaluating and give contributions to the core deliverables of EO4GEO (the sector skills strategy, the Body of Knowledge, the EO curricula, the learning material, the long-term action plan etc)?	60%

### 3. EO4GEO High level capacity building seminars and events in 2019

In the frame of the EO4GEO project, NEREUS is responsible for the organization of 5 high-level capacity building seminars (Task 7.5) focused on specific sectors and in relation with the best-tuned exploitation of the different learning contents produced. They will be organized and structured on the basis of the gap analysis and the profile of each target audience, looking into innovative formats while adopting inter- and multidisciplinary approaches. The 5 seminars branded NEREUS will be organized in collaboration with the network members in order to ensure a strong regional anchorage together with a broad geographic representation. The tentative locations, as indicated in the project proposal are: Brussels, BE (NEREUS); Ponta Delgada, PT (University of the Azores – Copernicus Academy); Latresnes, FR (Aerocampus Aquitaine – Copernicus Academy); Matera, IT (Consorzio TeRN – Copernicus Relay); Warsaw, PL (UNEP/GRID – Copernicus Academy).

NEREUS would like to propose the concepts for the 2 high level capacity-building seminars for 2019, based on the outcomes of the workshop in Castellón and the ongoing discussions amongst partners. The aim of these seminars is double: on the one hand, they aim at presenting the Sector Skills Strategy (to be published in February 2019) with strategic stakeholders. On the other hand, the objective is to gather input with view to the Long-Term Action Plan and overall sustainability of the Blueprint Alliance.

In line with the network’s mission to ensure a regional dimension to European space policies and programmes, the first event wishes to look into the regional roll-out of the Sector Skills strategy. In order to feed into the long-term action plan, it will also discuss transversal skills together with the other Blueprint Alliances, in the presence of speakers that will be able to bring concrete experiences of the value of design thinking, creativity and soft skills. The second event is targeted to the French community, and will be organized in the Region of Nouvelle-Aquitaine, in collaboration with the local Copernicus Academy. The first objective will be to present the Sector Skills Strategy to a French audience and gather input.



### **Proposal for 2019**

- June 2019: NEREUS and AEROCAMPUS AQUITAINE (Nouvelle-Aquitaine, FR)
- Autumn 2019: NEREUS (Brussels, BE)

Theme	<b>Discussing the EO4GEO Sector Skills Strategy and its Recommendations (French edition)</b>	<b>Rolling-out the Sector Skills Strategies of the Blueprint Alliances at the national and regional levels</b>
Organizers	NEREUS + AEROCAMPUS AQUITAINE	NEREUS + GISIG
Contributors	European Commission	European Commission ERRIN
Date	June 2019	Autumn 2019
Place	Latresne, FR	Brussels, BE
Objective	<ul style="list-style-type: none"> <li>- Present the EO4GEO SSS to a French audience, which includes the national and regional level responsible for the certification</li> <li>- Gather input from the regional space community on the EO4GEO SSS</li> <li>- Raise awareness on the EO4GEO initiative</li> </ul>	<ul style="list-style-type: none"> <li>- Share the progressive SSS by each BA, with a focus on issues related to rolling out the strategies at the national and regional level</li> <li>- Exchange with EU, national and regional representatives ways to roll-out the SSS across Europe</li> <li>- Provide input to the Long-Term Action Plan for a sustainable EO4GEO BA</li> </ul>
Strategic audience	Nouvelle-Aquitaine civil servants and regional politicians Certification representatives	Permanent Representations Regional representation offices
Format	Conference – 100 people	Conference – 100 people
Developed format	Conference, which includes the presentation of the EO4GEO SSS and focus on the debate with the audience in order to gather input and further understand how this could be taken into the regional strategies.	Conference, which includes the presentation of the EO4GEO SSS and debate with experts in order to further understand the challenges and potentialities of rolling out the recommendations at the regional level.
Budget	TBD	TBD

The events could be followed by a Space Dinner, in collaboration with the International Space University