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D2.1 – Inventory of relevant LRAs and companies in regions



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List of Acronyms

| | |
|------------------|--|
| bavAIRia | Bavarian Aerospace Cluster |
| CopHub.AC | Copernicus Academy Hub for Knowledge, Innovation and Outreach |
| CoRdiNet | Copernicus Relays for digitalization spanning a Network |
| CR | Copernicus Relay |
| DG GROW | European Commission's Directorate General for Internal Market, Industry, Entrepreneurship and SMEs |
| DORIS_Net | Downstream Observatory organised by Regions active in Space – Network |
| EARSC | European Association of Remote Sensing Companies |
| EO | Earth Observation |
| GDPR | General Data Protection Regulation |
| GMV | Spanish private technological business group |
| GRAAL | GMES for Regions: Awareness and Access Link |
| IMR | Institute of Marine Research |
| LRA | Local Regional Authority |
| NGO | Non-governmental organizations |
| SME | Small Medium Enterprise |
| TeRN | Tecnologie per le Osservazioni della Terra e Rischi Naturali |
| ULEIC | University of Leicester |

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1 Introduction

This document has been issued in the framework of the CoRDiNet project (Copernicus Relays for digitalization spanning a Network). The project aims at supporting, promoting and stimulating digitalisation and new business solutions based on Earth Observation (EO) data/services from Copernicus program and bundling the local expertise in the civil use of EO close to the needs and offers of citizens, administrations and businesses.

The project builds on the past and present experience of the Copernicus Relay (CR) partners of the project which, during the last years, have been working on the identification, engagement, interaction, information and training of regional stakeholders in order to promote the Copernicus program and space-based solutions able to address societal challenges and improve the quality of life of EU citizens.

The regional dimension is crucial for this action. In fact, most of the barriers that limited or slowed down a more extensive use of EO data and Copernicus services can be understood and better evaluated only if the peculiarities in each single territory are properly accounted for. For this reason, one of the objective of the project is to interact with the regional stakeholders (users, potential users and providers) analysing their needs and capabilities and evaluating which barriers have prevented a more systematic use of Copernicus solutions so far, and promote the link between users/potential users and supplier of services based on EO data.

The activities aimed at better knowing and understanding the regional dimension (in term of demands, challenges and needs that can be addressed/supported by the Copernicus data and program) are part of *WP 2 - Regional challenges and needs to be supported by EO/Copernicus*, that includes the following task:

- Task 2.1 – Stakeholders identification and engagement
- Task 2.2 – Identify challenges, needs and present barriers
- Task 2.3 – Analysis of feedbacks and reporting

2 Scope and structure of the document

Among the afore mentioned tasks, this document reports the activities and the achievements in the framework of **Task 2.1** (Stakeholder identification and engagement), to identify the stakeholders in the CR core partners regions and build an inventory of:

- 1) **EO data/services users** (mostly Local Regional Authority - LRA - offices already using EO/Copernicus data/services);
- 2) **EO data/services potential users** (mostly LRAs or SMEs not engaged yet but who might potentially benefit from EO/Copernicus solutions);
- 3) **Providers of services/applications/solutions** based on EO/Copernicus data.

The inventory will be an instrument to be used in the the next engagement activities devoted to: (1) identify the stakeholder's demands, challenges and needs that can be addressed/supported by the Copernicus data/services; (2) identify existing barriers (technical, cultural, etc.) to the use/full exploitation of Copernicus data; (3) define local/regional strategies and policies to cope with needs and barriers.

The present inventory is aiming at classifying and segmenting local/regional stakeholders to better understand their main fields of interest and market sectors, in order to better characterize the specificities

and peculiarities of the different territories of the CRs involved in this action. This exercise could also be a first “format” that might be replicated in different regions and by different CRs (e.g. the ones not involved in this project), to get a larger view of the regional dimension of the potential Copernicus ecosystem at European level.

The report is organised in the following main sections:

- Inventory definition and structure (chapter 3)
- Regional Inventories analysis (chapter 4)
- Overall Analysis of Regional inventories (chapter 5)
- Conclusions (chapter 6)

3 Inventory definition and structure

The regional stakeholder inventory template used, by each partner, to identify and classify the Copernicus stakeholders in its own geographical area of reference, has been organized in two main parts.

The **Part 1** (shared and common to all CRs) collects the main information necessary for a first classification of stakeholders, i.e.:

- 1) the ORGANIZATION NAME (indicating, where possible, the specific department/office);
- 2) the TYPE of stakeholder (e.g., Small Enterprise –SME, Large company, Research Center, University, Public Authority, Consultancy, NGO, Association, Insurance & Finance, etc.);
- 3) a short description of the MAIN/CORE ACTIVITIES, useful for the identification of market sectors and areas of interest (in particular for the user/potential user);
- 4) the CLASSIFICATION of stakeholders in one of the main three macro-categories: providers, users, potential users;
- 5) an identification of the MARKET SECTORS of reference for each stakeholder, specifying, where detailed, the related areas of interest. This section has been defined on the basis of a selected Taxonomy, as specified later.

It is worth mentioning that only the information collected in Part 1 of the inventory has been used for the analysis performed and discussed in the following paragraphs.

The **Part 2** collects additional and more "privacy sensitive" information (addresses, websites and contact names) not necessarily needed to be shared among partners but that can be useful for each CR for the next stakeholder engagement activities. This part can be tailored by each CR according to their own needs.

Concerning taxonomy to be used for stakeholder segmentation and classification, once verified that the DG GROW is not working on an own EC taxonomy, the EARSC Market taxonomy (Issue 2, August 2015, available at www.earsc.org) has been selected as a reference for identifying the market sectors in which the EO products and services concerning each single stakeholder are relevant to. This is the most relevant and updated taxonomy we found. Moreover, considering that EARSC is also one partner of the CopHub.AC project (the partner project, more focused on Copernicus Academy network activities and funded within the same H2020 call), the use of a EARSC-based taxonomy represents an effective synergy between the two projects and another opportunity for close interaction and collaboration. To increase the level of details, a further segmentation has been proposed by integrating the thematic areas coming from the GMES4REGIONS taxonomy (developed in the frame of the GMES4REGIONS initiative, born from the strict

collaboration between the two sister FP7 projects DORIS_Net and GRAAL) which helps to better and more accurately classify needs and fields of interests of public administrations and LRAs, which are currently considered as the main customers of the Copernicus related services and products. The final defined and used taxonomy is detailed in the Annex 1 of this report, whereas the template of the Inventory Stakeholder is reported in Annex 2. The latter was generated as an excel file with different sheets.

The final taxonomy (Annex 1), suggested by TeRN (the WP2 Lead partner), has been shared and agreed by all partners of CoRDiNet. Therefore, it has been used to collect information about the local stakeholders (companies, service providers, local regional offices, b2b customers for EO services & data, research institutions, etc.) in the CoRDiNet contractors' defined regions/nations. The taxonomy will be also suggested for being used by the "external" Copernicus Relays that will be later reached via Calls for Expressions of Interest, as foreseen within the WP5 activities of CoRDiNet.

With this aim, each CR partner has proceeded to identify and address, in its own geographical area of reference, the main Copernicus stakeholders. They have been also asked to provide a consent, according to the new European regulation on data protection (GDPR – General Data Protection Regulation) on the use of their data for the scopes of the project as well as for making them available on the Copernicus.eu web site on a password protected area. CR partners have then collected (and are still collecting) stakeholder replies on that on a three-level consent choice (see Inventory template Part 3 in Annex 2) and all the data with an express consent from stakeholders will be then transferred to the Copernicus Support Office.

4 Regional Inventories analysis

The analysis of collected data provides a clear picture of the regional dimension in term of type of stakeholders, categories and the main market sectors/thematic areas of interest.

This analysis represents the first step within the WP2 activities, devoted to a close interaction with, and a continuous engagement of, the local/regional stakeholders.

In the next paragraphs, results achieved by the analysis of the stakeholders inventory of each CoRDiNet CR partner are summarized. It should be mentioned that, among them, some act at regional scale (i.e. TeRN, bavAIRia, ULEIC) whereas some others have a more national focus (i.e. GMV and IMR) thus the following analysis reflects this different scale of the involved CRs.

4.1 Basilicata Inventory (TeRN)

In Basilicata Region the number of stakeholders identified is 40 (the list is reported in Annex 3). Their analysis in terms of Stakeholder type (i.e. Organization type), outnumber category (i.e. Category) and market sectors/thematic areas of interest is summarized in the following graphs.

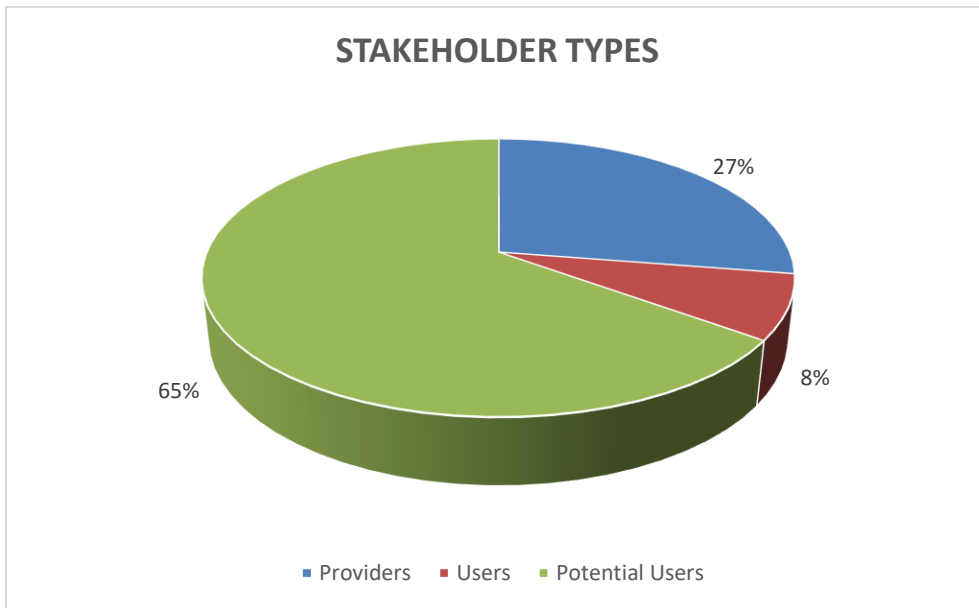


Figure 4-1 Stakeholder typologies in Basilicata region

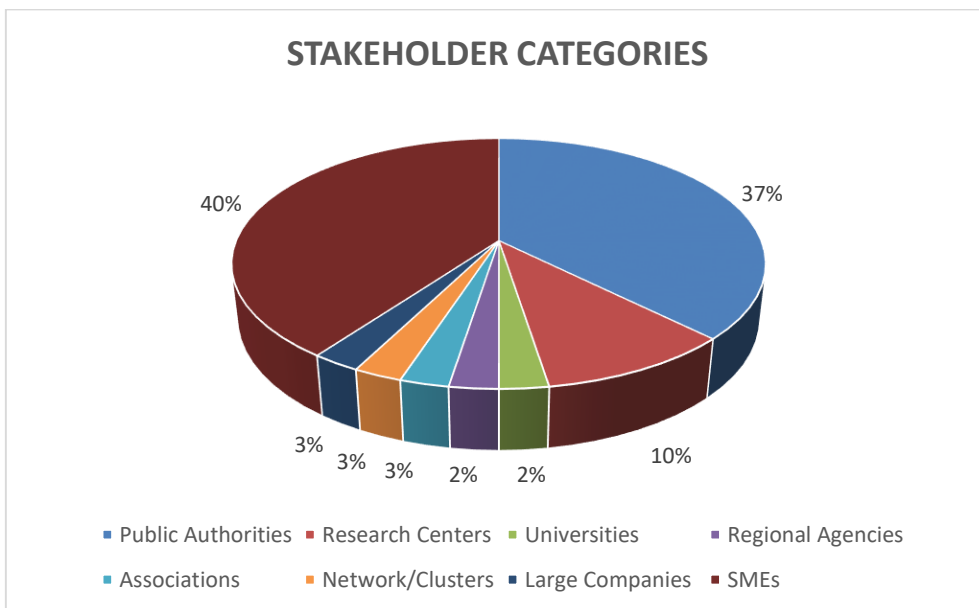


Figure 4-2 Stakeholder categories in Basilicata region

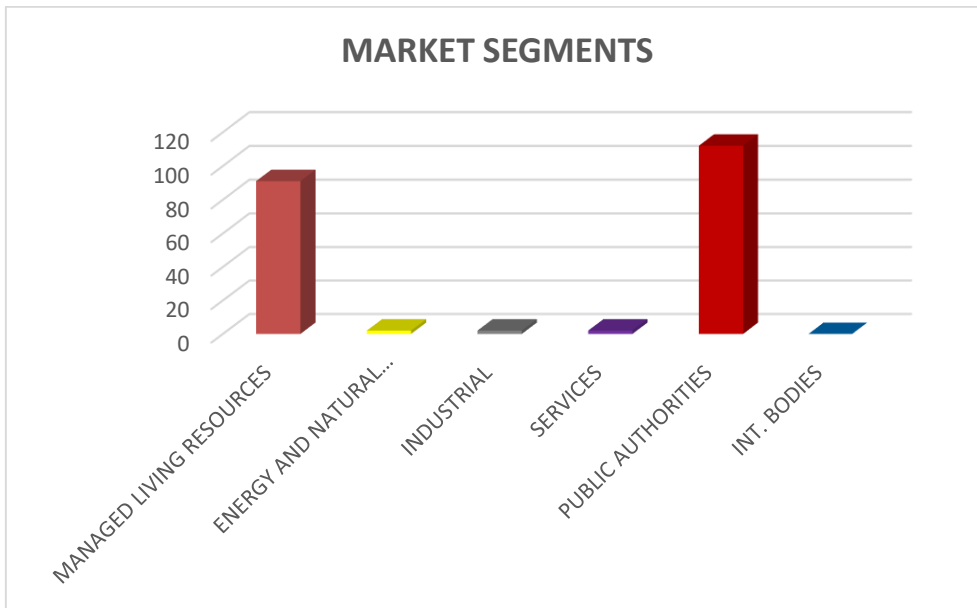
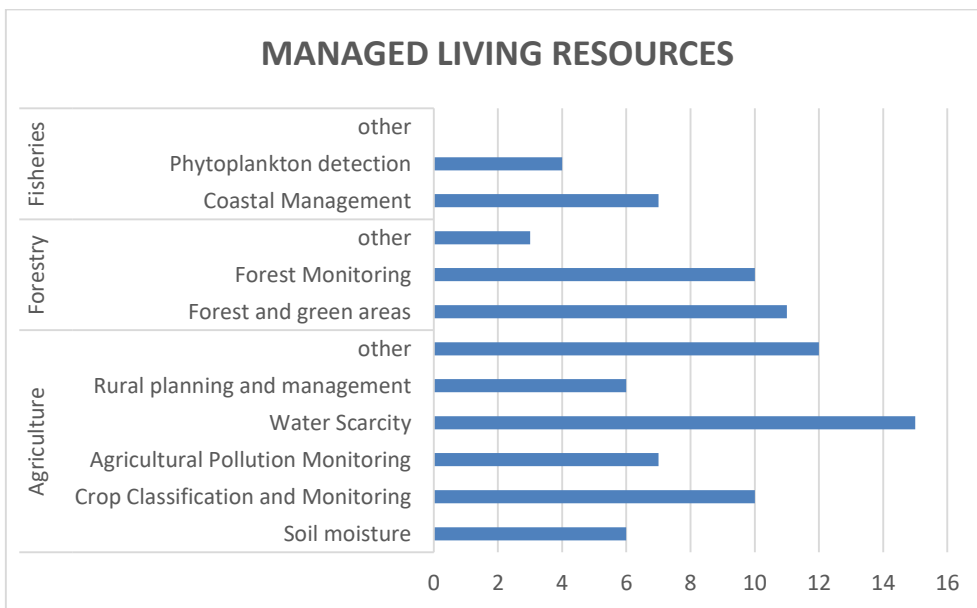


Figure 4-3 Market segments of main interest for Basilicata stakeholders



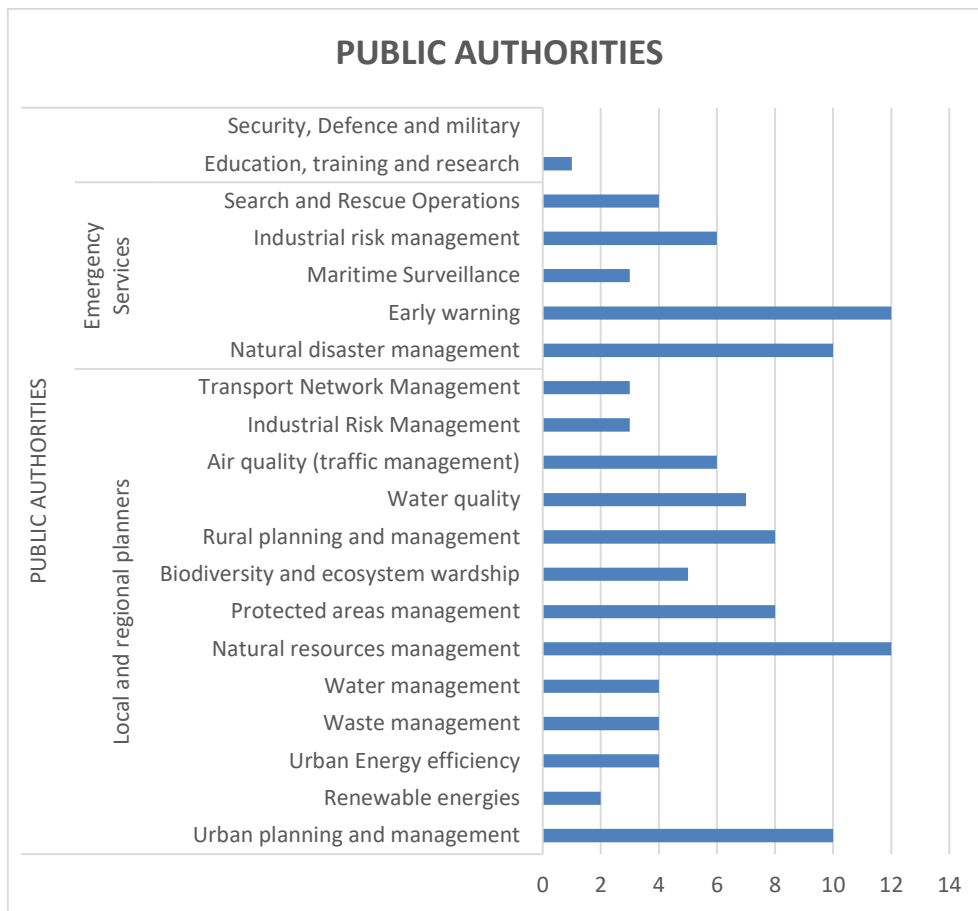


Figure 4-4 Market sectors and related thematic area of market segments of major interest in Basilicata

Analyzing the data, the following considerations can be done:

- Stakeholder categories are differentiated, but with a clear prevalence of Public Authorities (37%) and SMEs (40%). This figure is perfectly in agreement with the Basilicata stakeholders segmentation as identified in the Research Innovation Smart Specialisation Strategy (RIS3) of Basilicata region (http://s3platform.jrc.ec.europa.eu/documents/20182/225192/IT_Basilicata_RIS3_201508_Final.pdf/c70a3f9e-ea3d-4717-a7f6-16919e047f79).
- Most of the stakeholders have been classified as potential users, this revealing a general interest toward the Earth Observation technologies and the Copernicus data/services, even if this confirms, on the other side, that a full exploitation and employment of such technologies is still to be achieved (as further confirmed by the small rate - 8% - of the actual users in the region).
- The general "public" character of the Basilicata stakeholder is confirmed by the analysis of the market segments of main interests which are strongly clustered around the Public Authorities and Managed Living resources themes. By focusing on these macro market segments, it is interesting to highlight the thematic areas where EO products and services could be used, are used

or provided (see Fig. 4-4). They mostly concern with *agriculture* (especially in terms of *water scarcity*) and *forestry* within the managed living resources sector. The *early warning*, the *natural disaster and resource management* are the most relevant services and areas of interest within the Public Authorities market segment of Basilicata region, again confirming a particular attention of this territory to the themes of risks and natural hazards.

4.2 Bavaria Inventory (bavAIRia)

Although in Bavaria Region the total number of stakeholders identified is 69 (the list is reported in Annex 3), only a subset (i.e. 16, the 23% of the total) provided the complete figures of their fields of interest and main market sectors so far, according to the provided taxonomy. Therefore, the following analysis is based on these 16 stakeholder returns. Of course, this analysis can be further improved and enriched as far as other information will come from the remaining stakeholders.

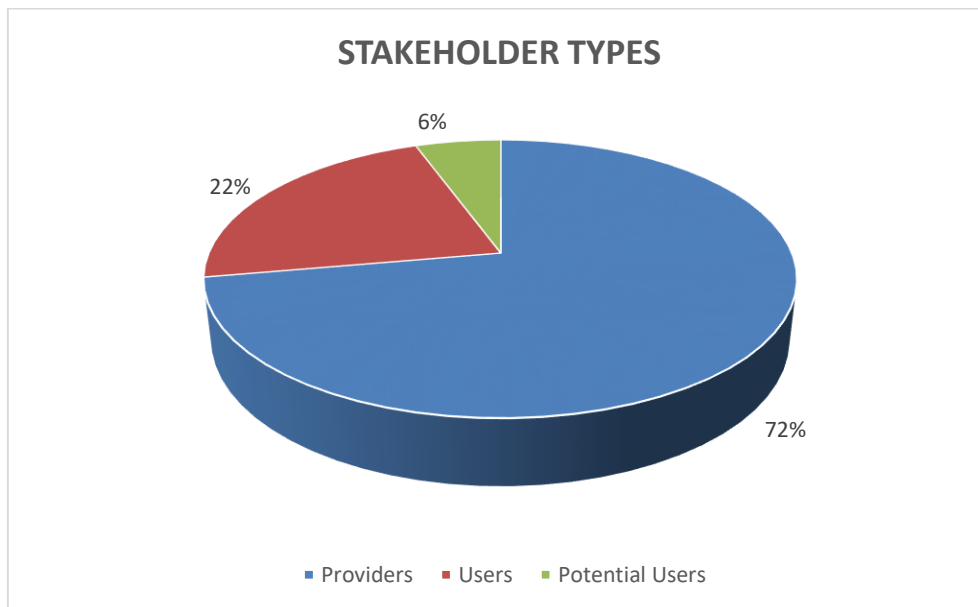


Figure 4-5 Stakeholder typologies in bavAIRia

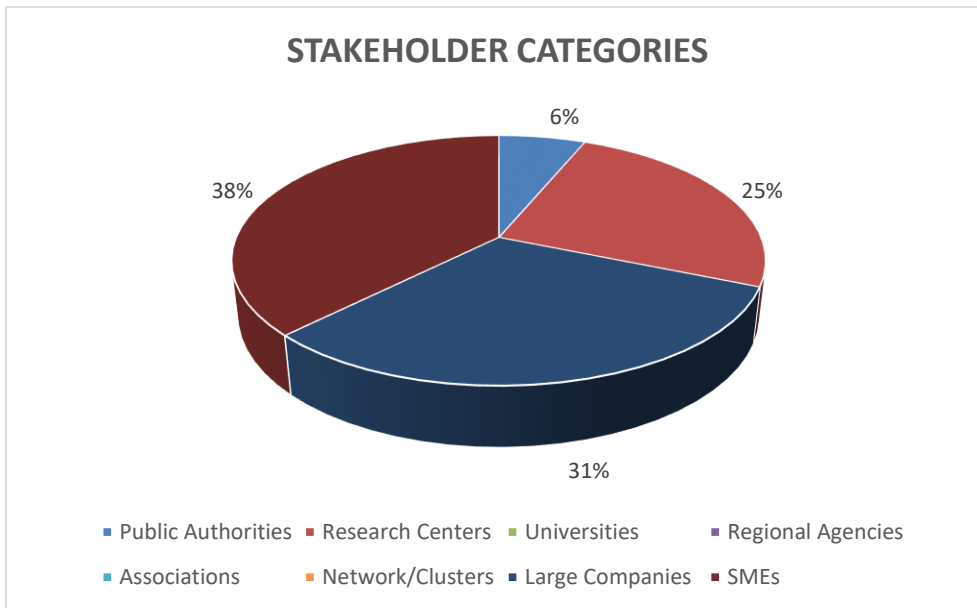


Figure 4-6 Stakeholders categories in bavAIRia

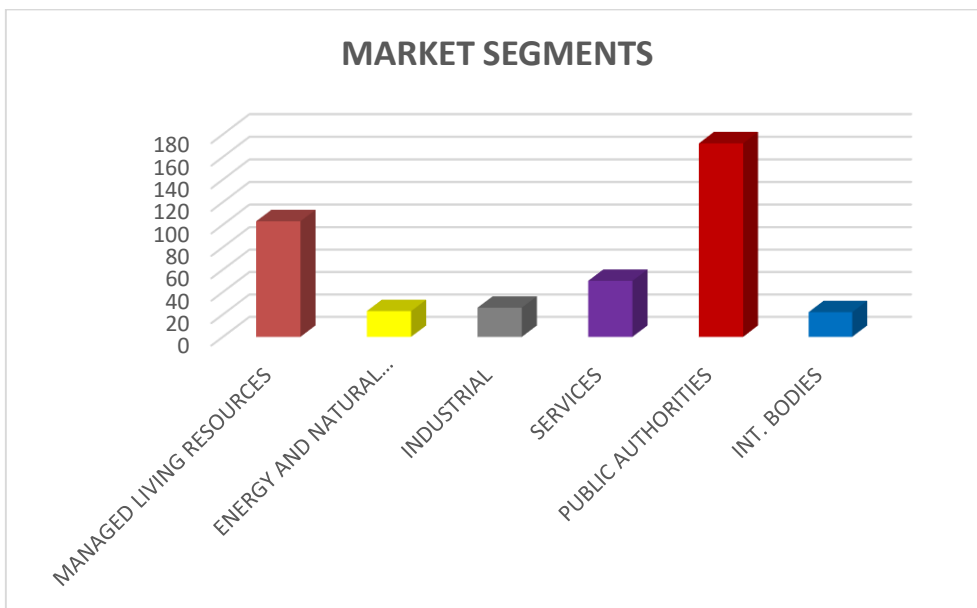


Figure 4-7 Market segments of main interest for bavAIRia stakeholders

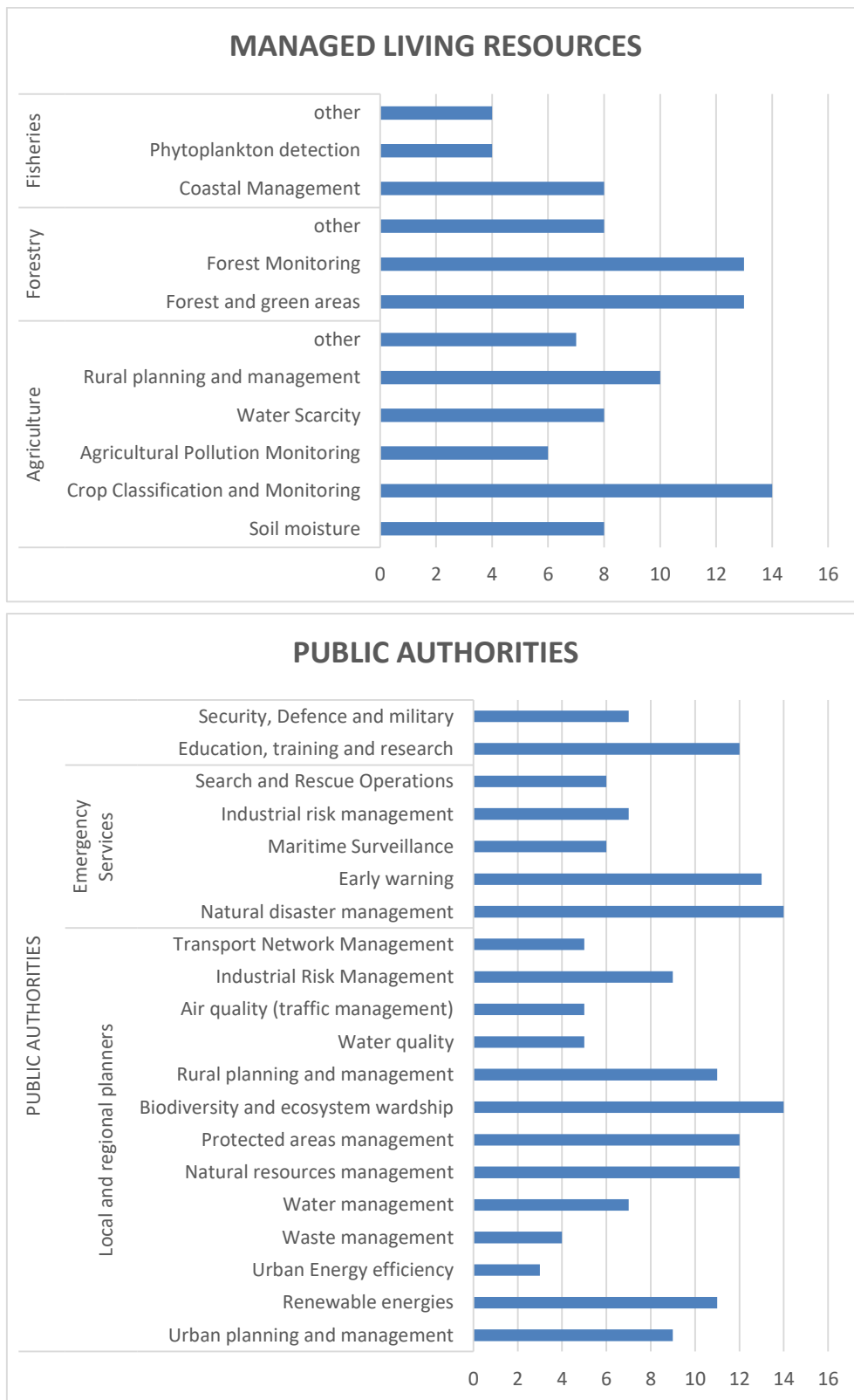


Figure 4-8 Market sectors and related thematic area of market segments of major interest in bavAIRia region

Most of the stakeholders have been classified as providers, followed by users and potential users. The categories of stakeholders are equally represented among SMEs, large companies and research centres and by a smaller number of public authorities.

The market segments of major interest are Public Authorities and Managed Living resources. By focusing on these macro market segments, the thematic areas mostly concern with *forestry* and *agriculture* within the “managed living resources” sector. Regarding the main sectors where public authorities already use or are interested in using EO and Copernicus services, they mainly refer to local and regional planning activities, with a special focus on wardship of biodiversity and ecosystem, the management of natural resources, the rural planning and industrial risk management. Within the emergency services, management of natural disaster and the early warning are the main services.

4.3 East Midlands Inventory (ULEIC)

In East Midland Region the number of stakeholders identified is 24. A similar analysis has been carried out in this case and the following graphs and plots summarize the main outcomes.

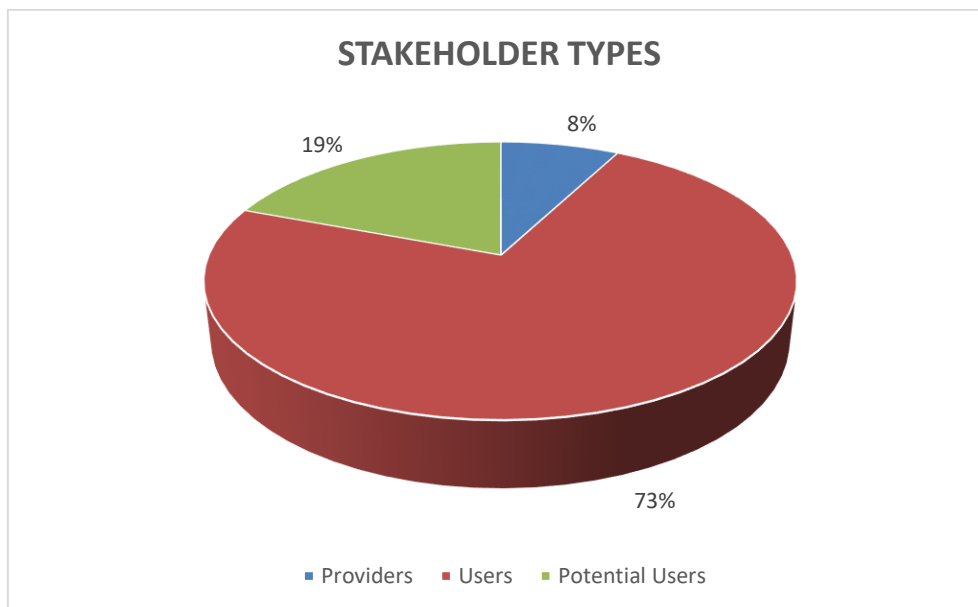


Figure 4-9 Stakeholder typologies in East Midlands region

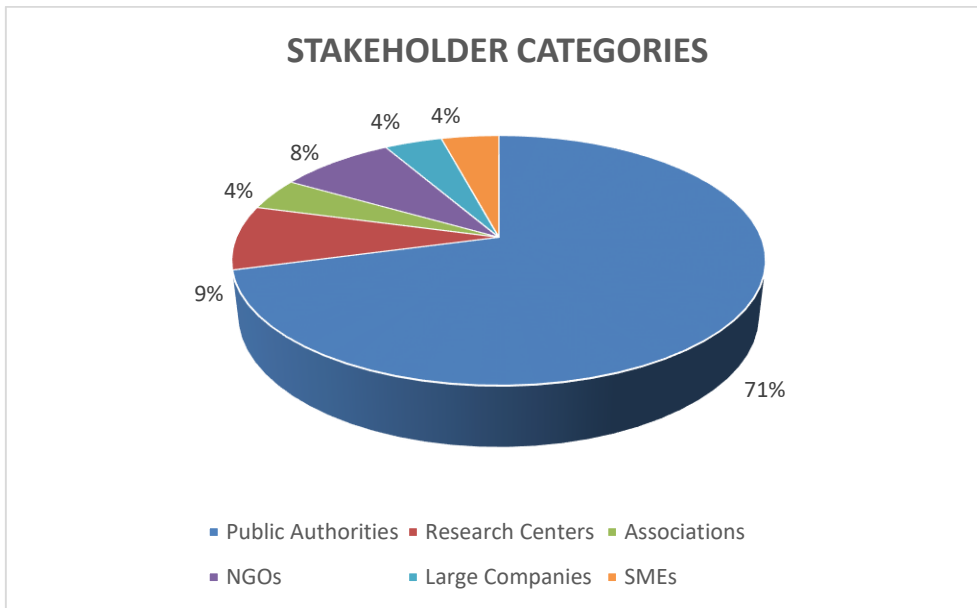


Figure 4-10 Stakeholder categories in East Midlands region

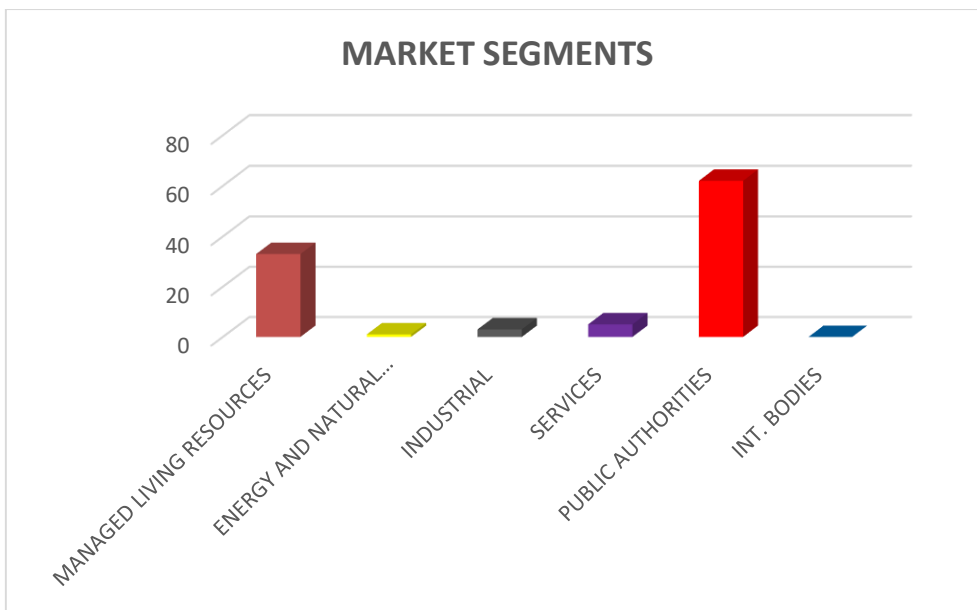


Figure 4-11 Market segments of main interest for East Midland Region

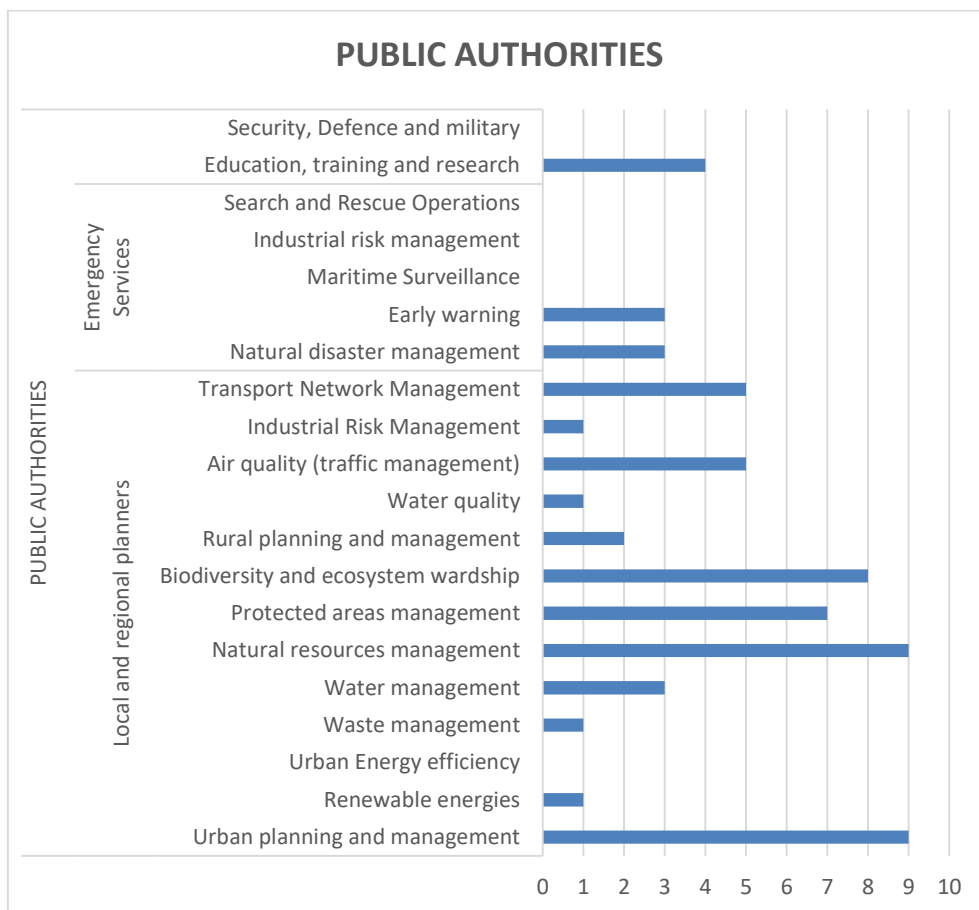
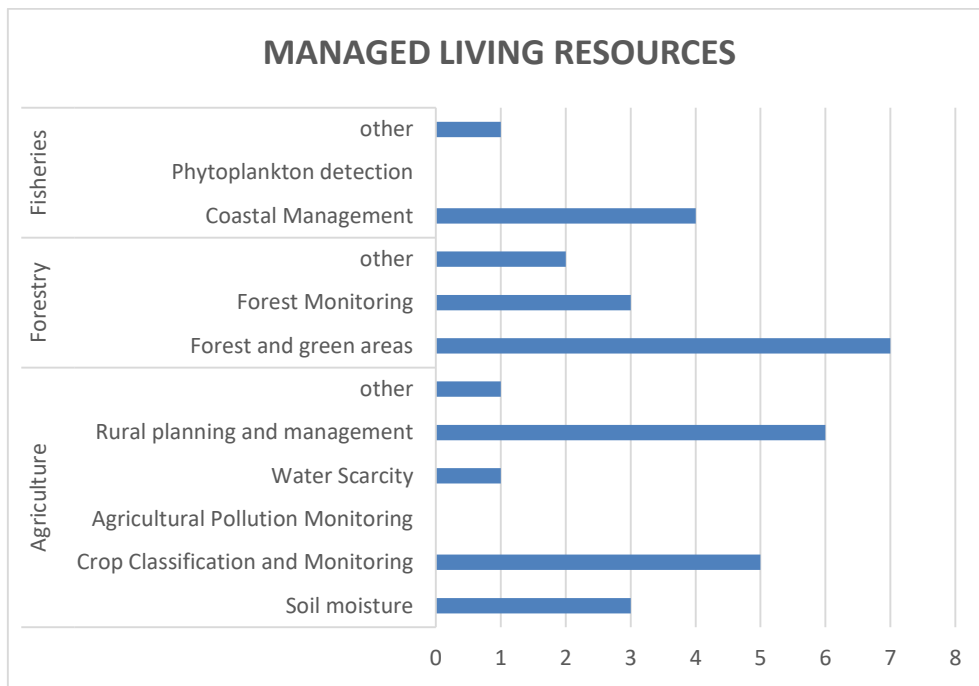


Figure 4-12 Market sectors and related thematic area of market segments of major interest in East Midlands region

In the case of East Midlands region, users are largely more represented than providers. Similarly, Public Authorities are the most represented category that together with the research centers represent about 80% of the total.

As a consequence, Public Authorities and Managed Living resources are the market segments of major interest. By focusing on these macro market segments, it is interesting to highlight the thematic areas where EO products and services could be used, are used or provided (see Fig. 4-8). They mostly concern with forestry and agriculture within the “managed living resources” sector. Main market sectors refer to local and regional planning activities, with a special focus on Biodiversity, Natural resource and protected areas management. Among the other sectors, a significant interest is also toward the traffic (air quality), transport network management and urban planning.

4.4 Norway Inventory (IMR)

In Norway 22 stakeholders have been identified. It should be stressed again that, as mentioned before, the Norwegian Copernicus Relays has a national rather than a regional character, thus the stakeholder inventory in this case pertains more to a national scale.

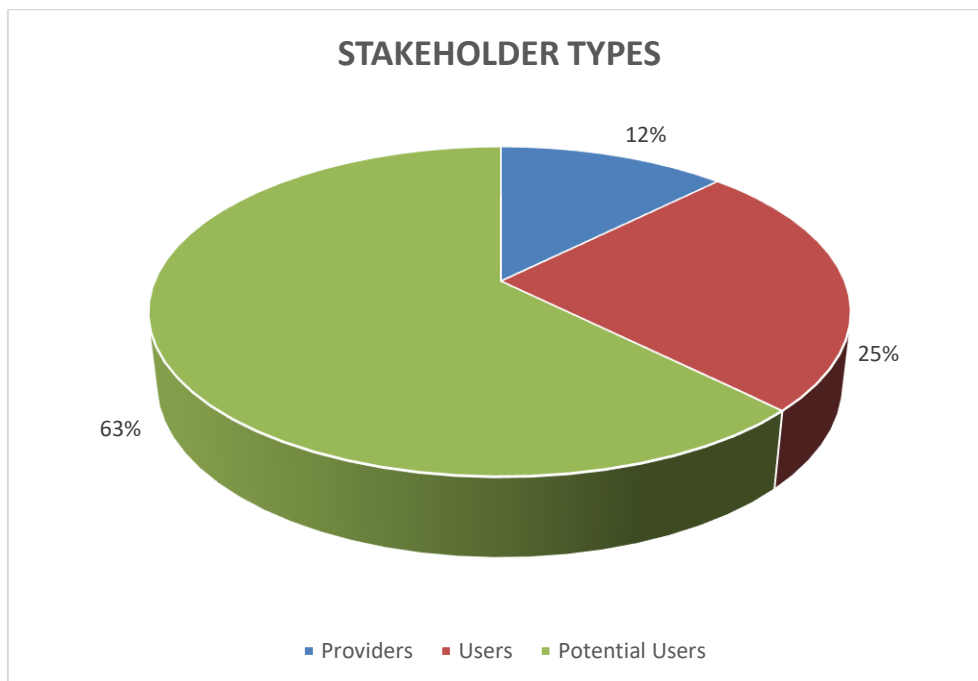


Figure 4-13 Stakeholders typologies in Norway



Figure 4-14 Stakeholders typologies in Norway

Differently from previous regions, in this case the stakeholder category figure is much more differentiated with a presence of several categories well distributed and with some new bodies (e.g. International advisory board) which are not present in other regions. Public authorities are not the majority in Norway and also this represent a peculiarity.

Also looking at the market sectors and field of interest, although the public demand confirms to be an important driver, other sectors, like “services” and “industrial” have a significant penetration in the Norway territory and market.

These differences are probably to ascribe, together with the specificities of the territory, even to the national rather than regional scale this analysis refers to.

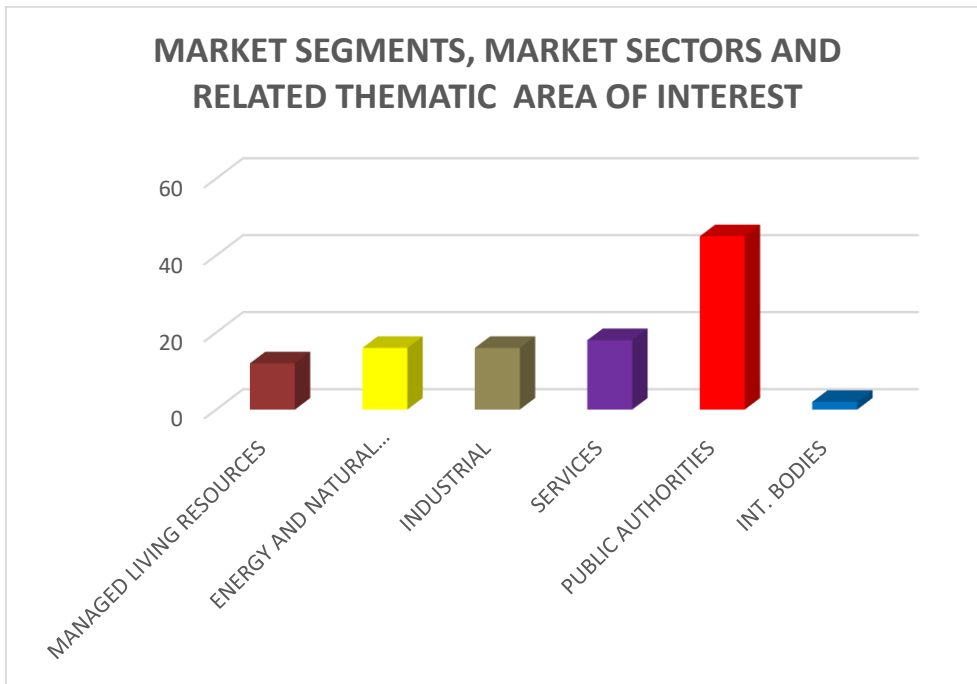
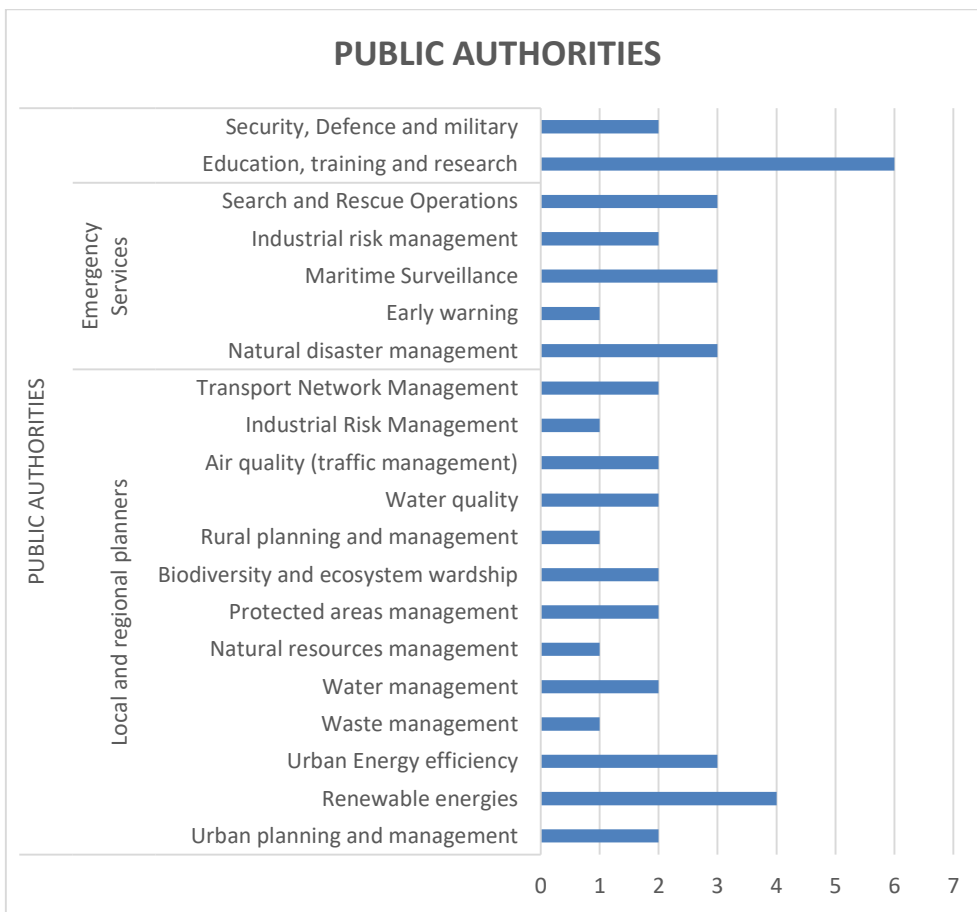


Figure 4-15 Market segments of main interest for Norway stakeholders



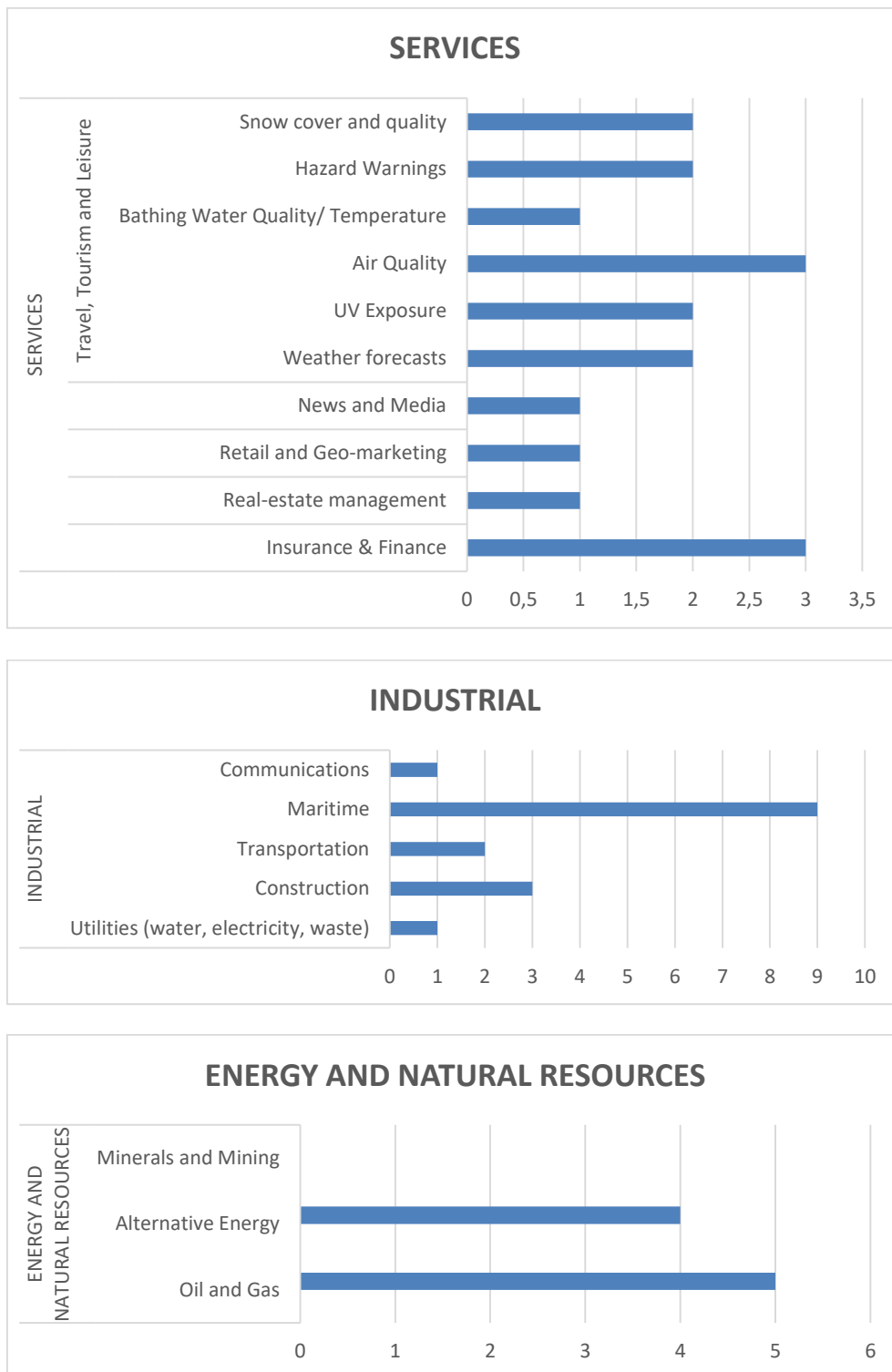


Figure 4-16 Market sectors and related thematic area of market segments of major interest in Norway

Looking more in detail within the four main Norwegian market segments (i.e. Public, Services, Industrial and Energy sectors) is worthing to note that there is a special interest in education and training in

emergency services; air quality and insurance&finance are the main service sectors of the country and, as expected, the marine thematic area is a very peculiar industrial sector in Norway. Finally, within the Energy sector, not surprisingly the Oil&Gas market segment is one of the major interest in Norway.

4.5 Spain Inventory (GMV)

In Spain, 45 stakeholders have been identified, distributed in 8 regions (Region of Madrid, Andalusia, Catalonia, Valencian Community, Galicia, Extremadura, Castile&Leon and Navarre). Therefore, even in this case the stakeholder figures reported in the following reflect a wider than regional scale.

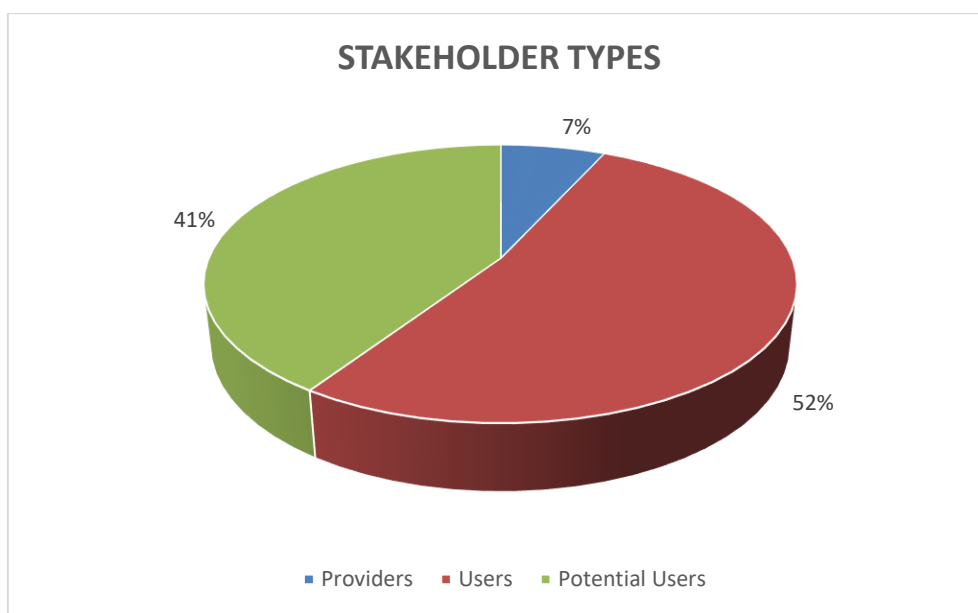


Figure 4-17 Stakeholders typologies in Spain

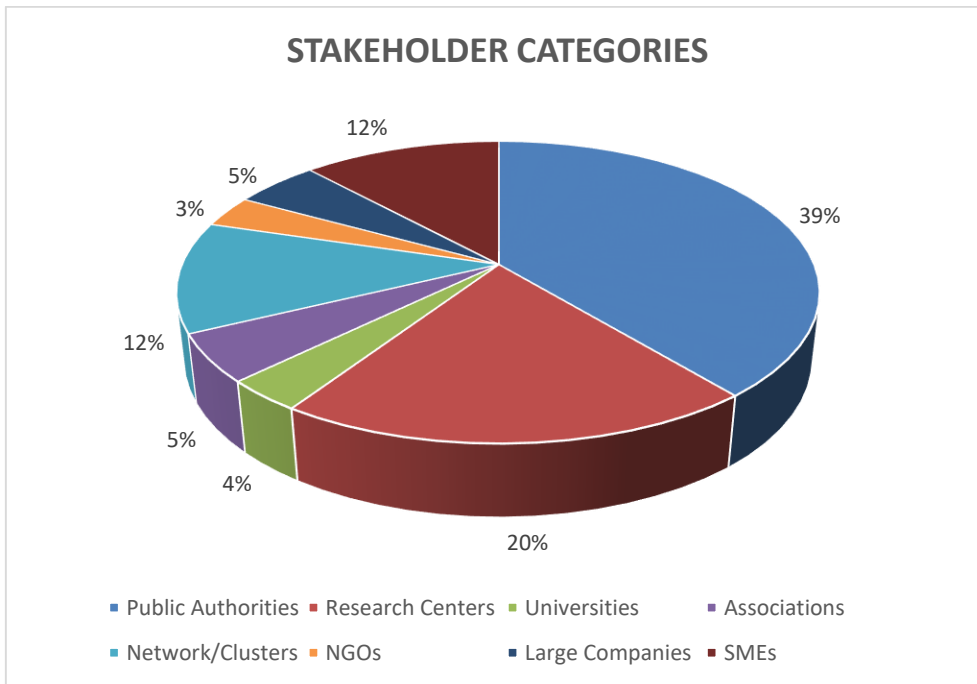


Figure 4-18 Stakeholders categories in Spain

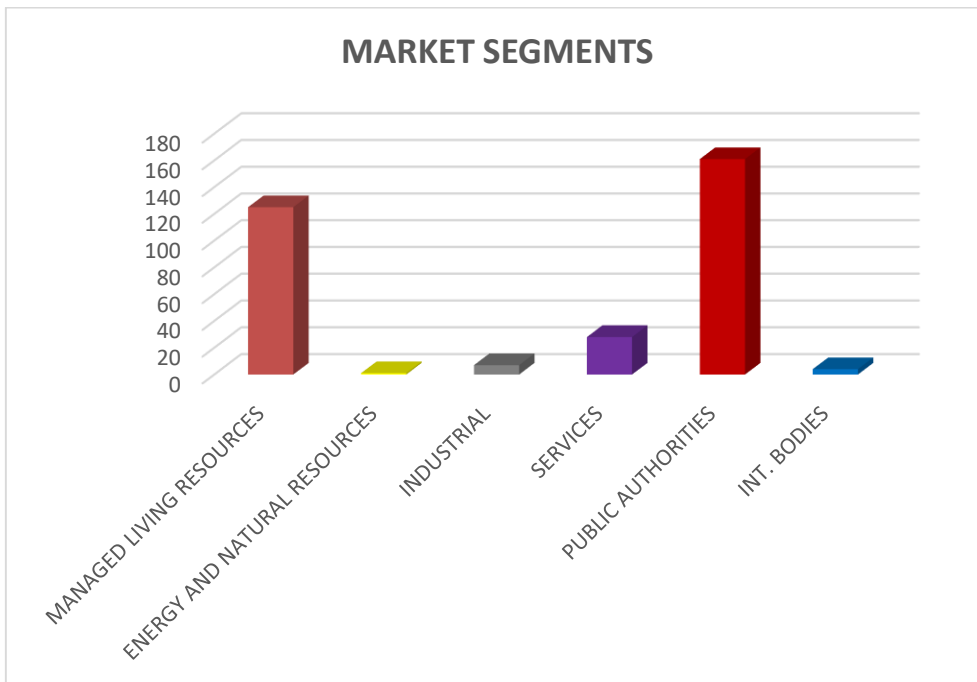


Figure 4-19 Market segments of main interest for Spain stakeholders

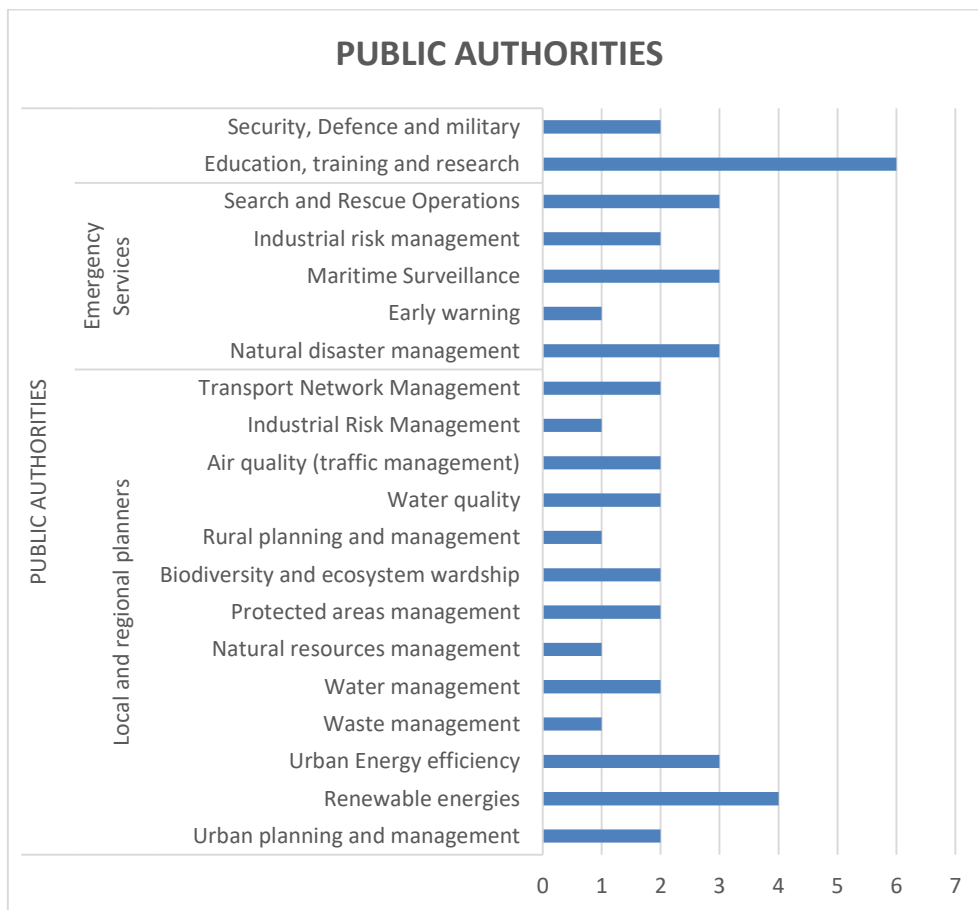
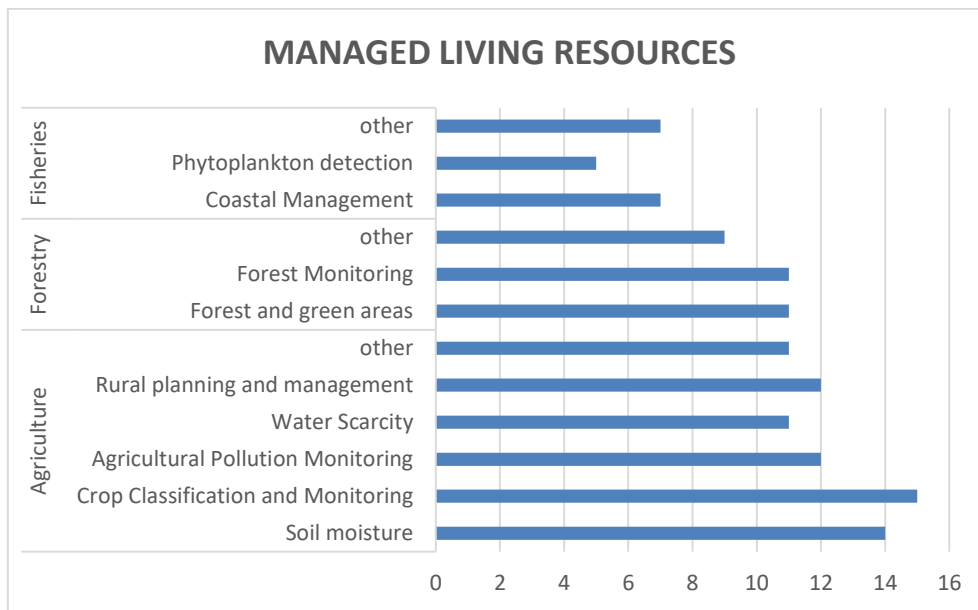


Figure 4-20 Market sectors and related thematic area of market segments of major interest in Basilicata regi

With reference to the stakeholder types, both actual users and potential users are well represented, suggesting a diffuse interest in EO and Copernicus products and services in Spain. More surprising is the limited percentage of providers (only 7% of the total). Similarly to the Norwegian case, the stakeholder

categories are several, likely reflecting the national scale of the analysis. However, public authorities and research centers are the prevalent actors, representing about 60% of the addressed stakeholders.

The main market sectors are, also in this case, the ones referring to Public authorities and Managed living resources, with special focus on Agriculture, Forestry, Fishery, Education on emergency and natural resource management. Renewable energies seems also an emerging market, where EO and Copernicus applications are viewed as having a potential.

5 Overall Inventories analysis

In this section, the overall analysis, where all the information collected by each CRs and discussed in the previous chapter is merged and aggregated, is presented with the main aim of providing a more European-wide view of the Copernicus stakeholder types as well as about the (actual and potential) Copernicus market.

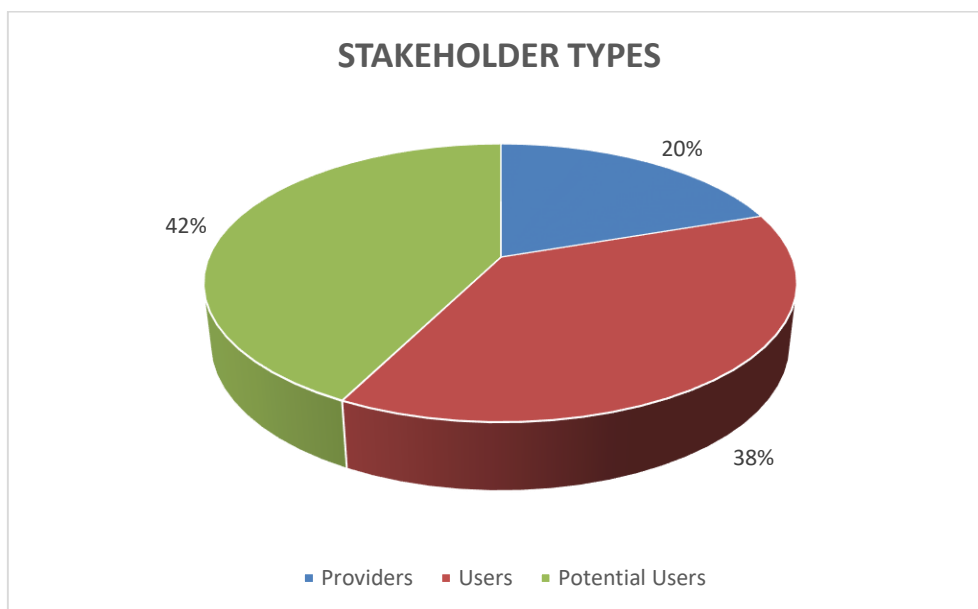


Figure 5-1 Stakeholder typologies in the CR's Geographical area of Reference

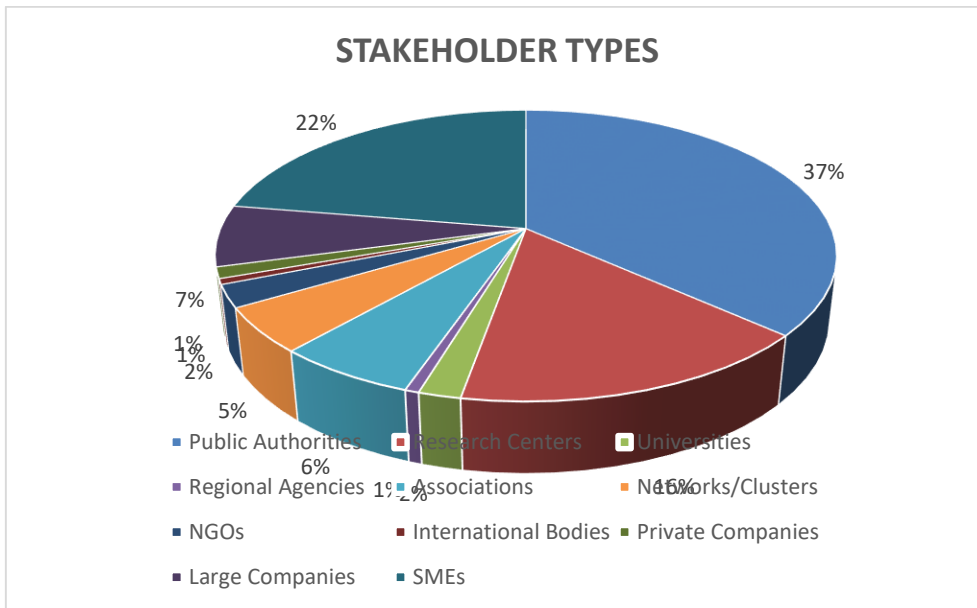


Figure 5-2 Stakeholder categories in the CR's Geographical area of Reference

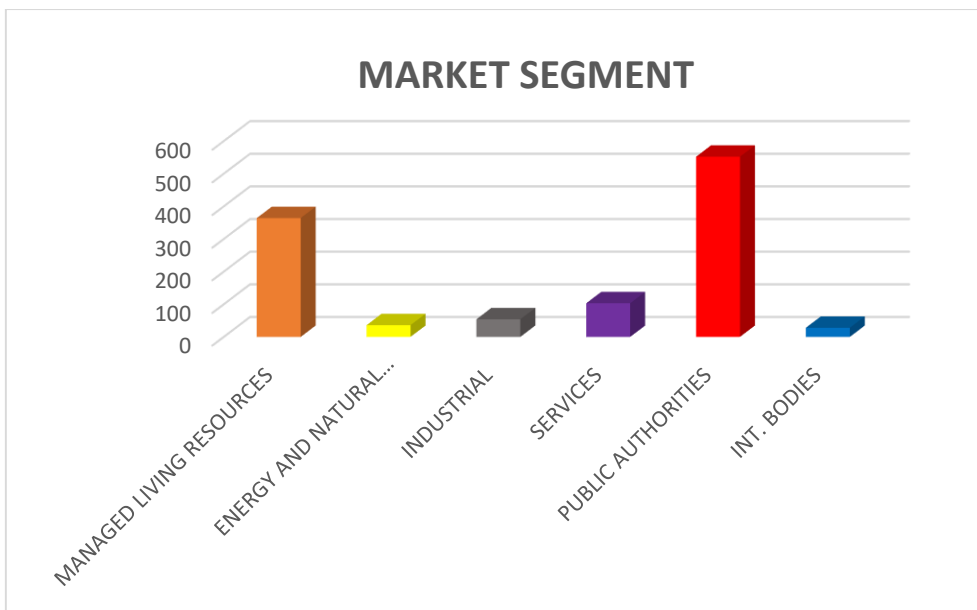


Figure 5-3 Market segments of main interest for the partner CR's stakeholders

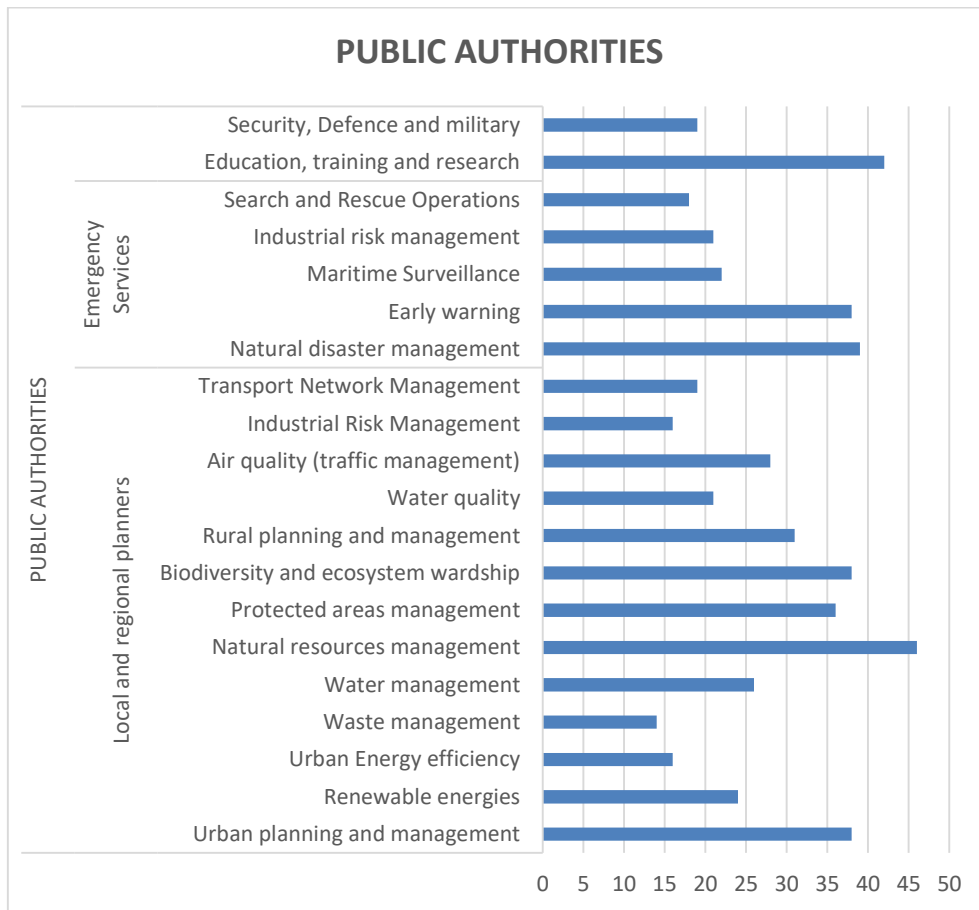
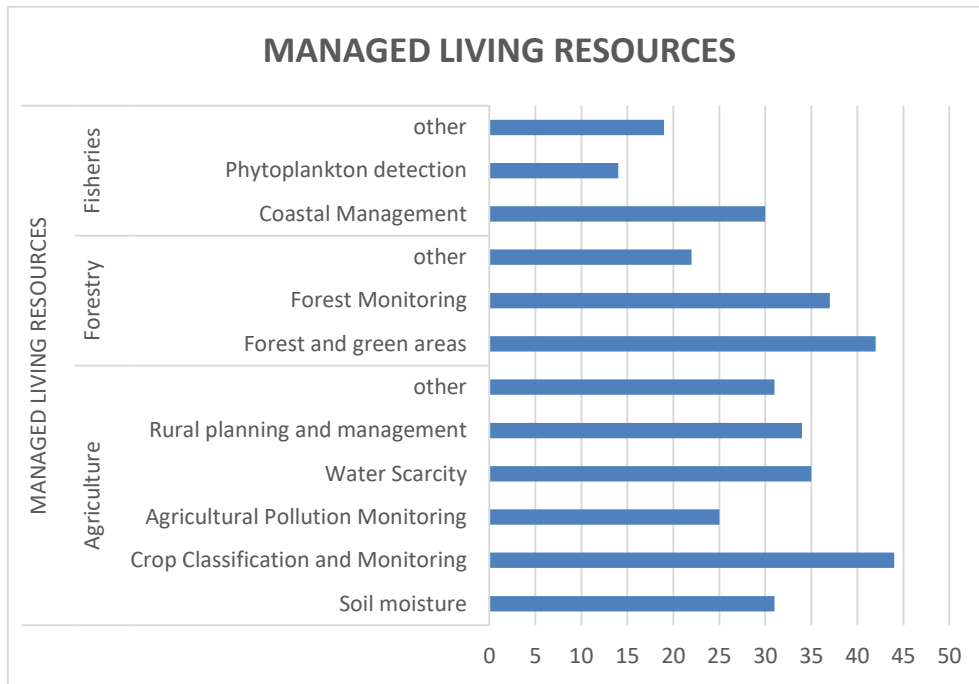


Figure 5-4 Market segments of main interest for Basilicata stakeholders

The overall analysis generally confirms the very important role of the public demand in the development and growing of the Copernicus market. Among the market segments proposed in the taxonomy, the addressed stakeholders revealed main interests toward the thematic areas proper of Public authorities tasks and commitments, like Emergency management (with early warning and natural hazards management as prevailing domains), Regional and local planning (where natural resources, urban and protected areas management show the main interests). The second market segment of interest is the “Managed living resources” one, where the main topics of interest are: Agriculture (e.g. crop classification and monitoring) and Forestry (Forest and green areas monitoring).

Of course, this marked preponderance for these two segments is not surprising, as it is probably a direct consequence of the strong environmental character of the Copernicus program (which is born from the former GMES – Global Monitoring for the Environment and Security).

Additionally, it is worth to note that within these two prevalent market segments, all the sectors identified in the taxonomy have found the interest of a quite significant number of stakeholders. In fact, no one market sector returned no interest at all (i.e. zero returns) and the minimum number of returns for a specific market sector is 14.

Regarding the other five market segments present in the taxonomy, all of them received attention from the addressed stakeholders, confirming the large applicability of Earth Observation data and the great potential of the Copernicus market. Among the identified sectors, promising is the thematic area of Travel Tourism and Leisure, which received a great attention (especially for “air quality” services) in all the CR geographic areas. Moreover, concerning the Energy segment significant interest was achieved by the “alternative energy” market segment, with 16 returns coming from all the regions except East Midlands.

Finally, further investigations are needed to better understand the stakeholder interests when they marked the fields named “other” within the “Managed Living Resources” market segment, thus revealing that perhaps additional market sectors are to be considered and still remain excluded in the proposed classification scheme.

6 Conclusions

This report summarizes part of the activities carried out during the first 4 months of the CoRdiNet project in the framework of the Task 2.1, focused on Stakeholder identification and engagement. The original deadline of December 2019 was postponed of one-month due to the difficulties inherent the consent collection according to the GDPR rules. In summary, the stakeholder analysis carried out in this report suggests the following main conclusions:

- Public demand is a key factor for Copernicus market development and growing. This seems a general rule, regardless the specific region/geographic area concerned. The market of Copernicus applications and services cannot be fully deployed if a more systematic and continuous employment within public sectors is not reached.
- The large number of potential users is an indirect measure of:
 - o the Copernicus market has a great potential in the near future, as there is an increasingly interest toward these applications and services;

- on the other hand, this market has not yet fully explored and significant and continuous support actions (e.g. information, training, awareness raising, etc.) have to be pursued and carried out with this aim.
- Providers and users, already involved in Copernicus ecosystem, show a quite significant diversification on several market sectors and segments. This, again, confirms the great potential of the Copernicus program that, with its high multi-disciplinarity and the very wide range of application fields may address a huge number of market sectors and value chains.
- Territory specificities and peculiarities (eg. Basilicata for risk monitoring and management, Norway for Marine industry and Energy, etc.) well emerge from this analysis, partly confirming the complementarity of the involved CRs.

The next activities foreseen within WP2 will allow for an improved understanding of all these aspects, to better identifying those demands, challenges and needs that can be addressed/supported by the Copernicus data/services.

Annex 1 – Taxonomy

| EARSC Market taxonomy | | | GMES4REGIONS | |
|-----------------------|------------------------------|--|--|------------------------------------|
| Markets segments | Market sectors | | | |
| A | Managed Living Resources | A.1 Agriculture <i>Agricultural commodities/Trading, agricultural production / Horticulture, Agricultural services, Agriculture machinery, Agriculture and Rural Development Policy, Agro chemicals / Plants & Fertilizers, Animal production / Livestock, Agriculture and rural Policy makers</i> | r4.1 | Soil moisture |
| | | | r4.2 | Crop Classification and Monitoring |
| | | | r4.3 | Agricultural Pollution Monitoring |
| | | | r4.4 | Water Scarcity |
| | | r3.2 | Rural planning and management | |
| | | A.2 Forestry <i>Forest management, Forest Services, Commodities, Logging industry, Wood, paper and pulp industry, Forest policy, Forest machinery, Forest Policy makers</i> | r2.2 | Forest and green areas |
| | | | r4.5 | Forest Monitoring |
| | | A.3 Fisheries <i>Fish stock management, Fishing fleets, Fishery distribution logistics, Aquaculture / fish farms, Coastal management agencies, Fisheries authorities / policy makers.</i> | r2.5 | Coastal Management |
| | | | r4.6 | Phytoplankton detection |
| B | Energy and Natural Resources | B.1 Oil and Gas <i>Offshore exploration and production, on-shore exploration and production, drilling and support services, oil and gas commodities trading, Energy planners.</i> | | |
| | | B.2 Alternative Energy <i>Solar energy providers, Wind energy providers, Tidal energy providers, Energy and Carbon traders, Local and regional planners, National policy makers.</i> | r2.1 | Renewable energies |
| | | B.3 Minerals and Mining <i>Mining and quarrying companies, Exploration and survey specialists, Commodities traders, Exploration and extraction equipment suppliers, Drilling, excavation and support services, Regional planners / policy makers.</i> | | |
| C | Industry | C.1 Utilities (water, electricity, waste) <i>Power station operators, Water plants operators, Survey companies, Hydroelectric suppliers, Regulatory Bodies, Distribution companies, Landfill and waste, Regional planners / policy makers.</i> | | |
| | | | C.2 Construction <i>Construction companies, Civil engineering consultancies, Architect and design companies, Planning authorities, National land agencies.</i> | |
| | | C.3 Transportation <i>Road transport operators, haulage, Road infrastructure operators, tolls Airport operators, Rail operators, Airlines and airline services, Transport engineers.</i> | | r7.1 |
| | | C.4 Maritime <i>Ports & harbors administration, bulk cargo carriers, Cruise liners operators, Ferry operators, Naval operations, Rescue and safety at sea</i> | r1.6 | Ports and Harbours management |
| | | C.5 Communications <i>Mobile telecommunications providers, Fixed Telecommunication Providers.</i> | | |

| | | | | |
|----------------------|---|--|------------------------------|---------------------------------------|
| Services | D.1 | Insurance & Finance <i>Primary insurance companies, Re-insurance sector, Insurance brokers, Insurance service suppliers, Commercial banks, major projects, International financial institution.</i> | | |
| | D.2 | Real-estate management <i>Primary insurance companies, Re-insurance sector, Insurance brokers, Insurance service suppliers, Commercial banks, major projects, International financial institution.</i> | | |
| | D.3 | Retail and Geo-marketing <i>Real-estate brokers, Estate agents, Estate management offices, Advertising and Marketing agencies, Shopping chains, logistics.</i> | | |
| | D.4 | News and Media <i>Television companies, Broadcasting providers, News and Information agencies, Web service providers, Entertainment software providers</i> | | |
| | D.5 | Travel, Tourism and Leisure <i>Tour operators, Leisure service providers, hotels, parks etc, Offices of tourism, Travel agencies, Ski and coastal resorts, Surfers & sailors.</i> | r8.6 | Weather forecasts |
| Public Authorities | E.1 | Local and regional planners <i>Town / city authorities, Regional governments, Architects and Planners</i> | r8.1/r5.1 | UV Exposure |
| | | | r8.2 | Air Quality |
| | | | r8.3 | Bathing Water Quality and Temperature |
| | | | r8.4 | Hazard Warnings |
| | | | r8.5 | Snow cover and quality |
| | | | r1.1/r3.1 | Urban planning and management |
| | | | r1.2 | Renewable energies |
| | | | r1.3/r2.4 | Urban Energy efficiency |
| | | | r1.5 | Water management |
| | | | r2.3 | Natural resources management |
| | | | r2.6 | Protected areas management |
| | | | r2.7 | Biodiversity and ecosystem wardship |
| | | | r3.2 | Rural planning and management |
| | | | r5.3 | Water quality |
| | r7.2 | Air quality (traffic management) | | |
| | r7.3 | Industrial Risk Management | | |
| | r7.1 | Transport Network Management | | |
| | E.2 | Emergency Services <i>Coast guards, Ambulance services, Fire services, Police services, Civil protection organisations, Rescue Services.</i> | r6.1 | Natural disaster management |
| | | | r6.2 | Early warning |
| | | | r6.3 | Industrial risk management |
| r6.4 | | | Search and Rescue Operations | |
| r6.5 | | | Maritime Surveillance | |
| E.3 | Education, training and research <i>Schools and Education Authorities, Universities, Research Organisations, Professional Training Organisations.</i> | | | |
| E.4 | Security, Defence and military <i>Border control organisations, Police and rescue forces, Military services, Intelligence Services.</i> | r7.4 | Maritime Surveillance | |
| International Bodies | F.1 | Environmental, Pollution & Climate <i>European Commission, United Nations, International meteorological bodies, European and International Agencies, National environment authorities, Environment consultants, NGO's.</i> | r2.7 | Biodiversity and ecosystem wardship |
| | F:2 | Humanitarian Operations and Health <i>Humanitarian aid organisations, Health organisations, Humanitarian support organisations</i> | | |

Annex 2 – Stakeholder inventory template

STAKEHOLDER INVENTORY – PART 3

| Data Usage Consent- please check appropriate boxes below | | |
|--|--|--|
| Herewith I agree that the Copernicus profile data filled out and attached can be stored and processed by | | |
| My local Copernicus Office/Copernicus Relay for its support activities | The six CoRdiNet contract partners for their European Copernicus Coordination and Support Action CoRdiNet related project work | The European Commission Services and their subcontractors like e.g. the Copernicus Support Office, to be published on the www.Copernicus.eu website or its subdomains in a password protected area |
| | | |

Annex 3 – Stakeholder list

**Tecnologie per le Osservazioni della Terra ed i Rischi Naturali (TeRN)
Copernicus Relay of Basilicata region
(page 1/2)**

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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|---|---|--|--|
| Basilicata Copernicus Relays | Basilicata Region | CNR-IMAA | www.ima.cnr.it |
| | | Consorzio INNOVA | www.consorzio-innova.com |
| | | DIAN srl | www.dianalysis.eu |
| | | DIGIMAT | www.digimat.it |
| | | GEOCART spa | www.geocartspa.it/ |
| | | CEDAT Europa | www.cedateuropa.eu |
| | | e-Geos | www.e-geos.it |
| | | ENEA | www.trisaia.enea.it |
| | | GEOSPazio ITALIA srl | www.geospazioitalia.it/index.php?lang=it |
| | | geoSDI | www.geosdi.org/index.php/it/ |
| | | UNIBAS-SI | http://ingegneria.unibas.it/site/home.html |
| | | TOMOGEA | http://www.tomogea.it/index.php/it/ |
| | | TERRALAB | http://www.terralab.eu/ |
| | | AIRDRONE srl | www.air-drone.it |
| | | Ufficio Protezione Civile - Dipartimento Infrastrutture e Mobilità - REGIONE BASILICATA | http://www.regione.basilicata.it |
| | | Ufficio Difesa del suolo - Dipartimento Infrastrutture e Mobilità - REGIONE BASILICATA | http://www.regione.basilicata.it |
| | | UFFICIO PARCHI, BIODIVERSITA' E TUTELA DELLA NATURA -Dipartimento Ambiente ed Energia - REGIONE BASILICATA | http://www.regione.basilicata.it |
| | | UFFICIO URBANISTICA E PIANIFICAZIONE TERRITORIALE Dipartimento Ambiente ed Energia REGIONE BASILICATA | http://www.regione.basilicata.it |
| | | Osservatorio Regionale del Paesaggio e del Territorio - Dipartimento Ambiente ed Energia | http://www.regione.basilicata.it |
| | | UFFICIO ENERGIA - Dipartimento Ambiente e Energia - REGIONE BASILICATA | http://www.regione.basilicata.it |
| UFFICIO POLITICHE DI SVILUPPO RURALE - Dipartimento Politiche agricole e Forestali - REGIONE BASILICATA | http://www.regione.basilicata.it | | |

**Tecnologie per le Osservazioni della Terra ed i Rischi Naturali (TeRN)
Copernicus Relay of Basilicata region
(page 2/2)**

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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|--|---|--|---|
| Basilicata Copernicus Relays | Basilicata Region Basilicata Region | UFFICIO PRODUZIONI VEGETALI E SILVICOLTURA PRODUTTIVA Dipartimento Politiche agricole e Forestali - REGIONE BASILICATA | http://www.regione.basilicata.it |
| | | FARBAS - Fondazione Ambiente Ricerca Basilicata | http://www.farbas.it |
| | | ARPA Basilicata | http://www.arpab.it |
| | | Autorità di bacino Basilicata | http://www.adb.basilicata.it/ |
| | | E.I.P.L.I. (Ente per lo sviluppo dell'Irrigazione e la trasformazione fondiaria in Puglia, Lucania e Irpinia) | http://eipli.it/ |
| | | ALSIA (Agenzia Lucana di Sviluppo e di Innovazione in Agricoltura) | http://www.alsia.it/opencms/opencms |
| | | Ente Parco Appennino Lucano Val d'Agri Lagonegrese | http://www.parcoappenninolucono.it/apl/portal |
| | | Ente Parco del Pollino | https://parcopollino.gov.it/it/ |
| | | Ufficio Pianificazione Territoriale e Ambiente - Provincia Potenza | www.provincia.potenza.it |
| | | CONSORZIO TRAIN - Consorzio per la ricerca e lo sviluppo di tecnologie per il TRASporto Innovativo | https://www.consorziotrain.org/ |
| | | CREA – Consiglio per la Ricerca in agricoltura e l'analisi dell'Economia Agraria - Centro Ricerca Agricoltura e Ambiente | https://www.crea.gov.it |
| | | Società Agricola Fuina e c. S.S. | |
| | | Dichio Agostino | |
| | | Azienda Agricola Zuccarella Rocco | |
| | | Lopinto Azienda Agro - Zootecnica | |
| | | Azienda Agricola Quinto Graziantonio | |
| | | Clemente Rocco Luigi | |
| Cantine di Venosa scarl | https://cantinadivenosa.it | | |
| ISTITUTO DI RICERCA INGENIA S.r.l. – Impresa Sociale | http://www.istitutodiricercaingenia.it | | |

bavAIRia e.V. - Bavarian Aerospace Cluster Management, Oberpfaffenhofen, D
Local Copernicus Directory of Bavarian Stakeholders
(page 1/3)

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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|--|--|--|--|
| Local Copernicus Directory of Bavarian Stakeholder | Bavaria Region | Advanced Navigation Solutions GmbH | www.anavs.de |
| | | AdviceGEO | www.advicegeo.com |
| | | AGRIFORTIS Beteiligungs GmbH | www.agrifortis.de |
| | | Airbus Defence and Space GmbH | www.airbus.com |
| | | Allianz Wolfram Blank e.K. | www.allianz.de |
| | | ATMOSPHERE GmbH | www.atmosphere.aero |
| | | BHO Rechtsanwälte Partnerschaftsgesellschaft | www.bho-legal.com |
| | | Cloudeo AG | www.cloudeo-ag.com |
| | | DigitalGlobe International, Inc. | www.digitalglobe.com |
| | | Dittler Industriebeteiligungen GmbH | www.tdibg.de |
| | | Eagle Ai GmbH | www.eagle-ai.de |
| | | EOMAP GmbH & Co. KG | www.eomap.de |
| | | ESG Elektroniksystem- und Logistik-GmbH | www.esg.de |
| | | Esri Deutschland GmbH | www.esri.de |
| | | European Space Imaging GmbH | www.euspaceimaging.com |
| | | Fraunhofer Institut für Materialfluss und Logistik (IML) | www.prien.iml.fraunhofer.de |
| | | GAF AG | www.gaf.de |
| | | Geocledian GmbH | www.geocledian.com |
| | | GEOSYSTEMS GmbH | www.geosystems.de |
| | | GI Geoinformatik GmbH | www.gi-geoinformatik.de |
| | | GMV Insyen AG | www.gmv-insyen.com |
| | | green spin GmbH | www.greenspin.de |
| | | Harris Geospatial Solutions GmbH | www.harris.com |
| | | IABG Industrieanlagen-Betriebsgesellschaft mbH | www.iabg.de |
| | | Ingenieurbüro für Umweltmanagement und Wasserwesen - UWM | www.ingbuero-uwm.de |
| Ingenieurbüro Wolf | www.ibwolf.net | | |
| ITK Engineering GmbH | www.itk-engineering.de | | |
| Münchener Rückversicherungs-Gesellschaft | www.munichre.com | | |

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|--|--------------------------------|--|-----------------------------|
| Local Copernicus Directory of Bavarian Stakeholders | Bavaria Region | navama GmbH | www.navama.com |
| | | OHB System AG | www.ohb.de |
| | | Outdooractive GmbH & Co. KG | www.outdooractive.com |
| | | FarmFacts GmbH | https://www.nextfarming.de/ |
| | | proTime Gesellschaft für Informationslogistik mbH | www.protime.de |
| | | Remote Sensing Solutions GmbH | www.rssgmbh.de |
| | | Secure Dimensions GmbH | www.secure-dimensions.de |
| | | SpaceTec Partners GmbH | www.spacetecpartners.eu |
| | | Tama Group GmbH | www.2d-ventures.com |
| | | Telespazio VEGA Deutschland GmbH | www.telespazio-vega.de |
| | | Terranea UG | www.terranea.de |
| | | TFE Consulting | www.tfeconsulting.com |
| | | Thales Alenia Space Deutschland | www.thalesgroup.com |
| | | Torsion Analytics GmbH & Co. KG | www.torsionanalytics.com |
| | | TriaGnoSys GmbH | www.triagnosys.com |
| | | T-Systems International GmbH | www.t-systems.com |
| | | Vista Geowissenschaftliche Fernerkundung GmbH | www.vista-geo.de |
| | | ZEBRIS, Geoinformationssysteme und Consulting | www.zebris.com |
| | | Amt für Digitalisierung, Breitband und Vermessung, Weilheim i.OB | www.adbv-weilheim.de |
| | | Anwendungszentrum GmbH Oberpfaffenhofen | www.azo-space.com |
| | | bavAIRia e.V. - Bavarian Aerospace Cluster Management | www.bavAIRia.net |
| Bundesanstalt Technisches Hilfswerk | www.thw-muenchen.de | | |
| Bayerische Landesanstalt für Landwirtschaft | www.lfl.bayern.de | | |
| Bayerische Landesanstalt für Wald und Forstwirtschaft | www.lwf.bayern.de | | |
| Bayerisches Staatsministerium für Wissenschaft und Kunst | www.stmwk.bayern.de | | |

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|---|--|---|--|
| Local Copernicus Directory of Bavarian Stakeholders | Bavaria Region | Bayerisches Staatsministerium der Finanzen und für Heimat | www.stmfh.bayern.de |
| | | Bayerisches Staatsministerium für Ernährung, Landwirtschaft und Forsten | www.stmelf.bayern.de |
| | | Bayerisches Staatsministerium für Umwelt und Verbraucherschutz | www.stmuv.bayern.de |
| | | Bayerisches Staatsministerium für Wirtschaft, Landesentwicklung und Energie | www.stmwi.bayern.de |
| | | Betriebsgesellschaft Umweltforschungsstation Schneefernerhaus GmbH | www.schneefernerhaus.de |
| | | Invest in Bavaria | www.invest-in-bavaria.de |
| | | Landesamt für Digitalisierung, Breitband und Vermessung | www.ldbv.bayern.de |
| | | Runder Tisch GIS e.V. | www.bgu.tum.de |
| | | Zentrum Digitalisierung Bayern | www.zd-b.de |
| | | Department of Geoinformatics, University of Applied Sciences, Munich | www.geo.hm.edu/die_fakultaet/uebersicht_3/index.de.html |
| | | EarthObservationCenter, German Aerospace Center (DLR) | www.dlr.de/eoc |
| | | Department of Aerospace and Geodesy - TU Munich | www.tum.de/forschung/fakultaeten/luftfahrt-raumfahrt-und-geodaesie |
| | | Chair of Geoinformatics - TU Munich | www.gis.bgu.tum.de |
| | | Department of Geography - LMU | www.geographie.uni-muenchen.de/department/fiona/department/index.html |
| | | Institute of Space Technology and Space Applications - UniBW | www.unibw.de/lrt9 |
| German Research Center for Environmental Health | www.helmholtz-muenchen.de | | |

University of Leicester (ULEIC)
East Midlands UK Copernicus Relay
(page 1/1)

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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|-----------------------------------|--|--|---|
| East Midlands UK Copernicus Relay | East Midlands Region | Warwickshire HBA | |
| | | Norfolk biodiversity information service | http://www.nbis.org.uk/ |
| | | Association of Local Environmental Records Centres (ALERC) | http://www.alerc.org.uk/ |
| | | Norfolk County Council | |
| | | National Parks Authority | |
| | | Environment Agency East Anglian Region | |
| | | Milton Keynes LRA | |
| | | Leicestershire & Rutland Wildlife Trust | |
| | | Natural England | |
| | | Historic England | |
| | | University of Leicester, Department of Geography | |
| | | University of Leicester, Department of Physics and Astronomy | |
| | | Environment Agency, UK | |
| | | Cherwell District Council | |
| | | Sedgemoor District Council | |
| | | Network Rail | |
| | | EarthSense | |
| | | Greater London Authority | |
| | | Leicester City Council | |
| | | Leicestershire and Rutland Environmental Records Centre | |
| | | UK Hydrographic Office | |
| Bournemouth Borough Council | | | |
| National Trust | | | |
| Forestry Commission | www.forestry.gov.uk | | |

**Havforskningsinstituttet (IMR)
Copernicus Relay, national (Norway)
(page 1/1)**

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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|---|--|--|--|
| Norway Copernicus Relays | Norway | Equinor | www.equinor.com |
| | | StormGeo AS | www.stormgeo.com |
| | | NavTor | www.navtor.com |
| | | Norwegian Meteorological Institute | www.met.no |
| | | Norwegian Environmental Directorate | www.miljodirektoratet.no |
| | | International Council for the Exploration of the Seas (ICES) | www.ices.dk |
| | | DNV-GL | www.dnvgl.com |
| | | Marine Harvest | www.marineharvest.com |
| | | SalMar | www.salmar.no |
| | | Sjømatbedriftene | www.sjomatbedriftene.no |
| | | Forsvarets forskningsinstitutt | www.ffi.no |
| | | Kystverket | www.kystverket.no |
| | | Shipping Offshore Network | www.shippingoffshorenetwork.no |
| | | Innovation Norway | www.innovasjon norge.no |
| | | GC Rieber | www.gcrieber.no |
| | | Fiskarlaget | www.fiskarlaget.no |
| | | Fiskebåt | www.fiskebat.no |
| | | Rolls Royce (Marine) | www.rolls-royce.com |
| | | RPS Group | www.rpsgroup.com |
| | | Institute of Marine Research | www.hi.no |
| Nansen Environmental and Remote Sensing Center | www.nersc.no | | |
| The Norwegian Fishing boat owner's Association (Fiskebåt) | www.fiskebat.no | | |

**GMV Aerospace and Defence (GMV)
Copernicus Relay, national (Spain)
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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|--|---|--|---|
| Spanish Copernicus Relays | Spain | Ministry of Agriculture, Fisheries and Food (Ministerio de Agricultura, Pesca y Alimentación) | https://www.mapa.gob.es/es/ |
| | | Ministry of Ecological Transition (Ministerio para la Transición Ecológica) | https://www.miteco.gob.es/es/ |
| | | Ministry of Interior (Ministerio del Interior) | http://www.interior.gob.es/ |
| | | Ministry of Defence (Ministerio de Defensa) | http://www.defensa.gob.es/ |
| | | Ministry of Public Works (Ministerio de Fomento) | https://www.fomento.gob.es/ |
| | | Ministry of Industry, Trade and Tourism (Ministerio de Industria, Comercio y Turismo) | https://www.mincotur.gob.es |
| | | Ministry of Science, Innovation and Universities (Ministerio de Ciencia, Innovación y Universidades) | http://www.ciencia.gob.es/ |
| | | National Geographic Institute (IGN) | http://www.ign.es/ |
| | | Spanish State Meteorological Agency (AEMET) | http://www.aemet.es |
| | | National Civil Protection General Directorate | http://www.proteccioncivil.es/ |
| | | Public Organization Ports of the State (OPPE) | http://www.puertos.es |
| | | National Institute for Aerospace Technology (INTA) | http://www.inta.es |
| | | Centro para el Desarrollo Tecnológico Industrial (CDTI) | https://www.cdti.es/ |
| | | Spanish Association of Telecommunication Engineers (AEIT) | https://www.aeit.es/ |
| | | Cluster Aeroespacial de Madrid | https://www.madrídaerospace.es/ |
| | | Spanish Remote Sensing Association (AET) | http://www.aet.org.es/ |
| | | Ayuda en Acción | http://www.ayudaenaccion.org |
| Spanish Association of Defence, Aeronautics, Security and Space Technology Companies (TEDAE) | https://www.tedae.org | | |

**GMV Aerospace and Defence (GMV)
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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|---------------------------|--------------------------------|---|---|
| Spanish Copernicus Relays | Spain | Agri-food Cooperatives Spain (Cooperativas Agroalimentarias España) | www.agro-alimentarias.coop |
| | | National Company of Agricultural Experts (CONAPA) | www.conapa.es |
| | | ESA BIC Madrid | http://www.esa.int/Our_Activities/Space_Engineering_Technology/Business_Incubation/ESA_Business_Incubation_Centres14 |
| | | Department of Environment and Territory Planning of Andalusia (Consejería de Medio Ambiente y Ordenación del Territorio de la Junta de Andalucía) | http://www.juntadeandalucia.es/medioambiente/site/portalweb |
| | | Advanced Centre for Aerospace Technologies (CATEC) | http://www.catec.aero/ |
| | | Institute for Research and Training in Agriculture and Fisheries (IFAPA) | https://www.juntadeandalucia.es/agriculturyapesca/ifapa |
| | | Agency for Agrarian and Fisheries Management of Andalusia (AGAPA) | http://www.juntadeandalucia.es/agenciaagrariaypesquera/agenciaagrariaypesquera/portal/web/principal |
| | | European Topic Centre of University of Malaga | http://www.etc.uma.es |
| | | Andalusian Center for Innovation and Information and Communication Technologies (CITIC) | www.citic.es |
| | | ec2ce | www.ec2ce.com |
| | | DCOOP | www.dcoop.es |
| | | Fruit and Vegetable Producers' Organizations Association of Almería (Coexphal) | www.coexphal.es |
| | | Department of Graphic Engineering and Geomatics. School of Agricultural and Forestry Engineering. University of Córdoba | www.uco.es/etsiam |
| | | Photogrammetric and Topometric Systems Research Group of University of Jaen | http://coello.ujaen.es/investigacion/websft/index_en.html |
| | | ESA BIC Barcelona | http://www.esa.int/Our_Activities/Space_Engineering_Technology/Business_Incubation/ESA_Business_Incubation_Centres10 |

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| CR of Reference | Geographical area of Reference | Stakeholder Name | Website |
|---------------------------|--------------------------------|---|---|
| Spanish Copernicus Relays | Spain | SUEZ Agriculture (SUEZ Group) | www.suez.com |
| | | Barcelona Supercomputing Center (BSC) | https://www.bsc.es/ |
| | | Cartographic and Geological Institute of Catalonia (ICGC) | www.icgc.cat |
| | | VisualNACert | www.visualnacert.com |
| | | Locatec.es | www.locatec.es |
| | | Laboratory of Earth Observation (LEO) of University of Valencia (UVEG) | http://ipl.uv.es/leo/ |
| | | Fundación Empresa-Universidad Gallega (FEUGA) | http://www.feuga.es |
| | | Madera Plus Calidad Forestal (MADERA+) | http://www.maderaplus.es/index.php/es/ |
| | | Madera Plus Calidad Forestal (MADERA+) | http://www.maderaplus.es/index.php/es/ |
| | | Agrotechnical Services S.L (Vivencia Dehesa) | https://www.vivenciadehesa.es/ |
| | | Agrotechnological Institute of Government of Castille and Leon (ITACyL) | http://www.itacyl.es |
| | | Forest Owners Association of Navarra (FORESNA-ZURGAIA) | http://www.foresna.org/ |