



EuroGEOSS Showcases: Applications Powered by Europe

D4.16 User uptake workshops (b)



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ABSTRACT

The objective of this document is to provide the last and final overview of the second half of the workshops (26 in total) conducted by EARSC and WP4 partner Eurisy. It provides (i) An analysis of the e-shape user uptake workshops organisation and achievements: (ii) Showcase the level of interaction of the e-shape pilots with potential new users through the workshops and (iii) Recommendations for how to maintain and develop the user uptake workshop methodology and strategy for the future.

This final report explores to what extent the user uptake strategy and the workshops activities have supported the awareness of European EO capabilities and the connection of the e-shape pilots with the communities of direct relevance for them, supporting them in their market and thematic expansion providing user needs inputs, access to local data for testing and development of the pilots.

From deliverable D4.8 User uptake, the user uptake workshops in M24-48 reached secondary user communities (Water Europe, Committee of the Regions, country workshops mainly in M24-M48), expanding the pilots out of their “comfort zone”; also, during this period, the in-person events were resumed, transitioning from a larger (online) audience to a reduced number of stakeholders to ensure higher interactions.

EARSC and EURISY have organised 26 workshops in total, supporting the pilots to reach three different level of uptake overcoming the initial number set in the e-shape grant agreement: 37 pilots’ level L1 interactions, 8 pilots’ level L2 tester of the platform; 5 pilots’ level L3 recurrent user. For more details, see deliverable D4.8 User uptake. To ensure a diversity of communities would be reached, EARSC made use of its thematic taxonomy, expanding in total to 5 thematic communities: Land, Marine & Maritime, Disasters, Climate & Atmosphere, Energy. and reaching in total 800 people. The most successful workshop in number of attendees has been the country workshop in Poland with 100 attendees and those with most interactions have been Germany, Turkey and Ireland. 10 countries hosted the e-shape country workshops opening their cultural, political and technological needs and challenges to the pilots.

From the COVID-19 pandemic in 2020 to the conclusion of the project, the user uptake workshop activity has not been linear in number of interactions and responses. With the COVID-19 pandemic, the user uptake was performed through online events with limited interactions. In 2022, it resumed in-person events, engaging a smaller, more targeted, number of attendees.

This activity has opened the door to the inclusion of 21 important communities in the EuroGEO ecosystem, supporting the EuroGEO vision through the establishment of the EuroGEO Secretariat. For more details, see deliverable D.15 Final report on User uptake.

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1. INTRODUCTION

1.1 Background

The user uptake strategy includes the engagement of the e-shape Pilots with different user communities and the actions to support it.

Based on this rationale, the partners' work has been focused on increasing the pool of potential users through a three-step approach:

- 1) Develop a strategic plan to increase the user uptake based on the needs of the pilots
- 2) Expand networks of the pilots both in Europe and internationally using multipliers such as Copernicus relays, Copernicus Academy and GEO
- 3) Organize User uptake workshops focused on groups of target users for pilots (sector, geographic and institutional)

This report focuses and expands the 3rd point, i.e., showing the level of interactions of the pilots to expand their networks into new communities and nearby geographies, through 3 levels of uptake:

1. Level 1: Collecting user's feedback to finetune the service
2. Level 2: Mobilising a user of the service, meaning the integration/transfer of data from/to the potential user (beta testing-evaluation)
3. Level 3: Mobilising a recurrent user, i.e. building a long-term relationship featuring as ultimate goal the adoption of the service from the user, potentially supporting the Pilot's sustainability

In the following report, EARSC defines:

- Primary users' communities, the existing users and communities that represent the existing customers of the e-shape Pilots and who can be addressed at relevant EO events. This community is necessary as it acts as an entry point to the secondary community of users, providing a network of users, events identification and requirements with local, regional and national perspectives for the uptake of the e-shape Pilots. This community can be addressed as well for co-design actions (i.e to gather data requirements and current gaps for the pilot services).
- Secondary user communities, other players in the same sector, and neighbouring sectors that share some of the needs that could be solved by the e-shape Pilots. These secondary communities are further divided into market expansion vs market diversification. These communities are non EO communities mainly and are targeted for co-design activities and are interested in the evolution of the e-shape Pilots' services for future implementation. These are other players with the same area of interest (incl. business sectors, private sector networks, public sector) that share some of the needs that could be solved by the e-shape Pilots. These user could have the same profile of the primary users.

1.2 Scope of this report

EARSC with EURISY, which is experienced in the engagement with community of users through its members, have developed 26 workshops during the 4 years project (2 more with respect to the KPI of 24). Deliverable D4.8 describes the first 14 workshops delivered in the first 2,5 years of the project. This report will be focused on the rest 12 workshops. This report provides:

- An overview of the project's achievements
- The level of interaction of the e-shape pilots with potential new users during the project's workshops and

- Recommendations for the sustainability of the user uptake workshop strategy and of the community of users connected and integrated.

2. METHODOLOGY

This chapter summarises the user uptake methodology and the workshops' structure to implement it, starting from the assumptions – length, thematic/country, pilots' challenges as defined in the e-shape sprint's activities –, general considerations, key objectives and finally the actual workshop's outline. For an in-depth methodology the reader can refer to deliverable D4.8.

The user uptake strategy builds on two concepts:

- the active interaction between the e-shape pilots and the potential community of users during the workshops and the follow-up meetings.
- the uptake, meaning reaching new communities of users that can integrate the e-shape pilots into their operational workflows. The uptake is divided into 3 sub-categories:
 1. User's feedback, to finetune the service
 2. User of the service, meaning the integration of data from the potential user (beta testing-evaluation)
 3. Recurrent user, meaning as ultimate goal the adoption of the service from the user (sustainability)

2.1 Transitioning to D4.16: some general considerations

During the first half of the workshops, EARSC identified some assumptions (deliverable D4.8) regarding the development of the workshops and the target audience. From the start of the user uptake activity, the workshops correspond to different typology and outside "threats" and have evolved - also based on the feedback received by the EC on deliverable D4.8.

When Covid-19 pandemic started, to ensure the continuation of the e-shape workshops, EARSC and EURISY decided to embed e-shape sessions within online events; when the in-person events resumed after the COVID-19 pandemic, EARSC and EURISY went back to the original format, creating country ad-hoc events (D4.8 Section 2.2 Workshop outline and 2.3 Workshop topics and country). While the online workshops registered a low span of attention and less interactions with potential users and stakeholders, the switch to in-presence events and 2-day's events have been welcomed both by the pilots and the attendees. The post-workshop engagement has been smoother, by sharing the list of registrant to the pilots prior to the workshop as to improve the engagement with target potential users.

EARSC and EURISY made use of the EO taxonomy to maintain the coherence regarding the user communities of interest to the pilots (see D4.8) with a focus on geographic expansion. The in-country workshops included Ireland (Agriculture), Germany, Austria and Switzerland (Energy), Croatia, Bulgaria (Disasters), Spain (Water & Marine), etc.

During the 4 years project, the following workshops have been organised:

Table 1 e-shape workshops

Title	Location	Date	Community	e-shape Pilots	Stakeholders	Attendees
United Nations/Austria Symposium	Virtual	1-3/09/2020	Security & safe, Built environment, Atmosphere & Climate, Disasters & Geohazards	S6P3	diplomatic community, statisticians, the private sector and academia, as well as UN entities, Public International/local sector, R&D	60
Smart Farming 2020	Virtual	9/10/ 2020	Land, Built Environment	S1P2, S6P4	Farmers Growers Agricultural industry Technology suppliers	30
EARSC- SCO	Virtual	13/10/2020	Disasters & Geohazards, Atmosphere & Climate, Maritime & Marine	S5P2, S6P3, S7P5	e-shape pilots and SCO community, GEO	30
Spaceforcities	Virtual	27/10/2020	Security & safe, Built environment, Atmosphere & Climate, Disasters & Geohazards, Land, Maritime & Marine	S2P3, S3P1, S3P2, S6P3	Local administrations, NGOs, private, decision-makers	83
Wind Energy Conference	Virtual	3/12/ 2020	Energy & mineral resources	S3P3	Scientists, corporations	N/A
The Challenges of the blue World	Virtual	February 2021 – 5/05 2021	Maritime & Marine	S5P3	Space stakeholders, Maritime industry, Technology suppliers	25
Space Opportunity for climate challenges	Virtual	3/03/ 2021	Land, Built Environment, Atmosphere & Climate	S1, S4, S5	Space and non-space sector. Forestry industry, Technology suppliers	50
Water Europe	Virtual	24/03/2021	Maritime & Marine	S5P1	Private-Public sector Water industry	70
EARSeL	Virtual	30/03/2021	Atmosphere & Climate Built environment	S3P1	EO Scientific and research communities	20
EGU21	Virtual	26/04/ 2021	Land, Maritime & Marine, Disasters & Geohazards, Atmosphere &	S5P1, S6P1	EO research and scientist	15

			Climate, Built environment, Energy & mineral resources			
European Maritime Days	Virtual	21/05/2021	Maritime & Marine	S5P4, S5P5	Relations with EMODnet Secretariat	50
ExpandEO21	Virtual	17/05/2021	Land, Built environment, Maritime & Marine	S1, S4, S5	EO community Research, end users and civil society	35
IRLOGI	Virtual	23/06/2021	Land	S1P2, S1P4, S1P6	National farmers associations, national government agricultural departments, environment protection agency, research	30
Smart Farming 2021	Virtual	1/10/2021	Land, Built Environment	S1P4, S1P5	EO agricultural companies, researchers, universities, governmental agencies, space agencies.	29
GEOGRAMA	Virtual	4/11/2021	Maritime & Marine, Disasters & Geohazards, Atmosphere & Climate	S5P3, S5P6, S5P7, S7P5	Tourism management, coastal territory management	10
European Week of the Regions and Cities	Virtual	10/11/ 2021	Land Maritime & Marine Disasters & Geohazards Atmosphere & Climate	S2P2, S5P5	regional/local administrations, SMEs and research centres, Local and regional authorities, EU institutions, policy makers	30
Expandeo 22	Hybrid	14/06/2022	Maritime & marine, Energy & mineral resources	S3P1, S3P3, S5P3	EO, private, public, industry and research stakeholders	70
European Maritime Day 22 (Ravenna)	Hybrid	9/05/2022	Maritime & marine	S5P7, S6P5	Institutional, public sector	15
EGU22	In person	28/05/2022	Maritime & marine, Atmosphere & climate	S5P1, S6P4, S7P3	Research stakeholders	10
Earth Observation solutions for sustainable development: Hands-	Hybrid	11/05/2022	Atmosphere & climate, Disasters & Geohazards	S2P4, S6P2, S7P7	EO, research & university	40

on e-shape services (Turkey)						
EO-based products to improve renewable energy forecasts (SOGI-52N)	Online	27/09/2022	Energy & mineral resources	S3P1, S5P3, S7P4,	Private and research community	10
Earth Observation solutions for energy, climate change and environmental management (Poland)	Hybrid	9-10/11/2022	Energy & mineral resources, Atmosphere & climate	S3P1, S3P3, S7P2	Private, public, research community	100
Satellite remote sensing for disaster management: New technologies for risk assessment, analysis and response (GIS)	Hybrid	11/11/ 2022	Disasters & Geohazards	S6P2, S6P4, S6P5	Private, GI, LRA	36
EO for management of natural disasters and accidents and environmental monitoring (Bulgaria)	Online	1 st /02/ 2023	Disasters & Geohazards	S6P2, S6P3, S6P4	Research, public administrations, governmental bodies	70
e-shape solutions: Earth Observation for biodiversity and water management (NSO)	In person	14-15/02/2023	Built environment & maritime & marine	S4P1, S4P2, S4P3, S5P1, S5P4, S5P6	Research, private and institutional	40
e-shape solutions: Unlocking the potential of Earth Observation data for climate change and urban areas (Malta)	In person	24/02/2023	maritime & marine, Disasters & Geohazards, Energy & mineral resources, Atmosphere & climate	S5P3, S5P5, S7P2	Research, institutional	70

3. OVERVIEW OF THE WORKSHOPS (M24-M48)

EARSC and EURISY experimented different modalities (events embedded in bigger events, interventions, plenary sessions presence) and typology of workshops (institutional, private, public sector oriented) to ensure a good representation of the e-shape pilots with the right community. The organisation, content and result of each workshop are described in detail in the individual workshops report (Annex 1). This chapter provides an overview of the workshop typology and their effectiveness through the:

- Typology of the workshops
- Participation in the workshops
- Composition of the workshops

3.1 Typology

EARSC and EURISY have coordinated 26 workshops that can be grouped under 4 typologies, each with its characteristics and uniqueness to attract audience:

1. *Workshops embedded in bigger events* (supporting the primary community): a non-EO audience was privileged, showing the interest of SMEs, regional offices, and infrastructures towards the EO technology. The Water Europe workshop raised awareness of EO and its application potential in the water sector to cover aspects like runoff forecasting, spillway design, flood risk, hydrochemical modelling. Especially during COVID-19, the involvement of the e-shape workshops within established stakeholder's events has proven key to reach the primary community of users such as institutions and EO users. The Committee of the Regions workshop supported the political recognition of EO solutions in innovation policies related to regions and communities.
2. *By-invitation/country workshops* (supporting the secondary community): organised in hybrid format (both online and in-person), these workshops provided a small and intimate place to listen, interact and exchange closer insights on the e-shape pilots solutions animated by very knowledgeable thematic moderators with experience about the e-shape pilots. Introduced during the first project period (M1-M24), such workshops have proven very effective to support the e-shape pilots' service development, specifically user uptake level L2 and L3. IRLOGI, 52N, SOGI and GEOGRAMA, for example, supported the outreach to through their network of private companies as well as their strong connection with their country stakeholders in their respective field.
3. *Space Agencies workshops* (supporting the primary and secondary community): EURISY currently represents 22 national space agencies, governmental offices as well as international organisations dealing with space affairs. Space agencies often acted as liaison with the relevant institutional representatives in their own country. EURISY involved the space agencies through an internal open call to support the e-shape thematic and geographic expansion. The response has been unequivocal, showing interest to reduce the gap between EO technology and its potential users. TUA, NSO, POLSA and Malta Council for Science and Technology MCST, are among those entities who supported the uptake of the e-shape pilots within their local communities of relevance, bringing a network of national, research and private representatives over a 2-day events.
4. *Institutional workshops*: (COR, Turkey) have proven to be very good for raising awareness but took longer time to gather meaningful interactions. For future references, in this type of events, it is suggested to always bring onboard a user of the EO service in question and the political representative of the thematic together. During the country workshop in Poland, the presence of the Minister of the Environment was a strong signal for the audience.

5. *Research workshops*: EARSeL hosted an e-shape online session. The audience and the technical topics it addressed created partnership within the research community, more than expanding towards end-users. Researchers' main interest was mostly towards funding opportunities. Main take-aways indicate as crucial to incorporate policymakers' view to research priorities; sharing the co-design methodology to support the researcher's support (most don't wish to expand outside the research ecosystem). In the case of EARSeL, further discussions focused on the e-shape onboarding process and how some research services could join e-shape.

3.2 Workshops participation

From the initial user uptake strategy (deliverable D4.1 User uptake strategy and action plan), the workshops were foreseen as side events embedded into recurring stakeholders' events matching the needs of the e-shape pilots, thus enabling to capture a broader audience.

Due to COVID-19, and the consecutive transfer from physical to online events, EARSeL and EURISY, moved to online events embedded into larger online events. This strategy was carried until May 2022. The level of attendance lacked predictability, the attention span was reduced, and interactions were lacking depth and intensity (Water Europe, EGU, EARSeL, European Maritime Day, Smart Farming 2020, Wind Energy Conference (see deliverable D4.8 User uptake workshop reports (a)).

During the second round of workshops M23-M48, EARSeL and EURISY implemented comments from the Second Review Meeting, by monitoring the number of attendees to the workshops and specifying which typology of workshops were the most successful in uptake. In total all 37 pilots participated in at least one of the e-shape workshops (1 pilot took part in more than 1 workshop). The most attended workshop was co-organised with the Netherlands Space Office. The workshops were diversely attended, ranging from up to 100 participants in Poland, down to a 10-person "by invitation" event in GEOGRAMA21 (Germany). The "by invitation only" events and the space agency events, respectively with a lower and higher number of attendees, proved to offer a direct exchange between the audience and the pilots, initially through online breakout rooms, and follow-up in-person networking.

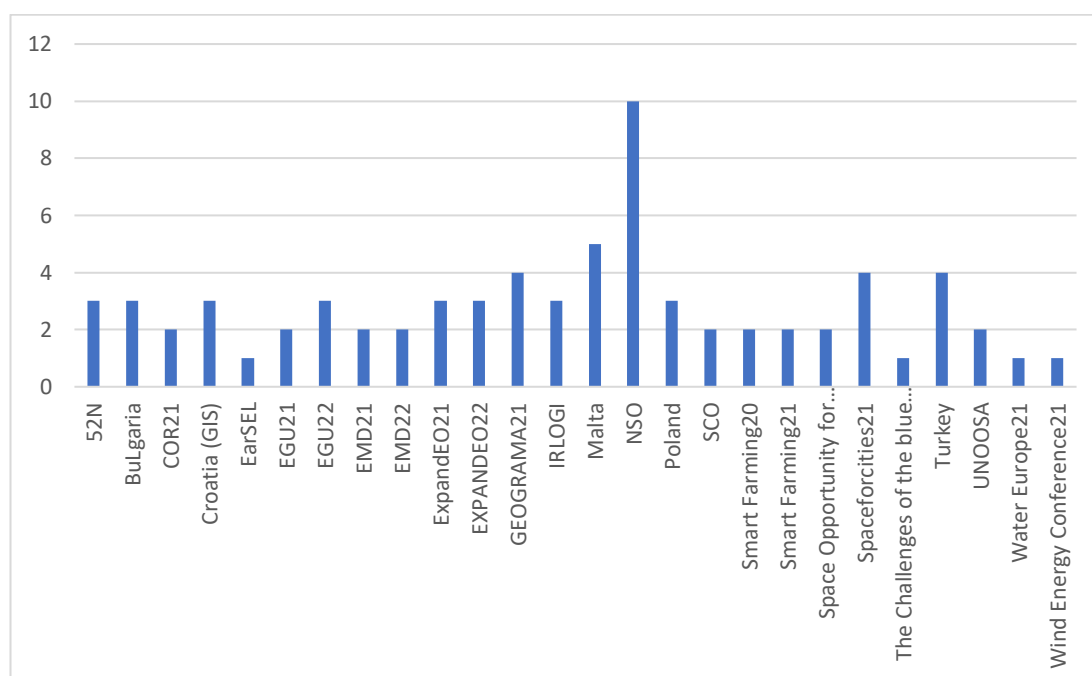


Figure 1 Total of pilots involved across the 26 workshops (listed Table 1)

3.3 Composition

The main topic of the events was classified according to EARSC's taxonomy (Figure 2 and 3). Each workshop attracted a diverse audience, and the user communities were represented in a balanced manner, with a slight over representation of the marine & maritime community, followed by disasters & geohazards and atmosphere & climate.

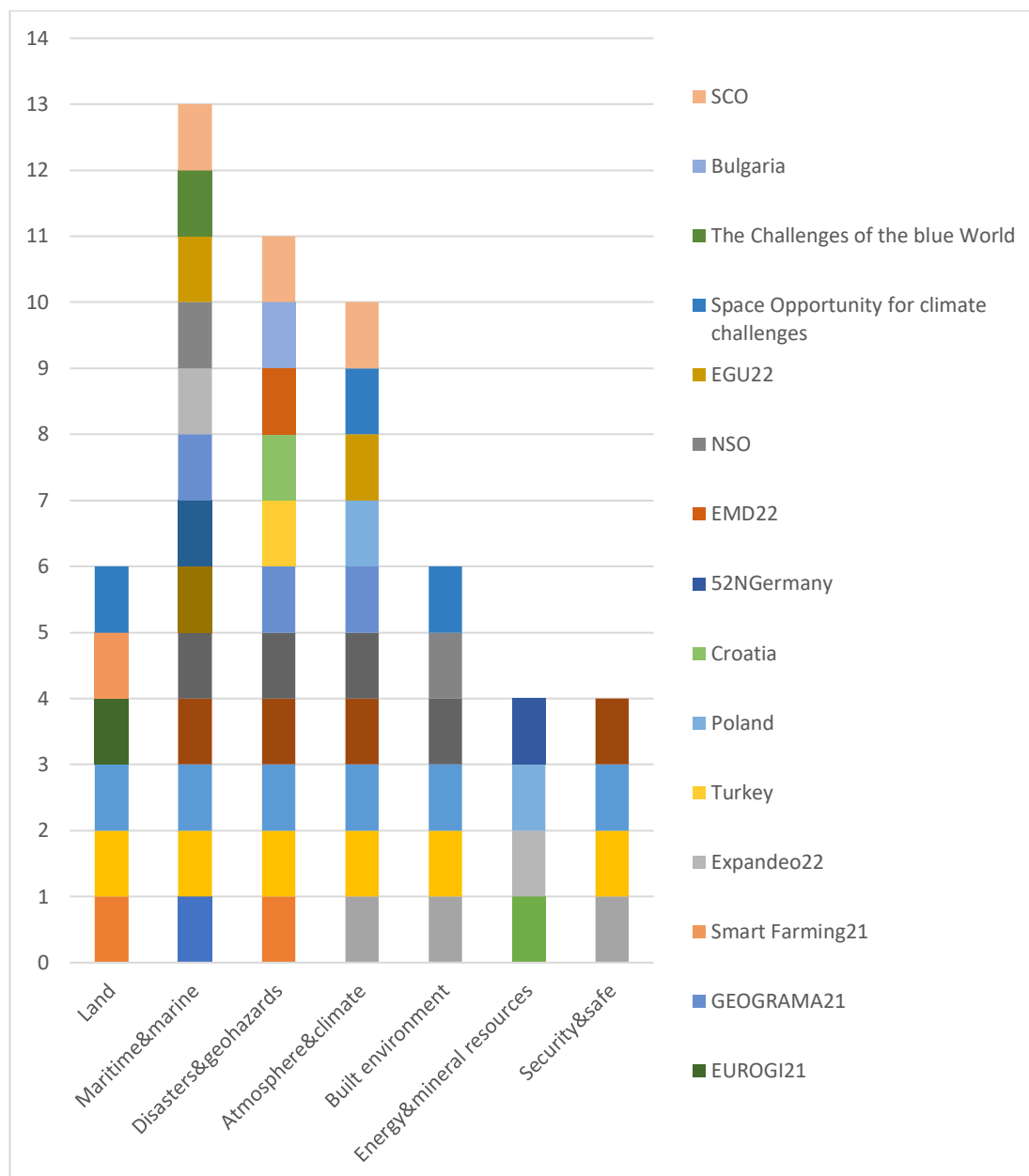


Figure 2 Overall composition of the audience

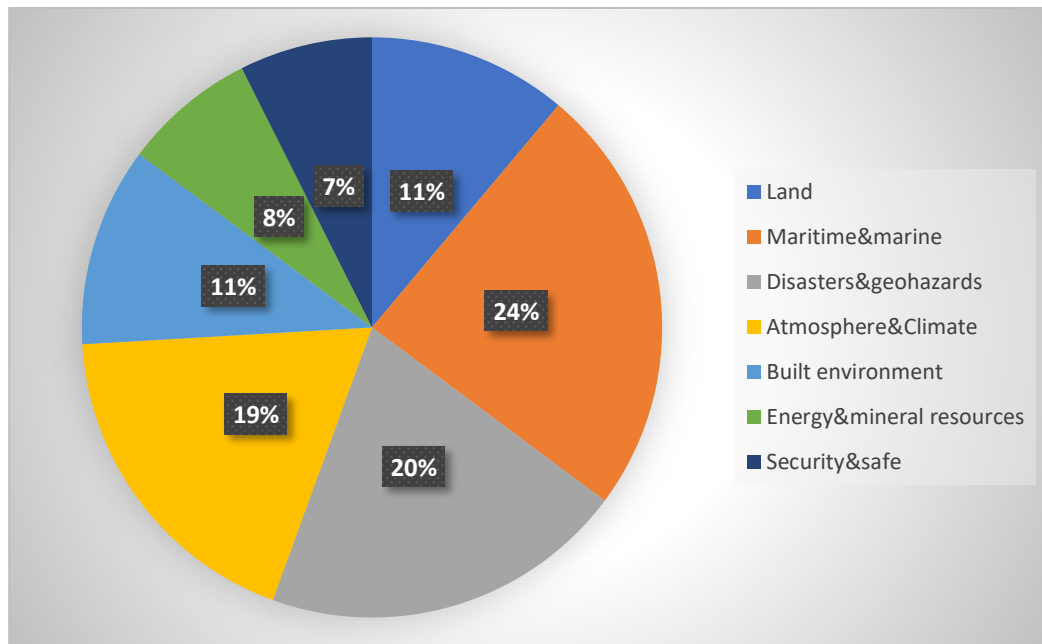


Figure 3 Overall thematic areas engaged through the 26 workshops

If analyzed by occupational sector (Figure 4 and Figure 5) the private sector (13%) was the most represented followed by Institutions and Research (11%), Civil society (9 %), Government (7%), National Associations and space agencies (6%). Overall, the events addressed a large diversity of potential contacts.

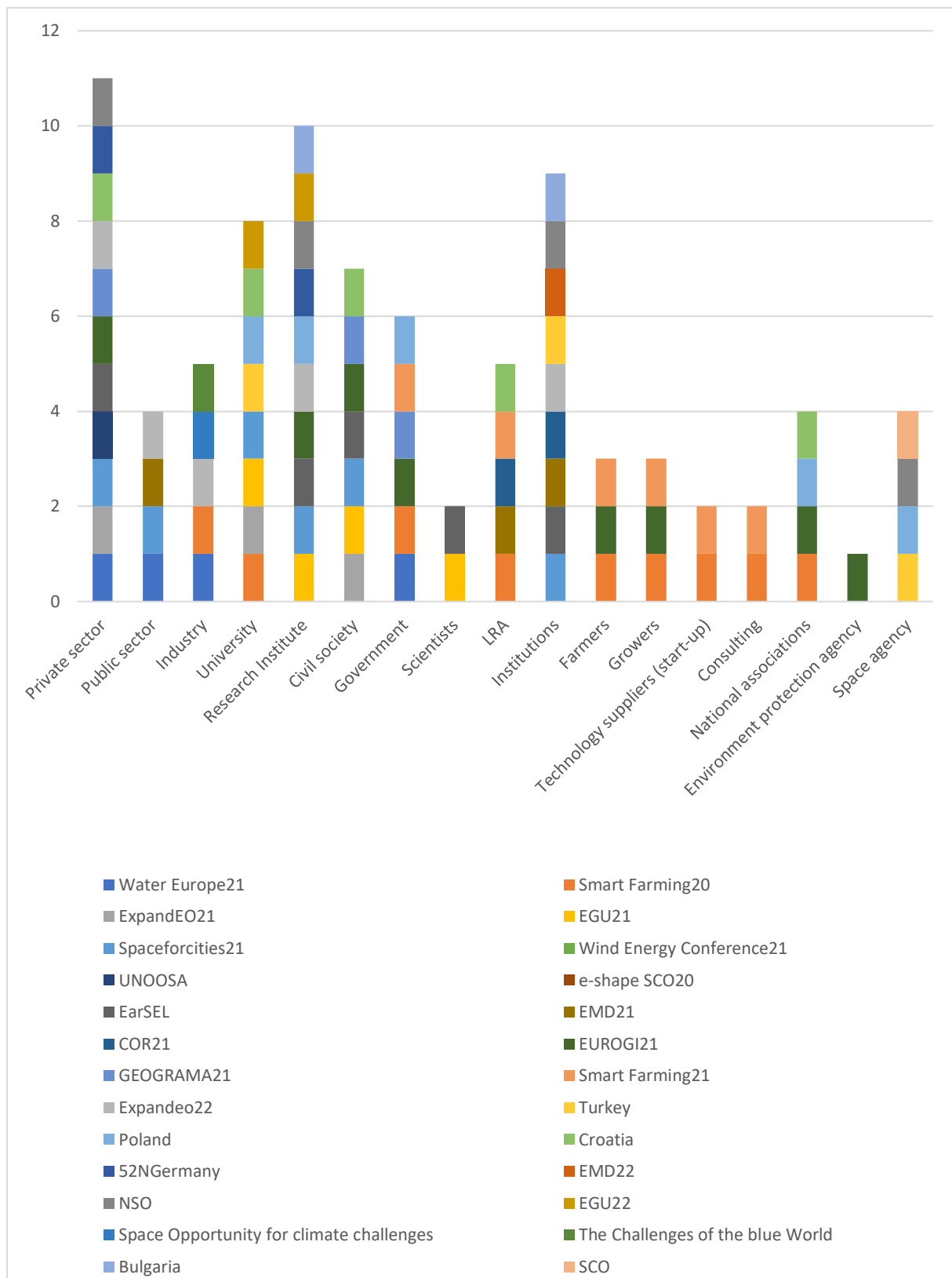


Figure 4 Number of representatives interaction in the professional category across all workshops

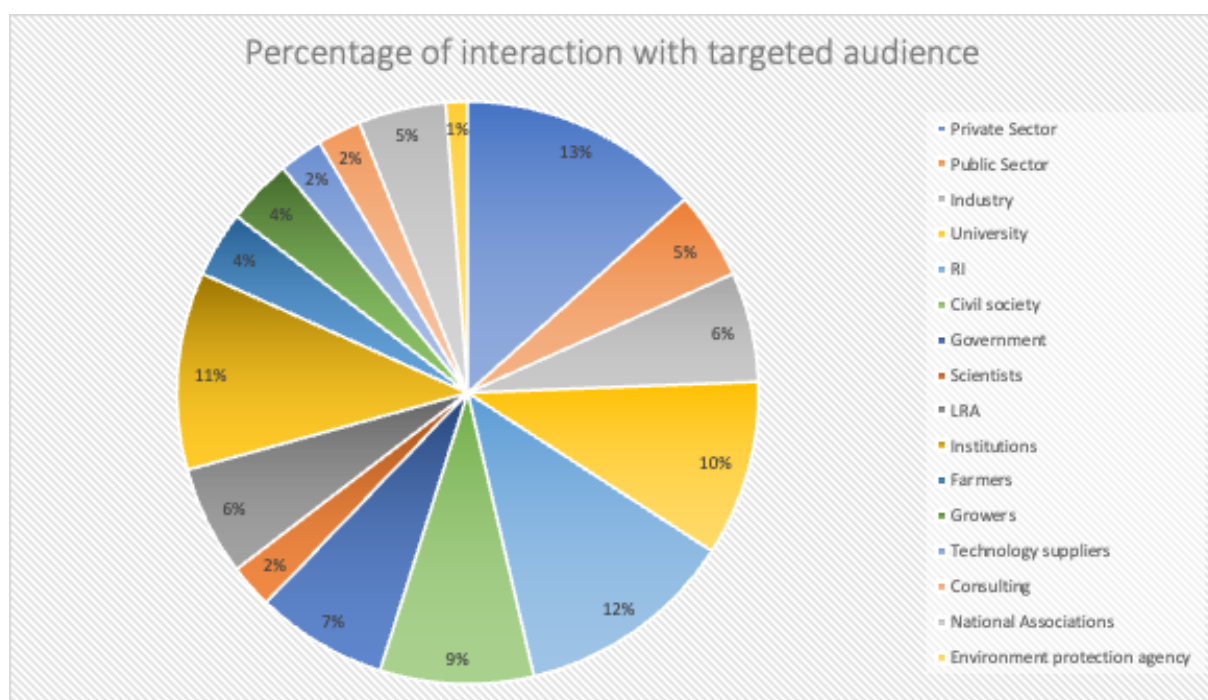


Figure 5 Percentage of interaction with targeted audience

4. IMPACTS OF WORKSHOPS

4.1 In-depth considerations achieved by the EARSC-EURISY workshops

This section provides a final overview of the workshops' performance and success factors, as well as their support to the e-shape pilots solutions to connect with new community of users.

WP4, based on the taxonomy, the list of events developed, and the initial assessment survey completed by the e-shape pilots, put the e-shape Pilots in contact with various thematic audiences to create useful interactions with potential users or new community of users. While M1-M24 prepared the ground of the community engagement between the pilots and the community of users (primary community), M24-M48 brought forward actions (user uptake level L1) for further engagement with secondary communities. These engagements were initiated through on- invitation events involving e.g. space agencies.

The following figures present the number of participants to the workshops and interactions with the e-shape pilots. The 26 workshops gathered 503 participants, including 285 registered participants. Overall, 31 of the 37 e-shape pilots interacted with potential users (figure 6).

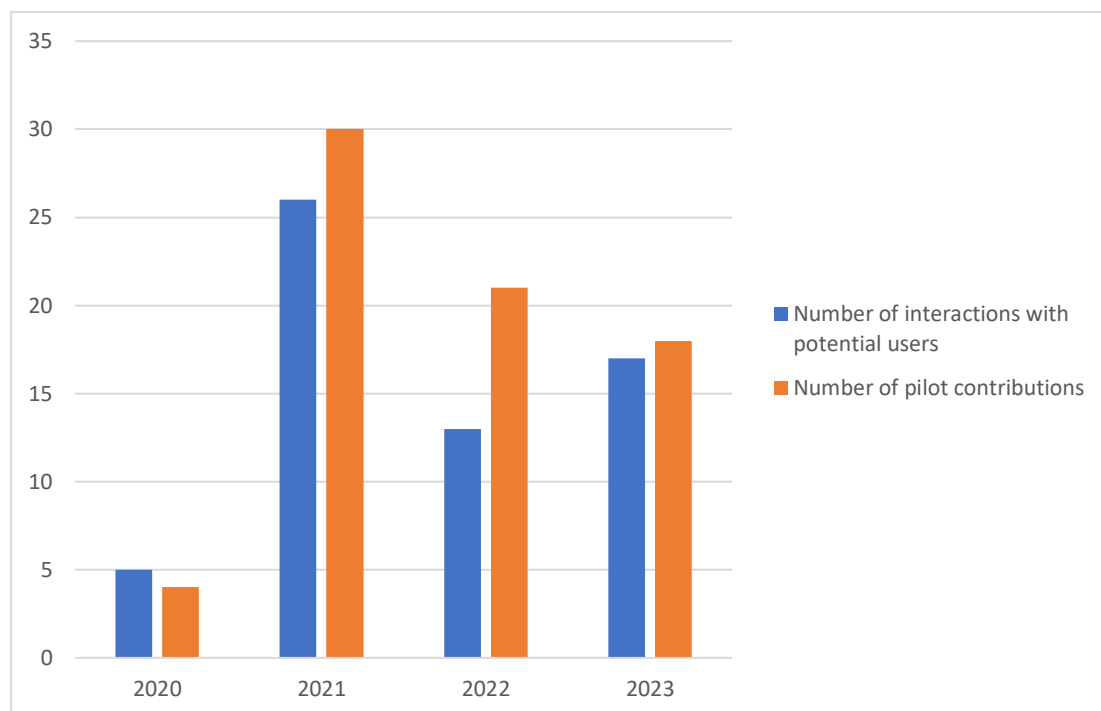


Figure 6 Total of pilots' contribution interactions with the audience

Figure 6 illustrates the level of interactions between the pilots present at the workshops and the attendees. Interactions are defined as discussions during the workshops and interest gathered by the audience followed by a following up contact with the Pilot. The vertical axis represents the number of interactions. The interactions are collected through a follow-up survey sent post workshop. Through this survey, the audience is invited to indicate the pilots they wish to interact and continue the engagement with. The sum of interactions reflects the total number of confirmed connections, such as monitored by surveys and the follow-emails. While during the first round of workshops, most of the connections remained at user uptake level 1 interaction, EARSC and EURISY noted that during the 2nd round of workshops instead, more concrete interactions led to a higher interest into user uptake level

2 co-design supported by letter of interests. Such level of interaction was mostly acknowledged during the country workshops (Germany, Croatia, Spain and Poland, among others). The “by-invitation” workshops (Ireland (IRLOGI), Spain (GEOGRAMA), Croatia (GIS), etc...) led to concrete results, as the invitees had been identified as potential users prior to the workshop and demonstrated a high level of interesting collaborating with the pilots.

The level of interaction eventually reached by a Pilot after a workshop is consistent with i) its expressed needs, ii) the composition of the audience and iii) the mode of interaction. The dual approach of the workshops to support the uptake of the solutions, i.e., following either a sectorial (community expansion) or a geographical (market expansion) has been an important dimension during the second round of workshops. This approach provided the pilots with a broader scope for engaging in events and audience, but also the opportunity to address country specific needs and focused stakeholder groups.

WP4 partners have increased engagement and supported the user uptake by engaging with the workshop’s attendees through a survey performed immediately after the event. The survey gathered overall impressions about the organisation and the degree of interest to engage with the pilots. The respondents rate differs between the two rounds of workshops (M1-24 vs M24-M48) because of the typology of workshops. The first round based on online and hybrid workshops, lacked responses from the attendants, with a rate of respondents to the workshop survey of 3 responses to 12 workshops surveys (online events). The rate increased to a total of 62 responses across the 4 years of project.

The Table 2 Community per workshop that wishes to interact with the pilot below shows in detail the community per workshop that wishes to interact with the pilot:

Table 2 Community per workshop that wishes to interact with the pilot

Workshop	Interest to engage from the attendees	Interest to engage with the pilot
Space Opportunities for Climate Challenges	Public/Private sector	"Improve historical water availability and quality information services", Dr. Ilias Pechlivanidis, SMHI
Earth Observation solutions contributing to EuroGEO : cross-benefits e-shape and SCO communities.	Public sector	Seasonal preparedness - Andrea Vajda, Finnish Meteorological Institute (FMI)
European Week of the Regions and Cities	Public sector (umbrella association)	"EO-based surveillance of POPs pollution", Jana Klanova, prof. RNDr., Ph.D. Head, Human Exposome Masaryc University "Monitoring fishing activity", Aida Campos, senior researcher at IPMA, the Portuguese Institute for Sea and Atmosphere
Earth Observation solutions for sustainable development: hands-on e-shape climate services (Turkey)	Institutional, research, private sector	"Resilient and Sustainable ecosystems including agriculture and food", Alexia Tsouni, Civil Engineer & MSc in Water Resources NTUA, National Observatory of Athens (NOA)", EYWA + MURMURATION
EO-based products to improve renewable energy forecasts (52 N)	Research, private sector	Solar energy nowcasting & short-term forecasting system; nextSENSE; Merging offshore wind products; Hydropower in snow reservoir - climate service
Earth Observation Forum- Earth Observation solutions for energy, climate change and environmental management (Poland)	Institutional, research, Governmental sector	"Urban resilience to extreme weather-climate service", Saskia Buchholz & Maja Zuvela-Aloise; "Merging off-shore wind products", Merete Badger, Technical University of Denmark (DTU) ; "High Photovoltaic Penetration at urban scale", M. Amaro e Silva, MINES Paris PSL ;
Satellite Remote Sensing for disaster management (GIS)	Institutional, research, Governmental sector	"A complete meteo-hydrological chain to support early warning systems from weather scenarios to flooded areas", Martina Lagasio, CIMA Foundation; "Flood Risk & Impact assessment through automatic change detection of S-1+S-2 images (FRIEND)", Marco Folegani, MEE0; "Developing precision agricultural services over formerly data-poor regions under the framework of e-shape", Nikos Bartsotas (NOA)
Bulgaria	Institutional, research, Governmental sector	"Developing precision agricultural services over formerly data-poor regions under the framework of e-shape", Nikos Bartsotas (NOA); "Assessing Geo-hazard vulnerability of cities and critical infrastructures", Pablo Ezquerro Martin, Spanish Geological and Mining Institute (IGME)

e-shape solutions: Earth Observation for biodiversity and water management (NSO)	Private sector	"Sargassum detection for seasonal planning", Fabien Lefèvre, Head of the Ocean and Climate Division within the Environment and Climate Business Unit, CLS; "Satellite Earth Observation-derived water bodies & floodwater record over Europe" Patrick Matgen, LIST
e-shape solutions: Unlocking the potential of Earth Observation data for climate change and urban areas (Malta)	Institutional, Governmental sector	"Dive - Diver Information on Visibility in Europe", Peter Walker; "Seasonal preparedness", Stavros Solomos; "Urban resilience to extreme weather - climate service", Saskia Buchholz and Maia Zuvela-Aloise;

Moreover, further clear indication about whether the service would fit the participants' needs are:

1. There are problems with long-term access of EO data (3)
2. The service doesn't fit my needs (2)
3. There are doubts about the real gains & benefit of using EO data (2)
4. The cost/effort of ordering space services from suppliers is high (2)
5. There are doubts about the reliability of the data (3)

WP4 has also gathered feedback from the pilots that took part in the workshops. In the following graphic, for each pilot it is represented the degree of satisfaction on a range 0-5 (Figure 7). The majority or Pilots were satisfied, with some Pilots feeling a lesser engagement with the audience. All the pilots had the possibility to interact with the workshop attendees, confirming the average number of the general usefulness of the workshops.

For three pilots the communities presented in their respective workshops did not satisfy the pilots. WP4 understood this was mainly due to language barrier in the GEOGRAMA workshop (see comment in section 7.5 lessons learnt).

Individual feedbacks are:

- Pilot S6.4 ReSAgri - Resilient and Sustainable ecosystems including Agriculture and food: *"Yes, in forms of users contacting me for setting up collaboration"*
- Pilot S2.2 EO-based surveillance of POPs pollution: *"well organised, well attended"*
- Pilot S5.7 Rheticus® AquaculturePlus: *"As per my previous answer, it's important to find a method to involve as more people as possible in target with the pilot we offer"*.
- Pilot S4.P2 *"It was a good opportunity to exchange with experts from other domains focusing on EO data production. The importance of in-situ data and building solutions integrating EO workflows is important. To see how that works in other domains and how to link to stakeholders and users could be nicely addressed within the workshop. Well organised. I really appreciated being able to attend the meeting."*
- Pilot S7.P2 *"a nicely organised workshop providing opportunities to interact with the EO community. Was a good frae to present and discuss the outcomes of the e-shape work. Was good to meet in person again"*.

Overall, the workshops reached the following user uptake levels: Level 1 (interaction): 37 pilots, Level2 (platform tester): 8 pilots, Level 3 (recurrent user): 5 pilots. For more specific elements on the user uptake, please refer to D4.17 and Annex 1.

4.2 Overall considerations collected from the EARSC-EURISY workshops

In general, all the workshops provided an ideal platform for networking and promoting the European Earth Observation capabilities to the hosting communities. The workshops also facilitated the exchanges both with and within stakeholders' groups, ranging from the research community to the commercial sector. Featured outcomes of the series of events include:

- Raising awareness: The Croatia and Malta workshops highlighted the capabilities of satellite-based applications to support public administrations in energy and urban planning. These communities are relatively new to the operational use of EO applications to their domain, but feature a high level of understanding of their challenges, which are hydrological risks, coastal erosion and water waste collection.
- Political recognition: The Turkey workshop brought together representatives of the Turkish Space Agency, research and governmental stakeholders to discuss EO market trends, policy development and funding opportunities. The Bulgaria workshop involved institutional research and the government sector in Bulgaria. The event increased awareness about European EO capabilities and reaffirmed the strong links with eastern Europe.
- Relation with users: The workshop entitled "*EO based information products to improve renewable energy forecasts and Satellite Remote Sensing for disaster management* (in cooperation with iGIS-EUROGI)", increased the relation between the e-shape pilots and potential users to support their uptake, with a high level of interaction (L2 and L3).

5. ORGANISATIONAL ASPECTS

5.1 Scope

EARSC and EURISY hosted and moderated most of the workshops (see deliverable D4.8). During M24-M48 EARSC and EURISY cooperated with their own networks of space agencies and communities in the organisation of the workshops to target mostly the secondary community of users. This cooperation was beneficial in terms of community engagement and diversity of stakeholders but also for more dedicated and closer workshop formats, enabling a more direct connection.

The geographic expansion (country workshops) resumed in M36-48 due to COVID-19. The e-shape pilots' presentations were tailored to the audience, either more technical and research oriented (EGU, EARSeL), or users oriented i.e. highlighting benefits to non-EO communities (Malta, Croatia country workshops).

5.2 Discussion

The workshops were designed as a space for ongoing dialogue with the participants, promoting personal interactions rather than a simple follow up survey. The objective to create and nurture a personal interaction with each of these contacts was pursued by both EARSC and EURISY. Of the 26 workshops, 37 pilots have reached user uptake level 1 (active interaction); 8 pilots' reached level 2 (use of the service); and 5 pilots reached level 3 (new users committed of the e-shape pilots).

The format of the workshops included introductions to EO, presentation of the e-shape pilots, benefits to the audience, final Q&A and or/round table chaired by effective moderators. This format proved efficient to spread information and to create opportunities for discussions during the workshop. Of 26 workshops, 14 were conducted online.

Some barriers were noted:

- 1) A lack of responses to the final survey was witnessed, which was sent after each workshop to engage with the audience.
- 2) Political stall due to change of board management and general elections in associations, slowed the process for WP4 to engage with their network.
- 3) When it comes to engage with institutional counterparts or users, the engagement process needs to follow formal channels respecting certain standards that might not be in use in the private sector. Although slower, the process brings stronger and long-lasting connections.
- 4) During the intermediate phase of reopening in-person events, it was difficult to motivate travels to the workshops even if embedded in bigger events. The hybrid component helped.

Despite these challenges, the workshops reached a higher number of participants than expected, above the target 12-people involvement stated in Section 2.1 (Assumptions).

5.3 Final remarks and lessons learnt

The COVID-19 pandemic challenged the entire project and obliged the partners to quickly rethink and apply mitigation measures to ensure a smooth development of the activities. However, resuming to in-person events led to a successful ending of the activities. During the second round of workshops, EARSC and EURISY build on the initial lessons learnt in the first period, to better implement the second round of events.

From a programme/content point of view, “on-invitation” workshops and “2-days” workshops targeting specific communities shall be privileged to ensure quality and engagement for the follow-up 1-1 user uptake meetings.

Regarding the workshop programme, in the online version, consideration should be given to providing a significant amount of time for smaller focused group discussions to take place. Break-out rooms, where possible, proved to be useful to stimulate detailed interaction with the pilots, also thanks to the presence of a thematic expert moderator. This applies to the IRLOGI workshop, where some attendees would have enjoyed a longer time allocated to this activity. In other workshops, as GEOGRAMA or Croatia and Poland, the break-out rooms were not necessary as the conversations and technical discussions involved a small amount of people by design, or else they were taken during the network.

The country workshops proved to be fruitful based on the “by-invitation only” approach. The autonomy left to the organisers (IRLOGI, GEOGRAMA, F2N, SOGI, IGIS) for the workshop’s organisation had the advantage of creating a “real” regional workshop where the issues most useful to the hosting country were raised and addressed (Ireland, Spain, Germany, Switzerland, Austria, Croatia). Also, those events were organized in cooperation with national space agencies and involved the primary targeted communities (public sector, government). In-person networking during the event is paramount.

Consideration should be given to limiting the duration of the workshops to 2 hours, as online events are difficult to follow even with interactions and online tools to stimulate engagement (mentimeter, slido, polls). A 2-hours workshop provides a good timeframe to present 3 pilots and a final Q&A or 15 minutes break out rooms for more in-depth discussions of the pilots’ presentations and stimulating networking.

6. CONCLUSIONS

The report explores the extent to which the user uptake strategy and the workshops activities have promoted the benefits and capabilities of European Earth Observation services, by connecting the e-shape pilots with the communities of direct relevance to them, supporting their co-design approach and opening perspectives for the future sustainability of their services.

The user uptake workshops were directed at showcase and pilot level, addressing them to different thematic communities (classified along EARSC's taxonomy) and stakeholder categories (private, public sector, civil society, institutions, government, etc.). Despite the COVID-19 pandemic, the necessary adaptation to different modalities of events and the shift to online presence, WP4 partners have promoted the European Earth Observation capabilities "with and for the users" through the organisation and development of 26 workshops spanning from private events (Water Europe), public sector and governments events (EMD21 and 22, the country workshops in Croatia and Poland), civil society and LRA events (COR, country workshops in Malta, Ireland) to academic events (EGU, EARSeL).

Overall, the workshops achieved to raise awareness on EO capabilities and e-shape, supported the political recognition of Copernicus and EuroGEO - including in eastern Europe, and strengthened the relationships with potential users. The most successful workshops were country workshops in Poland and Malta, respectively with 100 and 70 participants ; Space4cities with 83 participants ; followed by the European Maritime Day with 50 participants (side event). The least attended country workshop took place in Germany ("by invitation only" event) with 10 participants but achieved a high rate of uptake participation (3 pilot's speakers, 3 levels of uptake).

Each showcase engaged with different communities and incorporated the contacts into the follow up sustainability actions of the pilots, and sought to bring them within the EuroGEO ecosystem. In total, 21 communities have been addressed through the e-shape workshops. 37 pilots reached user uptake Level L1 interactions, 8 pilots achieved level L2 (codesign), and 5 pilots achieved level L3 (recurrent user).

Metrics such as the total number of e-shape pilots' participation (37); the total number of registered participants (285); the total number of participants (503); the interaction with potential users (48 total, of which L1/37pilots, L2/8 pilots and L3/5 pilots), demonstrate the successful achievement of e-shape through its WP4 conducted by EARSC and EURISY to promote and spread awareness of the e-shape Pilots' capabilities to new communities of users and new markets.

In conclusion, e-shape successfully organised 26 workshops. The partners EARSC and EURISY successfully leveraged their networks to raise awareness of the European EO capabilities across communities and markets, and supported the pilots in reaching new EO and non-EO communities, attracting new stakeholders to the EuroGEO ecosystem. This result has also been supported by WP6, who delivered communication support i.e. through the social media channels, with the support of the Project Management Team, and without any doubt with the strong participation and enthusiasm of the e-shape pilots.

7. ANNEX 1 A

Table 3 - United Nations/Austria Symposium

United Nations/Austria Symposium "Space Applications for Sustainable Development Goal 13: Climate Action"	
Date	1-3 September 2020
Location	Virtual
Attendees	60
Recording	N/A
e-shape pilot	S6P3 "Assessing Geo-hazard vulnerability of cities and critical infrastructures"
Presentation	<ul style="list-style-type: none"> "Assessing Geo-hazard vulnerability of cities and critical infrastructures", Pablo Ezquerro Martin, Spanish Geological and Mining Institute (IGME)
Description of the activity	<p>Eurisy participated at the first session of the Symposium: Climate Action, on September 1st 2020. Eurisy Coordinator illustrated a presentation entitled: User-centric satellite solutions for effective climate actions, elaborating on the unique e-shape co-design approach in general and showing concrete example based on all the pilots developed within the Showcase 7 (SC& climate). The assigned slots were of about 20 minutes including Q&A from the audience.</p> <p>EARSC participated as speaker in the Panel 2: International cooperation and best practices for Climate Action, on September 3rd. Emmanuel Pajot, EARSC Secretary General, presented about Earth Observation solutions supporting climate policy making. In this presentation, he gave an overview of the e-shape project introducing the pilots of energy, climate and health showcases, that specifically deliver information targeting policy makers in EU coordinating bodies, networks, and associations, as well as national, regional & EU stakeholders. The 5-minutes presentation was followed by a panel discussion in which</p>

	participated CNES and the World Bank, among others.
Objective of the activity	The event aims to showcase concrete climate action cases through demonstrations of applications using space solutions. Users of space applications present lessons learnt, and experts discuss the role of space applications in climate-related policies.
Community	Security & safe, Built environment, Atmosphere & Climate, Disasters & Geohazards
Stakeholders present	The wider space community, including the diplomatic community, statisticians, the private sector and academia, as well as UN entities, Public International/local sector, R&D
Connections identified	Eurisy has been contacted after the presentation by several interested partners. Contacts passed over to relevant e-shape pilots
Promotion to the community	Communication material has been produced including the recordings of the presentations as well as short articles for the virtual promotion
Take aways	Level user uptake L1- interaction, S5P3 in contact with the British Project Meteor to know more about the pilot

Table 4 - Smart Farming 2020

Smart Farming 2020 - About the use of Satellites and data for the Agriculture market	
Date	9 October 2020
Location	Virtual-Zoom
Attendees	30
Recording	Yes
e-shape pilot	S1P2 EU-CAP Support S6P4 ReSAgri-Resilient and Sustainable ecosystems including agriculture and food
Presentations	<ul style="list-style-type: none"> “Developing tailored services for the agro-insurance sector over northern Greece: The case of Rodopi / cotton crop”, Nikolaos S. Bartsotas, Senior Research Associate, National

	<p>Observatory of Athens/ Beyond Center of Earth Observation Research and Satellite Remote Sensing</p> <ul style="list-style-type: none"> • “e-shape - EU CAP Support Pilot: A machine learning enabled system for dynamic phenology estimation and yield prediction using satellite and in-situ observations”, Vassilis Sitokonstantinou, Research Associate, National Observatory of Athens
Description of the activity	Eurisy and EARSC organized a dedicated session on the contribution of satellite data and solutions to a more efficient and sustainable agri-food sector. The entire session lasted a total of 2h. Eurisy to set the scene presented "User-centric approach to facilitate a widespread uptake of satellite-based solutions for agri-food sector".
Objective of the activity	The objective of the session was to present the solutions relevant for the sector and developed under the umbrella of the e-shape activities and to connect the pilots (S1P2 EU CAP Support; S6P4 ReSAgri - Resilient and Sustainable ecosystems including Agriculture and food) with potential users interested either in getting involved in the co-design or just to provide useful feedback on their specific needs.
Community	Land, Built Environment
Stakeholders present	Farmers Growers Agricultural industry Technology suppliers (corporate, start-up) System integrators Governmental bodies (Local, Regional, National) Project developers Finance / Consulting Logistics suppliers anyone interested in smart farming
Connections identified	Overall relations with agricultural community from Eastern Europe
Promotion to the community	Sharing of the abstract as well as presentations.
Take aways	User uptake level L1 Private users contacting S6P4 for setting up collaboration.

Table 5 - EARSC- SCO

EARSC- SCO workshop: Earth Observation solutions contributing to EuroGEO: cross-benefits benefits e-shape and SCO communities

Date	13 October 2020
Location	Virtual-GoTo Meeting
Attendees	30
Recording	N/A
e-shape pilot	S6P3 Assessing Geo-hazard vulnerability of Cities and Critical Infrastructures S5P2 Satellite Earth Observation-derived water bodies and floodwater record over Europe S7P5 Seasonal preparedness
Presentation	<ul style="list-style-type: none"> • “Assessing Geo-hazard vulnerability of Cities and Critical Infrastructures”, Pablo Ezquerro, Spanish Geological and Mining Institute (IGME) • “Satellite Earth Observation-derived water bodies and floodwater record over Europe”, Patrick Matgen, Luxemburg Institute of Science (LIS) • “Seasonal preparedness”, Andrea Vajda, Finnish Meteorological Institute (FMI)
Description of the activity	A 90-minute workshop present both SCO and the e-shape project, to create and foster opportunities, research and expertise through new collaboration between actors involved in space and players working at the heart of climate and environmental issues.
Objective of the activity	aims at bringing together the representatives of SCO and his community of users, with the e-shape pilots, introducing current works and projects. SCO will share its understanding of e-shape, how pilots are aligned with their activities/challenges, and opportunities as well for the e-shape pilots user’s uptake.
Community	Disasters & Geohazards, Atmosphere & Climate, Maritime & Marine
Stakeholders present	e-shape pilots and SCO community, GEO
Connections identified	Public sector
Promotion to the community	General promotion of e-shape and of the pilots presenting
Take aways	User uptake level L1 interaction S7P5 and S5P2 applied to the call for proposal by SCO

Table 6 - Spaceforcities21

Spaceforcities21 “From innovation to operation” A talk about concrete uses of satellite data and services to support cities’ resilience and sustainability	
Date	27 October 2020
Location	Virtual- Teams
Attendees	83
Recording	Yes
e-shape pilot	<p>S2P3 EO-based pollution-health risks profiling in the urban environment</p> <p>S3P1 nextSENSE: solar energy nowcasting and short-term forecasting system</p> <p>S3P2 High-photovoltaic penetration at urban scale</p> <p>S6P3 Assessing Geo-hazard vulnerability of cities and critical infrastructures</p>
Presentation	<ul style="list-style-type: none"> • “Use of satellite data to forecast solar energy (PV) potential in cities: from solar cadaster to PV variability at urban scale”, Prof. Phillippe Blanc, Armines • “A web service to control and manage energy supply and demand, and integrate the energy produced from solar systems into cities’ electricity grid. The examples of Athens (Greece) and Aswan (Egypt)”, Panagiotis Kosmopoulos, National Observatory of Athens, Institute for Environmental Research and Sustainable Development, Greece, and Hesham El-Askary, Schmid College of Science and Technology • “Assessing Geo-hazard vulnerability of cities and critical infrastructures”, Pablo Ezquerro Martin, Spanish Geological and Mining Institute (IGME) • “Monitoring air quality in cities: the SMURBS SDG indicator 11.6 2 Earth Observation Platform, Evangelos Gerasopoulos, National Observatory of Athens (NOA)
Description of the activity	This workshop presented and discussed solutions to use satellite data and signals, which can make a real difference for public managers willing to increase cities’ sustainability and resilience to climate change and critical events.

	<p>The solutions presented have been recently developed to improve services that already existed or to respond to emerging city challenges, such as climate change and the critical events.</p> <p>Representatives from city authorities, SMEs, service providers and NGOs with an interest in satellite-based solutions for cities expressed their views on the relevance of the services presented with regard to their needs and to identify the barriers to the operational use of such services in cities.</p>
Objective of the activity	<ul style="list-style-type: none"> • Presenting and discussing emerging satellite-based services that can help cities to improve their sustainability and resilience to climate change and critical events. • Generating dialogue among stakeholders on the usefulness of the services presented, their sustainability over time, and their adaptability to cities' needs and operations. • Identifying the barriers and showstoppers to the exploitation of satellite-based services in cities. • Stimulating connections and ideas to build upon the solutions presented and overcome the challenges identified.
Community	<p>Security & safe, Built environment, Atmosphere & Climate, Disasters & Geohazards, Land Maritime & Marine</p>
Stakeholders present	<p>Local administrations dealing with infrastructure management, energy, air monitoring and health.</p> <p>NGOs, associations, private companies and research centres providing smart management solutions in cities.</p> <p>Decision-makers and policy-makers at all levels.</p> <p>Interested organisations and individuals</p>
Connections identified	<p>S6P3 follow up with some participants from the public sector (municipalities and public authorities)</p>
Promotion to the community	<p>Communication material has been produced including the recordings of the presentations as well as short articles for the virtual promotion</p>

Take aways	<p>Level user uptake L1 interaction: contacts with the following authorities for the pilot's development:</p> <p>Wallonia Region Flanders Region Hungary Presidency of the Council of Ministry Malta Council for Science and Technology (Governmental Agency) Warmia and Mazury Regional development Agency (Poland) The Regional Development Agency of the Pilsen Region Budapest Development Centre Ministry of Transport and Communication of Cyprus Ministry of Foreign Affairs Slovenia Estonian Association of households Turkish association of local authorities Croatian crisis management authority</p>
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Table 7 - Wind Energy Conference

Wind Energy Conference	
Date	3 December 2020
Location	Virtual
Attendees	N/A
Recording	N/A
e-shape pilot	S3P3 Merging offshore wind products, Merete Badger
Presentation	<ul style="list-style-type: none"> “Merging offshore wind products using EO assets”, Merete Badger, DTU Wind Energy
Description of the activity	Recorded message to be embedded during the online plenary of the conference with the live participation of Ms Ioanna Karagali to reply to questions from the audience
Objective of the activity	To present e-shape project and activities of the S3P3 to the wind energy community
Community	Energy & mineral resources
Stakeholders present	Scientists, corporations

Connections identified	follow up of the university with relevant partners
Promotion to the community	Communication material has been produced including the recordings of the presentations as well as short articles for the virtual promotion
Take aways	Active interaction but without follow-up with the audience as the pilot's presentation was changed of session without the pilot being informed.

Table 8 - Eurisy Webinar series The Challenges of the blue World

Eurisy Webinar series The Challenges of the blue World	
Date	February 2021 - 5 May 2021
Location	Virtual-Teams
Attendees	25
Recording	Yes
e-shape pilot	S5P3 Merging offshore wind products
Presentation	"Merging offshore wind products", Dr Ioanna Karagali
Description of the activity	Eurisy in cooperation with the European Space Agency organized a series of Three webinar on Marine Resources Exploitation (aquaculture; fishery; illegal fishing), Secure Transports and Communication (connectivity, autonomous shipping, logistics) and Maritime Spatial Planning: coastal protection, renewable energy, and port development. The Webinars have been designed to promote the ESA Blue Worlds Task Force Stakeholder Consultation, designed to gauge the understanding and interest as well as current and potential involvement of the European maritime users community in the exploitation of space based systems, data and products.
Objective of the activity	This webinar series, promoted by ESA in collaboration with Eurisy, discussed the current challenges faced by maritime stakeholders, as well as how satellite-based solutions respond to emerging needs and trends. The webinar

	gathered around a virtual table local authority, NGOs, research centres, and industrial clusters from space and maritime domains.
Community	Maritime & Marine
Stakeholders present	Space stakeholders, Maritime industry, Technology suppliers (corporate, start-up), System integrators, Governmental bodies (Local, Regional, National), Project developers Logistics suppliers
Connections identified	Overall relations with the ESA ecosystem
Promotion to the community	Presentation and video recordings
Take aways	User uptake level L1 Interaction

Table 9 - Eurisy Webinar series Space Opportunity for climate challenges

Eurisy Webinar series Space Opportunity for climate challenges	
Date	3 March 2021
Location	Virtual- Teams
Attendees	50
Recording	Yes
e-shape pilot	S1 Agriculture, S4 Ecosystem, S5 Water
Presentation	<ul style="list-style-type: none"> • “Harvester season, forestry planning service”, Mikko Strahlendorff • “Improve historical water availability and quality information services”, Ilias Pechlivanidis,
Description of the activity	In this monthly webinar series, Eurisy and dotSpace bring together research, government and industry experts to talk about their innovative solutions and funding opportunities. This highly multidisciplinary initiative also provides an open networking and knowledge sharing platform where space & non-space peers can exchange ideas, discover opportunities and meet people to help improve their activities (business, decision-making, legal, research, education, etc.).
Objective of the activity	The Space for Climate initiative offers a one-stop-shop networking platform to find relevant

	information, news, events, calls, partners and customers for space applications related to climate.
Community	Land, Built Environment, Atmosphere & Climate (about 50 participants per each webinar)
Stakeholders present	Space and non-space sector. Forestry industry, Technology suppliers (corporate, start-up), System integrators, Governmental bodies (Local, Regional, National), Project developers, Logistics suppliers
Connections identified	Overall relations with the community present
Promotion to the community	After every session Eurisy produced an article for communication purposes including the recording of the presentation as well as relevant links for follow-up information
Take aways	User uptake level L1 Interaction

Table 10 - Eurisy Webinar series Space Opportunity for climate challenges

Eurisy Webinar series Space Opportunity for climate challenges	
Date	3 March 2021
Location	Virtual- Teams
Attendees	50
Recording	Yes
e-shape pilot	S1 Agriculture, S4 Ecosystem, S5 Water
Presentation	<ul style="list-style-type: none"> • “Harvester season, forestry planning service”, Mikko Strahlendorff • “Improve historical water availability and quality information services”, Ilias Pechlivanidis,
Description of the activity	In this monthly webinar series, Eurisy and dotSpace bring together research, government and industry experts to talk about their innovative solutions and funding opportunities. This highly multidisciplinary initiative also provides an open networking and knowledge sharing platform where space & non-space peers can exchange ideas, discover

	opportunities and meet people to help improve their activities (business, decision-making, legal, research, education, etc.).
Objective of the activity	The Space for Climate initiative offers a one-stop-shop networking platform to find relevant information, news, events, calls, partners and customers for space applications related to climate.
Community	Land, Built Environment, Atmosphere & Climate (about 50 participants per each webinar)
Stakeholders present	Space and non-space sector. Forestry industry, Technology suppliers (corporate, start-up), System integrators, Governmental bodies (Local, Regional, National), Project developers, Logistics suppliers
Connections identified	Overall relations with the community present
Promotion to the community	After every session Eurisy produced an article for communication purposes including the recording of the presentation as well as relevant links for follow-up information
Take aways	User uptake level L1 Interaction

Table 11 - Water Europe

Water Europe	
Date	24 March 2021
Location	Virtual – Zoom webinar
Attendees	70
Recording	Yes
e-shape pilot	S5P1 Improved historical water availability & quality water information service
Presentation	<ul style="list-style-type: none"> “Exploring the potential of Eos for the water sector: tailoring large-scale water services to ensure local customisation”, Dr. Ilias Pechlivanidis - Swedish Meteorological and Hydrological Institute (SMHI)

Description of the activity	Organization of a session including a general introduction to the projects, its objectives and main actions as well as a hands-on training provided by S5P1 Water showcase. Identification of community of users for co-design of the pilot.
Objective of the activity	The objective of this session was to inform water stakeholders on the potential of Earth Observation data for this market by providing also a users' and market perspective overview.
Community	Maritime & Marine
Stakeholders present	Private-Public sector Water industry Technology suppliers (corporate, start-up) System integrators Governmental bodies (Local, Regional, National) Project developers Logistics and Utilities suppliers
Connections identified	EARSC has engaged with the private sector water association accelerator discussing the sector needs and challenges and how the e-shape pilots can support.
Promotion to the community	International impact interest in knowing more the EO sector. Meeting with EARSC scheduled in June and potential users to identify synergies (EARSC members and e-shape pilots)
Take aways	Signature of a Joint action plan with Water tech accelerator to connect with private water users

Table 12 - EARSeL

EARSeL Joint Workshop "EO for sustainable cities and communities"	
Date	30 March 2021
Location	Virtual – EARSeL platform
Attendees	20
Recording	N/A- EARSeL platform and own recording
e-shape pilot	S3P1 nextSENSE
Presentation	"e-shape project: the NextSENSE service case", Panagiotis Kosmopoulos, National Observatory of Athens

Description of the activity	A 2h30 country workshop focussed on Ireland and the agricultural sector attended by 38 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the agriculture sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Atmosphere & Climate Built environment
Stakeholders present	EO Scientific and research communities
Connections identified	Relation with EARSeL thematic working group aligned with e-shape: Coastal zones and Geological applications
Promotion to the community	General promotion of e-shape and the nextSENSE pilot
Take aways	User uptake level L1 Interaction

Table 13 - EGU21

EGU21 - Earth Observation based solution supporting disaster resilience: hands-on the e-shape project user-centric approach	
Date	26 April 2021
Location	Virtual-Zoom meeting
Attendees	15
Recording	Yes
e-shape pilot	S5P1 Improved historical water availability & quality water information service S6P1 EO4D_ASH - EO Data for Detection, Discrimination and Distribution (4D) of Volcanic ash
Presentation	"Can earth observations evolve the water sector? Tailoring large-scale water services to address the user and market needs", Dr. Ilias Pechlivanidis - Swedish Meteorological and Hydrological Institute (SMHI)

	“Integration of EO and model data for the monitoring of volcanic plumes critical to aviation operations”, Nikolaos Papagiannopoulos – Institute of Methodologies for Environmental Analysis (IMAA CNR)
Description of the activity	A 45min workshop focussed on EO-based applications in the water and disaster sector developed within the e-shape project and exemplify solutions that not only can support disaster resilience, raise awareness and risk response capability at the EU level, but can be integrated into users’ daily workflows.
Objective of the activity	The aim is to bring together research and scientist communities to discuss about opportunities and challenges, injecting knowledge exchanges on co-design methodologies to develop the operational uptake of mature EO-based services.
Community	Land Maritime & Marine Disasters & Geohazards Atmosphere & Climate Built environment Energy & mineral resources
Stakeholders present	EO research and scientist
Connections identified	Relations with EGU communities
Promotion to the community	General promotion of e-shape and of the pilots presenting, as well as of the Call for EO-based Products 2021
Take aways	User uptake level L1 interaction

Table 14 - European Maritime Days21

European Maritime Days21 - Workshop Satellite-based applications in the maritime domain: hands-on the e-shape project	
Date	21 May 2021
Location	Virtual - internal platform

Attendees	50
Recording	N/A- EMD platform and own recording
e-shape pilot	S5P4 “Sargassum detection for seasonal planning”; S5P5 Monitoring fishing activity
Presentation	<ul style="list-style-type: none"> • “Monitoring fishing activity”, Aida Campos • “Sargassum detection for seasonal planning”, Marion Sutton, Collect Localisation Satellites (CLS)
Description of the activity	<p>The first part of the workshop will introduce the audience to operational satellite-based applications providing a market and users' benefits perspective in maritime spatial planning. The second part is dedicated to the presentation of pilots' projects. The presenters will provide hands-on training and users' benefit on two applications, providing a link to most of the different European Directives and Policies and the SDGs.</p> <p>The format foresees a Q&A to boost interaction and live engagement between the audience and the pilots through feedback useful to inject in the co-design methodology of the service development.</p>
Objective of the activity	To raise awareness of the benefits of using satellite EO within the marine sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Maritime & Marine
Stakeholders present	Maritime industry Technology suppliers (corporate, start-up) System integrators Governmental bodies (Local, Regional, National) Project developers Logistics suppliers
Connections identified	Relations with EMODnet Secretariat
Promotion to the community	General promotion of e-shape and of the pilots presenting
Take aways	User uptake level L1 interaction S5P4 and S5P5

Table 15 – ExpandEO21

ExpandEO21- Expanding the Copernicus Services ecosystem - the e-shape contribution	
Date	17 June 2021
Location	Virtual – Zoom
Attendees	35
Recording	Yes
e-shape pilot	S1 Agriculture, S4 Ecosystem, S5 Water
Presentation	<p>“The Agricultural showcase”, Laurent Tits, VITO</p> <p>“The Ecosystem showcase”, Ulf Mallast, Helmholtz Centre for Environmental Research GmbH - UFZ</p> <p>“The Water resource management showcase”, Nuno Grosso, DEIMOS</p>
Description of the activity	A 90-minute workshop focussed on the use of EO in the agriculture, ecosystem and water environment attended by 35 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the agriculture, ecosystem and water sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Land, Built environment, Maritime & Marine
Stakeholders present	EO community Research, end users and civil society that want to benefit from the understanding and entering the EuroGEO initiative
Connections identified	2 connections with public-private sector
Promotion to the community	General promotion of e-shape and of the pilots presenting
Take aways	Level uptake-1 CREAM for collaboration to jointly improve the pilots’ services, CNRS as data provider.

Table 16 - IRLOGI

IRLOGI-Satellite support for agriculture in Ireland	
Date	23 June 2021
Location	Virtual – Teams
Attendees	30
Recording	Yes
e-shape pilot	S1P2 EU CAP Support S1P4 Agro Industry S1P6 Service for SDG2.4.1 and 15.3.1 indicators
Presentation	<ul style="list-style-type: none"> • “EU CAP Support”, Vassilis Sitokonstantinou, Academy of Athens • “Agro Industry”, Laurent Tits, VITO • “Service for SDG2.4.1 and 15.3.1 indicators”, Leonid Shumilo, Ukraine Space Research Institute NASU-SSAU
Description of the activity	A 2h30 country workshop focussed on Ireland and the agricultural sector attended by 38 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the agriculture sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Land (26 attendees were of direct agriculture or EO involvement)
Stakeholders present	National farmers associations, national government agricultural departments, environment protection agency, university & research
Connections identified	Dedicated meeting pilots-interested user (eoAnalytics, Icon, TEAGASC). Knowledge and data transfer between S1P6 “Service for SDG2.4.1 and 15.3.1 indicators” representative and eoAnalytics for the <i>“Incubation to produce,</i>

	<i>test, and implement EO services on a national scale”</i>
Promotion to the community	General promotion of e-shape and of the pilots presenting
Take aways	Level uptake 1-active interaction for S1P2, S1P4, S1P6 Level uptake 2-data integration for S1P6 pilot’s development

Table 17 - Smart Farming 2021

Smart Farming 2021 - Satellite Earth Observation data supporting smart and resilient agriculture: the e-shape services	
Date	1 October 2021
Location	Virtual - Zoom meeting
Attendees	29
Recording	Yes
e-shape pilot	S1P4 Agro Industry S1P5 Linking EO and Farm IoT for automated decision support
Presentation	<ul style="list-style-type: none"> • “How co-design is used to extract EO value for farmers”, Matic Serc, CEO, eVineyardm; Gunter Zeug, Founder; Conrad Bielski, CTO, Riscognition. • “WatchITgrow: enabling parcel-based monitoring service”, Laurent Tits, team leader agricultural applications, VITO; Jurgen Decloedt, Business Development Remote Sensing, VITO • “EO as a key tool in the 1-st National Research Programme “Smart crop production”, Katya Dimitrova, Project Coordinator, RST-TTO (Risk Space Transfer Office) Bulgarian Academy of Sciences
Description of the activity	The partners organised a full side event in this occasion given the relevance of the audience and the interest showed by the organisers.
Objective of the activity	The objective of the session was to present the solutions relevant for the sector and developed

	under the umbrella of the e-shape activities and to connect the pilots with potential users interested either in getting involved in the co-design or just to provide useful feedback on their specific needs.
Community	Land, Built Environment
Stakeholders present	EO agricultural companies, researchers, universities, governmental agencies, space agencies.
Connections identified	Overall relations with the private sector present
Promotion to the community	A full set of promotional material has been developed by the organisers including video recordings and abstract. The material has been distributed to the community
Take aways	User uptake level L1 interaction S1P1, S1P5

Table 18 - GEOGRAMA

GEOGRAMA- Satellite-based applications in the disaster and climate domain	
Date	4 November 2021
Location	Virtual-Teams
Attendees	21
Recording	Yes
e-shape pilot	<p>S7P5 Seasonal preparedness</p> <p>S5P3 DIVE-Diver information on visibility in Europe</p> <p>S5P6 EO based phytoplankton biomass for WDF reporting</p> <p>S5P7 Rheticus: AquaculturePlus</p>
Presentation	<ul style="list-style-type: none"> “Criterion - Short range and seasonal weather forecasts for Unesco Cultural Heritage Monuments”, Stavros Solomos from the Greece based Research Center for Atmospheric Physics and Climatology of the Academy of Athens. “Algae bloom monitoring via satellites, for reporting, management, and early warning”, Annelies Hommersom, Water Insight

	<ul style="list-style-type: none"> • “Rheticus Aquaculture: Satellite monitoring service for smart Aquaculture”, Alessandra Bleve, Planetek • “Dive - Simple Water Visibility Information for Dive Planning”, Simeon Wilkinson, Plymouth Marine Laboratory.
Description of the activity	A 2h30 country workshop focussed on Spain and the disaster-climate related sector attended by 21 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the disasters-climate related sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Maritime & Marine, Disasters & Geohazards, Atmosphere & Climate
Stakeholders present	Tourism management in terms of final users, and those in charge of coastal territory management, and of urban planning and municipalities. 7 attendees who were of direct agriculture or EO involvement, a relatively large number below the target number of 24 registrants
Connections identified	CNC-France
Promotion to the community	General promotion of e-shape and of the pilots presenting
Take aways	Level uptake-1 Interaction for the pilot’s design with the shellfish farming organisations (CNC France). However, mainly in France and at EU level these organisations have entered in an electoral period as they have to renew their instances for 3 or 4 years (regard the different organisations concerned). As a consequence, for any strategic choices, the potential user had to wait from the beginning of February until the end of June this year for the renewal of the French presidency at CNC level, as well as the renewal of EMPA board members and presidency at EU level.

Table 19 - European Week of the Regions and Cities 21

European Week of the Regions and Cities 21- Earth Observation solutions for smarter and greener regions and cities: hands-on e- shape pilots (COR)	
Date	10 November 2021
Location	Virtual
Attendees	30
Recording	Yes
e-shape pilot	S5P5 “Monitoring fishing activity” S2P2 “EO-based surveillance of POPs pollution”
Presentation	<ul style="list-style-type: none"> • “Monitoring fishing activity”, Aida Campos, senior researcher at IPMA, the Portuguese Institute for Sea and Atmosphere • “EO-based surveillance of POPs pollution”, Jana Klanova, prof. RNDr., Ph.D. Head, Human Exposome Masaryk University
Description of the activity	A 1h30 workshop aimed to bring representatives of regional/local administrations, SMEs and research centres to discuss the opportunities and challenges to the operational uptake of mature satellite-based services developed under the project e-shape.
Objective of the activity	To raise awareness of the benefits of using satellite EO within the maritime sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Land Maritime & Marine Disasters & Geohazards Atmosphere & Climate Built environment
Stakeholders present	Regional/local administrations, SMEs and research centres, Local and regional authorities, EU institutions, policy makers
Connections identified	3 stakeholders from public sector that wishes to engage with S5P2 and S2P2.

Promotion to the community	General promotion of e-shape and of the pilots presenting
Take aways	Level uptake 1- active interaction for S2P2 and S5P2. Dedicated meeting pilots-interested user (CPMR).

Table 20 - European Maritime Day 22

European Maritime Day 22	
Date	19 May 2022
Location	Ravenna, Italy
Attendees	15
Recording	N/A. Page of the event
e-shape pilot	S5P7 Rheticus, S6P5 MEE0;
Presentation	<ul style="list-style-type: none"> "Flood Risk & Impact assessment through automatic change detection of S-1+S-2 images (FRIEND)", Marco Folegani, MEE0 "Rheticus" Alessandra Bleve, Planetek
Description of the activity	A 2h00 country workshop focussed on Italy and the water and disaster sector Europe's maritime community meet to network, discuss and outline joint action on maritime affairs and sustainable blue economy.
Objective of the activity	To raise awareness of the benefits of using satellite EO within the water and marine sector and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Water, Disaster
Stakeholders present	Institutional
Connections identified	Connection with the Municipality of Ravenna
Promotion to the community	General promotion of e-shape and the Rheticus and MEE0 pilots

Take aways	User uptake level L1 interaction
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Table 21 - EGU22

EGU22 e-shape: Earth Observation based solutions with and for the users	
Date	26 May 2022
Location	Austria
Attendees	10
Recording	N/A
e-shape pilot	S5P1 "Improved historical water availability and quality information service Improved historical water availability and quality information service"; S6P4 "ReSAgri - Resilient and Sustainable ecosystems including Agriculture and food"; S7P3 "Forestry conditions - climate service";
Presentation	<ul style="list-style-type: none"> S5P1 "Improved historical water availability and quality information service Improved historical water availability and quality information service"; S6P4 "ReSAgri - Resilient and Sustainable ecosystems including Agriculture and food"; S7P3 "Forestry conditions - climate service"
Description of the activity	A 1h30 workshop focussed on water attended by 10 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the agriculture sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Atmosphere & Climate Water & Marine Disaster
Stakeholders present	EO Scientific and research communities
Connections identified	xx
Promotion to the community	General promotion of e-shape and the pilots

Take aways	User uptake level L1 interaction S5P3, S6P4
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Table 22 - Earth Observation solutions for energy, climate change and environmental management (country workshop Turkey)

Earth Observation solutions for energy, climate change and environmental management (country workshop Turkey)	
Date	7 June 2022
Location	Turkey
Attendees	18
Recording	N/A
e-shape pilot	S6P2 “GEOSS for Disasters in Urban environment”; S6P4 “Resilient and Sustainable ecosystems including Agriculture and food”; S7P7 “Super resolution air quality monitoring service”; S2P4 “Early Warning System for Mosquito-Borne Diseases”
Presentation	<ul style="list-style-type: none"> • “Super resolution air quality monitoring service”, Cathy Sahuc, COO Murmuration • “Resilient and Sustainable ecosystems including Agriculture and food”, Alexia Tsouni, Research Associate, NOA, • “Early Warning System for Mosquito-Borne Diseases” Mirka Rossi, Communication and Dissemination Coordinator, NOA • GEOSS for Disasters in Urban environment” Martina Lagasio, Researcher, CIMA
Description of the activity	A 1-day country workshop focussed on Turkey and the climate sector attended by 18 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the environmental and climate sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Atmosphere & Climate Built environment
Stakeholders present	EO Scientific and research communities
Connections identified	Relation with Turkey Space Agency

Promotion to the community	General promotion of e-shape and of the pilots of relevance to the needs of specific community of users
Take aways	User uptake level L1 interaction for the 4 pilots. L2 platform tester for S7P7 in cooperation with NSO and IEECS.

Table 23 - EXPANDEO22

EXPANDEO22	
Date	15 June 2022
Location	Belgium
Attendees	70
Recording	e-shape session
e-shape pilot	S3P1 nextSENSE; S3P3 Offshore wind; S5P3 DIVE;
Presentation	<ul style="list-style-type: none"> • "Merging off-shore wind products", Merete Badger, Technical University of Denmark (DTU) • "e-shape project: the NextSENSE service case", Panagiotis Kosmopoulos, National Observatory of Athens • "DIVE", Simon Wilkinson
Description of the activity	A 1h30 workshop focussed on thematic expansion in the energy related field and Green Deal, attended by 70 people
Objective of the activity	To raise awareness of the benefits of using satellite EO within the energy sector and provide a community expansion for the energy and water showcases.
Community	Water & Marine, Energy
Stakeholders present	EO, institutional, private and research communities
Connections identified	Relation with SolarPower Europe, Wind Europe, Space Climate Observatory
Promotion to the community	General promotion of e-shape and the pilots

Take aways	User uptake levels: L1 interaction and L2 tester of the platform (S3P1)- meeting and study in collaboration to showcase the importance of EO for the solar grid network.
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Table 24 - EO-based products to improve renewable energy forecasts (country workshop Germany)

EO-based products to improve renewable energy forecasts (country workshop Germany)	
Date	27 September 2023
Location	Online
Attendees	10
Recording	N/A
e-shape pilot	S3P1 nextSENSE; S3P3 “Offshore energy”; S7P4 “Hydropower in snow reservoir – climate service”
Presentation	<ul style="list-style-type: none"> • “e-shape project: the NextSENSE service case”, Panagiotis Kosmopoulos, NOA; • “Offshore energy”, Merete Badger, DTU; • “Hydropower in snow reservoir – climate service”, Jaakko Ikkonen, FMI
Description of the activity	A 2h30 online country workshop focussed on Germany, Austria and Switzerland in the energy sector attended by 10 people.
Objective of the activity	To raise awareness of the benefits of using satellite EO within the energy sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Atmosphere & Climate Built environment
Stakeholders present	EO Scientific and research communities
Connections identified	Relations with EUROGI, SOGI, Research Studio and 52N
Promotion to the community	The e-shape pilots promoted their services to the EUROGI members community of users’ representatives from Germany, Austria and

	Switzerland, representing in the order: private, research and governmental sector.
Take aways	User uptake level L1 interaction. L2 platform tester S3P3 (meeting and workshop with South African government and wind energy representatives) and S7P7 (with SOGI, the Swiss Geoinformation body representing companies)

Table 25 - Earth Observation solutions for energy, climate change and environmental management (country workshop Poland)

Earth Observation solutions for energy, climate change and environmental management (country workshop Poland)	
Date	9-10 November 2022
Location	Poland
Attendees	100
Recording	N/A e-shape session
e-shape pilot	S3P1 “NextSENSE service case”; S3P3 “Offshore wind energy”; S7P2 “Urban resilience to extreme weather - climate service”
Presentation	<ul style="list-style-type: none"> • “High photovoltaic penetration at urban scale”, Rodrigo Amaro e Silva, ARMINES • “Offshore wind energy”, Merete Badger, DTU • “Urban resilience to extreme weather - climate service”, Saskia Buchholz, DWD
Description of the activity	A 2-days’ country workshop focussed on Poland and the climate and energy sector attended by 100 people
Objective of the activity	<p>To raise awareness of the benefits of using satellite EO within the energy and climate sector. The first day of the workshop will set the stage by introducing the audience to EO markets trends and the potential of satellite applications for the use and benefit of specific user categories in Poland.</p> <p>The second day will be dedicated to the presentation of e-shape pilot projects, which will coupled with presentations from local actors (public administrations and/or private companies) using or willing to use EO-based services.</p>

Community	Atmosphere & Climate Built environment
Stakeholders present	Research communities, private, public and international sector
Connections identified	Municipality of Poland, UNEP Grid Poland, Forests officers.
Promotion to the community	General promotion of e-shape and the pilots of relevance for the needs of public administrations and private companies in Poland.
Take aways	User uptake level L2 tester of the platform and L3 – potential users S7P2 with Municipality of Poland to test the service and becoming a potential user.

Table 26 - Satellite remote sensing for disaster management: New technologies for risk assessment, analysis and response (country workshop Croatia)

Satellite remote sensing for disaster management: New technologies for risk assessment, analysis and response (country workshop Croatia)	
Date	11 November 2022
Location	Hybrid
Attendees	36
Recording	N/A
e-shape pilot	S6P2 “GEOSS for Disasters in Urban Environment”, S6P4 “ReSAgri - Resilient and Sustainable ecosystems including Agriculture and food”; S6P5 “FRIEND”.
Presentation	<ul style="list-style-type: none"> • “GEOSS for Disasters in Urban Environment”, M. Lagasio, CIMA Foundation; • “ReSAgri - Resilient and Sustainable ecosystems including Agriculture and food”, N. Bartsotas, National Observatory of Athens (NOA); • “FRIEND”, Marco Folegani, MEE0.
Description of the activity	A 1-day country workshop embedded in the GIS day focussed on Croatia and the disaster sector attended by 36 people.

Objective of the activity	Disasters risk protection is a major issue in Croatia. It is of importance for the public administrations and local actors to be aware of the benefits of using satellite EO in this domain, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Disaster Built environment
Stakeholders present	Research communities, LRA, government representatives, GI community.
Connections identified	Relation with stakeholders from water utilities, research/university, private sector, public administration (local planning, fire services, mountain rescue service)
Promotion to the community	General promotion of e-shape and the pilots of relevance for the needs of public administrations and local actors in Croatia.
Take aways	User uptake level L1 interaction among pilots and university students, Croatian Mountain Waters, Croatian Rescue Service.

Table 27 - EO for management of natural disasters and accidents and environmental monitoring (country Bulgaria)

EO for management of natural disasters and accidents and environmental monitoring (country Bulgaria)	
Date	1 February 2023
Location	Virtual – Zoom
Attendees	70
Recording	N/A
e-shape pilot	S6P2 “GEOSS for Disasters in Urban Environment”, S6P3 “Assessing Geo-hazard vulnerability of Cities and Critical Infrastructures”, S6P4 “Resilient and Sustainable ecosystems including Agriculture and food”
Presentation	<ul style="list-style-type: none"> “Agro Industry” - N. Bartsotas, National Observatory of Athens (NOA);

	<ul style="list-style-type: none"> • “GEOSS for Disasters in Urban Environment” – M. Lagasio, CIMA Foundation; • “Assessing Geo-hazard vulnerability of Cities and Critical Infrastructures” –P.E.Martin, IGME Spain
Description of the activity	A 2h00 country workshop focussed on expanding European EO capabilities in Eastern Europe in the disaster and environmental domain, attended by 38 people. The first part of the workshop provided an overview of the current EO actions in Bulgaria, followed by an overview of the European industry.
Objective of the activity	To raise awareness of the benefits of using satellite EO within the disaster and environmental sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Atmosphere & Climate Built environment
Stakeholders present	EO Scientific and research communities
Connections identified	Relation Ministry of Innovation and Growth; Ministry of Health; Ministry of Interiors; Bulgarian Ports infrastructure company;
Promotion to the community	General promotion of e-shape and the pilots to open the door of EO capabilities to Eastern Europe.
Take aways	User uptake level L1 interactions: the workshop took place at the beginning of February. Relations have been established between pilots and attendees and are undergoing.

Table 28 - e-shape solutions: Earth Observation for biodiversity and water management (country workshop The Netherlands)

e-shape solutions: Earth Observation for biodiversity and water management (country workshop The Netherlands)	
Date	14-15 February 2023
Location	The Netherlands

Attendees	40
Recording	N/A
e-shape pilot	S4P1 “mySPACE”; S4P2 “mySITE”; S4P3 “myVARIABLE”; S5P1 “Improved historical water availability and quality information service”; S5P4 “Sargassum detection for seasonal planning”; S5P6 “EO based phytoplankton biomass for WFD reporting”
Presentation	<ul style="list-style-type: none"> • MySpace, Drivers of change and ecosystem responses in European Protected Areas (PA), Anna Spinosa, Deltares • MyVariable, European Habitat Modelling and Mapping solutions, Sander Mucher, WUR • MySite, Mobilizing data from long term in situ observation facilities, Johannes Peterseil, Umweltbundesamt GmbH (EAA) • Satellite Earth Observation-derived water bodies & floodwater record over Europe Patrick Matgen, LIST • Sargassum detection for seasonal planning, Fabien Lefèvre, CLS • Improved historical water availability & quality information service, Ilias Pechlivanidis, SMHI • EO based phytoplankton biomass for WFD reporting, Annelies Hommersom, WaterInsights
Description of the activity	A 2-days country workshop focussed on the Netherlands ecosystem sector attended by 40 people. The first day of the workshop will set the stage by introducing the audience to European and national policies related to biodiversity protection and restoration as well as water management. The second day will be entirely dedicated to the presentation of e-shape pilot projects, coupled with presentations from local actors.
Objective of the activity	To raise awareness of the benefits of using satellite EO within the agriculture sector, and secondly, to identify participants who would wish to engage with the presenters after the workshop to help evolve the pilots to become more user-needs orientated.
Community	Atmosphere & Climate

	Built environment Water&Marine
Stakeholders present	EO Scientific and research communities, government sector.
Connections identified	Public administration, government institutions (Ministry of Agriculture)
Promotion to the community	General promotion of e-shape and the pilots of relevance for the needs of public administrations and private companies in the Netherlands.
Take aways	User uptake level L1 interactions: the workshop took place end of February. Relations have been established between pilots and attendees and are undergoing.

Table 29 - e-shape solutions: Unlocking the potential of Earth Observation data for climate change and urban areas (country workshop Malta)

e-shape solutions: Unlocking the potential of Earth Observation data for climate change and urban areas (country workshop Malta)	
Date	24 February 2023
Location	Malta
Attendees	70
Recording	N/A e-shape session
e-shape pilot	S7P2 "Urban resilience to extreme weather - climate service"; S5P3 "DIVE", S5P5 "Monitoring fishing activity"
Presentation	<ul style="list-style-type: none"> • "DIVE-Diver visibility information in Europe", Peter Walker, PLM • "Urban resilience to extreme weather - climate service", Saskia Buchholz, DWD • "Seasonal preparedness", Stavros Solomos, NOA • "Monitoring fishing activity", Aida Campos, IPMA

Description of the activity	A 1-day country workshop focussed on Malta and the climate and water sectors, attended by 70 people.
Objective of the activity	To raise awareness of the benefits of using satellite EO based on the thematic priorities of the MCST, the workshop will showcase some of the e-shape pilots related to facing climate change impacts and better managing urban areas; and secondly, to identify participants who would wish to engage with the presenters after the workshop.
Community	Atmosphere & Climate Built environment Water & Marine
Stakeholders present	Government, public sector and research communities.
Connections identified	Relation with EUSPA, Transport government of Malta, MCST.
Promotion to the community	General promotion of e-shape and the pilots of relevance for the needs of public administrations and private companies in Malta.
Take aways	User uptake level 1 for all pilots to expand with 1-1 follow-up meetings. S7P2 user uptake L1-L2 with MCAST (Malta College of Arts, Science and Technology). An important take away for the parties organising the workshops is when attendees are eager to become members of the associations. It is the case with a private company in the agriculture sector that wishes to become a member to know more about accessing EU fundings.