

Coordinating and integrating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans and Developing Links with GEO related initiatives towards GEOSS



Deliverable D6.10 Final Report on Dissemination Activities

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Acronyms and Abbreviations

Acronym	Description
DAB	Discovery and Access Broker
DM	Dissemination Manager
EM	Exploitation Manager
EO	Earth Observations
GAW	Global Atmosphere Watch
GCI	GEOSS Common Infrastructure
GGO	Greek GEO Office
LO	Liaison Office
LOr	Liaison Officer
LOs	Liaison Office Secretary
NOA	National Observatory of Athens
OB	Objective
PC	Project Coordinator
PCT	Project Coordination Team
PO	Participating Organization
RC	Regional Coordinators
RDH	Regional Data Hub
RoI	Region of Interest
WMO	World Meteorological Organization



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1 Executive Summary

The current report covers the dissemination and outreach activities undertaken by GEO-CRADLE project consortium partners over the duration of the project, between February 2016 and November 2018.

The overarching objective of the GEO-CRADLE project has been to create a multi-regional coordination network that would support the effective integration of Earth Observation (EO) capacities and promote the uptake of EO services and data in support of regional and local needs in the Balkans, North Africa and Middle East regions. From the outset, the project has aimed to raise awareness on the European Copernicus Earth Observation programme, as well as promote the concrete integration of existing EO capacities across the regions into a coherent regional Data Hub. Drawing on these objectives, dissemination and outreach, alongside building on existing efforts and projects have been part and parcel of the project consortium's activities. Such activities were conducted alongside the diffusion of pilot project results and the created Regional Data Hub, to partner organisations, research institutions, managers and decision makers, international networks, public policy bodies, funding agencies including the European Commission and the general public at large. The current document is based on partners' reports on their activities, as well as the data collected in the "D6.9: Final Report on Communication Strategy and Action activities". Partner reports were collected through an online questionnaire (available [here](#)). Throughout the project's lifetime, partners were asked to report on their dissemination activities every six months and were asked to describe their dissemination activities, the channels used, the target group reached and the region of interest covered.

In terms of dissemination and outreach project consortium partners have:

- Actively participated in national, international and thematic events (131 reported events by project partners reaching more than 6,000 people worldwide);
- Shared and exchanged news and information with their communities and partners about project related activities, events and EU funding opportunities for research and development through online and offline modes;
- Built an online Regional Networking Platform which includes raw data providers, intermediate users/service providers, end-users from Industry, academic and public sector stakeholders. As of November 2018, the online platforms counts 270 stakeholders' profiles 29 countries from the



region of interest and beyond, thus exceeding its planned KPIs of 50-60 regional EO actors profile available through the portal and countries represented (expected KPIs 14-15 for countries represented in GEO-CRADLE Network). Based on open data principles, the platform is fully available [online](#);

- Participated in clustering activities with other projects and initiatives (e.g GEOSS, AfriGEOSS, ConnectinGEO, Copernicus Support Office, NextGeoss, FabLab, PanAfGeo, Excelsion2020 etc.);
- Developed a comprehensive set of dissemination materials including project website, brochures, posters, flyers and other marketing materials; 2,000 copies of communication material in conferences and events;
- Identified and connected with the main channels for communication of the project's main target groups including social media (Facebook, Twitter, LinkedIn) and newsletters mailing lists (over 3,500 readers reached) etc;
- Published over 30 scientific partners and articles based on GEO-CRADLE data and pilot project results;
- GEO-CRADLE project website registered over 7,800 users and was translated in Turkish, Albanian, Serbian and Arabic in addition to English.

The current document covers the following sections:

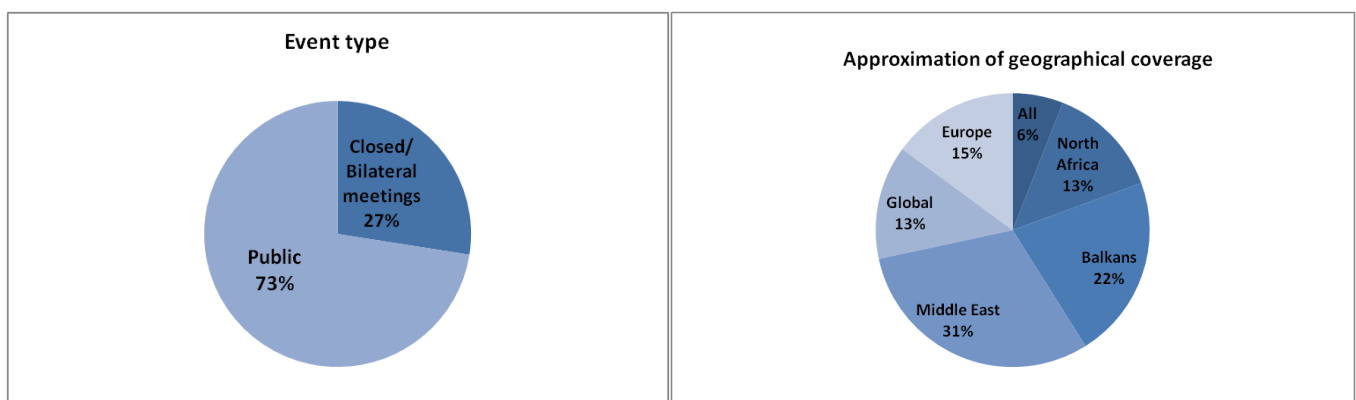
Section 2 covers dissemination activities undertaken by project partners, specifically the events and workshops reached and/or organised. Since February 2016, project partners have disseminated information on GEO-CRADLE activities and pilot projects results within 131 reported events, which have reached more than 6,000 people. In addition, 17 regional/national workshops/technical meetings were organised within the project, thus exceeding the preliminary KPIs of targeted events (7-10 expected meetings during the project). **Section 3** covers social media networks activities while **Section 4** looks at the online and offline articles, newsletters and scientific publications covered by the project and **Section 5** analyses the online access to the project's website, portal and data services. **Section 6** reviews the monitoring and success indicators of the project. **Section 7** presents the conclusions of the dissemination activities.



2 Dissemination activities

2.1 Events, workshops and exhibitions

Between February 2016 and November 2018 (M0-M30) an extensive series of conferences and meetings have been reported by project partners. They covered public, internal and external B2B meetings, as well as participation in exhibition spaces and university lectures. Drawing on the information collected from project partners, a total of 131 events, public and/or bilateral meetings, workshops and lectures were covered by project partners, within the three regions of interest, as well as globally. Seventy three percent of these were public events, whilst 27% are represented by closed/bilateral/internal meetings. In some cases, such meetings were particularly focused on identifying user needs and tailoring the pilot project services developed during the project's lifetime. According to the reports gathered by Eurisy from partners, GEO-CRADLE has been disseminating to over 6,000 people through events and workshops. However, we expect this number to be much higher as not all the partners reported data on attendance statistics (less than 50% of project consortium reported). For the purpose of this deliverable we have also tried to estimate the regional coverage of events below. Nonetheless, these remain broadly general as geographic attendance and delegates participations tend to generally overlap considerably (for example, an event taking place in Turkey can be counted as belonging to the Middle East region, whilst participants, depending on their country of residence, can cover all three regions). As such, on a general note, although one could note that fewer events and workshops have taken place in the North Africa region, despite lower numbers in events, project partners in the region have reported and benefited from media coverage in larger numbers, either through papers and/or articles, both in online and offline modes.





Throughout the duration of the project the project consortium has also exceeded its expected KPIs in terms of dissemination dedicated events. Whilst at the beginning of the project proposal, seven to ten regional events have been planned out to be organised during the project's lifetime, the consortium brought this number to a total of 17 regional workshops, which included the facilitation of the organisation of the 3rd South-Eastern Europe GEO Workshop in 2018.

GEO-CRADLE events in particular have contributed not only to awareness raising of the project, but also to building new relationships in the regions that should help support closer ties within the downstream value-chain and GEOSSS, as well as with the end-users. In addition, GEO-CRADLE events have also largely acted as a related to the promotion of the Copernicus Earth Observation services, as well as the funding opportunities available for the RoI, such as Horizon2020 or the Prima Initiative. Moreover, the diversity in topics and thematic covered, showcase the project's success in reaching all the proposed target group audiences (research and academic community, EO industry, end-Users of EO services, decision makers, media, as well as the general public). This diversity of themes also showcases the cross-sectorial use of pilot projects results and data and its potential to trickle down and feed into areas and regions outside those covered by the project (improved food security, access to raw materials and energy, and adaptation to climate change in the North-African, Middle-East, and Balkan regions). The full list of events attended, facilitated, organised and supported by the project consortium members are available in **Annex I**.



3 Social Networks

@Geo-Cradle is present on Twitter, Facebook and LinkedIn. The project's social media accounts have experienced a positive growth throughout the project's duration, with Twitter leading the way as the most impactful dissemination tool. Twitter was also the most extensively used during events and workshop, with more interaction with the partners' own personal accounts. On numerous occasions dissemination efforts were boosted by the use of project partner's personal accounts. The use of social media platforms, be it Twitter, Facebook or LinkedIn varies however across the three regions. Social media platforms were used to share updates on project regional workshops or embedded events, as well as to disseminate the project newsletter and the surveys related to inventorying capacities in the three regions of interest.

3.1 Twitter

@GeoCradle was established in Twitter in 2016. By November 2018, the activity on the account had more than doubled since the first 15 Months of the project and the Mid-term Dissemination report. As of November 2018 the account registered:

- 421 Followers (up from 170 followers at M15)
- 281 Twitter account users
- @GeoCradle has launched 820 tweets since February 2016
- @GeoCradle has registered 645 Likes in the same period

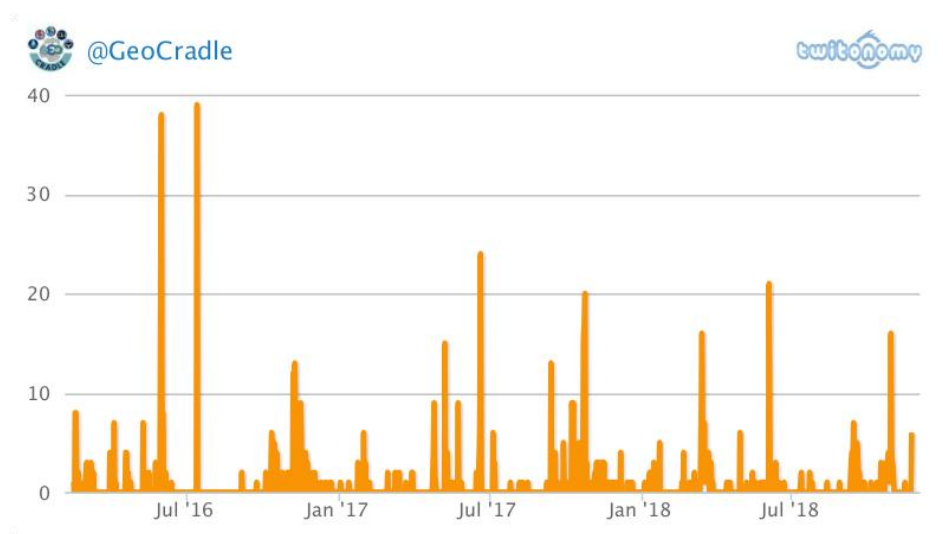




Fig.1.Screenshot Twitonomy Geo-Cradle account activity Feb 2016-Nov 2018

The graph above (<http://www.twitonomy.com/>) covers the 30 months of account activity and showcases peaks that can be correlated with major international event and/or workshops organised within the project.



Fig.2 Twitonomy Geo-Cradle account activity Feb 2016-Nov 2018 most retweets

As observed from the Tweet activity user report above, engagement and reach was substantially increased when dissemination multipliers have been used (e.g. other organisations, existing networks or trending hashtags). In this case, @GeoCradle has been closely linked with those of the GEO Secretariat, Eurisy and Excelsion2020 Horizon2020 project. Among project partners, Eurisy, EARSC, Tubitak, IBec, EvenFlow and InoSens have been the most active users in disseminating @GeoCradle communication, thus showcasing a coordinated dissemination support amongst partners.










		Tweets	Followers	Listed	
	@GeoCradle GeoCradle	820	421	22	131 mentions 292 retweets 703 favorites
	@Eurisy1 Eurisy	3,008	1,642	190	57 mentions 168 retweets 248 favorites
	@earsc earsc	3,042	2,928	137	50 mentions 156 retweets 266 favorites
	@AzizKoru Aziz Koru	565	145	13	37 mentions 41 retweets 98 favorites
	@interbalkan_env i-BEC	564	171	13	20 mentions 15 retweets 53 favorites
	@evenflow_eu Evenflow	256	191	4	16 mentions 35 retweets 76 favorites
	@InoSens_rs InoSens	633	650	52	15 mentions 19 retweets 44 favorites

Fig.3 Twitonomy Geo-Cradle account activity Feb 2016-Nov 2018 active users

Connecting @GeoCradle to trending hashtags has also played a positive role in network increase and engagement and connecting the project and its followers to actions and activities much broader than their own. The results below also suggest the positive impact of using a live twitter wall during events. In this case, the hashtag #novigeo set up by Eurisy during the 2nd Regional GEO-CRADLE Workshop on “Accelerating EO-powered businesses and market take-up” which took place in Novisad, Serbia has remained the top #hashtag used in correlation with @GeoCradle throughout the duration of the project.



Hashtags most used

#novigeo	23	#geoweek18	19
#geoweek17	17	#eo	14
#egw2017	13	#gepw16	8
#eurogeoss	6	#geoweek16	4
#horizon2020	4	#egw2018	4

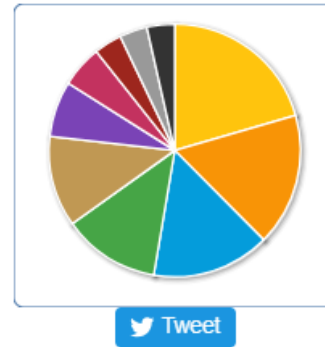


Fig.4 Twitonomy Geo-Cradle account activity Feb 2016-Nov 2018 hashtags most used

In terms of Twitter activity and re-tweets, Twitonomy analytics shows that on average 62% of the accounts Tweets have been re-tweeted and the account has engaged with 337 other Twitter users since its launch. In addition, @Geocradle has been mentioned in 482 other tweets coming from 84 users. The total aggregate number of followers of the people who mentioned @GeoCradled overpasses 1 Million users according to Twitonomy.

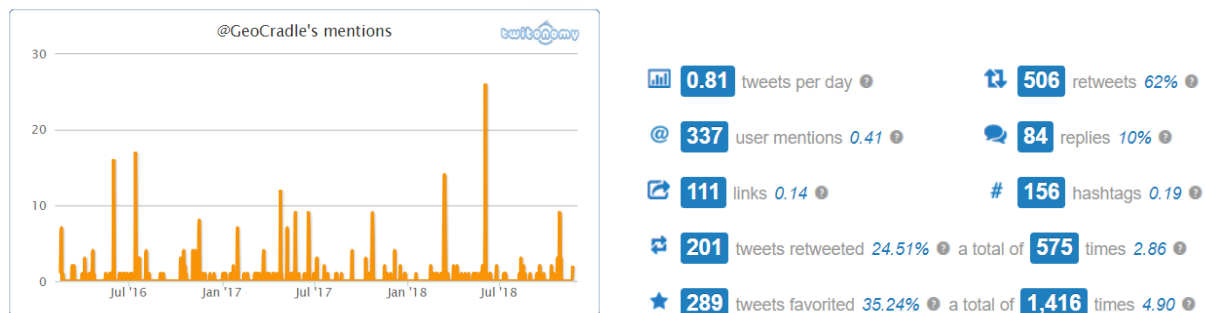


Fig.5 Twitonomy Geo-Cradle account activity Feb 2016-Nov 2018 mentions statistics

Between February 2016 and November 2018 the below communication has enjoyed the most coverage on @GeoCradle's account.



🔄 Tweets most retweeted



Fig.6. Twitonomy Geo-Cradle account activity Feb 2016-Nov 2018 top tweets

3.2 Facebook

The @Geocradle account was set up on February 1st 2016 and it has been subsequently used since then to share GEO-CRADLE news and event photos, as well as to communicate on consortium partner's activities and other Horizon2020 projects, thus in turn becoming a multiplier in its own right. Since the Mid-term report the number of followers has also more than doubled, from 97 Likes at M15 to 224 Likes at M30. The main followers of the GEO-CRADLE page on Facebook consist of members of the partner organisations of the project. According to the latest Facebook Insights data, the page reaches on average 200 people per day (according to data analytics from Oct 26, 2018 - Nov 22, 2018). In the same period @GeoCradle posts have reached 896 people. The below statistics captured from Facebook Insights provide us with a glimpse into the project's reach.

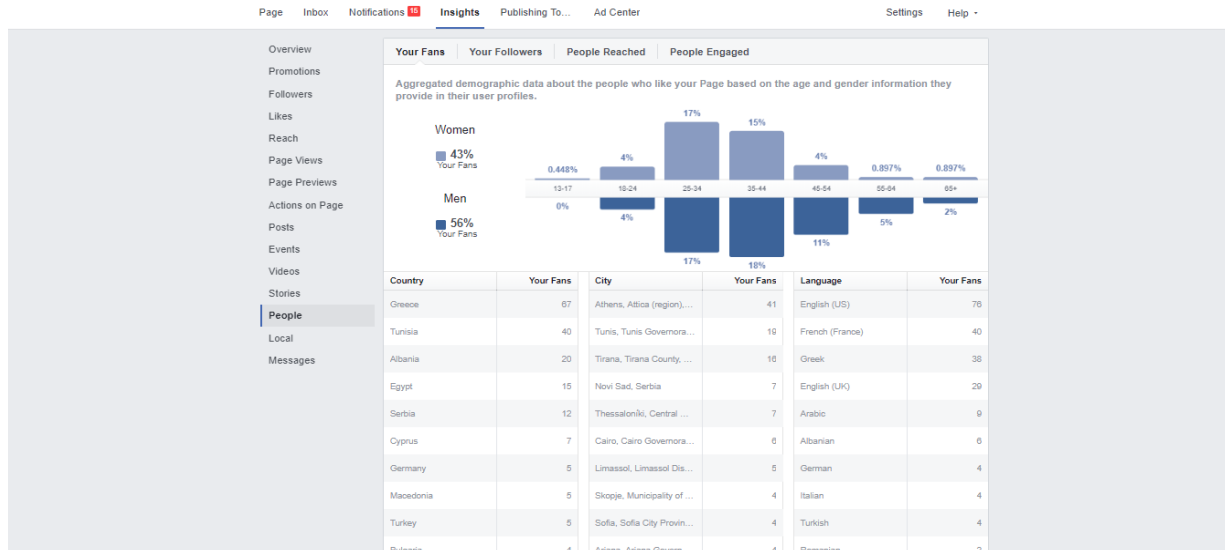


Fig.7. Facebook Insights Geo-Cradle account activity Feb 2016-Nov 2018 gender, country coverage

3.3 LinkedIn

On LinkedIn, a page for the project was launched into the second half of the project (available [here](#)). The page gathers personal accounts of experts, researchers, decision makers that make-up the project’s extensive network. Despite the later launch, since LinkedIn is more intensively used by partners than Twitter and/or Facebook to relay professional activities, the page has grown to gather 172 connections in approximately 17 months.



GEO-CRADLE Program • 1st
 European Program funded by H2020. Project Coordinator Dr. Haris Kontoes, Research Director at NOA, Greece.
 Greece

H2020
 See contact info
 See connections (172)

Fig.8. LinkedIn Geo-Cradle account homepage



4 Publications

4.1 GEO-CRADLE newsletter

Between February 2016 and November 2018, four quarterly digital newsletters (8 in total) in English have been produced, providing information on the project and its progress. The content of the Newsletters contains six main sections: Events, GEO-CRADLE Outcomes, Outreach, GEO & Copernicus session and event's calendar. The newsletters were distributed to a diverse audience of 3590 recipients, largely based on NOA's internal database, reaching the goal to disseminate the project activities among all the involved target groups (research and academia, EO industry, decision makers, end-users of EO services, media and the public). The online version on the newsletters can be accessed in the section below dedicated to online media. Furthermore, GEO-CRADLE events and news have also been subsequently included in Eurisy and partner newsletters (e.g. EARSC).

4.2 Online media coverage

The following publications have been edited over the period February 2016 – November 2018.

Source	Article	Rol	Target Group	Reach	Type of publication
EARSC EO Magazine	<u>EARSC will participate at the GEOCRADLE project workshop</u>	Europe and beyond	Industry/Inter mediate -users Decision makers (non-space)	Distribution: 1500 stakeholders worldwide 2500+ active readers	Articles in industry-specific publication



	<p><u>From data sources to end-users- The road for sustainable capacity building in the Balkans, Middle East and North Africa</u></p> <p><u>Interview GEO-CRADLE Project Manager, Haris Kontoes</u></p>	Global			
	<p><u>EARSC is now a GEO Participating Organization!</u></p> <p><u>GEO-CRADLE Project Survey: last days to fill out the survey!</u></p>				
	<p><u>Online article on the session session “Leveraging EO services to help monitoring SDGs, the industry contribution” took place in the framework of the <u>European GEO projects workshop</u> from 19-21 June 2017 in Helsinki.</u></p> <p><u>Online article on the workshop “Improving EO services industry involvement in EU space programmes and initiatives” organised by EARSC with the support of the European Commission was held on 26 April 2017 in DG-GROW in Brussels</u></p> <p><u>Online article on the launch of the launch of the GEO-CRADLE Networking Platform</u></p>	Global	Service providers, private companies	<p>Distribution: 1500 stakeholders worldwide 2500+ active readers;</p> <p>Newsletter sent to 3000 people;</p> <p>Website 10,000 pages views/ month</p>	Online Articles



	<p>Several article disseminating information about the GEO-CRADLE workshops</p> <p>http://eomag.eu/articles/3774/geo-cradle-networking-event-03-01-2017-chinau-moldova</p> <p>http://eomag.eu/articles/3830/geo-cradle-regional-workshop</p>	Balkans, North Africa, Europe	Industry, downstream		
EARSC	<p><u>Blog article on GOE-Week 2018</u>, by EARSC Secretary General Geoff Sawyer</p>	Global	Service providers	N/A	Blog post
Inosens	<p><u>EU Project GEO-CRADLE Successfully launched</u></p> <p><u>GEO-CRADLE Novi Sad Event Article</u></p> <p><u>Connecting the dots across the Earth Observation value chain</u></p> <p><u>GEO-CRADLE Novi Sad: Connecting the dots across the Earth Observation value chain (EN&SR)</u></p> <p><u>Blog story</u> on the of the gap analysis work within Geo-Cradle</p>	Balkans	User community, SMEs, GIS community	Approx. 500 unique visitors for both languages	Blog post
Eurisy	<p><u>Newsletter 76, June 2016</u></p> <p><u>Newsletter 75, May 2016</u></p> <p><u>Newsletter 77, October 2016</u></p>	Balkans, North Africa, Middle	User community, space community	7000+ contacts	Newsletter



	<u>Newsletter 79, March 2017</u> <u>Newsletter 82, April 2018</u> <u>Newsletter 83, May 2018</u>	East			
NOA	<u>GEO-CRADLE Newsletter, Issue #1 May 2016</u> <u>GEO-CRADLE Newsletter, Issue #2 June 2016</u> <u>GEO-CRADLE Dissemination Activities in North Africa</u> <u>GEO-CRADLE Newsletter, Issue #3 October 2016</u> <u>GEO-CRADLE Newsletter #4, March 2017</u> <u>GEO-CRADLE Newsletter #5, July 2017</u> <u>GEO-CRADLE Newsletter #6, September 2017</u> <u>GEO-CRADLE Newsletter #7, January 2018</u> <u>GEO-CRADLE Newsletter #8, August 2018</u>	Balkans, North Africa, Middle East	Decision-makers, academia and research, industry		Newsletter
GEO	<u>GEO-CRADLE establishes network and Data Hub for Earth Observation in MENA and the Balkans</u>	Global	Research community, downstream and upstream industry	-	e-news
BalkanWeb	<u>GEO-CRADLE Project Launch</u>	Balkans	Research community,		e-news



			downstream and upstream industry, decision-makers		
Horizon2020 Bulgaria	<u>EU project GEO-CRADLE successfully launched with the aim to establish a network of stakeholders and a Data Hub for Earth Observation (EO) in North Africa, Middle East and the Balkans</u>	Balkans	Decision-makers, academia and research, industry		e-news
GSDI (Global Spatial Data Infrastructure)	<u>GEO-CRADLE establishes network and Data Hub for Earth Observation in MENA and the Balkans</u>	Global	Decision-makers, academia and research, industry		e-news
10th GEO European Projects Workshop 2016.	<u>Regional dimension for GEO and capacity building priorities</u> The report was disseminated to project partners and their networks, and to participants to the workshop	Global	Workshop participants, EC, Geo-community	Research community, decision makers	Report
IPB Serbia	<u>Interview Dr. Slobodan Nickovic and Bojan Cvetkovic published in Serbian Magazine Biznis & Finance (Biznis i Finansije)</u>	Balkans	Scientific and academic community End users Decision makers (non-	Interview featured in on- and offline versions of magazine.	Article in industry-specific publication



			space)		
GEO-CRADLE Workshop	<p><u>Workshop report “Accelerating EO-powered businesses and market take-up”</u></p> <p>The report was disseminated among project partners who were encouraged to share it among their peers.</p>	Balkans	<p>Scientific and academic community</p> <p>Industry/Inter mediate -users</p>	<p>Research community, decision makers</p>	Report
INOE	<p><u>Booklet</u> Romanian projects and initiatives in support of Earth Observation</p> <p>The booklet was shared with participants during a locally organised event in Bucharest.</p>	Balkans	<p>Scientific and academic community</p>	<p>Research community, decision makers</p>	e-document
Space Research and Technology Institute/ Geomedia magazine	<p>Three articles (in Bulgarian). The articles were published on http://www.geomedia.bg/</p>	Balkans	<p>Academia, industry, downstream</p>	N/A	On-line publications
EGS Website	<p>Information about EuroGeoSurveys activities in Geo-Cradle</p> <p>http://www.eurogeosurveys.org/</p>	Balkans, North Africa, Europe	<p>Research and academia, industry and downstream, end-users and decision makers</p>		On-line articles
Geo-Cradle	<p>Translation of the project website</p>	Balkans	<p>Research and</p>		Project



website, Serbian version by Institute of Physics Belgrade	http://geocradle.eu/sr/		academia, industry and downstream, end-users and decision makers		website
Institute of Physics Belgrade website	http://www.envpl.ipb.ac.rs/	Balkans	Mostly research community and academia		On-line articles
BN TV (by Institute of Physics Belgrade)	<p>Interview with IPB partner related to the regional activities on Adaptation to Climate Change and Energy was broadcast on BN television in Bosnia and Herzegovina.</p> <p>http://www.rtvbn.com/3857352/balkan-osjetljiv-na-klim-promjene (web version)</p> <p>Promotion of GEOCRADLE tools RDH and Networking Platform together with opportunity for better sharing of information and knowledge among EO stakeholder in the region as one of the GEOCRADLE goals is presented.</p>	Public	General public	BN TV is one of the leading regional broadcaster having notable social impact in most of Balkan countries, especially in Bosnia and Herzegovina and Serbia	TV broadcast
Serbian Magazine	The GEO-CRADLE project and its objectives are presented together with	Balkans	General public,	Business & Finance	Online article



Business & Finance (by Institute of Physics Belgrade)	<p>related regional activities focused on Adaptation to Climate Change.</p> <p>http://bif.rs/2017/01/meteorologija-u-sluzbi-privrede-univerzalni-salter-za-prognoze/</p> <p>Business and Finance is a monthly magazine for the business community and attracts various readers also interested in economic aspects of culture, marketing, IT and science.</p>		<p>decision makers</p>		
Institute of Physics Belgrade	<p>Serbian Scientific TV (by Institute of Physics Belgrade)</p> <p>https://www.youtube.com/watch?v=O79eyzIPxnM&feature=youtu.be</p>	<p>Balkans</p>	<p>Research and academic communities, general public</p>	<p>Serbian Scientific TV is a unique broadcaster for science, culture and art popularisation and promotion.</p>	<p>TV broadcast and part of an online documentary</p>
	<p><u>Online article</u> on IPB's webpage (published on 11.07.2017)</p>	<p>Balkans</p>	<p>Research community</p>	<p>N/A</p>	<p>Online article</p>
	<p>Presentation of the GEO-CRADLE Regional Data Hub on Agro TV. The article is available online here (published on 06.12.2017)</p>	<p>Balkans</p>	<p>Research community, end-users</p>	<p>N/A</p>	<p>Online article</p>



<p>Serbian science TV -Part of the documentary on IPB center of excellence for non-equilibrium processes and activities within GEOCRADLE project can be found on online here (Broadcasted 20.03.2018)</p>	<p>Balkans</p>	<p>Downstream, end-users, general public</p>	<p>N/A</p>	<p>TV broadcast</p>
<p>RTS national broadcast TV Documentary on dust intrusion over Balkan region and GEOCRADLE role has been presented. The documentary is available online here (Broadcasted 19.01.2018)</p>	<p>Balkans</p>	<p>Research community, Downstream, end-users, general public</p>	<p>N/A</p>	<p>TV broadcast</p>
<p>IPB is interviewed in Politika Serbian newspaper. The scan copy of the article can be found here (Published on 04.04.2018) In this article the GEO-CRADLE project and its objectives are presented together with related regional activities focused on Adaptation to Climate Change and the specific role of mineral dust in climate system.</p>	<p>Balkans</p>	<p>Downstream, end-users, general public</p>	<p>N/A</p>	<p>Newspaper article</p>
<p>IPB is interviewed in the Novosti Serbian newspaper. Numerical modeling of dust particles and the GEOCRADLE activities in the region have been presented. The scan version of the article can be found here (published on 14.01.2018)</p>	<p>Balkans</p>	<p>Downstream, end-users, general public</p>	<p>N/A</p>	<p>Newspaper article</p>



	<u>Online article</u> on IPB's website (published on 18.06.2018)	Balkans	Research community	N/A	Online article
CEDARE	A dedicate website has been set up to present the pilot project SENSE and the updated Solar Atlas of Egypt. This can be accessed online <u>here</u> .	North Africa, Middle East	All	N/A	Website
	<u>Online article</u> (in Arabic) announcing the launch of the Egypt Solar Atlas.	North Africa, Middle East	Downstream, end-users, general public	N/A	Online article
	<u>Online article</u> (in Arabic) on the use of the Solar Power Atlas for the installation of solar panels on a local hospital	North Africa, Middle East	Downstream, end-users, general public	N/A	Online article
	<u>Interview (in Arabic)</u> of Prof El-Askary, Hesham from CEDARE on the Egypt Solar Atlas	North Africa, Middle East	Downstream, end-users, general public	N/A	Online article
	<u>Online article (in Arabic)</u> with the Ambassador Nabila Makram, Minister of State for Migration and Foreign Affairs of Egypt as she received the printed Solar Atlas.	North Africa, Middle East	Downstream, end-users, general public	N/A	Online article
	<u>Online article (in Arabic)</u> on presenting the Solar Atlas at the celebration of the University of Alexandria diamond Jubile	North Africa, Middle East	Downstream, end-users,	N/A	Online article



	ceremony.	East	general public		
European Commission	Online article " <u>Europe's eyes in the sky are helping to solve energy, land-use problems in Africa</u> " in the EU Commission's Research and Innovation "Horizon2020" Magazine	Global	Research community, General public	N/A	Online article

4.3 Scientific papers and articles

	Authors	Name & Source	Year
1	Dimitropoulou, E., Assimakopoulou, V.D., Fameli, K.M., Flocas, H., Kosmopoulos, P.G., Kazadzis, S., Lagouvardos, K., and Bossioli, E.	<u>Estimating the biogenic non-methane hydrocarbon emissions over Greece</u> (Atmosphere (MDPI) 9, 14, doi:10.3390/atmos9010014)	2018
2	Kosmopoulos, P.G., Kazadzis, S., Taylor, M., Raptis, P.I., Kontoes, C., El-Askary, H., Keramitsoglou, I., and Kiranoudis, C.	<u>The Solar Energy Nowcasting SystEm (SENSE): Pilot applications and validation of results</u> (EMS Annual Meeting 2017, Vol. 14, EMS2017-50, 4-8 September, Dublin, Ireland)	2017
3	Kosmopoulos, P.G., Kazadzis, S., El-Askary, H., Kontoes, C., Keramitsoglou, I., and Kiranoudis, C	<u>EO-based solar energy applications into a wider GEOSS driven system through the GEO CRADLE project in the international scale</u> (Geophysical Research Abstracts, 20, EGU2018-9402, 2018)	2018
4	Kosmopoulos, P.G., Kazadzis, S., Kontoes, C., El-Askary, H., Zografos, D., and Krestos, G.	Access to solar energy applications using EO data through GEO activities: validation and demonstration of the SENSE system (<u>38th Annual EARSeL</u>	2018



		Symposium, ID 214, Chania, Greece, July)	
5	Kosmopoulos, P.G., Kazadzis, S., and El-Askary, H.	<u>"The Solar Atlas of Egypt"</u> A book submitted in the framework of the GEO-CRADLE project with the support of the Ministry of Electricity and Renewable Energy and the New and Renewable Energy Authority of Egypt	2018
6	Bojan Cvetkovic, Luka Ilic, Fabio Madonna, Daniel Weber, Slobodan Nickovic, Ana Vukovic, Goran Pejanovic, Jugoslav Nikolic, Heinz Bingemer, Mirjam Vujadinovic, and Vladimir Djurdjevic,	<u>Modeling heterogeneous ice nucleation due to mineral dust using Dust Regional Atmospheric Model (DREAM-NMME)</u> ", (Geophysical Research Abstracts, Vol. 20, EGU2018-10050, 8-13 April, Vienna, Austria)	2018
8	Slobodan Nickovic, Bojan Cvetkovic, Goran Pejanovic, Luka Ilic, Pavla Dagsson-Waldhauserova, Olafur Arnalds, Sigmundur Helgi Brink, Jugoslav Nikolic, and Slavko Petkovic	<u>Predicting atmospheric dust process from Icelandic soil sources Preliminary results</u> , (Geophysical Research Abstracts Vol. 20, EGU2018-10338, 8-13 April, Vienna, Austria)	2018
9	Slobodan Nickovic, Bojan Cvetkovic, Goran Pejanovic, Luka Ilic, Pavla Dagsson-Waldhauserova, Olafur Arnalds, Sigmundur Helgi Brink, Jugoslav Nikolic, and Slavko Petkovic,	<u>Predicting atmospheric dust process from Icelandic soil sources Preliminary results</u> , (Geophysical Research Abstracts Vol. 20, EGU2018-10338, 8-13 April, Vienna, Austria, 2018)	2018
10	Slobodan Nickovic, Bojan Cvetkovic, Luka Ilic, Goran Pejanovic, Slavko Petkovic, Fabio Madonna, Marco Rosoldi, Daniel Weber, Heinz Bingemer and Jugoslav Nikolic	<u>Role of mineral dust in cloud formation: modelling aspects</u> (9th International Workshop on Sand/Duststorms and Associated Dustfall, 22-24 May, Tenerife, Spain)	2018
11	Kosmopoulos, P. G., Kazadzis, S., Taylor, M.,	<u>Dust impact on surface solar irradiance assessed with</u>	2017



	Athanasopoulou, E., Speyer, O., Raptis, P. I., Marinou, E., Proestakis, E., Solomos, S., Gerasopoulos, E., Amiridis, V., Bais, A., and Kontoes, C	<u>model simulations, satellite observations and ground-based measurement</u> (Atmos. Meas. Tech., 10, 2435-2453)	
12	Raptis, P.-I., Kazadzis, S., Gröbner, J., Kouremeti, N., Doppler, L., Becker, R., and Helmis, C.	<u>Water vapour retrieval using the Precision Solar Spectroradiometer</u> (Atmos. Meas. Tech., 11, 1143-1157)	2018
13	Kosmopoulos, P. G., Kazadzis, S., Taylor, M., Raptis, P. I., Keramitsoglou, I., Kiranoudis, C., and Bais, A. F.	<u>Assessment of surface solar irradiance derived from real-time modelling techniques and verification with ground-based measurements</u> (Atmos. Meas. Tech., 11, 907-924)	2018
14	Ogen, Y., Neumann, C., Chabrillat, S., Goldshleger, N., and Ben Dor, E.	Evaluating the detection limit of organic matter using point and imaging spectroscopy (Geoderma 321, 100–109)	2018
15	Nisantzi A., Mamouri R., Hadjimitsis D.G., Buehl J., Seifert P., Ansmann A	Abstract <u>Dust observations at ERATOSTHENES Research Centre: Cyprus in the middle of African-Asian Dust belt</u> , European Lidar Conference, July, Thessaloniki, Greece	2018
16	Mamouri R-E, Ansmann A., Nisantzi A., Bühl J., Seifert P., and Hadjimitsis D	Abstract <u>Strategic positioning of the ERATOSTHENES Research Centre for dust-related field studies in the center of the African-Asian dust belt</u> , Dust Workshop, May, Tenerife, Spain	2018
17	Mamouri R-E, Ansmann A., Bühl J., Engelmann R., and Hadjimitsis D	Abstract <u>Closure studies in mixed-phase and ice clouds over Cyprus: Is there any agreement between ice nuclei and ice crystal number concentration?</u> , International conference of Remote Sensing	2018



		(RSCy2018), March 2018, Pafos, Cyprus	
18	Nisantzi A., Mamouri R-E., Basart S., Baldasano J.M., Ansmann A., and Hadjimitsis D.	Four years Lidar observations and model simulations for desert dust intrusions over eastern Mediterranean”, Forth International Conference on Remote Sensing and Geoinformation of Environment, (RSCy2016), April, Pafos, Cyprus	2016
19	Mamouri R-E, Nisantzi A., Ansmann A., Hadjimitsis D.G	<u>Extreme dust storm over the eastern Mediterranean in September 2015: Lidar vertical profiling of desert dust at Limassol</u> , Forth International Conference on Remote Sensing and Geoinformation of Environment’, International conference of Remote Sensing (RSCy2016), April, Pafos, Cyprus	2016
20	Stefouli M.	<u>Optimization of Sentinel 2 data for supporting Geological Mapping and Monitoring of Mining Areas</u> , Pages 98 -100, 7th Digital Earth Summit (DES-2018): “The Digital Earth for Sustainable Development in Africa”, April, El Jadida, Morocco	2018
21	Poyiadji, E., Stefouli, M., Przyłucka, M., Wołkowicz, S., Kowalski, Z. Hadjigeorgiou C. & Woroszkiewicz M.	<u>Introduction of Remote Sensing Methods for Monitoring the Under Restoration Amiantos Mine, Cyprus</u> , Sixth International Conference on Remote Sensing and Geoinformation of Environment (RSCy2018), March, Paphos, Cyprus	2018
22	Nikolaos L. Tsakiridis, Nikolaos Tziolas, Agathoklis Dimitrakos, Georgios Galanis, Eleftheria Ntonou, Anastasia Tsirika, Evangelia Terzopoulou, Eleni Kalopesa, George C. Zalidis,	<u>Predicting soil properties for sustainable agriculture using vis-NIR spectroscopy: a case study in northern Greece</u> , Fifth International Conference on Remote Sensing and Geoinformation of the Environment	2017



		(RSCy2017), March, Paphos, Cyprus	
23	Slobodan Nickovic, IPB	Abstract <u>Atmospheric mineral dust as the most abundant aerosol: modeling and impacts</u> , the sixth international WEBIOPATR Workshop & Conference Particulate Matter: Research and Management, September, Belgrade, Serbia	2017
24	Maja Kuzmanoski, Luka Ilić, Marija Todorović, Zoran Mijić	Abstract <u>A study of a dust intrusion event over Belgrade, Serbia</u> , The sixth international WEBIOPATR Workshop & Conference Particulate Matter: Research and Management, September, Belgrade, Serbia	2017
25	Tsikerdekis A., P. Zanis, A. Steiner, F. Solmon, V. Amiridis, E. Marinou, E. Katragkou, Th. Karacostas, G. Foret	Impact of dust size parameterizations on aerosol burden and radioactive forcing in RegCM4 (Atmospheric Chemistry and Physics, acp-2016-434, 17, 769–791)	2017
26	Cukaliev O., Nacka M., Tanskovik V.	Awareness of earth observation, GEO and GEOSS: A survey of the Macedonian earth observation users network, 3rd International Symposium for Agriculture and Food (ISAF 2017)	2017
27	Rodanthi-Elisavet Mamouri, Albert Ansmann, Argyro Nisantzi, Stavros Solomos, George Kallos, and Diofantos G. Hadjimitsis	<u>Extreme dust storm over the eastern Mediterranean in September 2015: satellite, lidar, and surface observations in the Cyprus region</u> (Atmos. Chem. Phys., 16, 13711-13724)	2016
28	N. L. Tsakiridis N. V. Tziolas J. B. Theocharis G. C. Zalidis	<u>A GA-based stacking algorithm for predicting soil organic matter from vis-NIR spectral data</u> (European Journal of Soil Science, doi: .1111/ejss.12760)	2018



29	Bogdan Antonescu (1), David M. Schultz (2), Jonathan G. Fairman Jr. (2), Felicia Carbutaru (3), Simona Andrei (1), and Flori Toanca (1)	Abstract <u>What we know and don't know about the societal and economic impact of severe weather events in Europe</u> , EMS Annual Meeting Abstracts, Vol. 15, EMS2018-454	2018
30	Zerefos C., J. Kapsomenakis, K., Eleftheratos, K. Tourpali, I. Petropavlovskikh, D. Hubert, S. Godin-Beekmann, W. Steinbrecht, S. Frith, V. Soeva, B. Hassler	Abstract The ranking of the effect of proxies on the space and time variability of stratospheric ozone proles, Geophysical Research Abstracts, Vol. 20, EGU2018-13062, EGU General Assembly	2018
31	Kosmopoulos, P.G.; Kazadzis, S.; El-Askary, H.; Taylor, M.; Gkikas, A.; Proestakis, E.; Kontoes, C.; El-Khayat, M.M.	Article on the GEO-CRADLE SENSE Pilot <u>Earth-Observation-Based Estimation and Forecasting of Particulate Matter Impact on Solar Energy in Egypt</u> , Remote Sensing Magazine, 10(12), 1870.	2018



5 Online Access

5.1 Project website access statistics

The project's website was launched in September 2016. According to numbers reported by Google analytics, the website has registered until mid-November 2018, approximately 16,387 open sessions and an average of 7,883 user visits. To compliment the English version of the website, during the project, the website was also launched in Serbia, Arabia, Turkish and Albanian languages in order to highlight the regional aspect of the project and also to help partners advertise the project to their national and regional stakeholders. Moreover, project partners have actively shared GEO-CRADLE events through their own institutional websites continuously. In addition to acting as a communication tool for the project's activities, the website also includes a category on the main page entitled "Funding Opportunity" which provides information on funding opportunities for the countries of the region of interest. Moreover, the webpage stands as a gateway to the Regional Data Hub which became a regional GEOSS Portal for the RoI, i.e. Balkans, Middle East and North Africa (BAMENA). Consolidated through both partner feedback and desk research, the Data Hub now includes 46 regional portals and sites with datasets freely accessible.

Total Period: 20/09/2016 - 19/11/2018

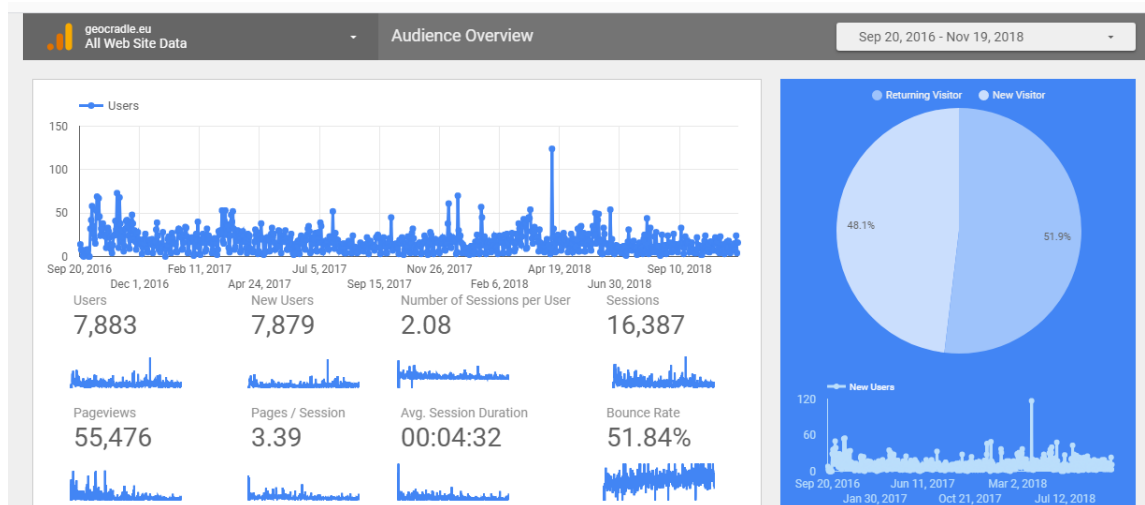


Fig.9. Google Analytics Geo-Cradle audience overview

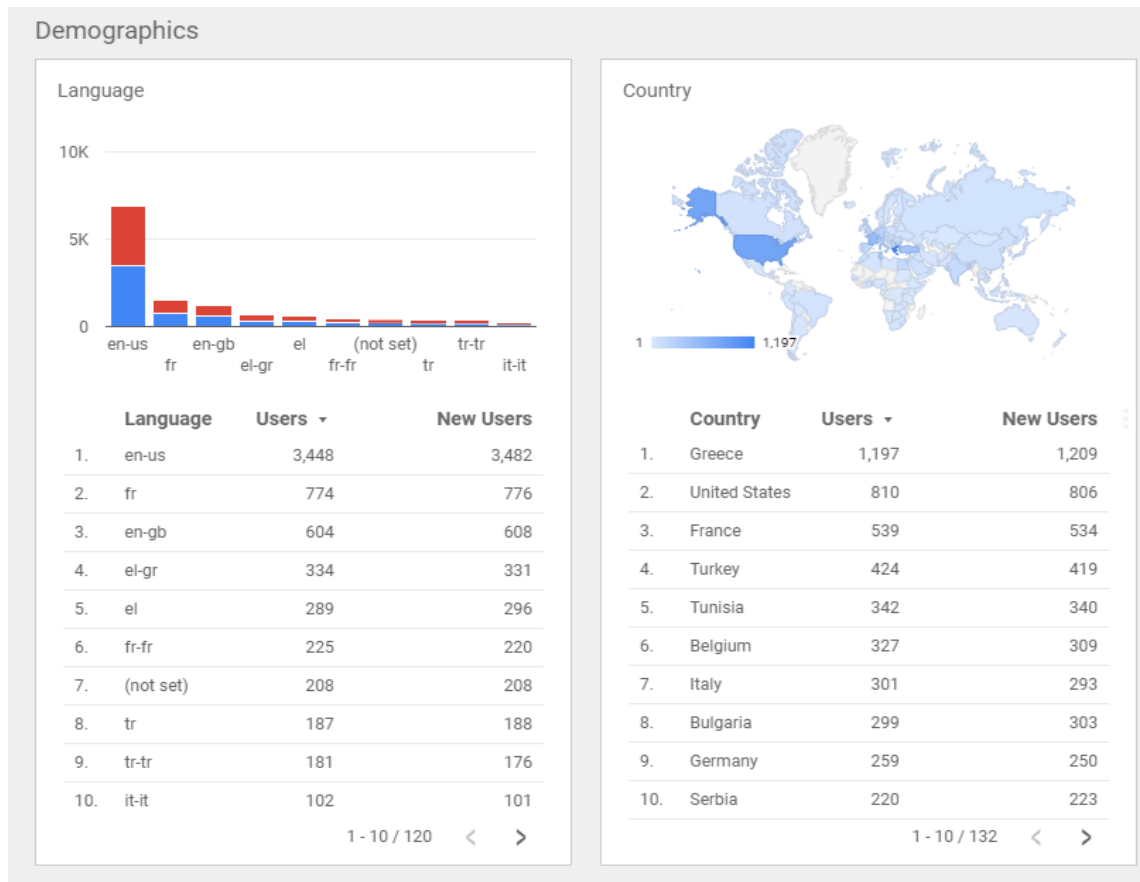


Fig.10. Google Analytics Geo-Cradle demographics overview

Period: 20/09/2016 - 28/04/2017

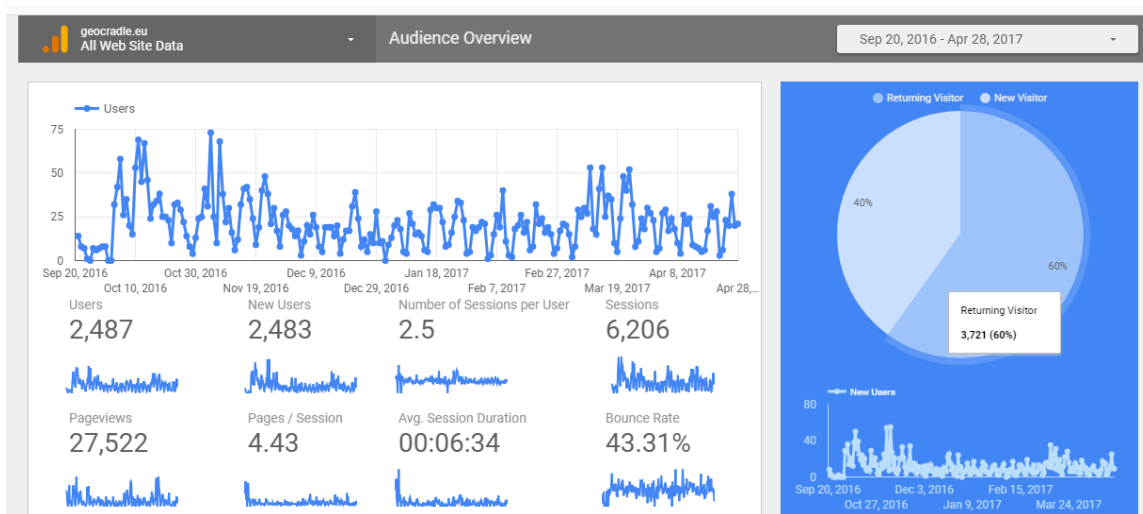


Fig.11. Google Analytics Geo-Cradle audience overview

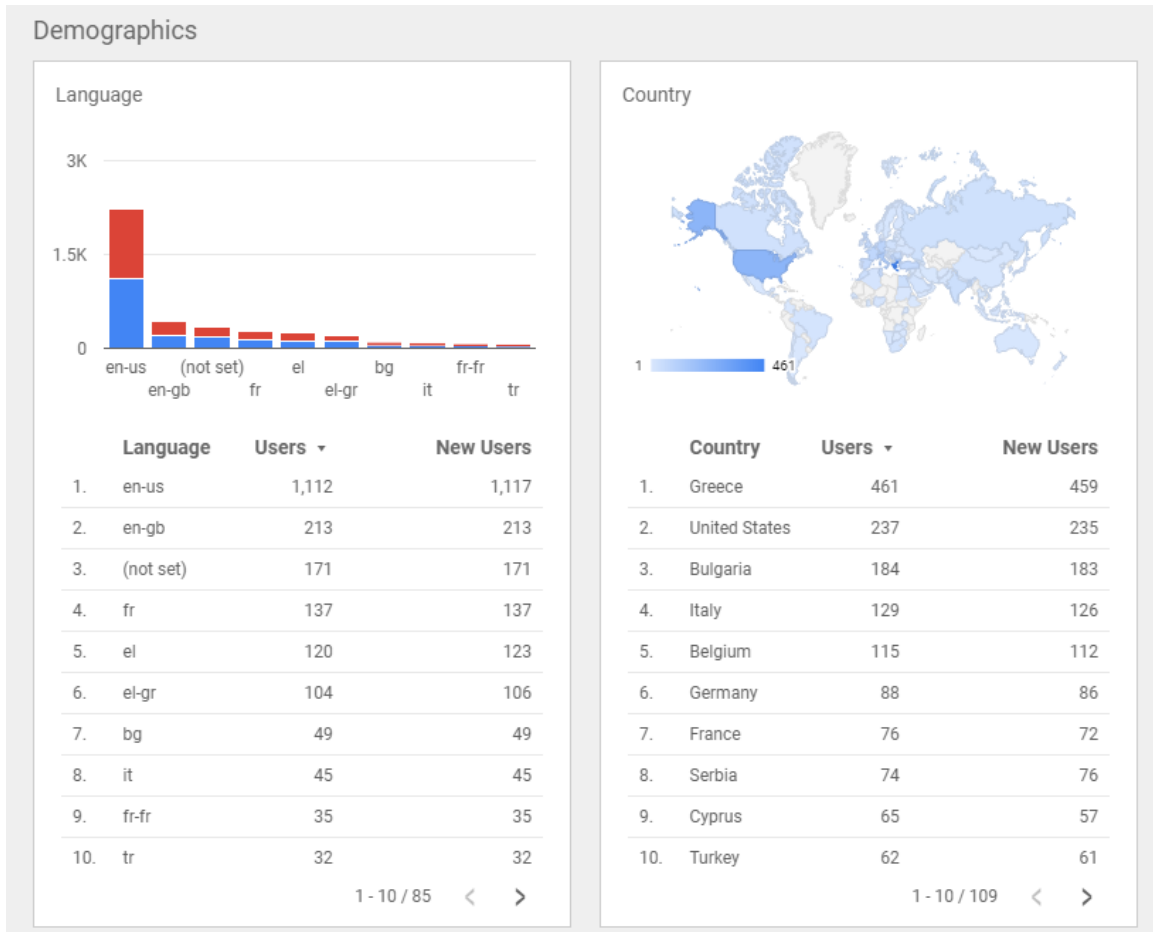


Fig.12. Google Analytics Geo-Cradle demographics overview

Period: 29/04/2017 - 20/11/2018

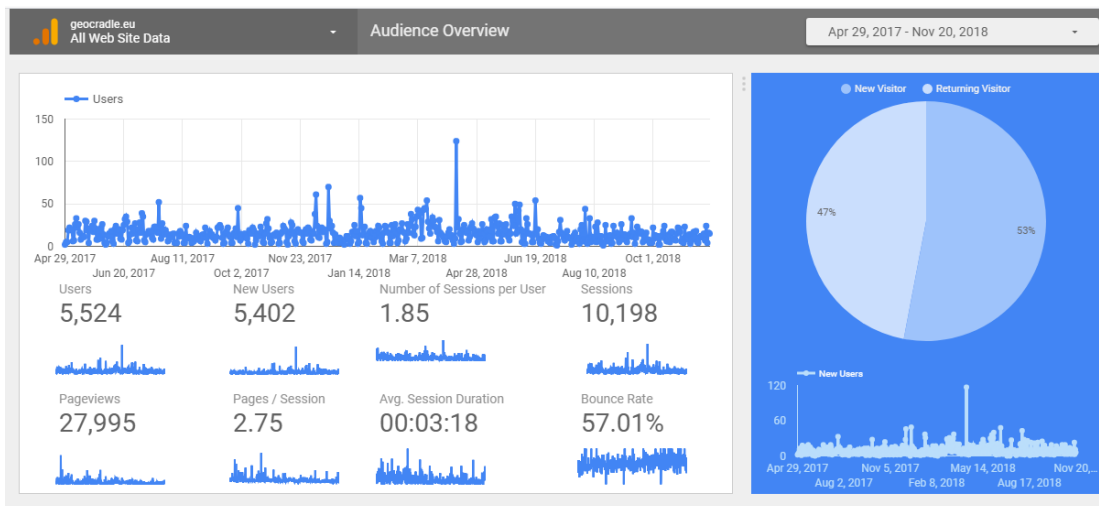




Fig.13. Google Analytics Geo-Cradle audience overview

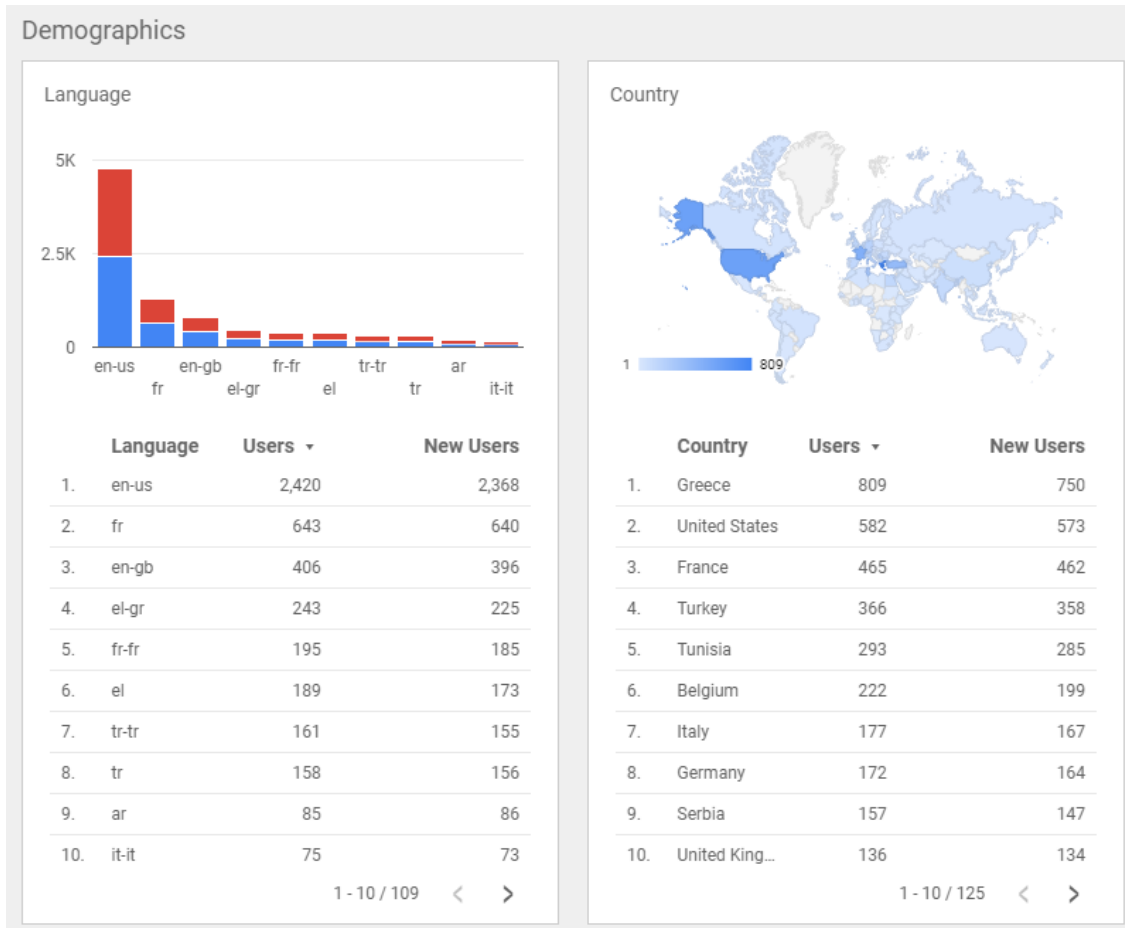


Fig.14. Google Analytics Geo-Cradle demographics overview



6 Key Performance Indicators Monitoring

Since the beginning of the project, networks across Europe, North Africa and the Middle East have been activated, informed and engaged on the topics promoted by the project. While the consortium as a whole has put effort into online communication, it was events, bilateral meetings and publications that have proven to be the most effective in interacting with stakeholders. An explanation for this is that the project aims to connect very heterogeneous communities – from research institutions and labs to companies, and finally to end-users that are unfamiliar with space. Geographically, they are also bridging gaps between boundaries and continents. This means that direct communication, or traditional communication (through publications) works best.

In order to assess the impact of dissemination activities, the criteria and KPIs set out in the GEO-CRADLE Part B Annex 1-3 were used.

Dissemination output	Type of measurement	Planned	Achieved
Regional/National workshops, technical meetings	GEO-CRADLE events	7-10	17
Presentations, booths and posters at international events	Project partner participation	Not set	Based on the information reported by partners, GEO-CRADLE consortium members attended c 131 events reaching more than 6,000 people.
Regional EO actors profile available through GEO-CRADLE portal	Number of EO actors	50-60	270
Countries represented in GEO-CRADLE Network	Number of countries represented	14-15	29
Newsletters	Readers	Not set	8 Newsletter were sent to a



			database of 3590 recipients;
Scientific journals and articles	Research community readers	Not set	30
Online articles	Number of articles in journals/specialised magazines in the different regions	Not set	>45 (number approximated based on the data reported by partners) 11 articles in Greek newspapers
Press releases	Number of press releases, number of PR in different languages	Not set	4 main Press releases 1 in 6 different languages including English 1 in two languages, English and Serbian 2 Press releases in Serbian
Communication material distributed in conferences and events	Number of communication material	2000	2000 copies distributed at events globally
Social Media	Members and followers	Not set	224 Likes @Facebook 421 Followers @Twitter 172 connections @LinkedIn



7 Conclusions

The current documented GEO-CRADLE's dissemination activities during the entire project period (month one to month thirty) and included data from the bi-annually dissemination reports, as well as the Mid-term Dissemination report and D6.1. "Communication Strategy and Action Plan and D6.9. "Final Report on Communication Strategy and Action activities". Raising awareness about the project and the pilot projects activities and results has been the main aim of the dissemination strategy. To deliver this strategy the entire project consortium has worked together and cooperated to bring the project closer to aimed target groups and audiences (research and academia, EO industry, End-users, decision makers, media and the general public) in the three regions of interest (Balkans, North Africa and Middle East).

The project has managed to reach these diverse communities of stakeholders in a number range of ways. Partners have organised 17 regional/local workshops and meetings with stakeholders and participated in approximately 131 international events that were attended by more than 6,000 people, mostly belonging to the research and academic community. As such, future activities beyond the project's lifetime, should focus in a higher degree in brining GEO-CRADLE pilot results/or results from research to market by engaging more with thematic end-user community events. The organisation of a series of Regional Workshops in the Region of Interest helped the project not only to promote the GEO-CRADLE network as an enabler for effective research activities based on know-how exchange but also helped increase awareness for public and private stakeholders on the relevant EU funding opportunities for the RoI. Partners have had over 30 scientific papers and articles related to the project published in journals, conference proceedings, books and other publications.

The numbers and statistics reported in this final deliverable for social media indicators, online and offline publications have more than doubled since the Mid-term report showcasing that the impact of the GEO-CRADLE dissemination and awareness raising activities has been significant.

Last but not least, the proposal of the GEO Secretariat to establish a [GEO Initiative for GEO capacity building in North Africa, Middle East, and Balkans \(NAMEBA\)](#), included in the GEO Work Programme 2017-2019, as a means to sustain the key outputs of GEO-CRADLE and scale-up their reach in terms of geographic coverage and operational maturity, speaks volumes of the project's successful implementation and the enthusiasm of GEO-CRADLE partners.



8 Annex 1

Event name	Date/ Location	Type	ROI	Target group	Details
1st Geo-Cradle Workshop/ 1st EGS Networking event	18-19 February 2016 Athens, Greece	Public	All	Project partners	Project kick-off meeting organised by NOA. The event was attended by 85 participants from North Africa, Middle East and the Balkans, including representatives of the GEO-CRADLE consortium members, officers from the European Commission and the GEO secretariat and other regional stakeholders. Details on the event can be found here .
4th International Conference on Remote Sensing and Geoinformation of Environment, (RSCy2016)	4-8 April, 2016, Pafos, Cyprus	Public	Balkans, North Africa	Research community	Project partners submitted several abstracts to this conference, all of which are presented further in this document in the chapter dedicated to Abstracts and scientific publications.
Regional GEO-CRADLE Stakeholders Meeting	24 April 2016 Cairo, Egypt	Public	Middle East	End users Decision makers (non-space) Scientific and academic community	The event was organised by CEDARE to introduce GEO-CRADLE and other two projects to the stakeholders in Egypt. The event was attended by 80 participants from Lebanon, Jordan, Palestine, Morocco and Egypt. Details on the event can be found here .



Event name	Date/ Location	Type	ROI	Target group	Details
The Copernicus Value Chain Workshop	26-27 April 2016 Brussels, Belgium	Public	Europe	Industry / Intermediate - users Decision makers space and non-space	Organised by the European Commission, the event was attended by GEO-CRADLE PCT members to pursue engagement with additional stakeholders in the ROI. The event was attended Details on the event can found here .
Horizon 2020 Space Info Days	19-20 April 2016 Ljubljana, Slovenia	Public	Balkans	End users Intermediate users Decision makers space and non-space	Organised by COSMOS2020 and Enterprise Europe Network the event brought together local and regional interested stakeholders interested in H2020 funding opportunities. Eurisy attended a round table discussion and presented GEO-CRADLE among its activities. Details on the event can be found here .
Joint Ankara University - TUBITAK Meeting	April 2016 Ankara, Turkey	Closed	Middle East	Scientific and academic community Decision markers (space)	This bilateral meeting with academics from Ankara University Agricultural Faculty focused on defining areas for a possible public event on food security.
10th GEO European Projects Workshop 2016	31 May -1 June 2016 Berlin, Germany	Public	All	All	Organised by EASME, the event gathered representatives from science, business and public administration to



Event name	Date/ Location	Type	ROI	Target group	Details
					discuss how European EO initiatives can contribute to GEOSS. On this occasion, the GEO-CRADLE consortium together with ConnectinGEO organised an embedded session on <i>Regional dimension for GEO and capacity building priorities</i> . Speaker presentations and event agenda available here.
H2020 Info Day	May 2016 Konya, Turkey	Closed	Middle East	Decision makers (space) Decision makers (non-space)	Project Partner TUBITAK met with officials from Republic of Turkey Ministry of Development Konya Plain Project (KOP) Regional Development Administration and Konya Şeker Industry and Trade Co., Ltd. (TORKU)
10th Meeting of Space Technologies & Education Union	May 2016 Istanbul, Turkey	Public	Middle East	Scientific and academic community Industry	Project Partner TUBITAK held a presentation on their activities and projects to representatives from academia and industry.
Internal EGS Meeting	May 2016 Brussels, Belgium	Closed	Europe	Intermediate users Decision makers (space)	Organised by EGS, this meeting of the PanAfGeo project also included members of EGS' International Cooperation and Development Task Force.



Event name	Date/ Location	Type	ROI	Target group	Details
Local stakeholder meeting	June 2016 Ankara, Turkey	Closed	Middle East	Decision makers (space) Decision makers (non-space)	Project Partner TUBITAK met with officials from Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Reform, Republic of Turkey Ministry of Science, Industry and Technology Turkish Sugar Authority, Republic of Turkey Ministry of Forestry and Water Affairs General Directorate of Forestry.
Satellite Earth Observation Summer School 2016 (UYGU 2016)	June 2016 Istanbul, Turkey	Public	Middle East	Scientific and academic community	The Summer School was organised by the Istanbul Technical University. Project Partner TUBİTAK presented the project together with their activities in remote sensing.
Local stakeholder meeting	June, 2016, Ankara, Turkey	Closed	Middle East	Decision makers (space) Decision makers (non-space)	Project partner TUBITAK met with officials from Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Research and Policies.
2nd Regional GEO-CRADLE Workshop Accelerating EO-powered businesses and market take-up	14-15 June 2016 Novisad, Serbia	Public	Balkans Middle East	Industry / Intermediate - users Decision	Organised by InoSens in cooperation with NOA and Eurisy, the event gathered 80 key players from public sector, academia and innovative SMEs to consider challenges, opportunities,



Event name	Date/ Location	Type	ROI	Target group	Details
				makers (non-space).	and new approaches in Earth Observation on a regional scale to discover new opportunities to fund their geo-information services. More details on the event can be found here .
Regional Stakeholder meeting with Albanian stakeholders	3 June 2016 Tirana, Albania	Closed	Balkans	Scientific and academic community, industry, downstream, end-users	Organized by project partner I-Bec and INCA this meeting aimed to inform local stakeholders about GEO-CRADLE cooperation opportunities.
7th Global Digital Soil Mapping Workshop	27 June - 1 July 2016 Aarhus, Denmark	Public	Europe	Scientific and academic community	Project partner representatives from Tel Aviv University attended the event with a presentation on “Utilization of the Internal Soil Standard (ISS) Method to Optimize the Exchange of Soil Spectral Libraries”. Details on the event can be found here .
Meeting with Ministry of Forestry and Water Affairs General Directorate of Forestry Information System Department	August 2016 Ankara, Turkey	Closed	Middle East	Decision makers (non-space)	During this bilateral meeting, project partner representatives from TUBITAK provided the Ministry with information on the envisaged pilot projects.
EU Research and Innovation in Support of the Earth Observation Market	21-22 September 2016 Brussels,	Public	Europe	Industry / Intermediate - users	The workshop was organised by DG RTD. Project Coordinator NOA attended the event with a presentation on “The role of the Greek Sentinel



Event name	Date/ Location	Type	ROI	Target group	Details
	Belgium			Decision makers (non-space)	Collaborative Ground Segment for the Copernicus & GEO data commercial uptake in the region of Balkans, Middle East & North Africa". More details on the event can be found here .
Copernicus for Raw Materials Workshop	5 September, 2016, Brussels, Belgium	Public	Europe	Industry / Intermediate - users Decision makers (non-space)	Project Partner representatives from EGS attended the workshop to present their work on " <i>Earth Observation for Raw Materials from EuroGeoSurveys</i> ". The event gathered approx. 90 people including service providers, EC DGs representatives, academia and several Copernicus Committee & Copernicus User Forum delegates. Details on the event can be found here .
MEDCLIVAR	26-29 September 2016 Athens, Greece	Public	Balkans	Scientific and academic community	Project Coordinator NOA, presented on "The GEO-CRADLE Project: Integration of Earth Observation Activities in the Regions of North Africa, Middle East and Balkans, for improved adaptation to climate change". More details on the event can be found here .
Romanian contributions in Earth Observation and Environment domains	September 2016 Magurele, Romania	Public	Balkans	Scientific and academic community	Project Partner INOE presented the project during this local event. The project description has been included in a booklet presenting EO project



Event name	Date/ Location	Type	ROI	Target group	Details
					focused in Romania in 2016.
6th Symposium on Remote Sensing and Geographic Information Systems	5-6 October 2016 Adana, Turkey	Public	Middle East	Scientific and academic community Industry / Intermediate - users	TUBITAK representatives attended a panel discussion and presented on precision agriculture and remote sensing. On this occasion, the GEO-CRADLE partners also gathered knowledge on the local EO gaps for WP3 leaders. The event was attended by approx. 250 participants from both academia and private sector. Details on the event can be found here .
GEO-CRADLE at ConnectinGEO Workshop on gap analysis and Prioritization	10-11 October, 2016, Laxenburg, Austria	Public	Europe	Scientific and academic community Decision makers (non-space)	The workshop discussed the outcomes of the gap analysis performed under the ConnectinGEO project to provide recommendations for the European Network of Earth Observation Networks (ENEON). Project Coordinator NOA was present to exchange knowledge between the two projects. More details on the event can be found here .
The Copernicus Training and Information Session	7 October 2016 Athens, Greece	Public	Balkans	Scientific and academic community Industry / Intermediate	Project Coordinator NOA attended the event to present on the project's activities and future DataHub. More details on the event can be found here .



Event name	Date/ Location	Type	ROI	Target group	Details
				- users	
Board of Mapping Coordination and Planning for Ministries (BHIKPK)	October 2016 Ankara, Turkey	Closed	Middle East	Decision makers (non-space)	Bilateral meeting between TUBITAK and Ministry representatives.
EGS General Meeting	October 2016 Ljubljana, Slovenia	Closed	Balkans	Decision makers (non-space)	Project partner EGS representatives provided attending Directors with information on the project's development and implementation. The in-house event gathered a total of 35 EGS members coming from 34 countries.
Board of Mapping Coordination and Planning for Ministries (BHIKPK)	October 2016 Ankara, Turkey	Closed	Middle East	Decision makers (non-space)	Bilateral meeting between TUBITAK and Ministry representatives.
2nd EGS Networking Event, Addressing GEO-CRADLE regional challenges - Access to raw materials	17-18 October 2016 Rabat, Morocco	Public	North Africa	Scientific and academic community Industry / Intermediate - users Decision makers (non-space)	Co-organised by the Geological Survey of Morocco and EGS, this regional networking event was hosted by the Minister of Energy, Mining, Water and Environment of the Kingdom of Morocco. The meeting was attended by over 40 participants representing the GeoScience Community in Morocco including universities and government representatives, 10 Geological Surveys and GEO-CRADLE partners. The minutes of the event can be found



Event name	Date/ Location	Type	ROI	Target group	Details
					here.
Meeting with NiK System (Company)	October 2016 Ankara, Turkey	Closed	Middle East	Industry / Intermediate - users	Bilateral meeting between TUBITAK and service provider company.
2nd EGS Networking event "Aimed at in-situ network operators and Geological Surveys – especially in Middle East and North Africa (MENA)	21-23 October 2016 Timimoun, Algeria	Public	North Africa	Scientific and academic community	Organised in the framework of the 5th Algerian National Stratigraphy Workshop, the event was attended by over 200 participants representing the Algerian geo-scientific community, heads of state-enterprises. The EGS Secretary General made an introduction to the broad scope of the project, explaining the role of Geological Surveys and of the raw materials topics in the framework of GEOSS and COPERNICUS.
Workshop on Precision Agriculture Technologies	October 2016 Tokat, Turkey	Public	Middle East	Scientific and academic community Decision makers (non-space)	The workshop gathered academia and public authorities to share good practices on precision agriculture. TUBITAK attended the meeting to meet with local stakeholders.
Meeting with General Directorate of Agricultural Research and Policies (TAGEM)	November 2016 Ankara, Turkey	Closed	Middle East	Decision makers (non-space)	TUBITAK bilateral meeting on cooperation on precision agriculture.



Event name	Date/ Location	Type	ROI	Target group	Details
				End-users	
Meeting with Konya Water and Sewerage Authority	November 2016 Konya, Turkey	Closed	Middle East	End-users	TUBITAK good practices exchange meeting with Regional Irrigation Associations.
GEO-CRADLE Project Meeting “Refining the scope of the pilots towards regional challenges (WP4) in light of WP3 outcomes”	16-17 November 2016 Limassol, Cyprus	Public	All	Scientific and academic community	This two-day project meeting organized by CUT represented an opportunity for project partners to share on the proposed pilot projects to be conducted under WP4. The EGS Delegations had also the opportunity to meet with private sector representatives and explore future collaboration (visit to the Skouriotissa copper mine). A detailed account of the meeting on November 16 can be found here . The minutes of the November 17 meeting can be found here .
World GIS Day 2016	24-25 November 2016, Istanbul, Turkey	Public	Middle East	Scientific and academic community Industry / Intermediate - users	The event gathered approx. 1 500 participants from both private and public sector. Local project partner TUBITAK attended the event with a stand in the dedicated exhibition area. Details on the event can be found here .
GEO-XIII Plenary and Exhibition 2016	7-10 November	Public	Global	Scientific and	GEO-CRADLE partners met in order to



Event name	Date/ Location	Type	ROI	Target group	Details
	2016 St. Petersburg, Russia			academic community	explore new opportunities for regional networking and contributions towards the implementation of GEO's and Copernicus' objectives. Project Coordinator Dr. Haris Kontoes was invited and gave two presentations during the event. More details on the event can be found here .
International Commercial UAV Conference	28-30 November 2016 Ankara, Turkey	Public	Middle East	Scientific and academic community Industry / Intermediate - users	GEO-CRADLE project partner TUBITAK participated in a session on Agriculture Applications with UAV. During the event the team discussed with agro scientists and company owners. Details on the event can be found here .
UNOSD Expert Group for water food energy resilience in Mid-Lat Region	28 November 2016 Seoul, South Korea	Public	Asia	Scientific and academic community	Organised by UNOSD in collaboration with Sustainable Development Solutions Network (SDSN) Korea, Korean Ministry of Environment and Korea University. Project Coordinator Dr. Kontoes attended the event with a presentation entitled "GEO-CRADLE: Fostering regional cooperation and roadmap for GEO and Copernicus implementation in N. Africa, Middle East, and the Balkans". More details on the event can be found here .



Event name	Date/ Location	Type	ROI	Target group	Details
11th MapInfo User Conference	December 2016 Ankara, Turkey	Public	Middle East	Decision makers (non-space)	TUBITAK participated in this local networking event with participants mainly from related governmental institutions. The event gathered approx. 400 participants. Details on the event can be found here .
Meeting with General Directorate of Land Registry and Cadastre	December 2016 Ankara, Turkey	Closed	Middle East	Industry / Intermediate - users Decision makers (non-space)	Bilateral meeting between TUBITAK and Ministry representatives.
Horizon 2020 4th Information Multipliers Workshop	December 2016 Istanbul, Turkey	Public	Middle East	Scientific and academic community Industry / Intermediate - users	TUBITAK participated in this networking event focusing on technology transfer between universities, development agencies, chamber of commerce and industry.
EGS Executive Committee	December 2016 Brussels, Belgium	Closed	Europe	Decision-makers (non-space)	During this EGS Executive Committee meeting, the Secretariat took the opportunity to provide an update on the GEO-CRADLE events organised in Morocco and Algeria.
Meeting with Republic of Turkey Ministry of Food	December 2016	Closed	Middle	End-users	Bilateral meeting between TUBITAK



Event name	Date/ Location	Type	ROI	Target group	Details
Agriculture and Livestock General Directorate of Agricultural Reform	Ankara, Turkey		East		and Ministry representatives.
AGU Fall Meeting	12-16 December 2016 San Francisco, USA	Public	Europe	Scientific and academic community	I-BEC represented the project consortium at this event with a presentation on “Integrating EO data for applying the Nexus of water, energy and agriculture to monitor SDG Indicators within trans-boundary river basins”. This high-level event gathered more than 20,000 participants. Details on the event can be found here . In addition, project partner CEDARE were also present at the event with a poster presentation on <i>Estimation of the solar energy potential in Egypt by developing high resolution solar Atlas and nowcasting service in real time</i> , available here .
135th Anniversary VSEGEI (Geological Survey of Russia), EuroGeoSurveys	20, St. Petersburg, Russia	Public	Balkans, North Africa	Scientific and academic community, industry and downstream, end-users, non-space decision-	Presentation done by Luca Demicheli on EuroGeoSurveys general activities and projects (among which, GEO-CRADLE). Around 100 participants attended the event from across the world.



Event name	Date/ Location	Type	ROI	Target group	Details
				makers.	
AGU meeting Fall Meeting	12-16 December 2016, San Francisco, USA	Public	Balkans	Scientific and academic community and research community	I-BEC gave a GEO-CRADLE presentation and met with GEO Secretariat Director Barbara Ryan to promote the project.
Tubitak partner at Knowledge Transfer Seminar on Agritech	18 January 2017 Istanbul-Turkey	Public	Middle East, Middle East	Representatives from the agricultural sectors like universities, companies, governmental organisations and finance	Tubitak participated and met with related representatives from the agricultural sectors like universities, companies, governmental organizations. Discussions on user needs and cooperation opportunities as potential EO users.
Tubitak partner at Precision Agriculture Network	25 January 2017 Ankara-Turkey	Public	Middle East, Middle East	End-user companies	Participation of TUBITAK to a meeting on Precision Agriculture Network organised by Technology Development Foundation of Turkey, giving information about GEO-CRADLE Project



Event name	Date/ Location	Type	ROI	Target group	Details
					and H2020 opportunities.
Regional stakeholder meeting with Israeli stakeholders	31 January 2017, Tel Aviv, Israel	Closed	Middle East, Middle East	Downstream and end-users	I-BEC gave a Geo-Cradle presentation and discussed with participants on the different cooperation opportunities within the project.
Global Space Congress and Geo-Cradle Workshop	31 January-2 February Abu Dhabi-United Arab Emirates	Public	Middle East	Scientific community, the downstream.	NOA representatives presented the project, its activities and expected outcomes and the <u>Global Space Congress</u> . Following the congress, a local workshop was also organised by NOA and the Geography and Urban Planning Department at UAEU. EO capacities and needs of UAE and the region were discussed, to seek solutions to growth and innovation in the geoinformation sector, EO market uptake and business performances. Project partners from TUBITAK were also present.
Presentation during the event MINING INDABA	3-10 February 2017 Cape Town, South Africa	Public	North Africa	Scientific and academic community, industry and downstream, end-users,	Presentation done by Celine Andrien— general presentation of EGS and its project at the EGS booth (screen with a presentations in a loop mode)



Event name	Date/ Location	Type	ROI	Target group	Details
				non-space decision-makers	
Meetings with Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Reform	8 February, 1 March and 17 March 2017, Ankara, Turkey	Closed	Middle East	Ministry as end-user	Project partner TUBITAK had several meetings with Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Reform to get more information about their ongoing works and to provide a solid link with GEO-CRADLE pilot project activity on soil. A researcher from this Directorate has started to work with TUBITAK UZAY researchers in GEO-CRADLE pilot project related on soil sampling.
Tubitak at Ankara University Faculty of Agriculture and Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Research and Policies (TAGEM)	16 February 2017 and 22 February 2017 Ankara, Turkey	Closed	Middle East	Scientific and academic community	Tubitak organised several meetings with Ankara University Faculty of Agriculture and Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Research and Policies (TAGEM) in the scope of the pilot project on Improved Food Security – Water Extremes Management (IFS-



Event name	Date/ Location	Type	ROI	Target group	Details
					WEM).
EGS National Delegates and EGS Chairs of the Expert Groups	13 February 2017 Brussels, Belgium	Public	Balkans	Scientific and academic community, industry and downstream, end-users, non-space decision-makers.	Presentation done by Gerardo Herrera on Earth Observation and Geohazard Expert Group annual activities and future plans (within which GEO-CRADLE is one of the projects). The meeting was attended by EGS National delegates, EGS Chairs of the Expert Groups and EGS Secretariat.
Stakeholder meetings organised by the Institute of Physics Belgrade	January to March 2017 Belgrade, Serbia and Sarajevo, Bosnia and Herzegovina	Closed	Balkans	General public, end users and research institutions	Several internal meetings with academic institutions representatives in Bijeljina, BiH led to the GEO-CRADLE seminar organisation to be held in May.
EuroGeoSurveys IUGS Meeting	15-17 February 2017	Public	Balkans, Europe	Scientific and academic	Presentation done by Luca Demicheli- General EGS presentation and its



Event name	Date/ Location	Type	ROI	Target group	Details
	Paris, France			community, industry and downstream, end-users, non-space decision-makers	projects
Workshop on EO Application for Sustainable Development in Africa (EARSC)	13-16 February 2017 Bremen, Germany	Public	North Africa	Industry and intermediary users, Space sector decision makers	EARSC presented its involvement within the GEO-CRADLE project. 60 participants. More details on the event's agenda can be found here .
Meeting with officials from Republic of Turkey Ministry of Development Konya Plain Project (KOP)	1 March 2017 Konya, Turkey	Closed	Middle East	End-users	TUBITAK met with officials from Ministry of Development Konya Plain Project (KOP) Regional Development Administration to define their needs and solutions by using EO.
Capacity Building and Networking Project to Support the UK –Turkey Partnership in Agri-Tech Sector	6 March 2017 Istanbul, Turkey	Public	Middle East	Scientific and academic community, end-users.	Tubitak participated to the closing event of “Capacity Building and Networking Project to Support the UK –Turkey Partnership in Agri-Tech Sector giving information about future technologies of agriculture in Turkey and GEO-CRADLE Project. More information on the event can be found



Event name	Date/ Location	Type	ROI	Target group	Details
					here.
Meeting with Republic of Turkey Ministry of Forestry and Water Affairs General Directorate of Combating Desertification and Erosion	9 March 2017 Ankara, Turkey	Closed	Middle East	End-users	Tubitak held discussions on collaboration areas in the field of R&D.
Fifth International Conference on Remote Sensing and Geoinformation of Environment	20-23 March 2017 Pafos, Cyprus	Public, Poster session	Balkans	Industry and downstream, research community	CUT partner attended the event with a GEO-CRADLE poster presentation.
Meeting with Republic of Turkey Ministry of Development The Southeastern Anatolia Project (GAP)	24 March 2017 Ankara, Turkey	Closed	Middle East	End-users, decision-makers	Meeting about cooperation opportunities with Republic of Turkey Ministry of Development The South Eastern Anatolia Project (GAP) Regional Development Administration.
Global Symposium on Soil Organic Carbon	21-23 March 2017, Rome, Italy	Public	Balkans	Research community	I-BEC Paper submission and presentation



Event name	Date/ Location	Type	ROI	Target group	Details
Regional GEO-CRADLE workshop in Sofia	24 March 2017 Sofia, Bulgaria	Public	Balkans	Decision-makers, industry, Scientific and academic community, the downstream.	<p>Organised as a part of the GEO-CRADLE project, this regional workshop focused on identifying the potential local challenges hindering the EO market uptake and business performances. By bringing together academic and industry representatives, the event aimed at strengthening cross-sector exchanges to drive innovation in the local geo-information sector.</p> <p>55 participants signed the list of attendees, more than 60 organisations contacted - public administration, academia, NGO and industry, more than 25 new contacts mainly from industry sector. More details on the event can be found here.</p>
EGS General Meeting and Directors workshop (EuroGeoSurveys)	28-29 March 2017 Brussels, Belgium	Closed	Balkans, North Africa	The meeting was attended by 35 Geological Surveys Directors and the EGS Secretariat.	<p>Presentation done by Isabel Pino: debrief on the main Expert Groups and Task Forces activities over the previous six months; debrief on the status of concluded or on-going projects, as well as on submitted proposals, including GEO-CRADLE.</p>



Event name	Date/ Location	Type	ROI	Target group	Details
GEOSS Data Providers Workshop	20-21 April, 2017, Florence, Italy	Public	Europe	Data providers, NGOs, Private Sector, Space Agencies, Scientific and academic community	<p>Organised by GEOSS in cooperation with the European Space Agency, the 2nd Data Providers Workshop focused on and discussed both the technology ecosystem and the Community Ecosystem, focusing on GEOSS Data Providers and User.</p> <p>GEO-CRADLE Regional Datahub was presented in the workshop in order to explain how the GCI was technically implemented and also to attract more data providers. Mr. Vassilis Tsironis presented "<u>The GEO-CRADLE Regional Data Hub tool: Utilizing the GEO DAB APIs for easy access and discovery of regional EO data</u>" and Dr. Anna Polychroniou presented "<u>The GEO-CRADLE Regional Data Hub tool: A vision for a regional GEOSS Portal</u>". The report event is publicly available here.</p>
Improving EO services industry involvement in EU space programmes and initiatives	26 April, 2017, Brussels, Belgium	Public	Europe	Industry and downstream, research community	<p>Project partner EARSC in coordination with DG GROW and DG RTD, organised a full day-event to discuss concrete ways for the improved industry involvement in the exploitation of Copernicus Services and the delivery of GEO vision. The project coordinator,</p>



Event name	Date/ Location	Type	ROI	Target group	Details
					Dr. Haris Kontoes gave a presentation entitled: „ <u>Fostering regional cooperation and roadmap for GEO and Copernicus implementation in North Africa, Middle East and Balkans</u> ”. The event agenda is publicly available online here .
GEO-CRADLE Regional Workshop	9 May, 2017, Bucharest, Romania	Public	Europe	Industry and downstream, research community	The event was jointly organised by the Project Coordinator National Observatory of Athens (NOA) and the Project Partner National Institute of R&D for Optoelectronics (INOE) on the topic of “Addressing regional needs by enhancing Earth Observation uptake and relevant business performances”. The event gathered approximately 50-60 delegates from Romania and its neighbouring countries, including several project partners. The event’s agenda, presentations and minutes are publicly available online here .
KEΔE City Challenge Crowdhackathon Smartcity	12-14 May, 2017, Athens, Greece	Public	Europe	End-users, Industry and Scientific community	The marathon was attended by more than 200 contestants in 50 teams that implemented original applications useful for cities and local government in three days, with the help of 40 experienced mentors and 17 members



Event name	Date/ Location	Type	ROI	Target group	Details
					<p>of the evaluation committee from Municipalities, the market and the academic community. GEO-CRADLE presented its goals using banners and informed the attendees about the GEO-CRADLE Datahub and networking platform.</p>
<p>GEO-CRADLE Partner i-BEC participation in the 5th GEOGLAM - RAPP Workshop</p>	<p>17 May 2017, Frascati, Italy</p>	<p>Public</p>	<p>Europe</p>	<p>Research community, Space Agencies</p>	<p>GEO-CRADLE Regional Coordinator Dr. George Zalidis (University of Thessaloniki, Greece) participated in the 5th GEOGLAM – RAPP workshop to promote the uptake of EO services and data in response to Balkan and Central Europe needs in order to contribute to the implementation of GEOGLAM RAPP and to present the GEO-CRADLE Regional Data Hub in the scientific community (remote sensing experts, crowdsourcing etc). Dr. Zalidis gave a key presentation to promote the advantages and tools of GEO-CRADLE in GEO’s initiative related to pasture and grassland productivity – Improved food security. The event agenda and presentations are available here.</p>



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GEO-CRADLE Regional Workshop Cairo	25 May 2017, Cairo, Egypt	Public	North-Africa	End-users, research community	The event was jointly organised by the Project Coordinator National Observatory of Athens (NOA) and the Project Partner Centre for Environment and Development for the Arab Region and Europe (CEDARE) and focused on Environmental Challenges and Earth Observation solutions in Egypt and the region. The project's pilot projects were presented on the occasion. The event's agenda and presentations are publicly available here .
11th GEO European Projects Workshop	19-21 June, 2017, Helsinki, Finland	Public	Europe	All	With the occasion of the 11 th GEO EU Projects Workshop, GEO-CRADLE and GEO Secretariat organised a dedicated session on Wednesday 21 June entitled "GEO capacity development, contribution to SDGs and realization of regional impacts derived from GEO European Projects". Project partner, was also highlighted with a session on "Leveraging EO services to help monitoring SDGs, the industry contribution" where the industry involvement within GEO-CRADLE will was presented. The full agenda and presentations are publicly available



Event name	Date/ Location	Type	ROI	Target group	Details
					here . The GEO-CRADLE session agenda is available here .
GEO-CRADLE Partner TÜBİTAK UZAY participation in the 37th EARSeL Symposium	27-30 June, 2017, Prague, Czech Republic	Public, Poster session	Europe	Research community	Ramazan KUPCU and Dr. Kaan KALKAN participated to the 37th EARSeL Symposium with GEO-CRADLE during the poster session. More information and photos are available here .
GEO-CRADLE Partner EARSC General Assembly	5 July, 2017, Brussels, Belgium	Closed	Global	Service providers	GEO-CRADLE was presented at EARSC General Assembly of Members to an audience of approximately 60 people.
GEO-CRADLE Partner TAU participation in the 2nd International Conference on Airborne Research for the Environment	10-13 July, 2017, Munich	Public	Europe	Research community, Space agencies	Hosted by the DLR, the German Aerospace Research Center, the event focused on the theme of “Developing infrastructure to meet future scientific challenges”.
EuroGeoSurveys partner EGS National Delegates Forum	5 September, Vienna, Austria	Closed	Global	Research community, data providers and	Ms Isabel Pino made a general presentation on Geocradle to the EGS National Delegates Forum in Vienna hosted by the Geological Survey of Austria (GSA). The audience included



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				aggregators	around 30 people from 25 countries
GEO-CRADLE Regional Workshop	14 September, 2017, Tel Aviv, Israel	Public	North Africa Middle East	Research community	Organised by GEO-CRADLE partner, the Tel Aviv University, this regional event focused on spectral imaging of soils and remote sensing technology for soil mapping in support of WP4SENSE pilot on dust / radiation interactions. The event's agenda and presentations are publicly available online .
I-Bec partner at ESA EO Open Science	25-28 September, 2017, Frascati, Italy	Public	Europe	Research community, data providers and aggregators	Organised by the European Space Agency, this 3 rd round of consultations aimed to explore new challenges and opportunities for EO research created by the rapid advances in Information and Communications Technologies (ICT). I-Bec attended the meeting to discuss about GEO-CRADLE and Soil Spectral Libraries in the Balkans.



Event name	Date/ Location	Type	ROI	Target group	Details
CEDARE partner participation in the 9th German Arab Chamber of Industry and Commerce Conference Renewable Day	8 October, 2017 Cairo, Egypt	Public	North Africa	End users	<p>Prof. Hesham El-Askary held a presentation on the updated Egypt Solar Atlas created within the GEO-CRADLE pilot on energy. The event was attended by over 100 participants including the Minister of Environment, Head of Solar</p> <p>Energy sector in Egypt, German Ambassador and private companies</p>
EuroGeoSurveys partner Directors' Workshop	11 October, 2017, Belgrade, Serbia	Closed	All	Research community, data providers and aggregators	Ms Eleftheria Poyiadji gave presentation on "RS Mineral Resources Potential". The audience included directors and scientists from Geological Surveys of Europe.
EuroGeoSurveys partner end-user meetings and consultations	19 July, 2017 & 7 December, 2017	Closed	Balkans	End users	<p>Consultation with users in Greece took place on the premises of the Ministry of Environment in Athens with members from the Special Secretariat of Inspectors Auditors / Body of Inspection for Southern Greece / Department of Mining Inspection. In addition, similar meetings took place for the other pilot project areas i.e. two in Turkey and one in Cyprus during November 2017.</p>



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IPB Serbia partner participation at 49th International October Conference on Mining and Metallurgy	18-21 October, Bor, 2017, Serbia	Public	Balkans	All	On the occasion of this event project partners Zoran Mijić, Luka Ilić and Maja Kuzmanoski sustained presentation on Raman lidar for atmospheric profiling in Serbia and Air mass transport over Balkans region identified by atmospheric modeling and aerosol lidar technique
GEO-CRADLE at GEO-XIV Plenary	23-27, October, 2017, Washington D.C	Public	All	All	GEO-CRADLE project coordinator, NOA and project partners TAU, I-BEC, EARSC and CEDARE representatives participated in the GEO-XIV Plenary in several sessions and round table debates. The event report is available publicly online here , whilst the detailed presentations can be found here .
CEDARE partner participation in World Youth Forum	4-10 November, 2018, Sharm El-Sheikh	Public	Global	Students and young professionals	Prof. Hesham El-Askary held a presentation on the “Future of Global Climate Change”. The event was attended by thousands on young participants from across the world.



Event name	Date/ Location	Type	ROI	Target group	Details
EuroGeoSurveys partner EGS Mineral Resources Expert Group Meeting	5 November, Brussels, Belgium	Closed	Global	Research community, data providers and aggregators	Ms Isabel Pino made a presentation on GEO-CRADLE Pilot projects to the EGS Mineral Resources Expert Group. The audience included approximately 25 people and the meeting took place in the premises of the Geological Survey of Belgium back to back with the Raw Materials week.
EuroGeoSurveys partner EGS Meeting Geohazard Expert Group	13 November, 2017	Closed	All	Research community, data providers and aggregators	Ms. Maria Przyłucka a gave presentation on Access to Raw Materials pilot activates and results During the expert's group annual. The audience included approximately 30 people from various European geological surveys, experts in the field of Earth Observation, as well as 6 other expert group chairs.
EuroGeoSurveys participation at the 82nd Thessaloniki International Fair	9-17 November, 2017, Thessaloniki, Greece	Public	Global	All	Ms Kiki Hatzilazaridou gave a presentation of the GEO-CRADLE pilot Access to Raw Materials results. The audience included 30 people (including students, researchers, general public).



Event name	Date/ Location	Type	ROI	Target group	Details
TUBITAK partner participation at the ROME SPACE week	21-23 November, 2017, Rome, Italy	Public	All	All	<p>Organised by APRE in collaboration with the Italian Space Agency and Enterprise Europe Network the event aimed to offer networking opportunities to universities, research centers, industries, SMEs and SME associations or local administrations. Tubitak was present with two posters depicting their projects:</p> <p>RASAT Image Processing Center and Geoportal Development Project – GEZGİN</p> <p>Precision Agriculture Projects at TÜBİTAK UZAY (information about GEO-CRADLE project)</p>
CEDARE partner participation in Planet Earth Institute, Spotlight Seminar: The Future of Renewable Energy in Africa	29 November, 2017, London, United Kingdom	Public	North Africa	All	<p>Prof. Hesham El-Askary from project partner CEDARE represented GEO-CRADLE at this event focused on renewable energy where he presented Egypt's new Solar Atlas which was completely updated through the project pilot on energy. The London event was attended by more than 100 people and was streamed for more than a 1000. The Facebook streaming</p>



Event name	Date/ Location	Type	ROI	Target group	Details
					video is available here .
Tubitak partner at World GIS Day Turkey	30 November – 1 December, 2017, Ankara, Turkey	Public	All	All	The event gathered around 3,000 people from public authorities, local governments, universities, private sector and non-governmental organizations under the theme “ Living Spaces of Information Society: Smart Cities ”. The project partner Tubitak attended the event with a stand where they presented satellite models and showcased their work on Earth Observation and geo-portals. GEO-CRADLE was among the presented projects.
GEO-CRADLE Regional Workshop	7 December, 2017, Tunis, Tunisia	Public	North Africa, Middle East	All	Organised by the project’s partner The Research and Studies Telecommunications Centre (CERT) the event gathered the local and regional community of private and public remote sensing stakeholders working on Adaptation to Climate Change, Improved Food Security & Water



Event name	Date/ Location	Type	ROI	Target group	Details
					Extremes Management, Access to Raw Materials and Access to Energy. The entire list of presentations and speakers are publicly available online here . The event also included an exhibition space dedicate to private sector entities working in this field.
TAU partner at the Earth Observation Applications and Services Workshop	28 January, 2018, Tel Aviv, Israel	Public	North Africa, Balkans	All	Prof Eyal Ben Dor from TAU held a presentation on <i>Regional Collaboration to Generate a Soil Spectral Library</i> . The event was hosted by the Israel Innovation Authority and was attended by approximately 60 people.
Tubitak partner at the Innovation Approach and Technologies on Food and Agriculture Value Chain conference	22 February, Istanbul, Turkey	Public	Middle East	All	Tubitak participated in this conference organised by the Bosphorus University
EuroGeoSurveys 40th National Delegates forum, 26th of February 2018	26 February, 2018, Brussels, Belgium	Closed	Europe	Research community, data providers and aggregators	G. Herrera reported Earth Observation and Geohazards Expert Group (EOEG) annual activities, Including the GEO-CRADLE project. National Delegates of Geological Surveys of Europe were present.



Event name	Date/ Location	Type	ROI	Target group	Details
Tubitak partner at the Land Use and Land Cover Classification System conference	27 February – 2 March, 2018, Afyonkarahisar ,Turkey	Public	Middle East	All	Tubitak attended this event which brought together the local community of stakeholders working on forest, agriculture, settlement area and wetlands.
Academy of Athens partner at Delphi Economic Forum III: New Globalization and Growth Challenges	1-4 March, 2018, Delphi, Greece	Public	Balkans	All	The Academy attended the event and delivered a presentation which included information on GEO-CRADLE during a session on Curbing Climate Change and Sustaining Economic Growth
GEO-CRADLE Regional Workshop in the Middle East	15-16, March, 2018, Istanbul, Turkey	Public	North Africa, Middle East	All	Organised by project partner TUBITAK with the support of Eurisy and project coordinator NOA, the event introduced the Copernicus Sentinel Data Hubs whilst showcasing GEO-CRADLE's project pilot results and user cases with the aim of highlighting cross-sector cooperation on transversal topics such as water management, http://www.icoss2018.tn/adaptation to climate change or food security, to name a few. The full list of speakers and presentations are available online here . Over 70 delegates attended the



Event name	Date/ Location	Type	ROI	Target group	Details
					event.
GEO-CRADLE at ICSS2018 - International Conference on Soil Sciences -REMOTE SENSING FOR SUSTAINABLE SOIL MANAGEMENT	17-19 March, 2018, Hammamet, Tunisia	Public	North Africa, Middle East	Research community	GEO-CRADLE coordinators NOA attended the event and represented the consortium there together with the partners from I-Bec. The full programme and list of speakers are available here .
EuroGeoSurveys Directors General Meeting & 40th National Delegates forum	11 April, 2018, Vienna, Austria	Closed	Europe	Research community, data providers and aggregators	G. Herrera reported Earth Observation and Geohazards Expert Group (EOEG) annual activities, including the GEO-CRADLE project. Directors General and National Delegates of National Geological Surveys were present.
EGS at the METS 2018 Conference EU-Latin America Mining & Exploration Convention and Trade Show	10-12 April, 2018, Madrid, Spain	Public	Global	All	EGS partner attended the event with an abstract and presentation by G. Herrera on <i>Earth Observation in support of sustainable mining by the Geological Surveys of Europe</i> which covered the work on GEO-CRADLE pilots.



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EuroGeoSurveys Earth Observation and Geohazards Expert Group (EOEG) Annual meeting	12-14 April, 2018, Vienna, Austria	Closed	Europe	Research community, data providers and aggregators	E. Poyiadji presented the GEO-CRADLE project and the use of remote sensing methods for mineral management applied within the GEO-CRADLE Pilots. The meeting was attended by 20 participants from 15 Geological Surveys.
EuroGeoSurveys partner at the 7th Digital Earth Summit/ The Digital Earth for Sustainable Development in Africa	17-19 April, 2018, El Jadida, Morocco	Public	Global	All	EGS partner attended the event with a presentation on <i>Optimization of Sentinel 2 data for supporting geological mapping and monitoring of mining areas</i> . The event was attended by approximately 200 participants from around the world.
GEO-CRADLE at Regional Workshop on Space-based services: Balkan & Black Sea perspectives	18-19 April, 2018, Sofia, Bulgaria	Public	Balkans	All	The event was organised the Bulgarian Academy of Science and the European Space Agency under the auspices of the Bulgarian Presidency of the Council of the EU and in cooperation with GEO-CRADLE partner, the European Association of Remote Sensing Companies (EARSC). Project coordinator, Mr Haris Kontoes, presented the project and the Balkan Sentinel Data Hub during a session on



Event name	Date/ Location	Type	ROI	Target group	Details
					<i>“Supporting accelerated economic development”</i> . The full programme and list of speakers are available here .
3rd GEO Data Providers Workshop	2-4 April, 2018, Frascati, Italy	Public	Global	Research community, data providers and agregators	The 3rd GEO Data Providers Workshop took place at the European Space Agency in Frascati, and brought together data providers and users to share knowledge and best practices in the management and use of Earth observation data, while working together to enhance the Global Earth Observation System of Systems (GEOSS). GEO-CRADLE participated in the workshop with a presentation entitled <i>“GEO-CRADLE: Addressing regional needs through DataHub”</i> delivered by Kosmopoulos, P.G from NOA
Tubitak partner meeting with Konya Food & Agriculture University in Turkey	9 May, 2018, Konya, Turkey	Closed	Middle East	Research community, service providers	The meeting was attended by office staff and academics from different agriculture related departments. A well known Turkish food company TORKU also attended this meeting. Tubitak shared their experiences on the usage



Event name	Date/ Location	Type	ROI	Target group	Details
					of EO in agriculture and also shared their works under the GEO-CRADLE project.
Academy of Athens partner at Toward a Greener Attica Preserving the Planet and Protecting its People	3-5 June, 2018, The Saronic Islands, Greece	Public	Balkans, North Africa	End-users, Industry and Scientific community	Organised by the Ecumenical Patriarchate, the event gathered theologians and scientists, political and business leaders, as well as activists and journalists from all over the world. Zerefos C. presented the Academy's work and GEO-CRADLE during the "Doing the Math: Response" session.
3rd South-Eastern Europe GEO Workshop	4-5 June, 2018, Thessaloniki, Greece	Public	Balkans	All	Organised by project partner I-BEC with the support of Eurisy and project coordinator NOA, the event gathered gather local, regional, European stakeholders under the theme "Uptake of GEO and Copernicus in South - Eastern Europe, North Africa and Middle East". The event was also an opportunity for the project to gather inputs which will feed into the current roadmap for the improved implementation of GEO/GEOS and the increased uptake of Copernicus in the



Event name	Date/ Location	Type	ROI	Target group	Details
					Balkans, Middle East and North Africa. The full list of speakers and presentation are available online here . Over 120 participants registered to the event.
GEO-CRADLE at GEO Symposium #EO4Impact	11-12 June, 2018, Geneva, Switzerland	Public	Global	All	GEO-CRADLE partners participated in the GEO Symposium which gathered 200 people representing diverse sectors and regions participating to the Group on Earth Observations (GEO). The event's agenda and list of speakers are available here .
ERAM Environmental Pollution from Abandoned Mines	25-26 June, 2018, Athens, Greece	Public	Balkans, Middle East	Research community	The event was co-organized by the Institute of Geology and Mineral Exploration (IGME), Sulaimani Polytechnic University (SPU) and the Kurdistan Institution for Strategic Studies and Scientific Research (KISSR). EGS attended the event with 2 posters: 1. Optimization of Sentinel 2 data for supporting geological mapping and monitoring of mining areas: The Abandoned Cu-Mo-W Azegour Mine (Occidental High Atlas, Morocco)



Event name	Date/ Location	Type	ROI	Target group	Details
					2. Monitoring rehabilitation works of the Asbestos mine on the Troodos Ophiolite in Cyprus: A Pilot investigation of the GeoCradle EU Project. Information on the event and abstracts are available online here . The event was attended by approximately 100 participants.
GEO-CRADLE at the 3rd joint EARSel/NASA LULC Workshop	11-12 July, 2018, Chania, Greece	Public	Balkans	Research community	GEO-CRADLE partners from NOA, TAU and I-Bec attended the event to present the Soil Spectral Library which was created in the context of the GEO-CRADLE project and the SENSE system: Access to solar energy applications using EO data through GEO activities and the “Photosynthetically active radiation climatology in Greece for optimal vineyard planning and exploitation”. The list of presentation is publicly available online here .
I-Bec partner at EEE World Congress on Computation Intelligence	8-13 July, 2018, Rio de Janeiro, Brazil	Public	Global	Research community, Industry, data providers and	Mr Nikos Tsakiridis from I-Bec held a presentation on “An evolutionary fuzzy rule-based system applied to real-world Big Data – the GEO-CRADLE and LUCAS soil spectral libraries”



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				aggregators	
INOE partner at the European Meteorological Society Annual Meeting	3-7 September, 2018, Budapest, Hungary	Public	Global	Research community, data and service providers	The international event was attended by 732 participants from 50 countries. INOE presented their paper on “What we know and don’t know about the societal and economic impact of severe weather events in Europe”. The abstract of the paper is available in the report under the Scientific publications chapter
Symposia Remote Sensing Applied to Soil Science/ 21st World Congress of Soil Science	12-17, August, 2018, Rio de Janeiro, Brazil	Public	Global	Research community	GEO-CRADLE partner from the Tel Aviv University, Prof Eyal Ben-Dor organised a session entitled “Remote Sensing Applied to Soil Science”. GEO-CRADLE partner, I-BEC was also present to present their joint work on the soil spectrology regional database. The session’s agenda is available online here .



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GEO-CRADLE at EUROGEOSS Workshop	12-14 September 2018, Geneva, Switzerland	Public, Poster sessio n	Europe	Research community, data providers and aggregators, SMEs	Co-organised by the Swiss Federal Office for the Environment, the European Commission with the support of the University of Geneva the event brings together the European Geo community on a yearly basis. The GEO-Cradle was showcased through a poster session and a pitch entitled "Hands on GEO-CRADLE". The conference's agenda is available publicly online here .
Academy of Athens partner at the 2nd LOTUS Workshop	17-19 September, 2018, Geneva Switzerland	Public	Europe	Research community	Organised by the World Meteorological Organisation. Kapsomenakis, J., C. Zerefos, K. ,Eleftheratos, A. Søvde Haslerud, I. Petropavlovskikh, S. Frith delivered a presentation on their paper <i>Ozone trends from lidar, sonde, SBUV and chemical transport model data</i>
Tubitak partner at the 7th Remote Sensing and Geographical Information Systems Symposium (UZAL-CBS 2018)	18-21 September, 2018, Eskisehir, Turkey	Public	Middle East	Research community	Tubitak attended the event with a booth showcasing their work on EO technologies and Horizon2020 projects, among which GEO-CRADLE.



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GEO-CRADLE at 14th International Symposium of Continuous Surface Mining	23-26 September, 2018, Thessaloniki, Greece	Public	Balkans, North Africa, Middle East	Research community	GEO-CRADLE Partners from the Greek Institute of Geology and Mineral Exploration participated in the Symposium and gave an oral presentation on <i>“Assessment of the Added-Value of Sentinel-1&2 for Mapping and Monitoring Surface Mining”</i> . The abstract of the presentation is available here . The work has been accepted for publication in a Special Issue of the International Journal of Mining and Mineral Engineering (IJMME) on: <i>Advances in Continuous Surface Mining</i> . The event was attended by approximately 150 attendees.
EARSC partner at the European INSPIRE Conference 2018	18-21 September, 2018, Antwerp, Belgium	Public	All	Research community, data providers & aggregators	During the event which was attended by approximately 400 participants, EARSC presented GEO-CRADLE at their stand and made available project flyers.
Tubitak partner meeting with the Turkish Water Management Authority	2 October, 2018, Istanbul Turkey	Closed	Middle East	End users	Tubitak meet with the local public authority to define the usage of EO technologies for their authority.



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GEO-CRADLE at Romanian Space Agency Annual Conference	11-12 October, 2018, Bucharest, Romania	Public	Balkans	All	The GEO-CRADLE project, as well as the Regional Data Hub we're presented during a session focused on "Data exploitation platforms" organised by project partner Eurisy.
GEO-CRADLE at COMECAP 2018	15-17 October 2018, Alexandroupolis, Greece	Public, Poster Session	Balkans	Research community	COMECAP 2018 brought together researchers in the areas of Meteorology, Climatology and Atmospheric Physics, as well as to present methodologies, modeling tools and theoretical approaches which will attract scientists and researchers from the international scientific community. GEO-CRADLE representatives introduced the SENSE pilot in a poster session dedicated to Observational Techniques from the ground and space/Satellite Meteorology and Climatology. The poster is available for view here . Polychroni I.D., Nastos P.T and Kapsomenakis J. from the Academy of Athens also delivered a presentation on "Combined extreme climate indices over the Mediterranean region. Variability and trends analysis" and "Initial validation of TROPOMI/S5P



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					<i>total ozone columns 133” and “Climatology of upper air temperature over the wider Greek region” which integrated data coming from GEO-CRADLE</i>
IPB partner at ClimateEurope Festival	17-19 October 2018	Public	Balkans	Research community, general public	Mr Zoran Mijic held a presentation on GEOCRADLE project activities during one of the sessions. The event was organised under Horizon2020 with the support of the European Bank of Investment.
International Workshop of Global Dryland Ecosystem	21-22 October, 2018, Beijing, China	Public	Global	Research community	Hosted by the Chinese Academy of Science, the GEO-CRADLE project and I-Bec’s work on their Soil Spectral Library has been presented the during the First Working Meeting of Global-DEP Interim Scientific Committee. Information on the event’s proceedings can be found online here .
Academy of Athens at the 1st Workshop on the Far-infrared Outgoing Radiation Understanding and Monitoring (FORUM) mission	23-25 October, 2018, Florence, Italy	Public	Global	Research community	Academy of Athens representatives presented their paper on “ <i>Validation and exploitation of the FORUM mission products using the PANACEA infrastructure of PANGEA Observatory</i> ”



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CEDARE partner at the EU Climate Week	25 October, 2018 Cairo, Egypt	Public	North Africa	All	Partners from CEDARE attended the event with a stand where they distributed flyers and information on the GEO-CRADLE project.
GEO-CRADLE at GEO Week 2018	29 October-2 November 2018, Kyoto, Japan	Public	Global	Research community, private and public data suppliers and aggregators	Over 500 people from diverse geographies, sectors and technical areas came together in Kyoto, to explore the efforts and opportunities for the use of Earth observations for the benefit of humankind, focusing on GEO's three priority areas: the Sendai Framework for Disaster Risk Reduction, the Paris Climate Agreement, and the UN Sustainable Development Goals. GEO-CRADLE and its partner, ERASC organised a side event on "Identifying, communicating and delivering the value of Earth Observations. A regional approach", which took place on Monday 29 October. The agenda of the side event is available here . The side event was attended by 40 people.
Academy of Athens partner at the meeting of the Attica Region on "Climate change and natural disasters"	31 October, 2018, Athens, Greece	Closed	Balkans	Research community	Mr Zerefos, C. attended the meeting and gave a presentation on " <i>Extreme weather phenomena and climate change: The case of Greece</i> "



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EuroGeoSurveys at Copernicus for Raw Materials	12 November, 2018, Brussels, Belgium	Public	Europe	All	Attending the event at the invitation of the European Commission, EGS representatives gave a presentation on <i>Assessment of the Added-Value of Sentinel data for supporting mapping and monitoring of mining areas: The GeoCradle project</i> . The event was attended by approximately 50 attendees.
EARSC partner at European Space Agency's 2018 Phi Week	12-16 November, 2018, Frascati, Italy	Public	All	Research community, StartUps, National, European and International space and value adding industry	EARSC attended the event with a stand where GEO-CRADLE flyers were made available.
INOE and Academy of Athens partners at ATMOS 2018	26-29 November, 2018, Salzburg, Austria	Public	Balkans	Research community, data providers and aggregators	Ms Calcan Andree presented a paper on "Romanian Ground-based and Airborne Approach in Support of ESA Cal/Val Activities". From the Academy of Athens, representatives also delivered a presentation on "Almost



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					one year of TROPOMI/S5P total ozone column data: global ground based validation". The programme and paper abstracts are publicly available online here .
Academy of Athens partner at Symposium of the Energy Committee of the Academy of Athens	30 November, 2018, Athens, Greece	Public	Balkans	Research community	Representatives from AOA delivered several presentations feeding into the European Energy and Climate Policy for 2030 and 2050.