Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe

PROJECT IMPLEMENTATION DOCUMENT NO.3

PERIODIC PROGRESS REPORTS SUBMITTED TO ERA-NET COMMITTEE

Joint Call on applied geoscience in the fields of:

- Geo-energy
- Groundwater
- Raw materials
- Information platform

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Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe

Deliverable 4.4

PERIODIC PROGRESS REPORTS SUBMITTED TO ERA-NET COMMITTEE

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GENERAL INTRODUCTION

GeoERA launched a Joint Call for Joint Research Projects [hereafter referred to as Projects] with the aim of enforcing more integrated and efficient management and more responsible and publicly accepted exploitation and use of subsurface resources. The Joint Call resulted in 15 GeoERA funded Projects running for three years, from July 2018 until June 2021. With the Projects, GeoERA aims to achieve the objectives set in Description of work (DOW). Progress of the Projects will be monitored regularly, since GeoERA's objectives depend upon their success.

The GeoERA Work package 4, "Follow-up and monitoring of projects resulting from the Joint Call", is concerned with the monitoring of the Projects to ensure timely delivery and quality of implemented Project activities, and whether they are in line with the Project's DOW and the strategic objectives, goals and scope of GeoERA (Joint call document no. 9: http://geoera.eu/wp-content/uploads/2016/11/GeoERA-Call-Document-No.-9-SRTs-20171017.pdf). The Projects report on their effectiveness of implementation, overall progress, achieving scientific and professional goals and theme objectives two times during the Project duration. The reporting and monitoring procedures with respective templates are described in two Project implementation documents: Monitoring indicators and procedures (Project Implementation doc. no. 1: https://geoera.eu/wp-content/uploads/2017/05/D4.1-Monitoring-Indicators.pdf) and Reporting templates (Project Implementation document no. 2: https://geoera.eu/wp-content/uploads/2017/02/D4.2-Reporting-Templates.pdf).

Project Agreement	The entire Project Agreement, including all its Appendixes.
DOW	Description of work – The Project Plan (Appendix 3 of the Project Agreement)
EB	Executive Board of GeoERA
MRO	Monitoring and Reporting Officer
MPPR	Midterm Project Progress Report
TRR	Technical Review Report
GE	GeoEnergy
RM	Raw Matherials
GW	Ground Water
IP	Information Platform

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1 REPORTING AND MONITORING PROCEDURE OVERVIEW

Each Project was required to submit Midterm Project Progress Report [hereinafter referred to as MPPR] until the end of January 2020 for the first reporting period, lasting from June 2018 till December 2019. After submitting the MPPR, the project progress was presented at the online Review meeting, participated by Monitoring and Reporting Officer [hereinafter referred to as MRO], Scientific reviewer(s), Theme Coordinator(s) and Stakeholder(s). Each participant represents monitoring and evaluation level of the project progress (see Table 1).

Evaluator fills the respective section of the document Technical Review Report [hereinafter referred to as TRR], which is part of Project Implementation document no. 2: Reporting Templates. The completed TRR is sent to Project Lead and is annexed to this report.

Table 1: GeoERA Monitoring and evaluation framework

Level	Aim	Evaluator	Method	Input → Output
1 – Monitoring of progress indicators	Monitoring effectiveness of implementation in respect to finance, time and administration	Monitoring and reporting officer	Desk-based	MPPR → TRR (section 1)
2 – Scientific review	Quality review of deliverables and review of achieved scientific and professional goals	Scientific reviewer	Desk-based	Deliverables; project impact → TRR (section 2)
3 – Review of the theme progress	Review of achieved theme Specific Research Topics	Theme coordinator	Desk-based	MPPR → TRR (section 3)
4 – GeoERA progress evaluation	Overall project progress and general recommendations	Stakeholder	Discussion at Review meeting	TRR (sections 1 – 3) → TRR (section 4)

1.1 Deviations in the procedure

Some deviations to the original timetable, set in Project Implementation documents 1 and 2, occurred. In the original plan, the Project submitted their MPPRs till the end of January 2020. In February the first three levels conducted the monitoring and evaluation. At the Review meetings in March, the last level 4 was filled. The actual course of events was sooner. The projects submitted their MPPRs already mid-January, the first Review meeting took place on 31st January 2020. Projects progress was evaluated at all levels on online meetings.

In tasks 4.3. of the GeoERA Grant Agreement it is determined that every project will be reviewed by two Stakeholder Council members. Due to the unforeseen circumstances regarding the COVID-19 pandemic, deviations in finalizing the TRRs occurred. Some evaluators were unreachable in March 2020, could not access notes from the Review meetings due to office

lockdown or could not deliver their review due to their personal situation. These circumstances prolonged the finalization and effected on the late submission of this report.

Stakeholders

For two projects (TACTIC and RESOURCE) the second Stakeholder should evaluate the progress at the event in March 2020 in Ljubljana, due to lack of time for the regular online Review meeting by the Stakeholders. Due to pan-epidemic, the Ljubljana event was cancelled, and therefore these two projects were evaluated by one Stakeholder Council member. The GeoERA Executive Board [hereinafter referred to as EB] decided, that the comments and recommendations provided by one Stakeholder per project are sufficient for the projects at this stage.

In order to ensure that most Projects were evaluated by two Stakeholders, and some Stakeholders had to cancel their participation at the last minute we organized additional Review meeting(-s) for these Stakeholder(s) with the Project core team.

At one of these concise Review meetings (GeoERA EuroLithos), the Stakeholder was present and provided valuable recommendations. Later, due to personal reasons, the Stakeholder was not able to provide a written report and approval of Level 4 in the respective TRR. The Stakeholder's recommendations were noted and included in the TRR, unfortunately without his final remarks.

In the final stages of the evaluation procedure, one Stakeholder informed us he could not provide worthwhile comments and recommendations to the five projects he reviewed (FRAME, Mintell4EU, GARAH, MUSE and HotLime) due to personell circumstances. All projects were reviewed by the other stakeholder, the comments and recommendations provided are sufficient for the projects at this stage.

1.2 Lessons learned

For the Final Project Progress Reports, each Project will need one month (July 2021) to write and submit the comprehensive final report. Also, the Scientific Reviewers, doing peer-review, will need time to read and evaluate final deliverables with deadline in June 2021. The general recommendation to all Projects is to submit all deliverables on time, without delays.

Some projects (mainly GIP-P and HOVER) need more time at Review meetings to present the main results and overall progress. For the Final Review meeting next year, the whole-day meeting is recommended.

To ensure the involvement and participation of Stakeholders, early date reservations are needed. We recommend to make/do Save-the-date as soon as possible, providing also details of what is expected from the Stakeholders and where the additional project material can be found.

During the evaluation process, it is essential to write notes and submit TRR to evaluators at other levels as soon as possible after the Review meeting is completed.

2 LEVEL 1 – MONITORING OF PROGRESS INDICATORS

The aim of monitoring is to check the effectiveness of implementation concerning finance, time and administration according to indicators set in the work of Projects Description [hereinafter referred to as DOW]. Geological Survey of Slovenia established the Monitoring team, which is in constant communication with the projects, provides support to Projects Leads and checks the submission of deliverables, consumption of finance and overall project management procedure.

Overall assessment of the Projects was ranked on a scale from 1 to 5. The assessment scale is explained in Table 2.

Table 2: Level 1 ranking of the Projects progress

Scale	Rank	Description
5	**Overachiever**	The project has achieved all objectives and goals for the period and has even exceeded expectations
4	**Excellent progress**	The project has fully achieved its objectives and goals for the period
3	**Good progress**	The project has achieved most of its objectives and goals for the period with relatively minor deviations
2	**Acceptable progress**	The project has achieved some of its objectives; however corrective action will be required
1	**Unsatisfactory progress**	The project has failed to achieve critical objectives and/or is not at all on schedule

2.1 Results

The average assessment of the Projects progress is 3,87, meaning the average project achieved rank 4 – fully achieved its objectives and goals for the period. Out of 15 Projects, two were ranked as 3, others achieved rank 4. Two Projects with lower scores are the most complex with diverse partnership, both are aware of delays and are working on catching up with the plan set in DOWs.

Project budgets were not planned per periods, but for the Projects as a whole, that is why the comparison with the plan for the first period is not possible. We expected around 50% consumption rate for the first half. Spending rates at the midterm of the projects are below 50% for the first reporting period, with a few exceptions. More details are summed in the tables below.

Table 3: Total consumption for all Projects for the first reporting period

Planned* PersonMonths	Reached** PersonMonths	Planned* total budget in EUR	Spent** budget n EUR
4.385,81	1.947,97	30.792.502,82	12.258.932,80
44,42 %		**39,81 %**	

**planned for the whole Project (36 months); **reached in first half (18 months)*

Table 4: Reached percentages per Theme

Theme	PersonMonth	Budget (in EUR)
Geothermal Energy	47,79 %	46,81 %
Ground Water	43,03 %	35,35 %
Raw Materials	43,61 %	36,54 %
Information Platform	38,91 %	35,28 %
Average	*44,42 %*	*39,81 %*

Projects with lower consumption rates were given recommendations to check the partners activities and consumption levels by the middle of this calendar year. In case the Project Lead expects major challenges on the Project or with a certain partner, the GeoERA Secretariat will intervene.

All Projects combined have planned to reach 494 deliverables, 188 in the first reporting period. Projects submitted 161 deliverables, 10 were due in December and were delayed, 17 were postponed to the second period with an amendment. Below are the results per themes.

Table 5: Finalized deliverables per Theme

Theme	Number of deliverables due in 1st period	Number of submitted deliverables until dec.19	Deliverable submission percentage	Number of delayed deliverables in dec.19	Number of deliverables postponed to 2nd period
Geothermal Energy	57	46	80,70 %	1	10
Ground Water	46	41	89,13 %	2	3
Raw Materials	54	48	88,89 %	2	4
Information Platform	31	26	83,87 %	5	0
Total	*188*	*161*	*85,64 %*	*10*	*17*

2.2 Recommendations for the Projects

Recommendations to the projects given by the Monitoring team:

- Pay attention to the work implementation and deviations from the Project plan – try to tackle deviations as soon as you can to minimize the consequences on the Project plan.

- Keep track of the communication and dissemination activities and try to count or estimate the people reached with these activities. The same is applicable for the meetings.

- Remind project partners, that may not be experienced in European funding, to use the support provided by the GeoZS Monitoring team and get familiar with rules and obligations that this funding is requiring.

3 LEVEL 2 – SCIENTIFIC REVIEW

Scientific review aims to evaluate the quality of submitted deliverables and achieved scientific and professional goals based on expected and reported impact. Every project deliverable has been evaluated by one or two Scientific reviewers and two data management reviewers. All deliverables of all Projects were accepted, some minor corrections were proposed for some of them, but otherwise the Projects are well on track.

Projects were assessed on the scale from 1 to 5, as an answer to questions: Has the quality as a whole been achieved according to the objectives? Has the project as a whole been making satisfactory progress? The ranking scale is explained in Table 6.

Table 6: Level 2 ranking of the Projects quality

Scale	Rank	Description
5	**Overachiever**	The project has achieved all objectives and goals for the period and has even exceeded expectations
4	**Excellent progress**	The project has fully achieved its objectives and goals for the period
3	**Good progress**	The project has achieved most of its objectives and goals for the period with relatively minor deviations
2	**Acceptable progress**	The project has achieved some of its objectives; however corrective action will be required
1	**Unsatisfactory progress**	The project has failed to achieve critical objectives and/or is not at all on schedule

3.1 Results

The average assessment of the Projects quality is 4, all Projects achieved rank 4 – fully achieved its objectives and goals for the period.

Table 7: Level 2 ranking overview per Theme

Theme	Average rank
Geothermal Energy	4
Ground Water	4
Raw Materials	4
Information Platform	4
Average	*4*

We expect that all Projects will achieve their targeted results in the second reporting period. The first reporting period was mainly focused on data collection activities, consequently more accurate scientific review at this stage was not possible. All Projects ranked 4 are adequate in achieved scientific results, with some minor recommendations.

3.2 Recommendations for the Projects

Overall recommendations to the Projects given by Scientific reviewers:

- Put more effort into describing the work done in the document Project Progress Report, sheet 4: Work packages.

- Data ownership should be better defined and described in metadata.

Other specific recommendations to each Project are detailed in the Technical Review Reports annexed to this document.

4 LEVEL 3 – REVIEW OF THE THEME PROGRESS

Throughout the implementation of the Projects in the first reporting period, Theme Coordinators have proven to be an essential part of cooperation among Projects and communication and dissemination activities within each Theme. Theme progress review aims are to evaluate the Projects contribution to the theme objectives. All Projects were reviewed by the respective Theme coordinator, except GIP-P and HIKE. Project GIP-P is the overarching Project, it combines data of all Projects into one comprehensive system. For its complexity and interconnection with other Projects, GIP-P was evaluated by all Theme coordinators. Project HIKE was evaluated by two Theme coordinators, the Geothermal Energy and Information Platform, because Geothermal Energy Theme coordinator is also HIKE's Project manager.

Projects were assessed on a scale from 1 to 5 as an answer to the question: Has the project as a whole achieved the objectives and expected impact of the Theme? The ranking scale is explained in Table 8.

Table 8: Level 3 ranking of the Projects progress

Scale	Rank	Description
5	**Overachiever**	The project has achieved greater impact on project theme and/or other themes than expected.
4	**Excellent progress**	The project has fully achieved its objectives and goals towards the theme as expected.
3	**Good progress**	The project has achieved most of its impact towards the theme for the period with relatively minor deviations.
2	**Acceptable progress**	The project has minor impact; corrective action will be required.
1	**Unsatisfactory progress**	The project has failed to achieve critical objectives and/or is not at all on schedule and/or has no impact on the theme; corrective actions are required.

4.1 Results

The average assessment of the Projects theme contribution is 3,57, meaning the average Project showed good to excellent progress. Out of 15 Projects, two were ranked 5, 4 Project were ranked 4, 8 Projects were ranked 3 and 1 was ranked 3,5.

Table 9: Level 3 ranking overview per Theme

Theme	Average rank
Geothermal Energy	4
Ground Water	3,75
Raw Materials	3,5
Information Platform	3,33
Average	*3,75*

Recommendations to the Projects given by the Theme coordinators are specific for each Project, details per Project can be found in TRRs annexed to this report.

5 LEVEL 4 - GEOERA PROGRESS EVALUATION

The aim/purpose of Level 4 is to evaluate overall Projects progress according to Stakeholders understanding and expectations towards Projects and the GeoERA project as a whole. Stakeholder views are valuable, since they can see a wider picture and through recommendations effect the GeoERAs impact.

Projects were assessed on a scale from 1 to 5, as an answer to the question: Has the Project as a whole been making satisfactory progress according to your understanding and expectations of the GeoERA project? The ranking scale is explained in Table 10.

Table 10: Level 4 ranking of the Projects progress

Scale	Rank	Description
5	**Overachiever**	The project has exceeded expectations.
4	**Excellent progress**	As expected.
3	**Good progress**	Minor recommendations given below.
2	**Acceptable progress**	Below expectations; minor corrective action will be required.
1	**Unsatisfactory progress**	The project has failed; corrective actions are required.

5.1 Results

As explained in the first chapter, not all Projects were evaluated by two Stakeholders. In case of two Projects, the second Stakeholder should evaluate the Projects at the Midterm event in March 2020 in Ljubljana, which was cancelled due do pan-epidemic. At the concise Review meeting of one Project, the Stakeholder was present and provided valuable recommendations, but later he was not able to provide a written report. One Stakeholder, participating at five Review meetings, informed us he could not provide a worthwhile comments and recommendations for all five Projects due to personell reasons.

<u>Summary:</u>
The GeoERA EB made an effort to commit the Stakeholders, 13 projects out of 15 were reviewed during the review meetings by 2 stakeholders, however eight of fifteen Projects were written evaluated by only one Stakeholder, instead of two. These Projects are: FRAME, Mintell4EU, EuroLithos, RESOURces, TACTIC, GARAH, MUSE and HotLime. Although unfortunate, this does not affect the quality of Projects progress now, nor the main focus in the upcoming period. For the final evaluation, the recommendations are given to involve Stakeholders earlier to ensure their interest in the Projects and participation at the Review meetings and provide written assessments and comments.

The average assessment of the Projects as viewed by the Stakeholders, is 3,9, meaning the average project achieved rank 4 – as expected. Out of 15 Projects, one was ranked 5 and one 4,5; 9 were ranked 4, and two 3,5 and two Project were ranked 3.

Table 11: Level 4 ranking overview per Theme

Theme	Average rank
Geothermal Energy	4,17
Ground Water	3,62
Raw Materials	3,87
Information Platform	3,5
Average	*3,90*

Recommendations to the Projects given by the Stakeholders are specific for each Project, details per Project can be found in TRRs annexed to this report.

6 COMMUNICATION AND DISSEMINATION ACTIVITIES

Within Level 1 monitoring of communication and dissemination activities were assessed separately. Projects and GeoERA as a whole through these activities, cooperate with other projects, target groups, stakeholders and end-users. The Projects reported on the activities in the MPPR, sheet communication, dissemination.

Based on the reported activities, the Projects were assessed on a scale from 1 to 5, as an answer to the question: Are the dissemination activities adequate? The ranking scale is explained in Table 12.

Table 12: Communication and dissemination ranking of the Projects progress

Scale	Rank	Description
5	**Overachiever**	The projects dissemination activities have exceeded expectations.
4	**Excellent progress**	The projects dissemination activities have fully achieved its expectations.
3	**Good progress**	The projects dissemination activities are adequate; however, some additional activities are needed.
2	**Acceptable progress**	The projects dissemination activities need corrective actions; additional activities are needed.
1	**Unsatisfactory progress**	The project has failed to disseminate.

To make reporting and follow-up easier, the criteria for reporting has been pre-defined. Table 13 shows the activities with subcategories and target groups, among which the Projects selected activities used for reporting.

Table 13: Pre-defined activities for Projects to select from in the MPPR

Activity	Subcategory
Publications	Papers; Abstracts; Scientific publications; Non-scientific publications; Thesis; Technical report; Other; Project-specific publications
Events	Workshop; Seminar; Conference (tele-conference); Training; Exhibition; Pitch event; Congress; Other
Meetings	Internal project meeting; Meeting with other GeoERA projects; Meeting with national body; Meeting with international body; Other
Media	Radio, TV; Online media; Other

Table 14 shows predefined Target audiences, among which the Projects selected the audience reached with specific communication and dissemination activity.

Table 14: Suggested target groups for Project to select from in the MPPR

	Target audience
Audience	Scientific community; General public; Policymakers; Media; EU institution; Non-EU institution; Other

6.1 Results

The average assessment of the Projects theme contribution is 3,8, meaning the average project achieved rank 4 –the Projects dissemination activities have fully achieved its expectations. Out of 15 Projects, two were ranked 5, 9 Project were ranked 4, 3 Projects were ranked 3 and one was ranked 2.

Table 15: Level 3 ranking overview per Theme

Theme	Average rank	Total reach
Geothermal Energy	4	69.246
Ground Water	3,5	49.582
Raw Materials	3,75	72.085
Information Platform	4	23.009
Average / Total	*3,80*	*213.922*

One Project ranked 5 does not have the highest reach, but the targeted approach towards stakeholders and efficient communication with them has declared the Project as Overachiever in this segment. The other Project is communicating with targeted groups via various social media, thus reaching 60.807 people, which is the highest reach among Projects.

Projects ranking 3 were given recommendations to improve their activities. Some of them did not report on the reach adequately and will be allowed to review the reported activities and submit corrected table/data.

One Project was ranked 2 - The Project's dissemination activities need corrective actions; additional activities are needed due to its unsatisfactory reporting on activities and target groups reached. The Project is advised to reconsider its communication and dissemination plan and put more effort into this aspect in the future.

Based on the reported projects activities in the MPPR, sheet “Communication, dissemination” analysis of communication and dissemination was made. All projects had 491 activities (Table 16), 57% were meetings and events and 43% publications and media. As expected, the Information Platform project, according to its cross-thematic role, has organized the largest number of meetings and events.

Table 16: Number of activities in the first period

Activity	No. of activity
EVENTS	136
MEDIA	111
MEETINGS	143
PUBLICATIONS	101
Total	491

Projects within the GE Theme had the highest number of media events and projects within the RM Theme had the highest number of publications (Table 17).

Table 17: Number of activities per theme

Theme	Number of projects	Average per project				
		EVENTS	MEDIA	MEETINGS	PUBLICATIONS	Total
Geothermal Energy	6	4,50	10,17	7,83	4,00	26,50
Ground Water	4	6,25	5,00	9,00	6,25	26,50
Raw Materials	4	12,00	5,50	8,25	13,00	38,75
Information Platform	1	36,00	8,00	27,00	0,00	71,00
Average per project / Total		**9,07**	**7,40**	**9,53**	**6,73**	**32,73**

Most of the activities were carried out through online media (21%) (websites, Facebook, Twitter, blogs), followed by internal project meetings (13%), meetings with other GeoERA projects and Project-specific publications and workshops (8%), meetings with the international body, conferences and congresses (7%), and papers and abstracts (5%).

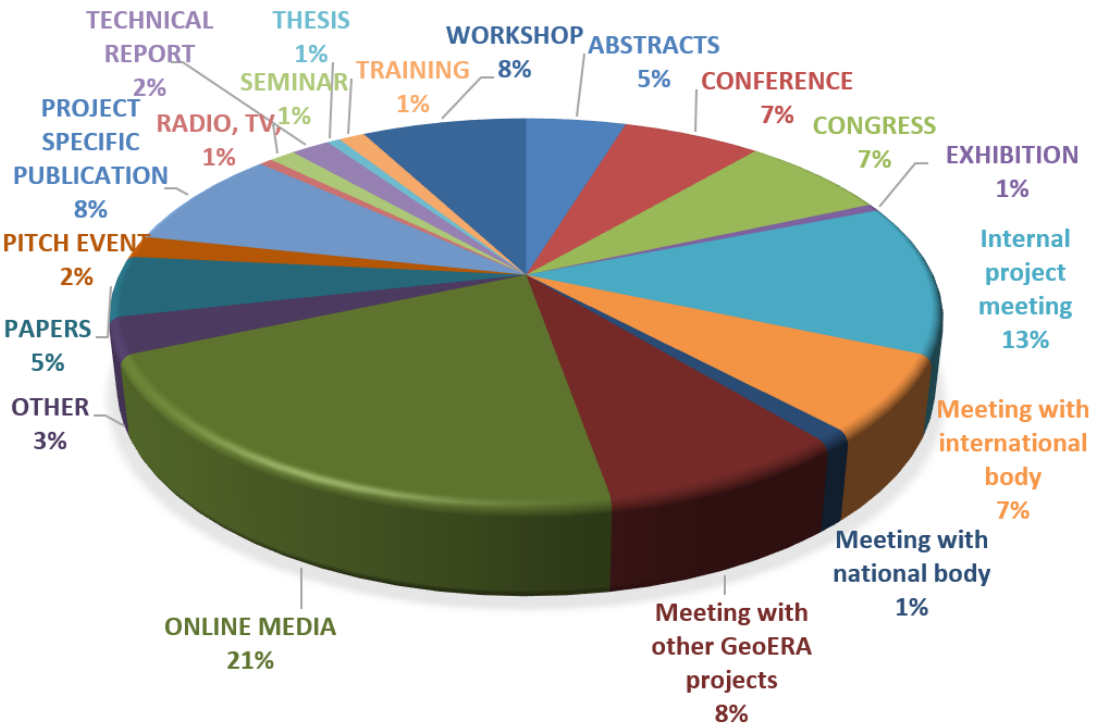

Table 18 shows all the activities per project.

	EVENTS									MEDIA				MEETINGS								PUBLICATIONS								
PROJECT	CONFERENCE	CONGRESS	EXHIBITION	OTHER	PITCH EVENT	SEMINAR	TRAINING	WORKSHOP	SUM	ONLINE MEDIA	OTHER	RADIO, TV,	SUM	CONGRESS	Internal project meeting	Meeting with international body	Meeting with national body	Meeting with other GeoERA projects	OTHER	WORKSHOP	SUM	ABSTRACTS	NON-SCIENTIFIC PUBLICATION	PAPERS	PROJECT SPECIFIC PUBLICATION	SCIENTIFIC PUBLICATION	TECHNICAL REPORT	THESIS	SUM	SUM
3DGEO-EU															13			4			17				7				7	24
EuroLithos	2	3				1			6						3	1		5			9				6				6	21
FRAME	2		1	2	1	2		1	9	13	2		15			2		3			5	4	1		6	4			15	44
GARAH		2						1	3	1			1		2	3		3			8					1			1	13
GeoConnect3										55			55		6	1		1	1		9	2		1	4				7	71
GIP-P	19	1		6	3			7	36	8			8		8	8	1	10			27									71
HIKE	1	1			4	1		5	12	3			3		1	1		3			5				1	1			2	22
HotLime	1	3					1		5						1	3	1	1			6	1	1	1	1				4	15
HOVER	1	4		1					6	6			6		13		1			1	15	4					3		7	34
MINDeSEA		5	2		1	1	5	9	23	4		3	7		2	3	1	4			10			4	11	5	6	2	28	68
Mintell4EU	6			1		1		2	10						4	4		1			9		2		1				3	22
MUSE		5						2	7		2		2			1	1				2				3				3	14
RESOURces		5						9	14	7			7	1	6	3		4			14	5							5	40
TACTIC		3							3	6			6	1	3	1		1			6	7	1	3	1			1	13	28
VoGERA		1						1	2	1			1			1					1									4
SUM	32	33	3	10	9	6	6	37	136	104	4	3	111	2	62	32	5	40	1	1	143	23	5	9	41	11	9	3	101	491

Table 18: Number of activities per project

Table 19: New structure of sheet “Communication, dissemination” in the MPPR

Activity	Subcategory	Date	SCIENTIFIC COMMUNITY	GENERAL PUBLIC	POLICY MAKERS	EUROPEAN INSTITUTION	NATIONAL INSTITUTION	REGIONAL INSTITUTION	LOCAL INSTITUTION	INTERNATIONAL INSTITUTION	PRIVAT COMPANIES	OTHER	Name of the Activity
			Number of people reached										
PUBLICATIONS	POSTER	12.11.2018	500		200	50							Raw Materials Week 2018 - Mineral Intelligence for Europe - Mintell4EU
PUBLICATIONS	ABSTRACTS	12.11.2018	500		200	50							Raw Materials Week 2018 - Mineral Intelligence for Europe - Mintell4EU
PUBLICATIONS	NON-SCIENTIFIC PUBLICATION	01.10.2019		500									Mineral & Gradnja, strokovna revija za gradbeništvo, stroje in opremo
ONLINE MEDIA	TWITER			10.000									
MEETINGS	INTERNAL PROJECT MEETING	10.02.2020	15										GIP-P PB meeting no. 17
ONLINE MEDIA	FACEBOOK			7.000									
MEETINGS	MEETING WITH OTHER GEOERA PROJECTS	27.-28.11.2018	15		15								Participation on the of MUSE's general meetings,
ONLINE MEDIA	YOUTUBE			1.800									
ONLINE MEDIA	PINTEREST			50									
EVENTS	WORKSHOP	2.-5.07.2018	120			3				3			GeoERA Project Kick-Off
ONLINE MEDIA	WEBSITE	1.10.2018		2.500									MINDeSEA website

6.2 Lessons learned

The analysis of communication and dissemination shows that Pre-defined project activities (Table 20) needs a modification. The analysis shows that new activity - “Online media” - has to be added and subcategories updated. Proposed new activities are shown in the Table 20.

Table 20: Proposed new Pre-defined activities for Projects

Activity	New Subcategory	Old Subcategory
Publications	Abstracts, Scientific Publication, Non-Scientific Publication, Thesis, Technical Report, Leaflet, Poster, Newsletter, Oral Presentation, White Paper, Other	Papers; Abstracts; Scientific publications; Non-scientific publications; Thesis; Technical report; Other; Project-specific publications
Events	Workshop, Webinar, Seminar, Training, Exhibition, Pitch Event, Congress, Other	Workshop; Seminar; Conference (tele-conference); Training; Exhibition; Pitch event; Congress; Other
Meetings	Internal Project Meeting, Meeting with Other GeoERA Projects, Meeting with Other Projects, Meeting, Other	Internal project meeting; Meeting with other GeoERA projects; Meeting with national body; Meeting with international body; Other
Media	Radio, TV, Newspaper, Magazine, Other	Radio, TV; Online media; Other
Online media	Website, Facebook, Twitter, YouTube, LinkedIn, ResearchGate, Blog, Newspaper, Pinterest, Other	

The analysis also shows that structure of the sheet “Communication, dissemination” in the MPPR needs a modification (Table 19), since projects could not report properly on the number of target audience reached and suggested target groups need an update (Table 21Table 21).

Table 21: Proposed new target groups

	New Target audience	Old Target audience
Audience	Scientific community, General public, Policymakers, European Institution, National Institution, Regional Institution, Local Institution, International Institution, Privat Companies, Other	Scientific community; General public; Policymakers; Media; EU institution; Non EU-institutions; Other

Some of the project's dissemination and communication strategies have to be updated, since targeted audience and dissemination objectives for each target group were not always clearly identified, as well as the appropriate communication channels. For most projects, the timetable for communication activities is missing.

7 CONCLUSIONS

Overall, the Projects achieved plans set in the DOW. All deviations were addressed at the Review meetings and recommendations were given also in Technical Review Reports. Besides the challenges due to COVID-19 pandemic, the Projects are on track to achieve results as planned.

Table 22: Overall overview of Projects progress per Theme

Theme	Average ranking in levels 1 - 4	Average ranking in communication and dissemination activities	Total reported target group reach	Deliverable submission percentage	Person Month consumption percentage (plan 36 months; actual 18 months)	Budget consumption percentage (plan 36 months; actual 18 months)
Geothermal Energy	3,91	4	69.246	80,70 %	47,79 %	46,81 %
Ground Water	3,78	3,5	49.582	89,13 %	43,03 %	35,35 %
Raw Materials	3,84	3,75	72.085	88,89 %	43,61 %	36,54 %
Information Platform	3,50	4	23.009	83,87 %	38,91 %	35,28 %
Total / Average	*3,76*	*3,80*	*213.922*	*85,64 %*	*44,42 %*	*39,81 %*

All Projects are encouraged to consider comments and recommendations given by evaluators to improve their implementation, achieve the best possible results and the best possible impact.

Based on the monitoring and evaluation procedure for the first reporting period, some reporting and procedural improvements will be considered for the second period. The improvements will be focused on timely and efficient reporting, scheduling of larger Project Review meetings, and reporting on communication and dissemination activities.

GeoERA and its Projects have a strong Pan-European character, combining 44 organizations with different background and different governments behind them. Some Projects are working more on Pan-EU databases, others are focusing on a common methodology, all connecting on different levels with stakeholders and end-users, mainly industry. The level of cooperation among Projects and organizations is high and is an important step into the right direction for achieving good results and expected impact on all levels, Project, Theme and GeoERA as a whole.

8 ANNEXES

PI doc. No. 2E Technical Review Report_3DGEO-EU

PI doc. No. 2E Technical Review Report_EuroLithos

PI doc. No. 2E Technical Review Report_FRAME

PI doc. No. 2E Technical Review Report_GARAH

PI doc. No. 2E Technical Review Report_GeoConnect3d

PI doc. No. 2E Technical Review Report_GIP-P

PI doc. No. 2E Technical Review Report_HIKE

PI doc. No. 2E Technical Review Report_HotLime

PI doc. No. 2E Technical Review Report_HOVER

PI doc. No. 2E Technical Review Report_MINDeSEA

PI doc. No. 2E Technical Review Report_Mintell4EU

PI doc. No. 2E Technical Review Report_MUSE

PI doc. No. 2E Technical Review Report_RESOURCE

PI doc. No. 2E Technical Review Report_TACTIC

PI doc. No. 2E Technical Review Report_VoGERA