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TWINN 2 SET

TWINNING TO SUSTAINABLE ENERGY TRANSITION

WP5: OUTREACH AND SUSTAINABILITY

DELIVERABLE 5.3 – FINAL PLAN FOR DISSEMINATION, COMMUNICATION AND EXPLOITATION ACTIVITIES

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FORTH INSTITUTE OF GEOENERGY

Universitetet i Stavanger

IFP Energies nouvelles

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ABBREVIATIONS

UiS	University of Stavanger
IFPEN	IFP Energies Nouvelles
IG/FORTH	Foundation for Research and Technology Hellas / Institute of Geoenergy
NCSR "Demokritos"	National Centre for Scientific Research "Demokritos"
IFE	Institute for Energy Technology
TUC	Technical University of Crete
NTUA	National Technical University of Athens
MOOCs	Massive Online Open Courses
CCS	Carbon Capture and Storage
UHS	Underground Hydrogen Storage
SET	Sustainable Energy Transition
TG	Target Group
CDE	Communication, Dissemination and Exploitation
KPI	Key Performance Indicator
KER	Key Exploitable Results

1 INTRODUCTION

1.1 Project overview

EU is facing a pressing challenge to make the transition towards a carbon neutral economy by 2050, with an intermediate target of 55% CO2 reduction emissions compared to 1990. Greece is lagging in the energy transition process due to several reasons, such as the high share of natural gas in the electricity generation mix on a permanent basis, the use of fossil fuels (lignite) in high-demand periods and a lack of industrial plans to exploit CO2 capture and storage technologies or the penetration of geothermal energy into the electricity mix.

Geosciences can play a fundamental role in energy transition through technologies that make use of underground resources, such as the geological storage of CO2 and hydrogen and as a source of geothermal energy. This was the foundation of the TWINN2SET project, a partnership between the Institute of Geoenergy of the Foundation for Research & Technology – Hellas (EL), the University of Stavanger (NO) and the IFP Energies Nouvelles (FR). As a Twinning project, the focus falls onto knowledge exchange, mentoring and capacity building of the widening partner in the domains of a) Carbon Capture and Storage (CCS), b) Deep Geothermal Energy and c) Underground Hydrogen Storage (UHS). Complementary to the educational programme is the research part of the project which will focus on UHS, fostering interdisciplinary competencies at the interplay of a promising energy vector with subsurface reservoir characterisation, modelling, and monitoring. Overall, the TWINN2SET project provided a coherent network that strengthened interactions between members of the consortium and enabled the newly established IG/FORTH to participate in the European R&I process on Energy Transition.

1.2 Scope of WP5 Outreach and Sustainability

The objectives of WP5 – Outreach and Sustainability were to achieve the highest possible visibility and impact of the TWINN2SET project through continuous communication and dissemination of project results and to raise awareness at the national and EU level during and beyond the project's lifecycle. WP5 included the development of a Communication, Dissemination and Exploitation (CDE) strategy and monitoring framework of outreach and networking activities; the set-up of an advanced High Pressure-High Temperature Lab facility at IG/FORTH with specifications provided by the advanced partners; the formulation of a common research strategy for the project and beyond.

1.3 Scope of D5.3 Final Plan for Communication, Dissemination and Exploitation activities

Task Leader: IG/FORTH; Partners involved: UiS, IFPEN; task duration: M1-M36

The CDE Plan set the roadmap for the effective implementation of TWINN2SET actions to embrace stakeholders in the project's outcomes and maximize its impact. The plan consisted of three main sectors (Figure 1):

- **Communication** – aimed at raising public awareness on issues related to the energy transition and making the scientific aspect of all related technologies accessible to the non-specialist.
- **Dissemination** – aimed at promoting the project's results to the scientific community and training the next generation of scientists on topics related to sustainable energy transition (SET).
- **Exploitation** – aimed at the promotion of technical knowledge generated through the project to end-users and the potential uptake of produced tools by the industry.

A suite of tools, methods and channels were used to reach the objectives of the Communication, Dissemination and Exploitation Plan, each suited to the specific needs of the target audiences.

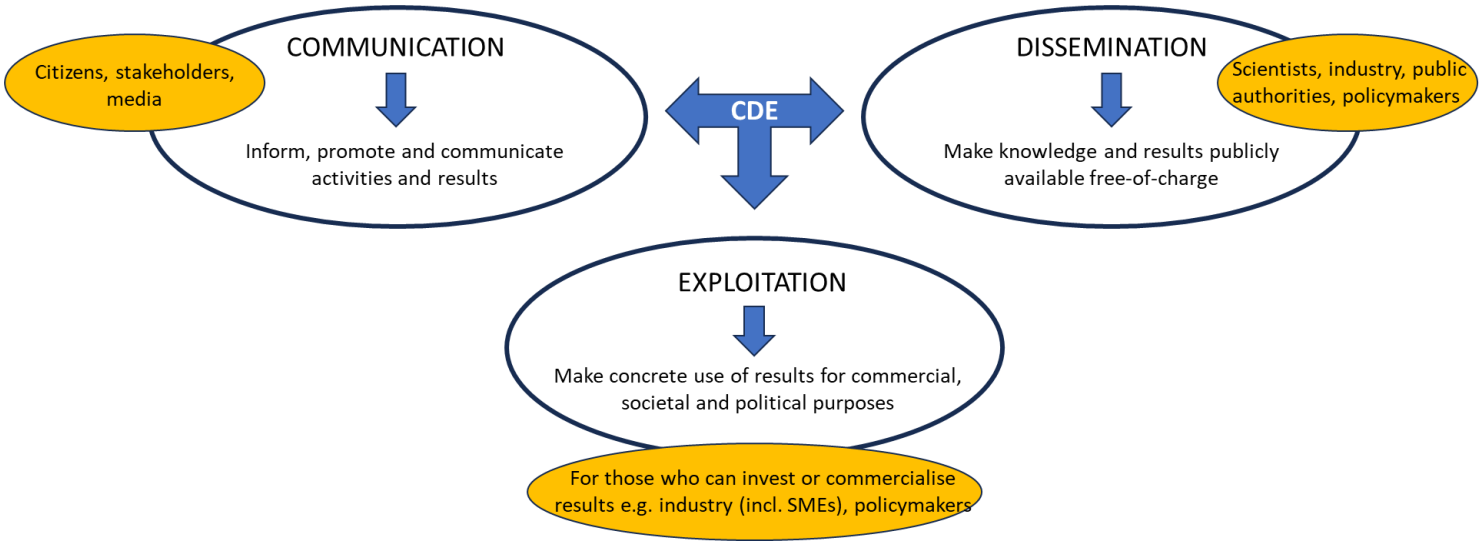

Figure 1. Sections, objectives and target groups of the Communication, Dissemination and Exploitation Plan.

1.4 Internal communication

Internal communication plays a vital role in ensuring an efficient execution of the project to maximize results. It is key to guarantee clear communication among partners and facilitate the exchange of ideas and interaction between work packages.

The members of the consortium had the chance to communicate through:

- Project meetings: held annually with physical attendance and virtually. All partners participated and updated the whole consortium on the state of the project and discussed the upcoming steps. Four project meetings have been accomplished with physical attendance, the kick-off meeting in September 2022, the 2nd year project meeting in September 2023, the 3rd project meeting took place in January 2025 in Athens and the final project meeting in March 2026 all at IG/FORTH premises.
- Technical meetings: held in-between project meetings with either physical attendance or online. A technical meeting was held at IFPEN in January 2024 with physical participation. A virtual technical meeting was held in March 2024 with participants from all partners to prepare the project's midterm report. A 3rd technical meeting took place virtually in October 2025 "Establishment of a specialized laboratory for the interaction of hydrogen with porous media and surface fluids".

The main tools used by partners for periodic communication was:

- Email: a project mailing list was created. The list included the contact details of all staff involved in the project and identified the contact person from each partner for every work package.
- Teams: this platform was used to host video calls among partners
- Google drive shared folder (TWINN2SET)

The involvement of all partners was key for the successful dissemination of the project and every partner allocated time to dissemination and communication activities. Partners supported dissemination by:

- Making presentations referring to the project/about the project at conferences and other events and shared them within the consortium partners
- Keeping records of all dissemination activities (such as presentations in an event) as those were needed for reporting purposes.
- Using their institution's communication tools to support the dissemination of TWINN2SET (website, newsletters, social media accounts…)
- Linking TWINN2SET 's website to their own websites
- Inviting colleagues/interested parties to sign up for the TWINN2SET 's newsletter and follow the project on social media channels.
- Circulating TWINN2SET's materials (e.g. leaflets, policy briefs, reports) to colleagues/ potential interested parties that were not on the project's mailing list.

2 Communication, Dissemination and Exploitation Plan (Task 5.1 of proposal)

2.1 Target groups

We identified 6 target groups (TG) that the Communication, Dissemination and Exploitation Plan will reach out to. These were:

TG1 TWINN2SET scientists and support staff, early-stage researchers, and students

TG2 The scientific/academic community

TG3 Heavy-emitting industry

TG4 Financial actors

TG5 Policymakers/Governmental bodies

TG6 Energy Communities

TG7 Citizens & NGOs

2.2 Messaging

Table 1. Messages intended for each TG and methods used to achieve their communication.

TG	Need	Method
TWINN2SET scientists and support staff, early-stage researchers, and students (TG1)	Building excellence, strengthening of the scientific and innovation capacity of the newly established IG/FORTH. Train the future generation of scientists and future professionals on the skills required by the green economy. Career development of young scientists	Technical training through MOOCs on energy transition Summer schools & field visits Short-term visits to advanced partners. Joint case studies between IG/FORTH and each of the advanced partners. Organisation of conference at the end of the project. Workshops on soft skills development (gender aspects on energy transition, ethics, RRI, the economy of hydrogen, IPR protection).

	Strengthen the research management capacities and administrative skills of IG/FORTH	Workshops on proposal preparation, grants management and IP management.
Scientific/academic community (TG2)	Increase the international visibility of IG/FORTH through networking and building collaborations.	Conference attendance, open-access publications and joint research strategy with advanced partners, networking strategy. Funds allocated for invited speakers at dissemination events.
Heavy-emitting industry (TG3)	Exploration of adoption pathways of CCS, UHS and geothermal energy by heavy emitting industries and interactions between standardisation bodies and investors.	Workshops with major emitting industries requiring to drastically reduce their direct environmental footprint
Financial actors (TG4)	Foster dialogue for a common vision on Sustainable Energy Transition (SET) among important actors of society, especially of the Cretan ecosystem, such as policy makers, industries, businesses, financial institutions, NGOs, and the public.	Policy briefs aiming at the inclusion of geothermal energy, UHS and CCS in the national roadmaps as enablers of energy transition. Development of a decision-making tool for the relevant authorities/agencies on UHS.
Policymakers/Governmental bodies (TG5)		
Energy communities (TG6)		Workshops on citizen engagement by involving energy communities in Crete
Citizens & NGOs (TG7)		Website, social media (Twitter + LinkedIn), YouTube, visual identity and two videos (onset & end of the project), newsletters, factsheets, collaboration with Europe Direct, local press and participation at local events.

3 Communication channels

3.1 Visual identity

Logo. A common branding was developed during proposal preparation to ensure an immediate recognition of the project. The logo, as the visual messenger of the project, will be used by all templates, reports, and dissemination activities throughout the project (Figure 2).

Figure 2. TWINN2SET logo

Dissemination templates. Templates for Microsoft Word, Microsoft PowerPoint, and Microsoft Excel were developed by IG/FORTH. TWINN2SET partners will use these during the project for presentations, reporting,

newsletters, etc. The templates were developed following any applicable rules and regulations of the European Commission.

Disclaimer. As included in TWINN2SET's Grant Agreement, all the material used in the Communication and Dissemination of the project must contain the EU Disclaimer (Figure 3). All partners are invited to use the following disclaimer:

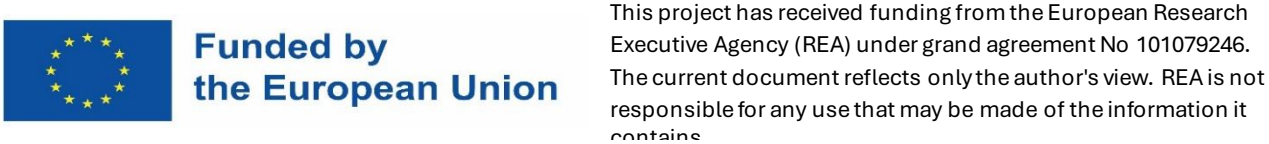

Figure 3. TWINN2SET disclaimer

3.2 Website

The website is the main communication and dissemination platform of the project, allowing stakeholders and others to access the project aims, development, and results. It reflects the support of the EU Commission. The TWINN2SET project website is secured within IG/FORTH servers at the following address: https://twinn2set.ig.forth.gr/

The homepage of the website presents a few key facts to spark the interest of the visitor and comprises of six sections: Project, Partners, Activities, People, Recruitment and Events/News (Figure 4).

The website gives access to all public deliverables, the bi-annual newsletter and promotes relevant content (news, videos, events) for the key stakeholder groups. It was regularly updated to include the significant flow of research (such as laboratory set-up, experimental work, publications, talks and poster presentations) and milestones.

To increase outreach, the website is directly connected to the project's social media profiles (LinkedIn, Facebook) for a wider dissemination to technical and non-technical audience and linked to all partners websites.

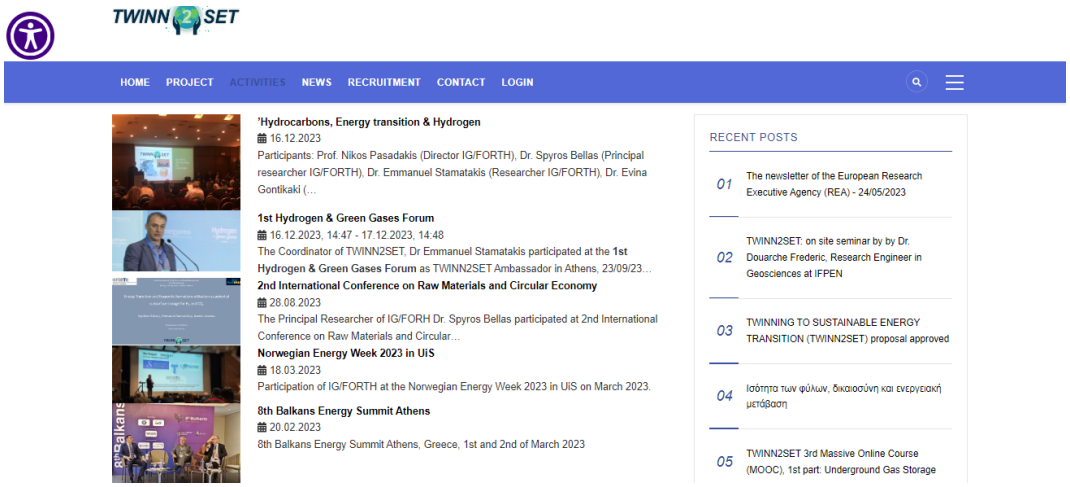

Figure 4. TWINN2SET website.

3.3 Social media

News and events relative to the TWINN2SET project were announced at the official accounts of IG/FORTH in Facebook (https://www.facebook.com/ig.forth) and LinkedIn (https://www.linkedin.com/in/institute-of-geoenergy-b18a39254/) and the LinkedIn accounts of UiS (https://linkedin.com/school/university-of-stavanger/) and IFPEN (https://www.linkedin.com/school/ifp-school/).

3.4 Promotional material

The TWINN2SET brochure (Figure 5, left) was developed to raise awareness and increase the project's visibility among the non-specialist community as well as relevant stakeholders. It was distributed to partner organisations for further distribution through their networks and channels and on public events. Paper printouts were kept to a minimum for environmental reasons. A banner was also created for citizen events, exhibitions and summer schools (Figure 5, right).

Figure 5. TWINN2SET promotion material (brochure on the left, banner on the right)

3.5 Newsletters

An annual newsletter was created to provide updated information about the project to the relevant key stakeholders. The newsletter was sent electronically and uploaded on the project website, and consortium partners shared it via their respective mailing lists.

The objectives of the newsletters were to:

- Increase public awareness regarding Energy Transition
- Increase the project's visibility
- Communicate the project's results and activities to the public
- Increase website traffic
- Collect feedback

The design of the newsletter was in-line with the pre-defined visual identity.

The 1st newsletter of TWINN2SET was published during the 1st period of the project and is available using the following link: https://twinn2set.ig.forth.gr/node/237

Then 2nd and 3rd newsletters of TWINN2SET were released on July 2024 and on January 2025 respectively and are available online at the following links: https://twinn2set.ig.forth.gr/node/275 and https://twinn2set.ig.forth.gr/node/276.

3.6 Press releases & local press/events

Articles in local press were pursued throughout the project. The partners participated also in local exhibition & fairs, Europe Direct events, MSCA and Citizens events (formerly called "Researcher Nights").

Examples of communication in local press and news webpages related to TWINN2SET are listed below:

- Article in local press on the TWINN2SET workshop "Gender aspects of energy transition". https://www.haniotika-nea.gr/imerida-institoytoy-geoenergeias-toy-ite-sta-chania/
- Article in thematic magazine on the TWINN2SET event for the public on the "Social Impact of Energy Transition". https://www.thermoydravlikos.gr/stis-3-oktovrioy-sta-chania-i-imerida-toy-ite-gia-tis-koinonikes-epiptoseis-tis-energeiakis-metavasis/

A featured article (Figure 6) was published in the Innovation News Network and was included in the 16th edition of the quarterly publication of the magazine (The Innovation Platform Issue 16, pp 277). https://www.innovationnewsnetwork.com/twinn2set-twinning-to-sustainable-energy transition/39883/

Figure 6. TWINNSET's article, Inn. News Network, 15/11/23

3.7 Promotional videos

Videos from outreach events have been uploaded on IG/FORTH's YouTube channel:

www.youtube.com/@instituteofgeoenergy7456

3.8 Workshops with non-academic actors (Task 5.2 of proposal)

Workshops with actors in heavy emitting industries, such as cement production (e.g TITAN) and chemical companies, consumer goods companies as well as oil and gas (e.g MOTOR OIL). These workshops will also host policy makers, targeting awareness raising and stimulation of mutual understanding of the industry challenges underpinning the transition to a green economy.

TWINN2SET co-organised together with TRIĒRĒS project (coordinated by Motor Oil) a workshop on H2, CCS & Geothermal Value Chains (Figure 7). The workshop took place in Athens on the 22nd of January 2025 where a total of 30 experts and stakeholders across the value chains met together to discuss innovative projects and solutions driving the energy transition.


MOTOR OIL FORTH

Workshop on H2, CCS & Geothermal value chains

Venue 'Banquet Royal Olympic Hotel', Athens

Wednesday 22/1/2025

Draft agenda

11.30 – 12.00 Welcome coffee & registration

Keynote Speech

12.00 – 12.30 Strategic steps for the green transition of Motor Oil, a multi-energy group: the vision for 2030 – (George Mitkidis, Head of Alternative & Renewable Fuels Department, Strategy Division, Motor Oil)

Session I – H2 value chain (Moderator: Dr. Emmanuel Stamatakis, FORTH/IG)

12.30 – 13.00 Green hydrogen projects (ZEMYNA & TRIERES) – the way to decarbonise industry and transport sector (Dr. Stella Giannisi, Hydrogen Expert, Alternative & Renewable Fuels Department, Strategy Division & Vasiliki Panaretou, Technical Expert, EU Affairs Directorate, Motor Oil)

13.00 – 13.30 Paving the way for a clean hydrogen economy in Europe (GreenSkillsforH2) - The example of Western Macedonia Region (Eleni Papista, CLUBE)

13.30 – 14.00 The CRAVE-H2 hydrogen valley (Kyriakos Panopoulos, CERTH)

14.00 – 14.30 Building a better future with renewable hydrogen (Dimitris Triantafyllopoulos, CEO HELLENIC HYDROGEN)

14.30 – 15.00 H2 Technologies and Transportation Applications (George Kaplanis, MES Energy, Expert H2/EV Consultant & Evaluator @ European Union)

15.00 – 15.30 Salt Cavern Integrity for Hydrogen Storage (Raouf Ghalami, Prof. University of Stavanger)

15.30 – 16.00 Break

Session II – CCS and Geothermal value chain (Moderator: Dr. Spyros Bellas, FORTH/IG)

16.00 – 16.30 Deep Decarbonization in Refineries: The IRIS Project Approach (George Daskalakis, Head of Technology Management Department, Strategy Division, Motor Oil)

16.30 – 17.00 Geothermal energy and legislation framework in Greece (G. Tsifoutidis, Ministry of Energy and Environment, Geothermal Department)

17.00 – 17.30 Renewables under the Geothermal approach of PPC# (E. Spyridonos, Public Power Corporation – Renewables)

17.30 – 18.00 Building of a complex sediments-volcanic static model inspired from Milos island, an essential step before dynamic geothermal modeling (Matilde Adelinet, IFPEN)

18.00 – 18.30 Closure & sum-up

TRIĒRĒS TWINN2SET

Figure 7. Workshop on H2, CCS & Geothermal value chains co-organised with TRIĒRĒS project.

Additionally, IG/FORTH participated in two 2-day workshop/events with non-academic factors. Dr. Spyros Bellas represented the Institute of Geoenergy, after a formal invitation from the CEO of HEREMA, Dr. Aristofanis Stefatos, participating in closed meetings and discussions with national and EU experts in CCS technology as well as with local stakeholders. In particular, the first workshop titled "Capacity Building Workshop on Carbon Capture Storage" was co-organised between HEREMA, the leading international think tank Global CCS Institute and the Dutch energy company Energie Beheer Nederland (EBN) on 25-26 of September 2024 in Athens, Greece (Figure 8). An affiliated member of IG/FORTH, Vasilis Gaganis, also attended this workshop with a presentation as seen in the workshop agenda (Figure 8).

Figure 8. Participation in "Capacity Building Workshop on Carbon Capture Storage".

The second event titled "5th Industrial Carbon Management ICM Forum" was co-organised on 8-9 of December 2025 in Athens, Greece by HEREMA and the European Commission's Directorate-General for Energy (DG ENER) (Figure 9).

Figure 9. Participation in the 2-day event "5th Industrial Carbon Management ICM Forum".

4 Dissemination channels

4.1 Massive Online Open Courses (MOOCs)

MOOCs on energy transition, geothermal systems, subsurface storage (CCS and UHS), and reservoir monitoring were offered by IFPEN's IFP School. This prestigious programme is offered primarily to PhDs and master students of IG/FORTH but participants from collaborating institutions is possible if places are available. Three (3) rounds of MOOCs were foreseen in the project proposal. The 1st round was completed successfully in 2023 with the following courses:

- Introduction to energy transition (1 week online)
- Geothermal energy (2 weeks online/on-site)
- Underground gas storage (6 weeks online/on-site)
- Subsurface gas systems (1 week/virtually)
- Reservoir monitoring (1 week/virtually & on-site)

Despite the success of the 1st round of MOOCs, it was agreed between partners (and accepted by the PO) that replacing rounds 2 and 3 with more specialised one-to-one mentoring on specific topics of interest would present greater benefits to IG/FORTH students and staff (see section 4.2 below).

4.2 One-to-one mentoring/coaching scheme: 5 different topics per year

The one-to-one mentoring/coaching scheme came to replace MOOC rounds 2 and 3 (in 2024 and 2025). IG/FORTH proposed specific topics related to current and future research interests in the institute. Mentoring of involved staff and students was performed virtually.

Potential topics suggested by IG/FORTH for consideration by IFP school are:

- Biomarkers analysis in sediments and rocks
- Hydrates phase behavior in CCS operations
- Isotopic analysis of organic mixtures in the subsurface - Gas systems & isotopic characterization
- Geothermal systems (deep geothermal & hot dry rock)
- Gold hydrogen (extracting golden hydrogen from depleted oil reserves by adding bacteria)
- LOHC (liquid organic hydrogen carriers) – reversible hydrogenation

Mentoring on two of the topics (shown in red) has been successfully completed.

4.3 Summer schools

Two summer schools were successfully organized in Greece with a vision to engage young scientists in energy transition concepts and technologies with special focus on the role of geological storage in shifting to a carbon free economy. The schools were held in English, in a hybrid format and were open to students, ESRs and the wider academic community in Greece.

Figure 10. 1st summer school organisedby TWINN2SET project (more info: https://twinn2set.ig.forth.gr/node/274)

Both summer schools took place in Chania, Greece, at the premises of the Technical University of Crete. The first school was delivered on 1-5 July 2024 (Figure 10) and the second on June 30 to July 4 2025 (Figure 11). The agendas can be found in the following links for the 1st summer school (https://twinn2set.ig.forth.gr/node/272) and for the second one (https://twinn2set.ig.forth.gr/node/281).

Figure 11. 2nd summer school organized by TWINN2SET project (more info: https://twinn2set.ig.forth.gr/node/282)

4.2 Field visits

The TWINN2SET training program included 3 field visits which were all completed successfully (Figure 12).

Figure 12. Field trips organized by TWINN2SET project

The first geological field trip took place in Chania, Greece on the 27th of September 2023 and aimed to increase knowledge of the sub-surface and explore potential reservoir sites (https://twinn2set.ig.forth.gr/1st_Field_Trip_Chania).

The 2nd field trip was held at the DMX CO2 capture unit, an IFPEN's industrial pilot plant of the EU-funded project "DMX Demonstration in Dunkirk", in Dunkirk, France on February 1st 2024 focusing on CO2 capture technologies from industrial activities (https://twinn2set.ig.forth.gr/node/252).

Finally, the 3rd field trip took place in Aedipsos, North Euboea Island, Greece, a geothermal area of interest, on January 24 2025 (Figure 13).

Figure 13. The field trip guides created by IG/FORTH for the 1st and 3rd field trips (available upon request)

4.3 Staff and Student exchanges / expert visits

Staff exchanges between the IG/FORTH and the advanced partners will be taking place every year. Short-term staff exchanges will be available for senior researchers, postdocs, ESRs, PhD students, as well as administrative research support staff. The exchange duration for senior staff members is up to 1 week while ESRs, postdocs, and PhD student visits will range between 2 to 4 weeks.

Two 2-week internships of PhD students from IG/FORTH were conducted, one at UiS (May 2023) and one at IFPEN (July 2023), focusing on underground gas storage and the characterization of hydrogenotrophic microbes respectively. Moreover, a staff exchange between IG/FORTH and IFPEN took place in October 2024 (21-25 October) where a staff member of IG/FORTH travelled to the IFPEN premises for training on GC-IRMS.

A 6-month master internship on environmental microbiology was also offered and took place at IFPEN between February-July 2024 focusing on the characterization of hydrogenotrophic microbial populations in H2-rich deep environments using cultivation methods.

Expert staff from IFPEN visited IG/FORTH for the teaching of MOOCs but also for the delivery of on-site seminars/workshops. Also, staff from UiS and IFPEN visited IG/FORTH for project meetings and participated in workshops/seminars and field trips organised during those days.

4.4 Workshop series on soft skills including project administration and management.

The series of workshops on soft skills is aimed at the career development of ESRs and students involved in TWINN2SET. These include seminars and workshops on (no. of workshops on each topic in parenthesis):

- Gender aspects (2)

- Open science with focus on the reproducibility of results (2)
- Responsible Research and Innovation (1)
- Ethics (1)
- Hydrogen economy, CCS, and its value chain (1)
- Citizen engagement (3)

The soft skills series includes also workshops on enhancing research management and administration skills:

- Project management/administration (1)
- Mapping funding opportunities (3)
- Proposal preparation and time management (1)

All promised workshops on soft skills (7) have been successfully completed. In particular, 2 workshops on "Gender Aspects" were conducted with physical presence in Chania, Grete, Greece (10/2022, 3/2026). Two workshops were organised on "Open Science", one with physical presence in Stavanger, Norway (3/2023) and one online by IFPEN on March 2026. A workshop on "Responsible Research and Innovation" was given in Chania on June 2025 titled "Synergies for Impact: DESSERT and TWINN2SET projects", https://www.dessert-project.eu/synergy-for-impact-workshop-2025/ (Figure 14). TWINN2SET co-organised a workshop with TRIERES project on "Hydrogen economy, CCS and its value chain" in Athens, Greece on January 2025 (Figure 7). Finally, a workshop on "ETHICS BY DESIGN-THE CHANGER TOOLKIT" was given by Dr. Vasiliki Mollaki on March 2026 (Figure 14).

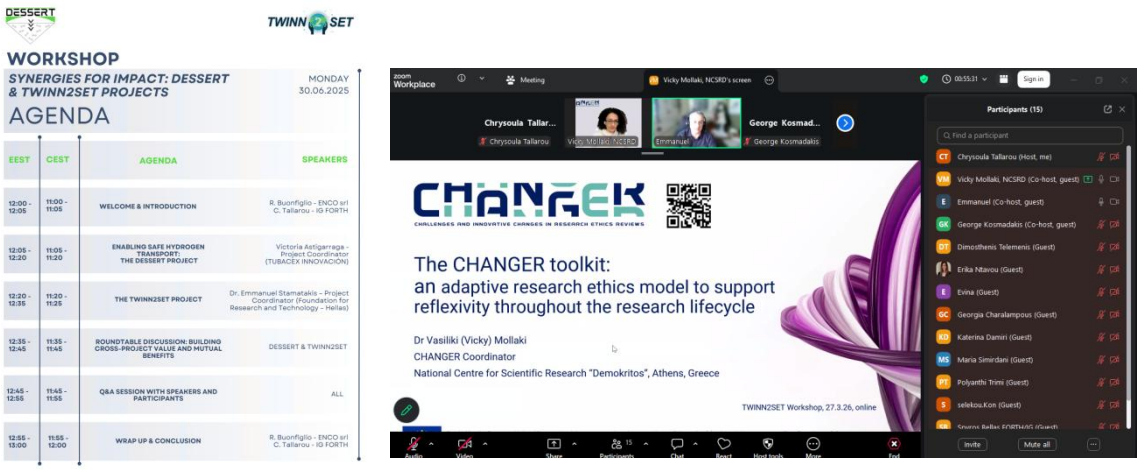

Figure 14. Workshop agenda on "Responsible Research and Innovation" (left) and snapshot of presentation of the online workshop on "Ethics" (right).

In terms of workshops on "Enhancing Research Management and Administration Skills", 2 of 3 physical workshops were conducted on "Mapping funding opportunities", the one at IFPEN premises in Paris, France on January 2024 and the other online on March 2026. Moreover, two workshops were organised with representatives of the advanced partners as expert speakers. The first took place in Chania, on September 2023, where Katrine Peck Lim from the UiS and member of the TWINN2SET's project steering committee gave a lecture on "Research Management Support" (Figure 15). The second workshop on Intellectual Property was given by Ms Emmanuelle Cecchi from IFPEN on July 2024, in Chania, Crete, Greece (Figure 15).

Figure 15. Workshop announcement for the 1st workshop on Enhancing Research Management and Administration Skills (left) and agenda of Day 1 of the 1st Summer School referring to the second workshop on "Management of Intellectual Properties"(right).

Regarding citizen engagement workshops, IG/FORTH organised an event on 28/9/2023 with support from TWINN2SET. The half-day event included talks and a photography exhibition on the topic "Energy transition and climate change" (Figure 16).

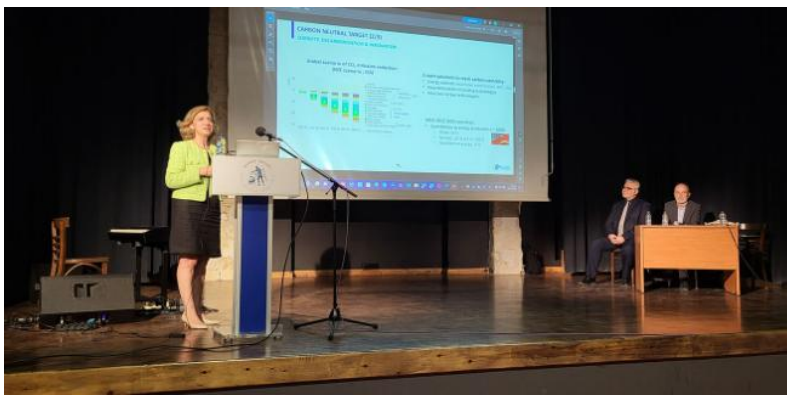

Figure 16. Citizen engagement event organised by IG/FORTH

In addition, the TWINN2SET project was actively represented in two more citizen engagement events, the Researchers Night that takes place annually, in the end of September, in FORTH premises in Heraklion (TWINNING represented in 2024 & 2025) and Innovation Days (InnoDays) event which was held on 28-30 of November 2025, both in Heraklion (Figure 17).

Figure 17. Participation of TWINN2SET at InnoDays (left) and Researcher's Night (right)

4.5 Scientific publications

The partners joined forces to generate scientific publications of high quality. At least 2 training and mentoring activities will take place to foster the skills needed by IG/FORTH staff to achieve high impact publications. Information on indicative subjects and potential publication outlets of high impact factor (IF>3) that will arise from staff exchanges, expert visits etc. is included in the Joint Research Strategy (Task 5.5).

A list of peer-reviewed publications is presented below:

1. Mojtaba Ghaedi, Raoof Gholami, Spyros Bellas, Emmanuel Stamatakis, "Capillary trapping in CO2 storage Sites: A traffic light system for preliminary leakage risk assessment", Gas Science and Engineering, Volume 145, January 2026, 205807; https://doi.org/10.1016/j.jgsce.2025.205807
2. Mojtaba Ghaedi, Raoof Gholami, Spyros Bellas, Emmanuel Stamatakis, "Hydrogen-Brine-Calcite Geochemical Interactions During Underground Hydrogen Storage", Greenhouse Gases: Science and Technology (2025); https://doi.org/10.1002/ghg.2368
3. Polyanthi-Maria Trimi, Spyridon Bellas, Ioannis Vakalas, Raoof Gholami, Vasileios Gaganis, Evangelia Gontikaki, Emmanuel Stamatakis, Ioannis V. Yentekakis, "A Review on Caprock Integrity in Underground Hydrogen Storage Sites: Implication of Wettability, Interfacial Tension and Diffusion" accepted for publication, Hydrogen 2025, 6, 91; https://doi.org/10.3390/hydrogen6040091
4. M Ghaedi, R Gholami, S Bellas, E Stamatakis, "Evaporation-induced salt precipitation and dry-out evolution during hydrogen storage in geological porous media", International Journal of Hydrogen Energy 102, 1306-1314 (2025); https://doi.org/10.1016/j.ijhydene.2025.01.141
5. Chryssoula Tallarou, Anastasios Labropoulos, Stavros Stavropoulos, Nikos Pasadakis, Emmanuel Stamatakis, Spyros Bellas, Raoof Gholami and Ioannis Yentekakis, "A Combined Experimental and Computational Study on the Effect of the Reactor Configuration and Operational Procedures on Formation, Growth and Dissociation of Carbon Dioxide Hydrate", Sustainability, 16(20), 8854 (2024); https://doi.org/10.3390/su16208854
6. Nikolaos Chalkiadakis, Emmanuel Stamatakis, Melina Varvayanni, Athanasios Stubos, Georgios Tzamalis and Theocharis Tsoutsos, "A New Path towards Sustainable Energy Transition: Techno-Economic Feasibility of a Complete Hybrid Small Modular Reactor/Hydrogen (SMR/H2) Energy System", Energies, 16(17), 6257 (2023); https://doi.org/10.3390/en16176257

In addition, there are 3 submitted manuscripts under review and two more that are currently under preparation. Under review manuscripts are listed below:

1. Veronika Abdulina, Spyridon Bellas, Tina Puntervold, Skule Strand, Dimosthenis Telemenis, and Aleksandr Mamonov, "Petrophysical Controls on Fluid Storage and Wettability in Cenozoic Diatomites from Norway and Greece". Submitted in the: Journal of Petroleum Science and Engineering (resubmission after revision on 24.3.2026)
2. Raoof Gholami, Sadegh Ahmadpour, Mojtaba Ghaedi, Spyros Bellas and Emmanuel Stamatakis, "Onset and Dynamics of Density-Driven Convection in Underground Hydrogen Storage Sites". Submitted in the: International Journal of Hydrogen Energy (10.3.2026)
3. Mojtaba Ghaedi, Raoof Gholami, Spyros Bellas and Emmanuel Stamatakis, "Analytical Estimation of CO2 Plume Propagating During Underground Storage in Saline Aquifers". Submitted in the: International Journal of Greenhouse Gas Control (28.2.2026)

4.6 Participation in conferences/events (Task 5.1.1 of proposal)

Important conferences in scientific areas of the project are an important medium to promote the visibility of IG/FORTH in Europe and beyond. Important conferences will be identified by M3 of the project with the aim of participating with joint contributions between partners. Conference and events that have been identified at the beginning of the project are the EU energy week, Hydrogen Review days, CCUS combined with H2 European Technology EXPO and EGEC Geothermal, and the European Geothermal Congress.

All partners are encouraged to present TWINN2SET at external events to increase the impact of the project. The coordinator must be always informed before and about the planned presentations and their content. When necessary, to ensure accuracy and consistency, the presentation content will be developed in cooperation with the coordinator.

So far, the TWINN2SET project has been promoted in the following conferences/events:

- 13th FORTH Retreat 2022, 15-16 July 2022, Heraklion, Crete, Greece
- 8th Balkans Energy Summit, 1-2 March 2023, Athens, Greece
- Energy Norway, 13-15 March 2023, Stavanger, Norway
- 1st Hydrogen & Green Gases Forum, 23rd June 2023, Athens, Greece
- Day event organisedby PROMEA (https://hydrogen.promea.gr/), 11th July 2023, Athens, Greece
- Online workshop on HOW TO PREPARE A SUCCESSFUL PROPOSAL FOR WIDENING ACTIONS (TWINNING AND HOP-ON), 21st July 2023
- 2nd International Conf. on Raw Materials and Circular Economy, 28 Aug-02 Sep 2023, Athens, Greece
- EFC23 European Fuel Cell and Hydrogen 2023, September 13th - 15th 2023, Capri, Italy
- Hydrogen Conference 2023, 28th November 2023, Athens, Greece
- "Hydrocarbons, energy transition, hydrogen-Crete as energy hub", 16-17 December 2023, Heraklion, Crete, Greece
- Energy Norway, 15-17 April 2024, Stavanger, Norway
- Researchers Night 2024, 27th September 2024, Heraklion, Crete,Greece
- The 14th Panhellenic Scientific Conference on Chemical Engineering, 29-31 May 2024, Thessaloniki, Greece
- 14th FORTH Retreat, 11-13 October 2024, Archaia Olympia, Greece
- French-Hellenic Defense Innovation Symposium, 12-13 December 2024, Athens, Greece
- 9th Balkans Energy Summit, 29-30 April 2025, Athens, Greece
- 7th International Conference on Fault and Top Seals, European Association of Geoscientists & Engineers, 15-18 September 2025, Bucharest, Romania
- Joint Conference of The MicroBioKosmos Society & the Central and Eastern Europe Symposium on Microbial Ecology (CEESME) 2025, 22-24 September 2025, Thessaloniki, Greece

- Researchers Night 2025, 26th September 2025, Heraklion, Crete, Greece
- Premier Natural Hydrogen Worldwide Summit, 13-14 November 2025, Paris, France
- Innovation Days (InnoDays) 2025, 28-30 November 2025, Heraklio,. Crete, Greece

4.7 Networking activities (Task 5.1.1 of proposal)

IG/FORTH will explore membership opportunities in the European Clean Hydrogen Alliance, the Hydrogen Technology Collaboration Programme (Hydrogen TCP) of the International Energy Agency, the International Geothermal Alliance, and European Geothermal Energy Council and (at national level) in the Greek Hydrogen Association (under establishment) or other suitable groups that will be deemed appropriate for boosting visibility and enhance networking opportunities. In this context, IG/FORTH, represented by Prof. Ioannis Yentekakis (director) and Emmanuel Stamatakis (TWINN2SET coordinator), joint the Cretan Hydrogen Association, established on the 8th of July 2025. Moreover, IG/FORTH follows Task 42 of IEA regarding Natural Hydrogen.

TWINN2SET is also seeking networking opportunities with other EU-funded projects. So far, we have aligned with the Twinning project EPIBOOST (Advancing Epigenetics Research) and presented the scope of TWINN2SET through a webinar in July 2023 (Figure 18). TWINN2SET has also developed a synergy with EU-funded project DESSERT which unites 6 partners from four EU countries focusing on designing and validation an advanced production string for hydrogen storage (https://ig.forth.gr/node/859). In addition, TWINN2SET project has a MoU with the Green Skills for Hydrogen (GreenSkillsforH2) project coordinated by CluBE.

Figure 18. Presentation of IG/FORTH in the context of TWINN2SET project during the EPIBOOST webinar.

4.8 Final conference (Task 5.5).

A one-day short conference on "Geoenergy and Energy Transition" was organisedtowards the end of the project, on the 19th of March 2026 in Chania, Greece. The conference focused on the achievements of the project, in scientific advancements and impact for IG/FORTH including knowledge transfer achieved for staff and ESRs through dissemination activities and a round table on Geoenergy transition (Figure 19).

Figure 19. Final conference on "Geoenergy and Energy Transition (https://www.ig.forth.gr/node/862).

5 COMMUNICATION AND DISSEMINATION MONITORING

5.1 Data collection for reporting

A document to collect the dissemination activities of all the partners has been developed (Figure 20). The document should be filled up every month by all partners to gather all the dissemination activities that have taken place throughout the project:

- Posts done on the partners' social media accounts
- Posts done on the partners' websites
- Press releases
- Presentations in conferences/events
- Meetings with policy makers.

The information collected will be used for reporting purposes and to monitor that all target groups are reached.

Partner	Event title	What is it? Workshop, meeting, conference, social media post	Link	Date	Location	Name of presenter	Method (e.g., ppt, poster, flyer etc.)	No. of people reached	Target group	Status: Perfomed or Planned

Figure 20. Template of communication and dissemination activities repository

5.2 KPIs

The progress of the Communication, Dissemination and Exploitation Plan is monitored through defined Key Performance Indicators (KPIs), listed in Table 2.

Table 2. Communication and Dissemination KPI's

Channel	KPI
COMMUNICATION	
Website	Visits < 5 = Poor, visits 5-40 = Good, visits > 40 = Excellent
Social media	LinkedIn & Facebook KPIs: 1 post every 2 months
Promotional material	250 brochures
e-Newsletters	2 per year
Press releases & local press/events	At least 3 per year
Promotional videos	2 videos (midterm and final year), up to 50 views
Workshops with non-academic actors	2 workshops engaging citizens; 3 workshops with non-academic actors along the value chain of CCS, UHS and Geothermal Energy
DISSEMINATION	
Training (MOOCs)	11th week program (November-June 2023) on topics relevant to Energy Transition
Training (one-to-one mentoring)	At least 5 topics (in 2024 - 2025)
Summer schools	2 summer schools (in 2024 & 2025) attracting at least 50 participants per year.
Field visits	3
Staff and Student exchanges	60 short-term visits of IG/FORTH staff to UiS and IFPEN (includes project/technical meetings and field trips) Total senior units per year = 5 units Total ESRs units per year= 5 units
Workshops on soft skills and project management/administration	7 workshops on soft skills; 3 physical workshops on Enhancing Research Management and Administration Skills of IG/FORTH
Scientific publications	6 joint publications are foreseen throughout the project at journals with IF >3.
Participation in conferences/events	3 conferences (1 conference/year for 1 person) for IG/FORTH; 1 conference for UiS
Final conference	One-day conference on M35

5.3 Progress of Communication and Dissemination activities

The status of each Communication and Dissemination activity so far and whether KPIs are on track are presented in Table 3.

Table 3. Status of KPIs

Activity	Status	KPI on track? (Y/N)
Website	Up and running	Good
Social media	Facebook page: 551 followers LinkedIn page: 987 followers, up to 55 likes and plenty of reposts and comments from internal and external member	Y
Promotional material	Designed	Y
e-Newsletters	1st newsletter released in September 2023 2nd newsletter released in July 2024 3rd newsletter released in January 2025	Y
Press releases & local press/events	3 publications in local press or news websites; 1 publication in thematic magazine; 4 citizen engagement event.	Y
Promotional videos	Midterm video currently being produced	N
Workshops with non-academic actors	2 of 2 workshops engaging citizens (3 of 3 workshops with non-academic factors(01/2025,)	Y
Training (MOOCs)	1st round completed (2022-2023)	Y
Training (one-to-one mentoring)	Replaces 2nd and 3rd round of MOOCs (2024, 2025).	Y
Summer schools	Two summer schools completed. 1st summer school in Chania, 1-5 July 2024 and 2nd summer school also in Chania 30 June- 4 July 2025	Y
Field visits	3 field visits completed	Y
Staff and Student exchanges	Short-term visits until Month xx (5 units per year for senior staff and 5 for ESRs) Senior=6 units ESRs=5 units	Y
Workshops on soft skills and project management/administration	2 of 2 workshops on Gender aspects (10/2022, 03/2026) 4 of 3 workshops on Citizen engagement (09/2023, 09/2024, 09/2025, 11/2025) 2 of 2 in Open Science (03/2023, 03/2026) 1 of 1 workshop on Responsible Research and Innovation (06/2025) 1 of 1 workshop on Hydrogen economy, CCS and value chain 1 of 1 workshop on Ethics (03/2026) 2 of 3 workshops on Funding opportunities (01/2024, 03/2026)	Y

	2 of 3 workshops on Research management and administration skills (01/2024, 03/2026) 2 of 2 workshops on IPR management entrepreneurial issues (09/2023, 07/2024)	
Scientific publications	6 peer-reviewed was published Three papers in preparation	Y
Participation in conferences/events	Participation in 6 scientific conferences and 6 events on hydrogen economy	Y
Final conference	Completed in 19th of March 2026	Y

6 Networking

6.1 Stakeholder network

A stakeholder network has been developed to maximise the project's dissemination and communication. The network was built progressively during the project's lifecycle, and it gathered stakeholders interested in TWINN2SET activities. A list was created starting from contacts from project partners' network. The list is kept confidential at FORTH/IG repositories due to GDPR. A large number of bilateral meetings were held to promote TWINN2SET to the identified stakeholders (to mention but a few see table 4). Each partner was committed to promoting the project through their own website, newsletters, social media pages, and any other communication they might use with the final goal of involving interested actors in the project in their network. TWINN2SET social media channels served to encourage the public to join the stakeholder network. Network members had access to the project newsletter and periodically received information on TWINN2SET activities (e.g., workshops, publications, news).

Table 4. Bilateral meetings held to promote TWINN2SET to stakeholders.

Date / Place	Participants	Meeting scope & outcome
10/3/2023 (Oslo, Norway)	Jiri Muller (Special Advisor, IFE) Emmanuel Stamatakis (IG/FORTH)	Bilateral meeting to communicate TWINN2SET scope & objectives and to discuss potential synergies between the 2 Institutions; Dr. Jiri Muller also accepted the invitation to join the Advisor Board of the project.
24/3/2023 (telco)	Giorgos Kalantzopoulos, Sissel Opsahl Viig, Mario Silva (IFE, Norway) & Nikos Pasadakis, Emmanuel Stamatakis, Spyros Bellas, Evina Gontikaki (IG/FORTH)	Follow-up meeting to further exploit synergies between IG/FORTH & IFE in TWINN2SET-related topics.
27/3/2023 (telco)	Juan Soto (Bureau of Economic Geology, The University of Texas at Austin, USA & Granada University, Spain) & Emmanuel Stamatakis, Spyros Bellas (IG/FORTH)	Bilateral meeting to discuss opportunities for collaboration and knowledge transfer on salt bodies tectonics relevant to potential locations for Hydrogen Storage in Greece.

7 EXPLOITATION STRATEGY

7.1 Identification of Key Exploitable Results (KER)

A key exploitable result is anything having a commercial or social significance (i.e., providing knowledge or economic profit). This could be a patent, consultancy services, licenses, knowhow, publications etc.

For TWINN2SET identified KER is:

1. **Decision-making tool (Task 4.3)**. An integrated geochemical/mineralogical, bio-geochemical, and thermodynamic numerical simulation software/model for the identification, evaluation and ranking of suitable geological sites for hydrogen storage.

7.2 Roadmap towards characterization and exploitation of KER:

This section presents the Plan on exploiting the project results after the end of the project, as well as the Communication to potential markets and end-users. In that context, major stakeholders affected or actively participating in National & European R&D & Energy planning and to Sustainable Energy Transition adaptation and implementation, have been identified with a special focus on hydrogen technologies. Key benefits or problems solved by TWINN2SET Research activity are also presented.

Thus, the objectives of this section are to identify the major stakeholders who will have an important role on the respective market development and organization of a hydrogen-based economy, the identification of barriers and ways to overcome them, weighting these barriers against each other and against the potential benefits and the market investigation for Underground Hydrogen Storage (UHS).

Stakeholder categories like relevant local, national and third-party key actors were recorded (e.g. local and regional authorities, market actors, etc.). Stakeholders identified were mainly at the national, regional & European level. The identification of major stakeholders was made by the Exploitation Manager (Dr. Evina Gontikaki) and all colleagues involved in this deliverable (see names in page 2). Then the stakeholders were divided in different categories such as:

- Public Organizations
  - Ministries
  - General Directorates
  - Regulatory Authorities
  - Municipalities
  - Energy Agencies
- Enterprises
- Associations
- Energy Service Companies (ESCOs)
- Academic/Research Organizations
- Funds

Thirty seven (37) stakeholders have been identified and contacted through the Coordinator (IG/FORTH) at national level:

- *12 Public Organizations*
  - 3 Ministries (Ministry of Transport; Ministry of Education; Ministry of Energy & Environment)
  - 2 Directorate General (General Secretariat of Energy; General Secretariat of Research & Innovation)
  - 1 Regulatory Authority (RAE)

    - 2 Energy Agencies (Aegean Energy & Environment Agency; Hellenic Hydrocarbons and Energy Resources Management Company)
    - 2 Municipalities (Chania; Heraklion)
    - 2 Regional Governments (Region of Crete; Region of Western Macedonia)
- *3 Associations/NGOs* (CLUBE; Hellenic Association for Energy Economics; Institute of Energy for Southeast Europe)
- *10 Academic/Research Organizations* (CERTH; HCMR; NCSR DEMOKRITOS; EIE; University of Western Macedonia; Technical University of Crete; University of Crete, ELMEPA, NTUA; University of the Aegean)
- *2 Funds* (Hellenic Fund for Entrepreneurship and Development; uni.fund)
- *3 Project Consortia* (TRIERES; CRAVE-H2; H2SKILLS)
- 7 *Enterprises/private companies* (HEREMA; MOTOROIL; HELLENIQ ENERGY; Terna Energy; PPC; TITAN; HELLENIC HYDROGEN)

Other Stakeholders at European & International Level

Eight (8) bodies of stakeholders at European level have also been identified by the Consortium:

- 4 European Commission Bodies (Clean Hydrogen partnership, Clean Energy, ENEA, REA, EDA)
- 1 European Association (Hydrogen Europe)
- 2 Austrian Organizations (Technical University of Gratz, Green Energy Center)
- 2 UK academic organizations (University of Cardiff, Durham University)

Outreach activities aimed at each of the stakeholders are summarized in Table 5.

Table 5. Identified stakeholders and outreach activities towards the exploitation of TWINN2SET outcomes.

Stakeholder	Dissemination and exploitation activities envisaged towards the stakeholders
Public bodies as regulatory bodies – policy makers, implementing legislation. Both incentive schemes and obligated construction rules will support the uptake of UHS.	○ Dissemination to policy makers will be conducted with approval of the PSC and, when appropriate, in liaison with the REA PO. The main objectives are to create technology awareness, its related benefits for the environment and to stimulate actions for a successful market uptake
Private investors actively seeking hydrogen solutions.	○ Dissemination campaign within professional groups and by PR articles in selected journals
Research institutes further developing the technology and/or developing complementary research activities	○Disseminate results in scientific articles & presentation in dedicated conferences ○Setting up and participating to dedicated scientific working groups ○Setting up new national and international research and innovation projects along with other research institutes and universities.
Training institutes – associations providing training	○Development of guidebooks and videos and other recorded learning tools. ○Develop dedicated (online) training courses/webinars ○Organisation of workshops and seminars for professionals; Supporting master thesis topics jointly between academic and industrial partners

Financial institutes	○ Dedicated seminars informing financial institutes about TWINN2SET added value
End-users	○ Dedicated information sessions informing end-users about TWINN2SET added value.
Utility providers	○ Dedicated seminars informing the utility providers about the added value the concept can bring.

Stakeholders' involvement

The goal is the promotion of the active involvement of local, regional, national, European, international and sectoral stakeholders through targeted outreach activities, including meetings with stakeholders in each target country, including:

- Policy makers, legislators & civil leaders,
- Educators and academics,
- NGOs and professional associations
- Private sector enterprises and general public.

Stakeholders' engagement will be promoted through the development of local, national, international and sectoral networking and bilateral meetings, under the supervision and support of the Coordinator and the Project's Exploitation Manager for the duration of the project and beyond. For further promotion of stakeholder involvement and engagement, the Exploitation Manager will develop an analytic consultation guide, according to which different consultation tools and mechanisms will be selected and enforced. In particular a ***permanent consultation mechanism***, to discuss policies, practices and synergies with respect to hydrogen technologies and Energy Transition will be developed. Permanent consultation mechanism's provided services include:

- Face-to-face consultations through bilateral meetings
- Consultation workshops

The major stakeholders identified will be contacted during project implementation. The objective is to show to these key actors the path to include/increase energy transition in their portfolio and to demonstrate the importance of these actions. The enrolment of stakeholders in TWINN2SET project is crucial for the success of the project results, because these are the actors that develop the technologies and build the infrastructures for energy storage and energy transition. These stakeholders have an important role in the respective market development and organization of energy storage and energy transition power system and the identification of barriers and ways to overcome them.

Bilateral meetings & Collaboration with other Research Consortia

To support dissemination and large uptake of TWINN2SET research results in the large research community, the consortium will join efforts with other national and European research consortia. All consortium members are already involved in other national and/or European projects allowing integration of results within the boundary limits of confidentiality as described in the consortia agreements of the individual projects and the TWINN2SET Consortium Agreement. The consortium members will seek additional collaboration not only with other Twinning projects but also with HORIZON EUROPE ones dealing with hydrogen technologies and Energy transition. The TWINN2SET consortium has a strong drive towards open information and will encourage other consortia to share information whenever possible. As such duplication of work is avoided and more data becomes available to support the own research work and dissemination of results. Continued

collaboration within the TWINN2SET consortium and with national and European research consortia will allow the TWINN2SET team to identify timely wider testing and scaling up of results along with experts in the field.

7.3 Results from exploitation activities so far

The major outcomes of the stakeholder's involvement & consultation so far are the following:

- The ***development of a joint research proposal*** with the name ***DeepSEA*** between **UiS/FORTH/TUG** under the Clean Hydrogen Partnership 2024 call.

- The ***cooperation between IG/FORTH & NCSRD*** regarding Hydrogen Storage Underground. As a result, an advanced core flooding experimental equipment has been made available by NCSRD to the TWINN2SET project. This equipment has been already installed at IG/FORTH premises and is fully operated.

- The ***cooperation between IG/FORTH and the Region of Western Macedonia*** on a ***new demo project*** funded by the regional funds in order to study potential geological formations for hydrogen storage in the region. The Region of Western Macedonia is a Region under Transition and large hydrogen projects are being designed that will create a huge demand for hydrogen storage.

- The ***collaboration between IG/FORTH & CLUBE*** *(Cluster of Bioeconomy & Environment of Western Macedonia), as well as between* ***TWINN2SET & H2SKILLS*** *(Green Skills for Hydrogen)* projects for the parallel organisation of their Summer Schools during 1-5 of June 2024. There will be a live interface between the 2 Summer Schools with targeted common presentations.

- The **participation of IG/FORTH in a new HORIZON EUROPE project (TRIERES)** after the invitation by MOTOROIL (TRIERES Coordinator), following the successful exploitation actions of TWINN2SET. The TRIERES project aims to develop a small Hydrogen Valley in Korinthos, the first hydrogen ecosystem in Greece.

- The **participation of IG/FORTH as a sub-contractor of NCSRD in a new project (CALIPSO)** funded by the European Defence Agency (EDA) on hydrogen safety aspects.

- The **participation of the Coordinator, Dr. Emmanuel Stamatakis, as Non Governmental Greek Expert** for the Energy and Environment (EnE) CapTech of the EUROPEAN DEFENCE AGENCY (EDA).

- The **participation of the Coordinator, Dr. Emmanuel Stamatakis** at the Technical Committee 2 (Hydrogen storage, transport & distribution) of the HYDROGEN EUROPE RESEARCH – CLEAN HYDROGEN PARTNERSHIP.

- The **participation of TWINN2SET WP4 Leader, Dr. Spyros (Spyridon) Bellas** at the Technical Committee for Conducting an International Evaluation Competition of the Hellenic Hydrocarbons and Energy Resources Management Company (HEREMA S.A.) relevant to the Project "DEVELOPMENT OF A CARBON CAPTURE AND STORAGE FACILITY"

7.4 Future Dissemination and Exploitation activities (4-year roadmap)

Building upon the dissemination framework established during the project's lifetime, a structured roadmap of activities has been defined for the period up to four years after the project completion (2026–2030). This roadmap aims to ensure the sustained visibility, uptake, and exploitation of TWINN2SET results, with a particular emphasis on stakeholder engagement, scientific dissemination, and regional impact. The planned activities include:

1. **Establishment of a conference on energy transition**

The IG/FORTH will establish a **biennial international conference on "Geoenergy & Energy Transition"**, the 1st taking place in the new IG/FORTH premises in 2027. This event aims to position IG/FORTH as a regional hub for Geoenergy research, to promote knowledge exchange among academia, industry and stakeholders while ensure long-term visibility of TWINN2SET outcomes.

2. **Workshop on Hydrogen Innovation for Regional Growth-the Cretan case (2026)**
   In collaboration **with the Regional committee for Hydrogen in Crete, IG/FORTH plans to co-organize a targeted workshop** in the summer of 2026. This workshop aims to
   - Strengthen the synergy with the ongoing TRIERES project
   - Evaluate and support the development of Crete as a Hydrogen valley
   - Explore the possibility of integrating TWINN2SET results into the regional energy transition plan (Presentation of TWINN2SET's decision-making tool).

3. **Participation in International and National Conferences**
   TWINN2SET's project results will continue to be disseminated through high-level scientific venues which will be sought at international and national level. Currently, participation with at least two presentations is scheduled for the 15th Panhellenic Scientific Conference on Chemical Engineering, 3-5 June 2026, Chania, Crete, Greece where TWINN2SET will be acknowledged.

4. **Capacity Building and Knowledge Transfer**
   In collaboration with the Technical University of Crete (TUC), IG/FORTH will continue the successful **co-organization of annual summer schools on Energy Transition** for the promotion of skills development and knowledge transfer to targeted audiences of students, early-career researchers and professionals, fostering the next generation of experts in the field.

5. **Public Engagement and Outreach**
   IG/FORTH will maintain an active presence in major public science and innovation events, including the annual Researcher's Night and InnoDays, to facilitate the promotion of public awareness on energy transition challenges and solutions, stimulate the discussion with citizens and local stakeholders, and enhance the societal impact of TWINN2SET results.

6. **Networking activities**
   IG/FORTH will actively pursue synergies with other EU-funded projects and initiatives at national level to maximise the long-term impact and exploitation potential of TWINN2SET's outcomes.