



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 792355.



Deliverable D8.9

Report on Networking Activities with Architects / Engineers Associations and private stakeholders' involvement in the process of dissemination

Grant Agreement number 792355

Project acronym GEO4CIVHIC

Project full title Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings

Due date of deliverable 31/10/2023

Lead beneficiary PIETRE EDIL SRL

Other authors CNR ISAC&ITC, UNIPD DG&DII, RED, SOL, GEOSERV, UNESCO

Dissemination Level

PU	Public	X
CO	Confidential, only for members of the consortium (including the Commission Services)	
CI	Classified, as referred to in Commission Decision 2001/844/EC	

Document History

Version	Date	Authors	Description
1.	02/06/2023	Loredana Fodor – Pietre Edil	Creation of the document
2.	10/07/2023	Leonardo Rossi – Pietre Edil	Data collection and assessment
3.	03/08/2023	Leonardo Rossi – Pietre Edil	Data collection and assessment
4.	02/10/2023	Loredana Fodor, Leonardo Rossi – Pietre Edil	Creation of the first draft
5.	08/11/2023	HYDRA – Davide Righini	Document review
6.	10/11/2023	UNESCO – Francesca Bampa	Document review
7.	11/11/2023	Loredana Fodor – Pietre Edil	Reviewed draft
8.	12/11/2023	Loredana Fodor – Pietre Edil	Final version for Coordinator
9.	12/11/2023	Adriana Bernardi Coordinator	Final check and upload in ECAS

Disclaimer

This document is the property of the GEO4CIVHIC Consortium.

This document may not be copied, reproduced, or modified in the whole or in the part for any purpose without written permission from the GEO4CIVHIC Coordinator with acceptance of the Project Consortium.

This publication was completed with the support of the European Commission under the *Horizon 2020 research and innovation programme*. The contents of this publication do not necessarily reflect the Commission's own position. The documents reflects only the author's views and the Community is not liable for any use that may be made of the information contained therein.

Table of Contents

1	Abbreviations	5
2	Executive Summary.....	6
3	Introduction.....	7
4	Consortium Objectives and Target Groups for Networking Activities.....	9
4.1	Networking Activities Definition	9
4.2	Objectives of the Networking Activities.....	10
4.3	Target Groups and Dissemination Channels.....	13
5	Consortium Networking Activities - National and International Levels	14
5.1	Networking activities for each partner in GEO4CIVHIC project	14
5.2	Impact and Outcomes.....	66
6	Conclusion	68
7	Annex 1	69
7.1	Stakeholders Associations at International Level	69
7.2	Stakeholders Associations at National Level	69

List of Figures

FIGURE 1 - STAKEHOLDERS CATEGORIES IDENTIFICATION.....	13
--	----

List of Tables

TABLE 1 - MAIN GOALS FOR NETWORKING IMPLEMENTING	12
TABLE 2 - GENERAL TARGET AUDIENCE IN GEO4CIVHIC	13
TABLE 3 - NETWORKING ACTIVITIES IMPLEMENTATION RED.....	15
TABLE 4 - NETWORKING ACTIVITIES IMPLEMENTATION HYDRA	20
TABLE 5 - NETWORKING ACTIVITIES IMPLEMENTATION CNR (CNR-ITC, CNR-ISAC).....	21
TABLE 6 - NETWORKING ACTIVITIES IMPLEMENTATION UPV	28
TABLE 7 - NETWORKING ACTIVITIES IMPLEMENTATION TECNALIA	29
TABLE 8 - NETWORKING ACTIVITIES IMPLEMENTATION UBEG	31
TABLE 9 - NETWORKING ACTIVITIES IMPLEMENTATION SUPSI.....	38
TABLE 10 - NETWORKING ACTIVITIES IMPLEMENTATION RGS - ROMANIAN GEOEXCHANGE SOCIETY.....	41
TABLE 11 - NETWORKING ACTIVITIES IMPLEMENTATION PIETRE EDIL	45
TABLE 12 - NETWORKING ACTIVITIES IMPLEMENTATION FAU	47
TABLE 13 - NETWORKING ACTIVITIES IMPLEMENTATION GEOSERV	50
TABLE 14 - NETWORKING ACTIVITIES IMPLEMENTATION GALLETTI HIREF	53
TABLE 15 - NETWORKING ACTIVITIES IMPLEMENTATION UNIPD (DII & DG)	55
TABLE 16 - NETWORKING ACTIVITIES IMPLEMENTATION GEOGREEN	58
TABLE 17 - NETWORKING ACTIVITIES IMPLEMENTATION CRES	60
TABLE 18 - NETWORKING ACTIVITIES IMPLEMENTATION UNESCO	61
TABLE 19 - NETWORKING ACTIVITIES IMPLEMENTATION SOLINTEL.....	63
TABLE 20 - NETWORKING ACTIVITIES IMPLEMENTATION DLH	64
TABLE 21 - NETWORKING ACTIVITIES IMPLEMENTATION THYSSEN.....	65
TABLE 22 - EUROPEAN LEVEL STAKEHOLDERS.....	69
TABLE 23 - ASSOCIATIONS OF ARCHITECTS	69
TABLE 24 - ASSOCIATIONS OF CONSTRUCTORS.....	70
TABLE 25 - ASSOCIATIONS OF ENGINEERS.....	70
TABLE 26 - REAL ESTATE ASSOCIATIONS OR INVESTORS	71

TABLE 27 - POLICY MAKERS AND PUBLIC AUTHORITIES 71
TABLE 28 - PRIVATE AND PUBLIC STAKEHOLDERS WITH INTEREST IN SECTOR 72
TABLE 29 - PLATFORMS FOR NETWORKING 72
TABLE 30 - HISTORICAL MONUMENTS ASSOCIATIONS..... 72

1 Abbreviations

AICARR	Italian Association for HVAC
ASHP	Air Source Heat Pump
BEM	Building Energy Management
Cheap-GSHPs	Cheap and Efficient Application of reliable Ground Source Heat Exchangers and Pumps
DSS	Decision Support System
EIA	Environmental Impact Assessment
EP	Exploitation Plan
GHE	Ground Heat Exchanger
GEO4CIVHIC	Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings
GSHP	Ground Source Heat Pump
HE	Heat Exchanger
HP	Heat Pump
HTHP	High Temperature Heat Pump
Nzeb	Nearly Zero Energy Building
REHVA	Federation of European Heating, Ventilation and Air Conditioning Associations
RER	Renewable Energy Requirement
SME	Small and Medium Enterprise
TED	Training, Education and Dissemination

2 Executive Summary

This report offers an in-depth review of the various networking activities with **architects, engineers, builders, real estate companies, investors, restorers and associations of these categories**, undertaken in the context of Task 8.4.

It outlines a broad spectrum of **national and international initiatives** vital for creating network for the **future exploitation activities and engaging stakeholders**. The core audience for these activities spans European and international networks in the construction, shallow geothermal and retrofitting market.

Task 8.4, titled "*Networking activities with Architect/Engineers associations and private stakeholders involvement*," was lead by PIETRE EDIL in collaboration with all the Consortium partners and was developed during all the project stages.

In alignment with the Dissemination Plan (Task 8.1), **structured strategies were developed for each involved country and target group**, highlighting the collaborative spirit of all partners that have collaboratively shaped this expansive networking strategy, ensuring it is robust, relevant, and tailored across various Work Packages and tasks.

Rigorously respecting the standards of confidentiality and GDPR, the GEO4CIVHIC project has successfully created a **complex stakeholder database**, useful for the future Exploitation Plan of the Consortium.

3 Introduction

This report is a as a public document (PU) that provides a **detailed overview of the networking activities within the scope of Task 8.4.** that encompasses a wide range of activities at both the national and international levels, part of the Consortium TED plan.

The GEO4CIVHIC **project's outcomes** are coming from the Consortium **strategic networking activities**, fostering a robust exchange of knowledge and resources and grouped into 2 main categories:

1. Networking events:

- ✓ *Meetings with European and International Networks of Architects, Engineers, Constructors, Real estate investors, Restorers or other interested stakeholder,s by inviting them on the webinars and other events organized by each partner*
- ✓ *Training courses focused on the identified stakeholders*
- ✓ *Workshops focused on the identified stakeholders*
- ✓ *Seminars focused on the identified stakeholders*
- ✓ *Conferences, congresses with relevant theme and focused on the identified stakeholders*
- ✓ *Fairs and exhibitions in the field of geothermal, shallow geothermal and retrofit market*
- ✓ *Meetings with stakeholders from the identified categories **with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities***

2. Social media actions focused on the targeted audience

- ✓ *Campaigns Newsletters and E-mail with project information*

The primary target groups for these networking activities include European and international professional networks, initiatives, architect and engineering associations, platforms, and similar entities within the construction and building sector.

The strategic networking activities we engaged in played a pivotal role in our overall Exploitation Plan for commercial success. These networking initiatives are not standalone efforts; instead, they are intricately woven into the fabric of project's business strategy. Their primary purpose is to proactively reach out to key players in the market, establish valuable connections, and nurture partnerships that will prove instrumental in executing the Exploitation Plan.

Context of Task 8.4:

Task 8.4, titled "Networking activities with Architect/Engineers associations and private stakeholders involvement," was lead by PIETRE EDIL, an architectural company, and features collaboration from all partners. The essence of this task was to foster robust networking with various European and international entities in all partners countries, in the construction, building sector and restoration sector. The aim was to facilitate an exchange of information that arrives on the market, in order to facilitate the future implementation of the Exploitation Plan.

In line with the Dissemination Plan (Task 8.1), comprehensive actions, events, and documents were devised and executed for each target group and partner country involved in the project. Every partner played a crucial role in contributing to the effective realization of the outlined activities.

The most important **conclusions** regarding the **GEO4CIVHIC Networking Activities** can be summarized as follows:

1. An overwhelming majority of **networking activities** have been incorporated into the **individual networking plans** of **all 19 project partners**, that have played a role in shaping the consortium's networking planning, aligning with their specific engagements across various WPs and tasks, during all project stages
2. Notably, there's a continuously increase of in the networking activities during the project's duration following the **Dissemination Plan** (Task 8.1). **All the networking activities previewd were realised.**
 - 1) 158 networking initiatives
 - 2) Along with these networking activities, the partners also implemented **several networking actions in online** campaigns for networking
 - 3) A stakeholders data base was created as fundamental for future Exploitation Plan
3. A meticulous approach has been adopted in considering all discerned and potential **stakeholders**. The strategy focused on tailoring and conveying the most relevant information, knowledge, and data to each stakeholder, ensuring its pertinence and impact. The main stakeholders' categories identified for the task 8.4 **were: architects, engineers, builders, real estate companies, investors, and restorers and associations of these categories.**
4. **All the 19 partners of GEO4CIVHIC** project prioritized a smooth and continuous flow of information and resources, by leveraging **networking activities**, they sought to foster collaborations, encourage mutual knowledge sharing, and tap into diverse expertise.
5. This collective partners' approach was not just about amplifying communication, but was geared towards significantly **optimizing the results** of the project. By bridging gaps and uniting varied skill sets, the partners aimed to harness the full potential of each entity involved, ensuring that the project not only **met its goals** but exceeded expectations in touching the market needs.

This report, thus, serves as a testament to the collaborative efforts and the progress made in Task 8.4, ensuring that the task's goals were met comprehensively.

4 Consortium Objectives and Target Groups for Networking Activities

4.1 Networking Activities Definition

In the comprehensive structure of the **GEO4CIVHIC project**, a distinct approach has been adopted to differentiate between **networking and dissemination activities**. This distinction was instituted to ensure clarity and specificity in the outreach and engagement processes¹.

While both networking and dissemination activities aim at spreading information and creating awareness, the **networking activities** within GEO4CIVHIC are characteristically **unique**. They are not just about participating in various events such as conferences, fairs, exhibitions, and meetings.

An event can be considered a networking activity if it follows several conditions:

- ✓ It has to be addressed and focused on **(1) the targeted audience**, in this case the following stakeholders: **architects, engineers, builders, real estate companies, investors, and restorers and associations of these categories**;
- ✓ It is based on the **(2) exchange of project relevant information and results by getting contact data, mail addresses and business cards**, establishing a future connection with the stakeholders;
- ✓ It involves an **event – (3) direct meeting** that supposes the **interaction** of participants.

Any partner event included in the TED plan that has these 3 characteristics can also be considered a networking event.

In the following, the main conditions for establishing a networking activity shall be analyzed as decided by the Consortium and divided in **3 separate subjects**:

(1) Target Audience: The activities are tailored specifically towards professionals like **architects, engineers, builders, real estate companies, investors, and restorers and associations of these categories**. This deliberate focus ensures that the right information reaches the right audience.

For GEO4CIVHIC, the target audience isn't just a broad swath of professionals; they represent the critical nodes in the civil and architectural sectors:

Architects: They are the visionaries who shape the built environment. By targeting architects, the GEO4CIVHIC project ensures that the latest methodologies and tools developed in the project are integrated right from the conceptualization stage of structures.

Engineers: Beyond the vision of architects, engineers provide the feasibility and practicality to any design. Engaging with engineers means that the technical know-how disseminated by the project is put into tangible action.

Builders: They are the backbone, turning visions and plans into reality. Ensuring builders are equipped with the most recent information can significantly impact the quality and efficiency of construction.

Real Estate Companies: Their role extends beyond just selling properties. They bridge the gap between builders and potential occupants, influencing decisions and preferences. Informing real estate companies can steer market demand towards more innovative and sustainable practices.

Investors: Money often dictates the direction of any industry. By targeting investors, the GEO4CIVHIC project can potentially influence where funds are channeled, ensuring that innovative, sustainable, and efficient projects get the financial backing they deserve.

¹ Cambridge Dictionary, 2023, NETWORKING | English meaning - Cambridge Dictionary

Restorers: With a world filled with historical and old structures, restorers play a crucial role in preserving history while ensuring safety and modernization. Engaging with them means that even older structures can benefit from the latest in civil and architectural advancements. The project doesn't just aim to disseminate information but to weave its objectives into the very fabric of the civil and architectural world, being an important tool in the exploitation strategy of the project.

(2) Exchange of project relevant information and results by getting contact data, mail addresses and business cards.

One of the **primary goals** of networking activities is to facilitate knowledge sharing and information dissemination among the aforementioned **professional categories**. It's not just about presenting; it's about ensuring that these professionals are armed with the latest insights and data

(3) Direct meeting finalised with Data Collection for Future Collaborations: A significant end goal of these activities is the accumulation of **data such as business cards, phone numbers, and emails**. The purpose was to curate a **project database** which will be instrumental in the Exploitation phase. It's worth noting that any data collected is treated with utmost respect for individual privacy, adhering strictly to **GDPR regulations**.

In conclusion, while dissemination broadly aims at spreading the word, **networking** in the GEO4CIVHIC project is a more targeted approach, **focusing on specific professionals**, ensuring they are well-informed, and laying the foundation for future project endeavors.

4.2 Objectives of the Networking Activities

Under the leadership of **PIETRE**, and in a tight collaboration with all the partners, a significant emphasis has been placed on networking activities involving **Architect/Engineers associations and other relevant private stakeholders**.

The main objective of this initiative was to enhance the networking process within the European and international construction/building sector, with focus on shallow geothermal and retrofitting market. This effort was geared towards fostering connections with an array of **professional networks, initiatives, architect and engineering associations, and platforms**.

The main objectives of the Networking activities are:

1. Identifying Stakeholders:

Specific: Identification of the **most high-level** and relevant stakeholders in each partner country related to **shallow geothermal and retrofitting market**.

Measurable: Compiling a **list of stakeholders** from each partner's country, with focus on **architects associations** until the end of the project.

Achievable: Utilizing **online research, partner networks and shallow geothermal and retrofit market databases (data collection by each partner)** to identify stakeholders effectively.

Relevant: Stakeholders identified should have a **direct influence** on the shallow geothermal market and retrofitting initiatives.

Time: The relevant stakeholders will be identified in **the first year** of the project.

2. Database Creation:

Specific: Creating a comprehensive database exclusively comprising **high-level stakeholders** identified **from partner countries**, that will include the person of contact, mail, telephone number and other relevant information regarding the stakeholders.

Measurable: Develop a database with detailed information on **high-level stakeholders** from **each partner's country** until the end of the project.

Achievable: Collect and verify stakeholder information through **reliable sources**, ensuring accuracy and relevance.

Relevant: The database should include stakeholders directly **related to shallow geothermal market and retrofitting**, with focus on the **architects and relative associations**.

Time: The database will be created in **the first year** of the project and updated **annually**.

3. Information Exchange through Networking Activities:

Specific: Facilitate **information exchange** to reach the target audience in the shallow geothermal market and retrofitting sector.

Measurable: Organizing planning of networking actions for **every year** of implementing the project, sharing relevant updates and insights for networking activities and update **every 6 months** of the project.

Achievable: Use **online platforms and webinars** to enable efficient information exchange among consortium partners.

Relevant: The information shared should align with the **interests and needs of the target audience** in the specified sectors.

Time: Conduct **each 6 months** information exchange sessions during the Consortium meetings.

4. Consortium Networking Events:

Specific: Organize **networking events**, over **100**, involving consortium partners and stakeholders from the shallow geothermal market and retrofitting sector, **social media campaigns (at least 3), and sending newsletters by email to the identified stakeholders**.

Measurable: Successfully host over 100 networking events, including webinars, conferences, and workshops and social media campaigns **during the project lifetime**.

Each partner will engage the identified stakeholders in its country by:

1. *Inviting them to networking events.*
2. *Sending informative project-related emails.*
3. *Encouraging questions and promptly addressing them.*

Achievable: Plan **events collaboratively with partners**, ensuring diverse topics and engaging formats to attract participants also on events and on the social media platforms.

Relevant: The events and social media campaigns should focus on reaching the target group: **architects, engineers, builders, real estate companies, investors, and restorers and associations of these categories**.

Time-bound: Reach **at least 100 networking events at minimum 3 social media campaigns** during the life of the project.

By adhering to these **SMART objectives**, the networking activities were effectively planned, executed, and measured to achieve meaningful outcomes within the specified timelines.

To be noted that **all the partners** have been involved in this **planning** process and that during the Consortium meetings several ideas have been analysed and selected in order to achieve the main networking activities performed in the frame of **Task 8.4**.

As main categories for **networking activities**, the Consortium has decided on:

1. Networking events :

- ✓ **Meetings with European and International Networks of architects, engineers, constructors, Real estate investors, Restorers or other interested stakeholders** by inviting them on the webinars and other events organized by each partner
- ✓ **Training courses** focused on the identified stakeholders
- ✓ **Workshops** focused on the identified stakeholders
- ✓ **Seminars** focused on the identified stakeholders
- ✓ **Conferences** focused on the identified stakeholders
- ✓ **Exhibitions and Fairs** focused on the identified stakeholders
- ✓ **Meetings with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers**, that meet the 3 criteria from the definition of networking activities

2. Social media actions focused on the targeted audience

- ✓ **Campaigns Newsletters and E-mail** with project information

The networking activities play a special role in this project because by these activities the partners establish **connections with stakeholders** in order to assure a commercialization and knowledge transfer during the implementation, but also after finishing the project. The **main networking goals** in GEO4CIVHIC Project are in accordance to the EU Heat Pump Action Plan² by reflecting resource sharing, reliability, cost-effective and fast data sharing in a strategy that intends to offer individuals, enterprises, and small-scale industries straightforward information about available heat pump technologies, the suitability of their buildings, industrial setups, and networks for heat pump integration, among other subjects.

Table 1 - Main goals for networking implementing

GOALS	PRACTICAL APPLIANCE
Stakeholder engagement	Engaging with key stakeholders, such as public and private, environmental groups, energy suppliers and construction companies, to garner support and feedback.
Market touch	Touching the market engages actions that assure presence on the market
Data exchange	Involving exchange of e-mail addresses, business cards and creating interaction
Feedback collection	Feedback from architects , installers, users, and other stakeholders to improve the technology and address any challenges faced during installation or usage.
Database creation for the future exploitation	Creation of an internal database in order to assure connections with the stakeholders and apply it in using in the Exploitation Plan, protecting data privacy with the GDPR.

² Heat pumps – action plan to accelerate roll-out across the EU, 2023, <https://ec.europa.eu/info/law>

4.3 Target Groups and Dissemination Channels

During different stages of the project, the Consortium identified the list of relevant stakeholders to be approached, in each of the participating country, in order to create a path for commercializing the outputs.

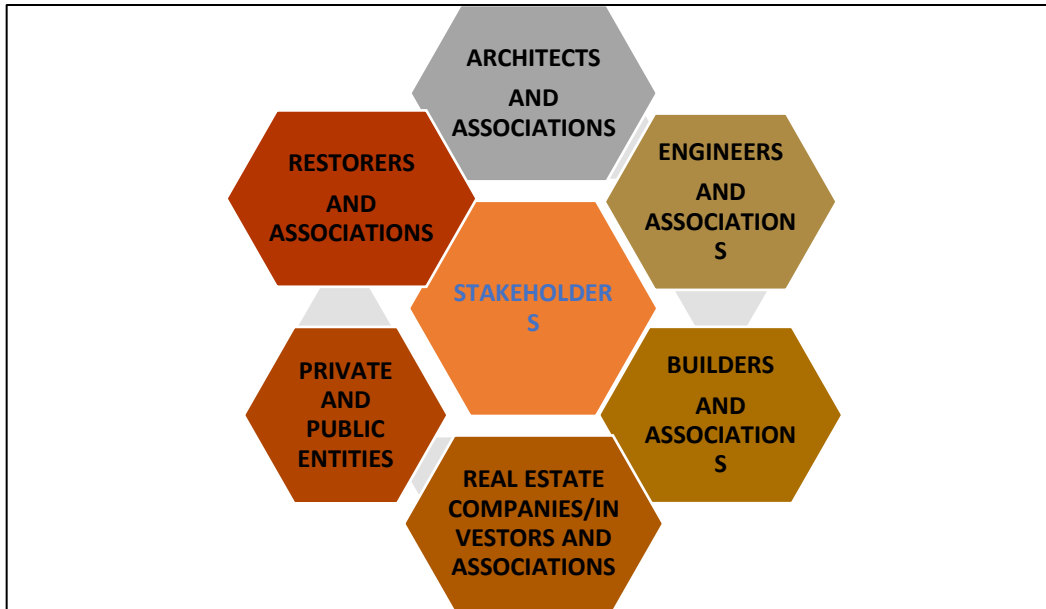


Figure 1 - Stakeholders categories identification

In the Figure 1 “ Stakeholders categories identification”, there are highlighted the **high impact stakeholders** at European/national level, identified after the Stakeholders’ assessment.

Within the GEO4CIVHIC project, the stakeholders were also divided into primary categories (key target groups) and Secondary Target Groups, as follows in Table 2 “ General Target Audience in GEO4CIVHIC” below.

Table 2 - General Target Audience in GEO4CIVHIC

Key Target Groups	Architects and Associations
	Restorers and Associations
	Engineers and Associations
	Builders in the field and Associations
	Real estate companies and Associations
Secondary Target Groups	Public entities

The members of the Consortium have established the main target groups according to the outcomes of the networking activities in order to:

- 1) **Knowing the market needs as well as the market barriers**
- 2) **Transferring the information between involved parts and tertiary partners (final clients)**
- 3) **Using a strategy to engage other stakeholders by: newsletters, social media campaigns targeted on the identified stakeholders, involvement in webinars, presentations, once the definitives KERs have been defined.**

5 Consortium Networking Activities - National and International Levels

5.1 Networking activities for each partner in GEO4CIVHIC project

The networking endeavors within the GEO4CIVHIC project align with the dissemination plan set out by the TED strategy.

All 19 partners of the GEO4CIVHIC project have been proactive and have participated in the **networking activities** by completely implementing their plans in networking actions, focused on the identified stakeholders: **architects, engineers, builders, real estate companies, restorers and associations of these categories**.

The collaboration with **architects** was instrumental in ensuring that the project's solutions were in harmony with the vision and regulatory requirements that come **directly from the market**.

Engaging with engineers and builders allowed for a seamless integration of innovative technologies and engineering solutions adopted to the marked needs, optimizing the implementation of the Exploitation plan. The involvement of **real estate companies** enabled the project to be in accordance to market trends and ensuring **future commercialization channels**.

Connecting interested stakeholders with the project partners assured on obtaining good results on the **market**, fostering trust in the project's outcomes.

Involving restorers allowed for the preservation of historical elements and the incorporation of cultural heritage into the project's offer of innovative solutions on the market.

In conclusion, the collaboration and **networking with architects, engineers, builders, real estate companies, restorers and associations of these categories** have been the driving force between **the successful implementation** of our networking activities and the future projection of the Exploitation Plan.

The synergy between the **19 partners** and these **stakeholders** has resulted in a sustainable development that caters to the **market demands and focuses on commercialization**. This successful integration of the importance of **effective networking and collaboration** should be presented separately for each partner in order to have an overview of the **networking activities and their results**.

In the following, we present the implementation of the Networking Activity Plan for each partner as reported at international and national level.

Table 3 - Networking activities implementation RED

Partner: RED; Responsible person: Luc Pockelé/Giulia Mezzasalma	
Networking activity name	Relevant information
<p><i>Networking event: "Key Energy" Fair</i></p> <p>(November 8th-11th, 2022, Rimini - Italy)</p>	Type: Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: GEO4CIVIC was present – in the RED and was also disseminated on social media channels, and opened the ways for further cooperation in the shallow geothermal domain.
<p><i>Networking event: EGEC Webinar</i></p> <p>(March 31st, 2022)</p>	Type: Webinar
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects
	Additional info: On this occasion, Luc Pockele presented the latest development of the GEO4CIVHIC Project.
<p><i>Networking event: "100%RHC Event- Towards 100% renewable energy-based heating and cooling in Europe: A secure energy supply in time of crisis"</i></p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: A presentation of the poster of GEO4CIVHIC was done by Adriana Bernardi and a lecture " Unleashing the Heat from the Earth: How Geothermal Energy Paves the Way for 100% Renewable Heating and Cooling" was performed by Luc Pockelé where the activity inside EGEC including the European projects (GEO4CIVHIC included) was described as well as the past and future figures of the use of geothermal source. Networking was performed with other projects (SENERGY NETS, SHAREs, HYPERGRYD, SHIP2FAIR, TS2,) present at the conference when exchanges of information and possible future collaborations were discussed.
<p><i>Networking event: Virtual Congress</i></p>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories

<p>(October 25th, 2021)</p>	<p>Action Completed: Presentation of the project and results, Promoting actions, Standardization Bodies</p> <p>Additional info: Dr. Adriana Bernardi (CNR) and Mr. Luc Pockele (RED) presented the GEO4CIVHIC Project in a virtual session of the congress, alongside other EU financed projects. They were accompanied by Mrs. Loredana Rossi and Arch. Leonardo Rossi (Pietre Edil), who supported the presentation and contributed with leaflets and brochures with information on the project.</p>
<p><i>Networking event: Geotherm Of-fenburg Congress & Exhibition</i></p> <p>(June 24th-25th, 2021)</p>	<p>Type: Congress and Exhibition</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Standardization Bodies</p> <p>Additional info: Presentations were held with this occasion, an online event held for thr 14th time.</p>
<p><i>Networking event: International workshop (on-line): "Shallow Geothermal: a promising renewable resource for heating and cooling"</i></p> <p>(2020, Trieste - Italy)</p>	<p>Type: Workshop</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions</p> <p>Additional info: International workshop (on-line): "Shallow Geothermal: a promising renewable resource for heating and cooling" in the frame of the Euro Science Open Forum ESOF 2020 Trieste (Italy). The presentations covered different topics tackled during the H2020 Projects Cheap-GSHPs and GEO4CIVHIC, such as: geology & mapping, innovative drilling and GSHE technologies, interference between geothermal probes, environmental aspects, software design tools.</p>
<p><i>Networking event: "European Drillability mapping for shallow geothermal applications"</i></p> <p>(January, 2020)</p>	<p>Type: Congress</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations</p> <p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
	<p>Type: Links with EU programs, platforms, initiatives</p>

<p><i>Networking event: Regional project (POR FESR 2014-2020) with EU, regional and national funds</i></p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations, Joint common demonstrations issues</p>
	<p>Additional info: In this project RED will create a program to help the diffusion and dissemination of the HYDRA-RED method and geothermal activities in the Veneto region in Italy.</p>
<p><i>Networking event: „Development of a compact, rotation-vibration drilling head to install co-axial heat exchangers in urban areas“</i></p>	<p>Type: Technical publication</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Development and distribution of educational materials</p> <p>Additional info: Networking activity by distributing technical information.</p>
<p><i>Networking event: The European Geothermal Congress in Hague (2019)</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Standardization bodies</p> <p>Additional info: The European Geothermal Congress in Hague organized by EGEC has enabled the presentation of two important papers on the GEO4CIVHIC Project and its achievements so far. Moreover, the consortium partners (RED and SUPSI) present at the congress also participated at the RH&C-ETIP meeting, chaired by Prof Javier Urchueguia (Universidad Politecnica de Valencia – Spain). The meeting concluded with a collection of research topics in the field of shallow geothermal energy, which will be presented to the European Commission as proposals for future funding.</p>
<p><i>Networking event: The Renewable Energy Expo “Key Energy” (November 5th -8th, 2019, Rimini - Italy)</i></p>	<p>Type: Exhibition</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Distributing materials, Promoting actions</p> <p>Additional info: On this occasion, Giulia Mezzasalma and Silvia Contini have distributed printouts and displayed a poster presenting both projects GEO4CIVHIC and Cheap-GSHPs.</p>

<p><i>Networking event: Shallow Geothermal Energy Days</i></p> <p>(September 24th and 25th, 2019, Brussels – Belgium)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials</p>
	<p>Additional info: The Cheap-GSHPs and GEO4CIVHIC consortia were represented at the event. A poster presenting both projects (Cheap-GSHPs and GEO4CIVHIC) was displayed during the event. The participants' were also distributed leaflets and brochures of the two EU funded projects.</p>
<p><i>Networking event: "Shallow geothermal maps in Cheap-GSHPs and GEO4CIVHIC European Projects Shallow geothermal maps in Cheap-GSHPs and GEO4CIVHIC European Projects"</i></p> <p>(September 25th, 2019, Brussels - Belgium)</p>	<p>Type: Workshop</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: "Innovative drilling methods, heat pumps and tools to address shallow geothermal in built environment: H2020 project – GEO4CIVHIC"</i></p> <p>(July 14th, 2019)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: Congress Double U-tube borehole heat exchangers."</i></p> <p>(June, 2019)</p>	<p>Type: Congress</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations</p>
	<p>Additional info: Presenting the project's results and products also establishing connections with potential interested parties.</p>

<p><i>Networking event: EU Sustainable Energy Week (EUSEW2020)</i> (June 17th-21st, 2019)</p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p> <p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: GeoTHERM 2019</i> (February 2019, Offenburg)</p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p> <p>Additional info: Networking activity and establishing connections for future collaborations.</p>
<p><i>Networking event: ECTP - Fair of European Innovation in cultural heritage</i> (November 2018, Brussels - Belgium)</p>	<p>Type: Fair</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization Bodies</p> <p>Additional info: Networking activity and establishing connections for future collaborations.</p>
<p><i>Networking event: International Sustainable Energy Conference 2018</i> (October 3rd-5th, 2018, Graz-Austria)</p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project</p> <p>Additional info: On October 5th , 2018, during the ISEC held in Graz (Austria), Luc Pockelé made a presentation about the GEO4CIVHIC Project. This presentation was also accompanied by other presentations regarding the Cheap-GSHP Project and the work of the Geothermal Panel of the RHC-ETIP.</p>

In conclusion, RED successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **19 Networking events**, from which:
 - 7 Conferences
 - 4 Congresses
 - 2 Fairs
 - 2 Exhibitions
 - 2 Workshops
 - 1 Webinar
 - 1 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 4 - Networking activities implementation HYDRA

Partner: HYDRA; Responsible person: Davide Righini	
Networking activity name	Relevant information
<i>Networking event: „Development of a compact, rotation-vibration drilling head to install co-axial heat exchangers in urban areas”</i>	Type: Technical publication
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Development and distribution of educational materials
	Additional info: Networking activity by distributing technical information.
<i>Networking event: Ecomondo Energy Fair</i> (November 5 th -8 th , 2019, Rimini - Italy)	Type: Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Distributing materials, Promoting actions
	Additional info: On this occasion, Hydra exhibited a GEO4CIVHIC poster at its stand.
<i>Networking event: BAUMA</i>	Type: Fair

(April 8 th -14 th 2019, Munich)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting
	Additional info: Hydra Company participated at the renowned fair BAUMA which is an industrial fair, where it established connections with specialists. It also participated with a stand presenting its drilling machines. A poster informing about the GEO4CIVHIC Project and its demo sites was displayed at Hydra's stand.

In conclusion, HYDRA successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **3 Networking events**, from which:
 - 2 Fairs
 - 1 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 5 - Networking activities implementation CNR (CNR-ITC, CNR-ISAC)

Partner: CNR (CNR-ITC, CNR-ISAC); Responsible person: Adriana Bernardi	
Networking activity name	Relevant information
<i>Networking event: 2022 European Geothermal Congress – CINEA</i> (October 17 th , 2022, Berlin)	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies Additional info: The GEO4CIVHIC Project was presented by the coordinator Dr. Adriana Bernardi. The presentations were followed by a session of Q&A from the participants. In the second part of the event, the participants took part in 3 consecutive discussion sessions dealing with “hot topics” of the European projects: Dissemination and Exploitation of projects’ results, as well as Policy issues. The discussions were meant to maximize impact and results, and to facilitate potential synergies among projects. All participants appreciated the quality of the event and the expected outcomes with respect to EU financed geothermal projects.
<i>Networking event: EGEC Webinar</i> (March 31st, 2022)	Type: Webinar
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories

	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects</p> <p>Additional info: On this occasion, Adriana Bernardi presented the latest development of the GEO4CIVHIC Project.</p>
<p><i>Networking event: "Key Energy" Fair</i></p> <p>(October 26th-29th, 2021, Rimini - Italy)</p>	<p>Type: Fair</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: GEO4CIVIC was present was also disseminated on social media channels, and opened the ways for further cooperation in the shallow geothermal domain.</p>
<p><i>Networking event : Virtual Congress</i></p> <p>(October 25th, 2021)</p>	<p>Type: Congress</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Standardization Bodies</p> <p>Additional info: Dr. Adriana Bernardi (CNR) and Mr. Luc Pockele (RED) presented the GEO4CIVHIC Project in a virtual session of the congress, alongside other EU financed projects. They were accompanied by Mrs. Loredana Rossi and Arch. Leonardo Rossi (Pietre Edil), who supported the presentation and contributed with leaflets and brochures with information on the project.</p>
<p><i>Networking event: 2021 European Researchers' Night</i></p> <p>(September 24th, 2021, Padova - Italy)</p>	<p>Type: Fair</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: The event aimed at connecting ordinary people with research activities in Europe. The CNR ITC representatives talked about new refrigerants and heat pump applications, and also described the objectives of GEO4CIVHIC project and the research activities performed within it.</p>
<p><i>Networking event: GeoTHERM 2021</i></p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>

(June 24 th -25 th , 2021, Offenburg)	Additional info: Networking activity and establishing connections for future collaborations.
<i>Networking event: "ALTERNATIVE ENERGY SOURCES, MATERIALS AND TECHNOLOGIES (AESMT'21)"</i> (June 14 th -15 th , 2021, Ruse - Bulgaria)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Standardization Bodies
	Additional info: Oral presentation: "European and municipal scale drillability maps: a tool to identify the most suitable methods to install Borehole HeatExchange (BHE) probes".
<i>Networking event: "12th European Geothermal Days"</i> (February 15 th -16 th , 2021, Paris – France)	Type: Online conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: On the occasion, it has been presented the poster "Preliminary findings in the Assessment of the Critical radius of Ground heat Exchangers: a Factorial design Approach."
<i>Networking event: "100%RHC Event- Towards 100% renewable energy-based heating and cooling in Europe: A secure energy supply in time of crisis"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: A presentation of the poster of GEO4CIVHIC was done by Adriana Bernardi and a lecture " Unleashing the Heat from the Earth: How Geothermal Energy Paves the Way for 100% Renewable Heating and Cooling" was performed by Luc Pockelé where the activity inside EGEC including the European projects (GEO4CIVHIC included) was described as well as the past and future figures of the use of geothermal source. Networking was performed with other projects (SENERGY NETS, SHAREs, HYPERGRYD, SHIP2FAIR, TS2,) present at the conference when exchanges of information and possible future collaborations were discussed.
<i>Networking event: „Development of a compact, rotation-vibration"</i>	Type: Technical publication
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories

<p><i>drilling head to install co-axial heat exchangers in urban areas”</i></p>	<p>Action Completed: Development and distribution of educational materials</p> <p>Additional info: Networking activity by distributing technical information.</p>
<p><i>Networking event: “La notte europea dei Ricercatori - European night of researchers”</i></p> <p>(November 27th 2020)</p>	<p>Type: Seminar</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions</p> <p>Additional info: Presenting relevant information about the project and results, networking with participants.</p>
<p><i>Networking event: Sustainable Places 2020 – linked with GEOFIT H2020</i></p>	<p>Type: Links with EU programs, platforms, initiatives</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations, Joint common demonstrations issues</p> <p>Additional info: maintained the communication with coordinator partner of GEOFIT H2020 in order to jointly organize an event in the main frame of Sustainable Places 2020 which is in progress.</p>
<p><i>Networking event: International workshop (on-line): “Shallow Geothermal: a promising renewable resource for heating and cooling”</i></p> <p>(2020, Trieste - Italy)</p>	<p>Type: Workshop</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions</p> <p>Additional info: International workshop (on-line): “Shallow Geothermal: a promising renewable resource for heating and cooling” in the frame of the Euro Science Open Forum ESOE 2020 Trieste (Italy). The presentations covered different topics tackled during the H2020 Projects Cheap-GSHPs and GEO4CIVHIC, such as: geology & mapping, innovative drilling and GSHE technologies, interference between geothermal probes, environmental aspects, software design tools.</p>
<p><i>Networking event: “European Drillability mapping for shallow geothermal applications”</i></p> <p>(January, 2020)</p>	<p>Type: Congress</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations</p>

	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<p><i>Networking event: Press “landslides, cultural heritage, energy saving. The high-tech projects of the CNR of Padua”</i></p> <p>(December, 2019)</p>	Type: Press release
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations
	Additional info: On December 2019 the Press “landslides, cultural heritage, energy saving. The high-tech projects of the CNR of Padua” is released on Rai news. http://futuro24.blog.rainews.it/2019/12/13/futuro24-frane-beni-culturali-risparmio-energetico-i-progetti-hightech-del-cnr-di-padova/ .
<p><i>Networking event: “Shallow geothermal maps in Cheap-GSHPs and GEO4CIVHIC European Projects Shallow geothermal maps in Cheap-GSHPs and GEO4CIVHIC European Projects”</i></p> <p>(September 25th, 2019, Brussels - Belgium)</p>	Type: Workshop
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<p><i>Networking event: Shallow Geothermal Energy Days</i></p> <p>(September 24th and 25th, 2019, Brussels – Belgium)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials
	Additional info: The Cheap-GSHPs and GEO4CIVHIC consortia were represented at the event. A poster presenting both projects (Cheap-GSHPs and GEO4CIVHIC) was displayed during the event. The participants’ were also distributed leaflets and brochures of the two EU funded projects.
<p><i>Networking event: “Innovative drilling methods, heat pumps and tools to address shallow geothermal in built environment: H2020 project – GEO4CIVHIC”</i></p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

(July 14 th , 2019)	
<i>Networking event: Congress Double U-tube borehole heat exchangers.</i>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting and Sales actions, Demonstrations
(June, 2019)	Additional info: Presenting the project's results and products also establishing connections with potential interested parties.
<i>Networking event: REHVA 13th World Congress CLIMA</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies
	Additional info: During this event, members of the GEO4CIVHIC Project's consortium presented two papers in specialized sections dedicated to renewable energy sources. Francesco Cicolin (CNR-ISAC Italy) presented the paper The H2020 project GEO4CIVHIC (Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings). Moreover, representatives of the GEO4CIVHIC Project participated at the "REHVA course on hybrid GEOTABS", thus insuring a connection between these two EU funded projects.
<i>Networking event: EGC 2019</i>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: EGC 2019 congress presentation "Archetype definition for analyzing retrofit solutions in urban areas in Europe"
<i>Networking event: GeoTHERM 2019</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
(February 2019, Offenburg)	

	Additional info: Networking activity and establishing connections for future collaborations.
<p><i>Networking event: ECTP - Fair of European Innovation in cultural heritage</i></p> <p>(November 2018, Brussels - Belgium)</p>	Type: Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization Bodies
	Additional info: Networking activity and establishing connections for future collaborations.
<p><i>Networking event: International Sustainable Energy Conference 2018</i></p> <p>(October 3rd-5th, 2018, Graz-Austria)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project
	Additional info: On October 5th , 2018, during the ISEC held in Graz (Austria), Luc Pockelé made a presentation about the GEO4CIVHIC Project. This presentation was also accompanied by other presentations regarding the Cheap-GSHP Project and the work of the Geothermal Panel of the RHC-ETIP.

In conclusion, CNR successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **24 Networking events**, from which:
 - 9 Conferences
 - 5 Congresses
 - 3 Fairs
 - 2 Workshops
 - 2 Webinars
 - 3 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 6 - Networking activities implementation UPV

Partner: UPV; Responsible person: Borja Badenes	
Networking activity name	Relevant information
Networking event: <i>Course for specialists</i> (October 24 th , 2023, Valencia, Bilbao – Spain)	Type: Course for specialists
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting, Demonstration
	Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis, DSS extended example, business models, Cost Benefit cases
Networking event: <i>Workshop</i> (October 23 rd , 2023, Valencia, Bilbao – Spain)	Type: Workshop
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting
	Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis, DSS extended example, business models, Cost Benefit cases
Networking event: <i>“Innovative drilling methods, heat pumps and tools to address shallow geothermal in built environment: H2020 project – GEO4CIVHIC”</i> (July 14 th , 2019)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
Networking event: <i>GeoTHERM 2021</i> (June 24 th -25 th , 2021, Offenburg)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Networking activity and establishing connections for future collaborations.
	Type: Conference

<i>Networking event: Meeting of the geothermal panel of RHC-ETIP</i> (June, 2019)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: Geothermal Panel meeting – Presentation of GEO4CIVHIC.
<i>Networking event: GeoTHERM 2019</i> (February 2019, Offenburg)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings Additional info: Networking activity and establishing connections for future collaborations.
<i>Networking event: GEOTRAINET annual meeting</i> (December, 2018)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies Additional info: Geothermal Panel meeting – Presentation of GEO4CIVHIC.

In conclusion, UPV successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **7 Networking events**, from which:
 - 5 Conferences
 - 1 Workshop
 - 1 Webinar

Table 7 - Networking activities implementation TECNALIA

Partner: TECNALIA; Responsible person: Amaia Castelruiz	
Networking activity name	Relevant information
	Type: Course for specialists

<p><i>Networking event: Course for specialists</i></p> <p>(October 24th, 2023, Valencia, Bilbao – Spain)</p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Meeting, Demonstration</p> <p>Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis, DSS extended example, business models, Cost Benefit cases</p>
<p><i>Networking event: Workshop</i></p> <p>(October 23rd, 2023, Valencia, Bilbao – Spain)</p>	<p>Type: Workshop</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Meeting</p>
	<p>Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis, DSS extended example, business models, Cost Benefit cases</p>
<p><i>Networking event: HYBRID organization (in presence/on line)</i></p> <p>(October, 2023)</p>	<p>Type: Webinar</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Meeting</p>
	<p>Additional info: Dissemination emails ECTP / PTEC</p>
<p><i>Networking event: TECNUN - School of Engineering of the University of Navarra</i></p>	<p>Type: Webinar</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Meeting</p>
	<p>Additional info: GEO4CIVHIC Project presentation and dissemination of results (https://en.tecnun.unav.edu/), San Sebastian, Spain</p>
<p><i>Networking event: GeoTHERM 2021</i></p> <p>(June 24th-25th, 2021, Offenburg)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>

	Additional info: Networking activity and establishing connections for future collaborations.
<p><i>Networking event: Artificial Intelligence in Architecture, Engineering and Construction</i></p> <p>(March 25th, 2021)</p>	Type: Virtual Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials
	Additional info: Dr. Sarah Noyer (Tecnalia – Spain) presented the paper “Harvest the power of the building digital twin with artificial intelligence” in the virtual conference Artificial Intelligence in Architecture, Engineering and Construction. The topic covered was about the concept of Building Digital Twin and how it can benefit from artificial intelligence. The paper speaks also about the work done regarding the control strategies to integrate GSHP with other renewable energies.
<p><i>Networking event: REHVA 13th World Congress CLIMA</i></p> <p>(May 26th-29th, 2019, Bucharest – Romania)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies
	Additional info: During this event, members of the GEO4CIVHIC Project’s consortium presented two papers in specialized sections dedicated to renewable energy sources. Moreover, representatives of the GEO4CIVHIC Project participated at the “REHVA course on hybrid GEOTABS”, thus insuring a connection between these two EU funded projects.

In conclusion, TECNALIA successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **7 Networking events**, from which:
 - 3 Conferences
 - 1 Workshops
 - 3 Webinar

Table 8 - Networking activities implementation UBEG

Partner: UBEG; Responsible person: Sanner Burkhard	
Networking activity name	Relevant information
<p><i>Networking event: VDI network on technological history</i></p>	Type: Virtual Seminar
	Target Group: Architects, Engineers, Builders, Researchers
	Action Completed: Presentation of the project and results

(September 28 th , 2023, host in Hannover, Germany)	Additional info: Presenting relevant information about the project and results in the frame of shallow geothermal development history.
Networking event: Geotherm Of-fenburg 2023 (March 2 nd , 2023, afternoon)	Type: Trade Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: Presenting relevant information about the project and results, networking with trade fair visitors.
Networking event: Convention on ETIP Geothermal (March 2 nd , 2023, morning)	Type: Workshop
	Target Group: Private and Public Entities, Consultants, Researchers
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: Presenting relevant information about the project and results, networking with workshop participants.
Networking event: Kompetenz-netzwerk Geothermie Hessen (December 9 th , 2022, meeting host in Wiesbaden, Hessen, Germany)	Type: Virtual meeting
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Update on project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: Discussions at virtual meeting regarding the project and results.
Networking event: 2022 Euro-pean Geothermal Congress – EGC 2022 (October 18 th -20 th , 2022, Berlin; organized by EGEC and BVG)	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with researchers, engineers, companies
	Additional info: Attended the presentation of the GEO4CIVHIC poster on Oct. 18 th , and numerous other sessions, gave geothermal market over-view in plenary on Oct. 20 th , discussions and networking on all 3 days.
	Type: Workshop

<p><i>Networking event: SPD-DEBAT-TENCAMP SUDWEST</i></p> <p>(July 2nd, 2022, Müllheim, Germany)</p>	<p>Target Group: Private and Public Entities, Political Activists and Decisionmakers</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions</p>
	<p>Additional info: Presentations of geothermal opportunities in SW-Germany and discussion with stakeholders and politicians.</p>
<p><i>Networking event: Geotherm Offenburg</i></p> <p>(June 2nd, 2022, Offenburg Germany)</p>	<p>Type: Trade Fair</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions</p> <p>Additional info: Presenting relevant information about the project and results, networking with trade fair visitors.</p>
<p><i>Networking event: Kompetenznetzwerk Geothermie Hessen</i></p> <p>(May 6th, 2022, meeting host in Wiesbaden, Hessen, Germany)</p>	<p>Type: Virtual meeting</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Update on project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Discussions at virtual meeting regarding the project and results.</p>
<p><i>Networking event: Kompetenznetzwerk Geothermie Hessen</i></p> <p>(December 10th, 2021, meeting host in Wiesbaden, Hessen, Germany)</p>	<p>Type: Virtual meeting</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Update on project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Discussions at virtual meeting regarding the project and results.</p>
<p><i>Networking event: ENERSTOCK 2021</i></p> <p>(June 9th-11th, 2021, planned in Ljubljana, Slovenia, but changed to only virtual due to pandemic restrictions)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions</p> <p>Additional info: During ENERSTOCK 2021, Dr. Burkhard Sanner presented a poster and gave a speech on the topic: "OPPORTUNITIES FOR BTES IN EXISTING BUILDINGS – IDEAS AND FIRST RESULTS FROM PROJECT GEO4CIVHIC".</p>
	<p>Type: Virtual workshop</p>

<p><i>Networking event: EGEC Workshop on simplification of shallow geothermal permits</i></p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions on simplification of permitting process</p>
	<p>Additional info: Brain storming and discussion of specific actions in connection with EU regulation on RES permitting processes.</p>
<p><i>Networking event: MUSE workshop on European mapping for shallow geothermal applications</i></p> <p>(May 10th, 2021, virtual workshop hosted by the MUSE project from Vienna, Austria)</p>	<p>Type: Virtual workshop</p>
	<p>Target Group: Architects, Engineers, Researchers</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions</p>
	<p>Additional info: Presentation at the conference, discussion of further actions towards mapping and GIS for shallow geothermal.</p>
<p><i>Networking event: Kompetenznetzwerk Geothermie Hessen</i></p> <p>(March 5th, 2021, meeting host in Wiesbaden, Hessen, Germany)</p>	<p>Type: Virtual meeting</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Update on project and results, Promoting actions, Meetings with architects, engineers, companies</p>
	<p>Additional info: Discussions at virtual meeting regarding the project and results.</p>
<p><i>Networking event: Shallow Geothermal Energy Days, organized by EGEC</i></p> <p>(December 9th and 11th, 2020, host in Brussels, Belgium)</p>	<p>Type: Virtual Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, discussions</p>
	<p>Additional info: Specific topic standardization in shallow geothermal, including GEO4CIVHIC technologies; presentation by Gavriliuc/Sanner/Pasquali on standards on Dec. 11th.</p>
<p><i>Networking event: Faktencheck Geothermie, by Kompetenznetzwerk Geothermie Hessen</i></p> <p>(November 11th, 2020, meeting host in Wiesbaden, Hessen, Germany)</p>	<p>Type: Virtual Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, discussions</p>
	<p>Additional info: During the conference, Dr. Erich Mands gave a speech on the topic: "Einsatz von Geothermie in Bestandsgebäuden - Rahmenbedingungen und Beispiele".(Geothermal application in existing buildings, framework conditions and examples).</p>
	<p>Type: Virtual Conference</p>

<p><i>Networking event: Webkonferenz „Oberflächennahe Geothermie“ by VKU LG Hessen</i></p> <p>(November 4th, 2020, meeting host in Frankfurt, Hessen, Germany)</p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, discussions</p> <p>Additional info: During the conference, Dr. Burkhard Sanner gave a speech on the topic: “Geothermisch gestützte Heizsysteme für einzelne Gebäude oder ganze Quartiere “. (Geothermally supplied heating systems for individual buildings and whole neighborhoods).</p>
<p><i>Networking event: Kompetenznetzwerk Geothermie Hessen</i></p> <p>(March 11th, 2020, Frankfurt, Hessen, Germany)</p>	<p>Type: Meeting</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Update on project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Discussions at meeting regarding the project and results.</p>
<p><i>Networking event: Shallow Geothermal Energy Days, organized by EGEC</i></p> <p>(September 24th-25th, 2019, Brussels, Belgium)</p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials</p> <p>Additional info: The GEO4CIVHIC consortium was represented at the event. A poster presenting GEO4CIVHIC was displayed during the event. Leaflets and brochures of the project were also distributed to the participants.</p>
<p><i>Networking event: Kompetenznetzwerk Geothermie Hessen</i></p> <p>(August 13th, 2020, Marburg, Hessen, Germany)</p>	<p>Type: Meeting</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Update on project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Discussions at meeting regarding the project and first results.</p>
<p><i>Networking event: Geothermie-Forum in Zürich: Geothermie. Kreativ. Kombiniert.</i></p> <p>(June 25th, 2019, Zürich, Switzerland)</p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Mentioning project and results in discussions, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Discussions regarding the project and results.</p>

<p><i>Networking event: 2019 European Geothermal Congress – EGC 2019</i></p> <p>(June 12th-13th, 2019, Rotterdam, The Netherlands)</p>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Alongside the congress a shallow geothermal mapping workshop was organized, with the coordination done by Dr. Burkhard Sanner; the GEO4CIVHIC drillability maps were presented and discussed there.
<p><i>Networking event: GeoENERGIE-Tag 2019</i></p> <p>(May 20th, 2019, Freiberg, Germany)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project, meetings
	Additional info: Networking and discussions with stakeholders in Eastern Germany
<p><i>Networking event: Meeting of the RHC-ETIP</i></p> <p>(February 15th, 2019, Offenburg Germany)</p>	Type: Workshop
	Target Group: Private and Public Entities, Consultants, Researchers
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: Presenting relevant information about the project, networking with workshop participants.
<p><i>Networking event: Geotherm Offenburg</i></p> <p>(February 14th-15th, 2019, Offenburg Germany)</p>	Type: Trade Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: Presenting relevant information about the project and results, networking with trade fair visitors.
<p><i>Networking event: Kompetenznetzwerk Geothermie Hessen</i></p> <p>(December 7th, 2018, Wiesbaden, Hessen, Germany)</p>	Type: Meeting
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of project, Promoting actions, Meetings with architects, engineers, companies
	Additional info: Discussions at meeting regarding the project.

<p><i>Networking event: Deutscher Geothermiekongress 2018, WS Standards</i></p> <p>(November 27th, 2018, Essen Germany)</p>	<p>Type: Workshop</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project, Promoting actions, Networking <i>with participants</i></p> <p>Additional info: Specific topic standardization in shallow geothermal; Dr. Burkhard Sanner gave a speech on “Geschichte und Aufbau der VDI 4640 Thermische Nutzung des Untergrunds, 1995 bis heute” (History and Structure of VDI 4640 Thermal Use of the Underground, 1995 until today).</p>
<p><i>Networking event: ENERSTOCK 2019</i></p> <p>(April 25th-27th, 2019, Adana, Turkey)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project, Promoting actions</p> <p>Additional info: During ENERSTOCK 2018, Dr. Burkhard Sanner gave a speech on the topic: “Standards and Guidelines for UTES/GSHP wells and boreholes “.</p>

In conclusion, UBEG successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **27 Networking events**, from which:
 - 8 Conferences
 - 2 Congresses
 - 3 Fairs
 - 6 Workshops
 - 1 Webinar
 - 6 Meetings
 - 1 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 9 - Networking activities implementation SUPSI

Partner: SUPSI; Responsible person: Marco Belliardi	
Networking activity name	Relevant information
<p><i>Networking event: Dissemination on District Heating</i></p> <p>(May 25th, 2023, Locarno)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies
	Additional info: Networking activities with stakeholders.
<p><i>Networking event: Teaching Swiss Standard SIA 384/6</i></p> <p>(every year in the past 5 years, Gordola)</p>	Type: Training course
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: SUPSI organized a training course and a dissemination on-line event for presenting some results of the GEO4CIVHIC EU funded project.
<p><i>Networking event: Deliverable 6.3 Results</i></p> <p>(September 20th, 2022, Turin)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies
	Additional info: Networking activities with stakeholders.
<p><i>Networking event: "Geosciences for a sustainable future"</i></p> <p>(September 19th – 21st, 2022)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies

	Additional info: During this event, Marco Belliardi presented the paper: "Recommendations for the planning and management of ground source heat pump systems in an urban environment, considering the effects of reciprocal thermal interference".
<p><i>Networking event: GEO4CIVHIC Training course</i></p> <p>(April 15th, 2021)</p>	Type: Training course
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: SUPSI organized a training course and a dissemination on-line event for presenting some results of the GEO4CIVHIC EU funded project. The event was attended by 26 participants.
<p><i>Networking event: GEO4CIVHIC RESULTS</i></p> <p>(April 12th, 2021)</p>	Type: Training course
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: SUPSI organized a training course and a dissemination on-line event for presenting some results of the GEO4CIVHIC EU funded project, especially D6.3.
<p><i>Networking event: "TICINO IMPIANTISTICA"</i></p> <p>(October 10th-12th, 2020, Giubiasco, Switzerland)</p>	Type: Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions
	Additional info: SUPSI co-workers presented and explained the GEO4CIVHIC Project to participants and handed them the project's brochure and leaflet.
<p><i>Networking event: BRENET Conference in Aarau</i></p> <p>(September 3rd-4th, 2020, Switzerland)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies
	Additional info: SUPSI presented a poster concerning WP6 (Task 6.2).
	Type: Workshop and Seminar

<p><i>Networking event: Sonde geotermiche Workshop</i></p> <p>(March 27th, 2019)</p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Distributing materials</p>
	<p>Additional info: SUPSI organized a scientific event in its own headquarter with the name “Sonde geotermiche: innovazioni tecnologiche e riduzione dei costi di proprietà” devoted to the presentation and dissemination of the research results in Cheap-GSHPs. With this occasion Sebastian Pera, Rodolfo Perego and Marco Belliardi made different reference with GEO4CIVHIC, explaining the objectives, partners and deadlines, and the correlation between the two projects.</p>
<p><i>Networking event: The European Geothermal Congress in Hague</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Standardization bodies</p> <p>Additional info: The European Geothermal Congress in Hague organized by EGEC has enabled the presentation of two important papers on the GEO4CIVHIC Project and its achievements so far. Moreover, the consortium partners (RED and SUPSI) present at the congress also participated at the RH&C-ETIP meeting, chaired by Prof Javier Urchueguia (Universidad Politecnica de Valencia – Spain). The meeting concluded with a collection of research topics in the field of shallow geothermal energy, which will be presented to the European Commission as proposals for future funding.</p>
<p><i>Networking event: “Potenziali rinnovabili ed efficienza energetica”</i></p> <p>(January 23rd, 2019)</p>	<p>Type: Training course</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results</p> <p>Additional info: SUPSI organized a training course and a dissemination on-line event for presenting some results of the GEO4CIVHIC EU funded project.</p>
<p><i>Networking event: Training courses</i></p>	<p>Type: Training Courses</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project, results</p>

(November 12 th in Gordola and 28th in Campus Trevano, 2018, Switzerland)	Additional info: In November 2018, SUPSI has organized two training courses on the topic of shallow geothermal technologies. On this occasion, the lecturers Sebastiano Pera and Marco Belliardi have also disseminated information about the GEO4CIVHIC Project.
<i>Networking event: "Progettazione e dimensionamento di sonde geotermiche in accordo alla SIA 384/6" and "Energia dalle infrastrutture e dall'ambiente"</i>	Type: Training course
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results
(November 12 th , 2018)	Additional info: SUPSI organized a training course and a dissemination on-line event for presenting some results of the GEO4CIVHIC EU funded project.

In conclusion, SUPSI successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **13 Networking events**, from which:
 - 5 Conferences
 - 1 Fairs
 - 1 Workshops
 - 3 Webinar
 - 3 Courses

Table 10 - Networking activities implementation RGS - ROMANIAN GEOEXCHANGE SOCIETY

Partner: RGS – ROMANIAN GEOEXCHANGE SOCIETY; Responsible person: Doinita-Iuliana Cucueteanu	
Networking activity name	Relevant information
<i>Networking event: Tour for deep and shallow hybrid applications in Beius, Bihor County</i>	Type: Tour and Visit
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies, restorers
(November, 2 nd , 2023, Beius - Romania)	Additional info: Establishing connections with stakeholders, exchanging business cards and flyers over the project with over 50 participants.
<i>Networking event: Visit Tour at 4 shallow geothermal applications in Oradea, Bihor County</i>	Type: Tour and Visit
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories

<p>(November, 1st, 2023, Bucharest - Romania)</p>	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies, restorers</p> <p>Additional info: Establishing connections with stakeholders, with the participation of approx. 25 people specializing in shallow geothermal (today's trainees) but also about 25 people representing local authorities and decision-makers in administrative-territorial units that can include the technology in programs for the sustainable development of localities. Two of the visited objectives are historical and heritage monuments, all the applications are for heating and cooling, one of the applications has a shallow geothermal source extracted through the hybrid technique (drilling plus geothermal piles).</p>
<p><i>Networking event: Volume 1, 2, 3, 4, 5, 6, 7 and Demo case visit</i></p> <p>(October 31st, 2023, Oradea – Romania)</p>	<p>Type: Course</p> <p>Target Group: Engineers</p> <p>Action Completed: Synthesis of materials of the project, demonstrations</p> <p>Additional info: During this event, members of the RGS presented relevant information gathered in Volumes 1-7 and explained some Demo case visit.</p>
<p><i>Networking event: Workshop – INSIGHTS OF GEO4CIVHIC</i></p> <p>(July 14th, 17th 2023, Bucharest)</p>	<p>Type: Workshop</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects</p> <p>Additional info: On this occasion, RGS and Pietre Edil successfully concluded two insightful Webinars & Networking events, organized by PIETRE EDIL in collaboration with RGS, designed for architects, real estate developers, GSHP specialists, and policy makers. These events provided valuable insights into GSHP technology, explored its limitations, and shared best practices for local authorities, while fostering connections and networking opportunities among industry professionals.</p>
<p><i>Networking event: REHVA CLIMA 2022</i></p> <p>(May 24th, 2022, Rotterdam)</p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Standardization bodies</p> <p>Additional info: Prof. Robert Gavriluc (RGS) has participated at the presentation workshop of the TRI-HP Project. On this occasion, he shared to the participants leaflets and brochures on the GEO4CIVHIC Project. The congress was also attended by a team from University of Padova, consisting of Prof. Michele Decarli, Dr. Laura Carnieletto and 3 PhD students.</p>
	<p>Type: Conference</p>

<p><i>Networking event: Final conference in the ITRES Project</i></p> <p>(February 25th, 2022, Bucharest)</p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials</p> <p>Additional info: On February 25th, 2022, the University of Bucharest organized the final conference in the ITRES Project. During the event, the Romanian Geoexchange Society has presented information on its general activity and on the activity performed in the frame of the GEO4CIVHIC Project. Special focus was awarded to the cooperation with the Pan-European Network of Centers of Excellence on Shallow Geothermal Energy in view of future common activities, such as specialized courses and joint research activities. These activities would connect the GEO4CIVHIC network to other clusters including partners interested in developing shallow geothermal applications and building up the specialized human resource for this purpose.</p>
<p><i>Networking event: WEC CENTRAL & EASTERN EUROPE ENERGY FORUM – FOREN 2020</i></p> <p>(September 7th–10th, 2020)</p>	<p>Type: Congress</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials</p> <p>Additional info: The paper “TRENDS IN THE EUROPEAN RESEARCH IN THE DOMAIN OF HEATING AND COOLING SYSTEMS WITH GEOTHERMAL HEAT PUMPS – RESEARCH PROJECTS FINANCED BY THE EUROPEAN COMMISSION (CHEAP-GSHPs AND GEO4CIVHIC)” was presented in the DS2 section dedicated to “ENERGY MARKET IN THE TRANSITION PERIOD; INTEGRATION OF RENEWABLE SOURCES”.</p>
<p><i>Networking event: CEN TC 451 “Water and geothermal boreholes”</i></p> <p>(January 20th, 2020)</p>	<p>Type: Meeting</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Geothermal Panel meeting – Presentation of GEO4CIVHIC.</p>
<p><i>Networking event: 50th Congress for Heating, Ventilation and Air Conditioning of the Serbian HVAC Association</i></p> <p>(December 4th–6th, 2019, Belgrade – Serbia)</p>	<p>Type: Congress</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials</p> <p>Additional info: Prof. Robert Gavriiliuc presented the paper “Feasibility considerations regarding the implementation of a GSHP system for an industrial facility.” The paper includes information about the “Center of excellence for shallow geothermal energy” to be developed in the</p>

	GEO4CIVHIC Project and dedicated to South-East Europe. A poster presenting both the Cheap-GSHPs and GEO4CIVHIC projects was displayed in the exhibition area, and printouts were distributed to congress participants.
<p><i>Networking event: Shallow Geothermal Energy Days</i></p> <p>(September 24th and 25th, 2019, Brussels – Belgium)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials
	Additional info: The Cheap-GSHPs and GEO4CIVHIC consortia were represented at the event. A poster presenting both projects (Cheap-GSHPs and GEO4CIVHIC) was displayed during the event. The participants' were also distributed leaflets and brochures of the two EU funded projects.
<p><i>Networking event: REHVA 13th World Congress CLIMA</i></p> <p>(May 26th-29th, 2019, Bucharest – Romania)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Standardization bodies
	During this event, members of the GEO4CIVHIC Project's consortium presented two papers in specialized sections dedicated to renewable energy sources. Gheorghe Ilisei (Romanian Geoexchange Society) presented the paper: Sensitivity analysis using simulations for a ground source heat pump – implementation on a solar passive house. Moreover, representatives of the GEO4CIVHIC Project participated at the "REHVA course on hybrid GEOTABS", thus insuring a connection between these two EU funded projects.
<p><i>Networking event: GEOTRAINET annual meeting</i></p> <p>(December, 2018)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: Geothermal Panel meeting – Presentation of GEO4CIVHIC.

In conclusion, RGS successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **12 Networking events**, from which:
 - 5 Conferences
 - 2 Congresses

- 1 Workshops
- 1 Course
- 1 Meeting with stakeholders from the identified categories
- 2 Tours and Visits

Table 11 - Networking activities implementation PIETRE EDIL

Partner: PIETRE EDIL; Responsible person: Loredana Fodor	
Networking activity name	Relevant information
<p><i>Networking event: Biennale Architettura di Venezia</i></p> <p>(November, 8th, 2023, Venice-Italy)</p>	Type: Exhibition
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies, restorers
	Additional info: Establishing connections with stakeholders, exchanging business cards and flyers over the project.
<p><i>Networking event: Missione economica delle societa italiane dalla Regione Veneto</i></p> <p>(November, 8th, 2023, Bucharest - Romania)</p>	Type: B2B Meeting
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies, restorers
	Additional info: Establishing connections with stakeholders, meeting B2B with Mountech investor.
<p><i>Networking event: Missione economica delle societa italiane dalla Regione Veneto</i></p> <p>(November, 7th, 2023, Bucharest - Romania)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies, restorers
	Additional info: Establishing connections with stakeholders, exchanging business cards and flyers over the project.
<p><i>Networking event: WORKSHOP – INSIGHTS OF GEO4CIVHIC</i></p>	Type: Workshops
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects

(July 14 th , 17 th , 2023, Bucharest)	Additional info: On this occasion, RGS and Pietre Edil successfully concluded two insightful Webinars & Networking events, organized by PIETRE EDIL in collaboration with RGS, designed for architects, real estate developers, GSHP specialists, and policy makers. These events provided valuable insights into GSHP technology, explored its limitations, and shared best practices for local authorities, while fostering connections and networking opportunities among industry professionals.
<i>Networking event: Training webinar for architects</i>	Type: Webinar
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
(September 30 th , 2022)	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects
	Additional info: Pietre Edil organized a Training webinar for architects. The online event was organised into 3 major titles: General description: objectives and activities; Results of the project; Strengths of the application– presented for architects
<i>Networking event: Virtual Congress</i>	Type: Congress
(October 25 th , 2021)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Standardization Bodies
	Additional info: Dr. Adriana Bernardi (CNR) and Mr. Luc Pockele (RED) presented the GEO4CIVHIC Project in a virtual session of the congress, alongside other EU financed projects. They were accompanied by Mrs. Loredana Rossi and Arch. Leonardo Rossi (Pietre Edil), who supported the presentation and contributed with leaflets and brochures with information on the project.
<i>Networking event: SET-PLAN & ENVE CONFERENCE</i>	Type: Conference
(June 12 th -14 th , 2019, Bucharest)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: The GEO4CIVHIC consortium was represented by Mr. Alexandru Tanase from Pietre Edil, who made a presentation and distributed leaflets and brochures about the two EU funded projects – Cheap-GSHPs and GEO4CIVHIC.
<i>Networking event: REHVA 13th World Congress CLIMA</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories

(May 26 th -29 th , 2019, Bucharest – Romania)	Action Completed: Presentation of the project and results, Standardization bodies
	Additional info: Participated at CLIMA 2019 CONFERENCE where we distributed 50 GEO4CIVHIC flyers and brochures.
<i>Networking event: HARMONI Summit 2019</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
(January 2019, Brussels, Belgium)	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects
	Additional info: On this occasion, Pietre participated and disseminated information about the general objectives of the Project.

In conclusion, PIETRE EDIL successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **9 Networking events**, from which:
 - 4 Conferences
 - 1 Congresses
 - 1 B2B meeting
 - 1 Exhibition
 - 1 Workshops
 - 1 Webinar
3. Social media networking activity
 - **3 Campaigns with focus on targeted stakeholders**

Table 12 - Networking activities implementation FAU

Partner: FAU; Responsible person: David Bertermann	
Networking activity name	Relevant information
<i>Networking event: Training webinar</i>	Type: Webinar
(September, 2023)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects

	Additional info: FAU established connections with participants for future actions, presented results and made demonstrations.
<i>Networking event: „Development of a compact, rotation-vibration drilling head to install co-axial heat exchangers in urban areas“</i>	Type: Technical publication
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Development and distribution of educational materials
	Additional info: Networking activity by distributing technical information.
<i>Networking event: Workshop</i> (2022)	Type: Workshop for non specialists
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting
	Additional info: Networking activity by distributing relevant information and establishing contacts.
<i>Networking event: Geothermie Kongress</i> (November 20 th -21 st 2019, München, Germany)	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: David Bertermann and Johannes Muller (Fridrich Alexander Universitaet) have presented the GEO4CIVHIC Project during the Geothermie Kongress and the feedback and the interest for this presentation was very positive, as this was the only presentation dealing with the shallow geothermal energy.
<i>Networking event: „Long Night of Science“ / „Lange Nacht der Wissenschaften“</i> (October 19 th , 2019, Brussels – Belgium)	Type: Fair
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies
	Additional info: The event took place at Friedrich-Alexander-University (FAU) in three different cities (Nuremberg, Fürth & Erlangen). From 6 pm – 1 am visitors can inform themselves about science & innovation in all participating subjects of research. David Bertermann and Johannes Müller of project partner FAU presented a poster about the main project objectives and goals. About 150-200 guests visited the booth of the shallow geothermal working group to get updated about the European project.

<p><i>Networking event: Shallow Geothermal Energy Days</i></p> <p>(September 24th and 25th, 2019, Brussels – Belgium)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Standardization bodies, Distributing materials</p>
	<p>Additional info: The Cheap-GSHPs and GEO4CIVHIC consortia were represented at the event. A poster presenting both projects (Cheap-GSHPs and GEO4CIVHIC) was displayed during the event. The participants' were also distributed leaflets and brochures of the two EU funded projects.</p>
<p><i>Networking event: 2nd Forum Erdwärme und Wärmepumpe</i></p> <p>(2019)</p>	<p>Type: Congress</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies</p>
	<p>Additional info: Networking with stakeholders</p>

In conclusion, FAU successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **7 Networking events**, from which:
 - 1 Conference
 - 2 Congresses
 - 1 Fair
 - 1 Workshop
 - 1 Webinar
 - 1 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 13 - Networking activities implementation GEOSERV

Partner: GEOSERV; Responsible person: R. Pasquali, K. Harlin	
Networking activity name	Relevant information
<i>Networking event: "CEN TC451 on borehole heat exchangers"</i>	Type: Conference
	Target Group: All categories of stakeholders
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: CEN TC451 on borehole heat exchangers and development of final draft technical standard for public consultation. Input to national Technical Working Committee (NSAI and SEAI) on Heat pumps (NSAI/TC 031/SC 06 – Heat Pumps) for the completion of BHE aspects.
<i>Networking event: "RHC Geothermal Panel"</i>	Type: Webinar
	Target Group: All categories of stakeholders
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: participated in RHC Geothermal Panel, contribution to non-technical scientific work programme based on the initial results of the GEO4CIVHIC project
<i>Networking event: "GeoFIT and Engineers Ireland workshop"</i>	Type: Workshop
	Target Group: All categories of stakeholders
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: GEO4CIVHIC Project work programme at joint GeoFIT and Engineers Ireland workshop on geothermal energy in Ireland.
<i>Networking event: Technical publication „Development of a compact, rotation-vibration drilling head to install co-axial heat exchangers in urban areas"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

<i>Networking event: "Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings"</i>	Type: Conference
	Target Group: All categories of stakeholders
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: H2020 project GEO4CIVHIC
<i>Networking event: "Economic, geological and technical potential mapping test for GSHP systems in Europe"</i>	Type: Conference
	Target Group: All categories of stakeholders
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Economic, geological and technical potential mapping test for GSHP systems in Europe
<i>Networking event: "Economic, geological and technical potential mapping test for GSHP systems in Europe"</i>	Type: Conference
	Target Group: All categories of stakeholders
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Economic, geological and technical potential mapping test for GSHP systems in Europe
<i>Networking event: "Energy Show 2021"</i> (2021, Ireland)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: As part of the Energy Show 2021 – the main conference in Ireland organized each year by The Sustainable Energy Authority of Ireland– Geoserv has published a short video to publicize the GEO4CIVHIC technologies and the case study sites in Ireland.
	Type: Congress and exhibition

<p><i>Networking event: "Geotherm Offenburg Congress & Exhibition"</i></p> <p>(June, 2021)</p>	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies</p>
	<p>Additional info: The presentations on the occasion of the Geotherm Offenburg Congress & Exhibition, which took place for the 14th time on June 24-25, 2021, were held by all the partners mentioned in the left.</p>
<p><i>Networking event: GEOSERV – Ric Pasquali Presentation</i></p> <p>(December, 2020)</p>	<p>Type: Online Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p> <p>Additional info: Ric Pasquali presented the paper "The role of Geothermal in decarbonization – a focus on retrofitting of buildings". The paper includes information on the GEO4CIVHIC Horizon 2020 Project and the case study sites.</p>
<p><i>Networking event: "European Drillability mapping for shallow geothermal applications"</i></p> <p>(January, 2020)</p>	<p>Type: Congress</p>
	<p>Target Group: All categories of stakeholders</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p> <p>Additional info: "European Drillability mapping for shallow geothermal applications"</p>
<p><i>Networking event: "Energy and Rural Business Show"</i></p>	<p>Type: Webinar</p>
	<p>Target Group: All categories of stakeholders</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p> <p>Additional info: Energy and Rural Business Show Ireland (M15).</p>
<p><i>Networking event: "Engineers Ireland Training Workshop"</i></p> <p>(January, 2019)</p>	<p>Type: Training Workshop</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings with architects, engineers, companies</p> <p>Additional info: Engineers Ireland Training Workshop (in conjunction with GEOFIT EU project).</p>

In conclusion, GEOSERV successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **14 Networking events**, from which:
 - 8 Conferences
 - 2 Congresses
 - 2 Workshops
 - 2 Webinar

Table 14 - Networking activities implementation GALLETTI HIREF

Partner: GALLETTI HIREF; Responsible person: Fabio Poletto	
Networking activity name	Relevant information
Networking event: <i>“International sales conference”</i> (September, 2023, Barcelona - Spain)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Future of refrigerants for heat-pumps application in the contest of European regulations.
Networking event: <i>“Cooling Tech Revolution Florence”</i> (July, 2023)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Future of refrigerants for heat-pumps application in the contest of European regulations.
Networking event: <i>“Cooling Tech Revolution Milan”</i> (June, 2023)	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Future of refrigerants for heat-pumps application in the contest of European regulations.

<p><i>Networking event: "Cooling Tech Revolution Sicily"</i></p> <p>(May, 2023)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Future of refrigerants for heat-pumps application in the contest of European regulations.</p>
<p><i>Networking event: "Riunione Agenti Italia"</i></p> <p>(February, 2023, Padova-Italy)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Future of refrigerants for heat-pumps application in the contest of European regulations.</p>
<p><i>Networking event: International Sales Conference 3rd Edition</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Presentation of the project within agents and customers of the Galletti group in M18 during the ISC#3 - International Sales Conference 3rd Edition</p>
<p><i>Networking event: H2020 project conference</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Innovative drilling methods, heat pumps and tools to address shallow geothermal in the built environment: H2020 project - GEO4CIVHIC</p>
<p><i>Networking event: H2020 project conference</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: H2020 project GEO4CIVHIC (Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Building)</p>
	<p>Type: Online Congress and exhibition</p>

<i>Networking event: Geotherm Offenburg Congress & Exhibition</i> (June, 2021)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: The presentations on the occasion of the Geotherm Offenburg Congress & Exhibition, which took place for the 14th time on June 24-25, 2021, were held by all the partners.

In conclusion, GALLETTI HIREF successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **9 Networking events**, from which:
 - 8 Conferences
 - 1 Congresses

Table 15 - Networking activities implementation UNIPD (DII & DG)

Partner: UNIPD (DII & DG); Responsible person: De Carli Michele and Galgaro Antonio	
Networking activity name	Relevant information
<i>Networking event: "European Shallow Geothermal Mapping"</i>	Type: Webinar – Joined activities
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<i>Networking event: "Technical publication „Development of a compact, rotation-vibration drilling head to install co-axial heat exchangers in urban areas"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<i>Networking event: "Innovative drilling methods, heat pumps and</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories

<p><i>tools to address shallow geothermal in the built environment”</i></p>	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p> <p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: “Impact of Climate Conditions and Energy Prices on Museums Refurbishments in Different European Countries Based on Geothermal Energy, Electrical Power or Natural Gas Systems”</i></p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p> <p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: “Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings”</i></p>	<p>Type: Conference</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p> <p>Additional info: Archetype definition for analysing retrofit solutions in urban areas in Europe.</p>
<p><i>Networking event: “Geothermal systems for building conditioning in urban environment”</i></p> <p>(June, 2021)</p>	<p>Type: Webinar</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p> <p>Additional info: On June 24, 2021, UNIPD-DG organized a webinar held in Italian in cooperation with Centro Levi Cases (a research center affiliated to UNIPD) and UGI (Italian Geothermal Union)</p>
<p><i>Networking event: Geotherm Offenburger Congress & Exhibition</i></p> <p>(June, 2021)</p>	<p>Type: Online Congress and exhibition</p> <p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p> <p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>

	Additional info: The presentations on the occasion of the Geotherm Offenburg Congress & Exhibition, which took place for the 14th time on June 24-25, 2021, were held by all the partners.
<p><i>Networking event: "European Drillability mapping for shallow geothermal applications"</i></p> <p>(January, 2020)</p>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<p><i>Networking event: "Double U-tube borehole heat exchangers"</i></p> <p>(June, 2019)</p>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<p><i>Networking event: "Proceedings of the European Geothermal"</i></p>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: A Decision Support System (DSS) and a design tool for helping stakeholders and designers in the choice of GSHPs.
<p><i>Networking event: "Geofluid"</i></p> <p>(October, 2018)</p>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<p><i>Networking event: "Geotermia a Bassa Entalpia"</i></p> <p>(June, 2018)</p>	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

In conclusion, UNIPD (DII+DG) successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **12 Networking events**, from which:
 - 5 Conferences
 - 5 Congresses
 - 2 Webinar

Table 16 - Networking activities implementation GEOGREEN

Partner: GEOGREEN; Responsible person: Jacques Vercruysse	
Networking activity name	Relevant information
<i>Networking event: "Technical publication „Development of a compact, rotation-vibration drilling head to install co-axial heat exchangers in urban areas"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<i>Networking event: "Innovative drilling methods, heat pumps and tools to address shallow geothermal in the built environment"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<i>Networking event: "Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

<p><i>Networking event: "Economic, geological and technical potential mapping test for GSHP systems in Europe"</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: "Geotherm Offenburg Congress & Exhibition"</i></p> <p>(June, 2021)</p>	<p>Type: Online Congress and exhibition</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: The presentations on the occasion of the Geotherm Offenburg Congress & Exhibition, which took place for the 14th time on June 24-25, 2021, were held by all the partners.</p>
<p><i>Networking event: "EUROPEAN DRILLABILITY MAPPING FOR SHALLOW GEOTHERMAL APPLICATIONS"</i></p> <p>(January, 2020)</p>	<p>Type: Congress</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: "DOUBLE U-TUBE BOREHOLE HEAT EXCHANGERS"</i></p> <p>(June, 2019)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings, Standardization bodies</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>

In conclusion, GEOGREEN successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **7 Networking events**, from which:
 - 5 Conferences
 - 2 Congresses

Table 17 - Networking activities implementation CRES

Partner: CRES; Responsible person: Dimitrios Mendrinou	
Networking activity name	Relevant information
Networking event: <i>Course for specialists</i> (November 1 st , 2023, Athens - Greece)	Type: Course for specialists
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting, Demonstration
	Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis
Networking event: <i>Workshop</i> (November 1 st , 2023, Athens - Greece)	Type: Workshop for non specialists
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting
	Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis
Networking event: <i>“Capacity building training workshop”</i> (May, 2023)	Type: Meeting
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
Networking event: <i>“Press release regarding Alexandroupolis virtual demo case”</i>	Type: Press release, presentation at a local TV Channel
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
Networking event: <i>“City council members and engineers”</i> (April, 2019)	Type: Meeting
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

In conclusion, CRES successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level **5 Networking events**, from which:
 - 1 Workshop
 - 1 Course
 - 2 Meetings with stakeholders
 - 1 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 18 - Networking activities implementation UNESCO

Partner: UNESCO; Responsible person: Francesca Bampa	
Networking activity name	Relevant information
Networking event: "GEO4CIVHIC SUMMER SCHOOL 2023" (September, 2023)	Type: Workgroup
	Target Group: Young architects and engineers
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
Networking event: "Der Geothermie"	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
Networking event: "European Geothermal Congress"	Type: Congress
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

<p><i>Networking event: Most Easy, Efficient and Low Cost Geothermal Systems for Retrofitting Civil and Historical Buildings” to the Journal REHVA”</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: “CLIMA 2019”</i></p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: “Den Haag”</i> (2019)</p>	<p>Type: Conference</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: “National training workshop on Sustainable Energy and cultural Heritage”</i> (December, 2018)</p>	<p>Type: Workshop</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>
<p><i>Networking event: “Standardization of the new technologies developed by GEO4CIVHIC”</i> (May, December - 2018)</p>	<p>Type: Meeting</p>
	<p>Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories</p>
	<p>Action Completed: Presentation of the project and results, Promoting actions, Meetings</p>
	<p>Additional info: Presenting the project and results also establishing connections with potential interested parties.</p>

In conclusion, UNESCO successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. The Partner successfully contributed to the creation of the Consortium database at national and international level
2. **8 Networking events**, from which:
 - 4 Conferences
 - 1 Congress
 - 1 Workshops
 - 2 Meetings with stakeholders

Table 19 - Networking activities implementation SOLINTEL

Partner: SOLINTEL; Responsible person: Michele Vavallo	
Networking activity name	Relevant information
<i>Networking event: Course for specialists</i> (October 24 th , 2023, Valencia, Bilbao – Spain)	Type: Course for specialists
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting, Demonstration
	Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis, DSS extended example, business models, Cost Benefit cases
<i>Networking event: Workshop</i> (October 23 rd , 2023, Valencia, Bilbao – Spain)	Type: Workshop
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Meeting
	Additional info: Volumes 1, 2, 3, 4, 5, 6, 7 in synthesis, DSS extended example, business models, Cost Benefit cases
<i>Networking event: "CEVISAMA Fair"</i> (2019)	Type: Meeting
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Discussion about the Near 0 energy building methodology integration into the future architectural plans in the urban surroundings and presentation of GEO4CIVHIC related objectives.
	Type: Congress

Networking event: "Energy revolution - 2019 the year of the energy revolution in Spain" (2019)	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Energy efficiency in buildings (new and retrofitting) and presentation of GEO4CIVHIC related objectives.

In conclusion, SOLINTEL successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **4 Networking events**, from which:
 - 1 Congress
 - 1 Course
 - 1 Workshop
 - 1 Meeting with stakeholders

Table 20 - Networking activities implementation DLH

Partner: DLH; Responsible person: Luciano Mule Stagno	
Networking activity name	Relevant information
Networking event: "Innovative drilling methods, heat pumps and tools to address shallow geothermal in the built environment"	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
Networking event: "Archetype definition for analysing retrofit solutions in urban areas in Europe"	Type: Presentation
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

In conclusion, DLH successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **2 Networking events**, from which:
 - 1 Conference
 - 1 Meeting with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities

Table 21 - Networking activities implementation THYSSEN

Partner: THYSSEN; Responsible person: Arno Romanovski	
Networking activity name	Relevant information
<i>Networking event: "International Workshop on Mapping Shallow Geothermal Energy for Spatial Energy and Environmental Management Plans – challenges and approaches for the next decade 2021 – 2030"</i>	Type: Workshop
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.
<i>Networking event: "Innovative drilling methods, heat pumps and tools to address shallow geothermal in the built environment"</i>	Type: Conference
	Target Group: Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories
	Action Completed: Presentation of the project and results, Promoting actions, Meetings
	Additional info: Presenting the project and results also establishing connections with potential interested parties.

In conclusion, THYSSEN successfully implemented its specific TED Plan in the field of **networking activities**, reaching all the specific objectives.

1. **The Partner successfully contributed to the creation of the Consortium database at national and international level**
2. **2 Networking events**, from which:
 - 1 Conference
 - 1 Workshop

5.2 Impact and Outcomes

As seen above, the networking actions of the GEO4CIVHIC project are related to the dissemination plan devised by the TED strategy. All the partners participated in networking actions having a transparent and impactful communication and information distribution to the project's visibility and practical application of its achievements.

A synopsis of the networking actions by all partners associates is showcased in the previous tables, which served as a image for the already implemented activities and results of the project. It's significant to emphasize that all partners were hands-on during this project.

As presented above in specific details actions, the main conclusion is that all 19 partners of the GEO4CIVHIC project partook in the networking efforts, integrating targeted initiatives in their strategies aimed at the pinpointed stakeholders: architects, engineers, builders, real estate companies and restorers.

The **method of evaluation and development of the action plan/communication with stakeholders** was as follows:

1. Only stakeholders with a **High Impact Level** were included in the plan (the impact level was evaluated according to stakeholder contribution - how close it is to the market. In practice, only those stakeholders super close to the market were selected)
2. The Consortium have established and used the **Main Networking Channels**:
 - a. *Stakeholders invitations to networking events;*
 - b. *Emails sent to the stakeholders with relevant information about the project - Newsletters, social media campaigns targeted on the identified stakeholders, involvement in webinars presentation;*
 - c. *Sessions of questions were addressed to the stakeholders and quick answers were sent to them.*

In wrapping up, the GEO4CIVHIC project, has placed a strong emphasis on strategic networking activities addressed especially to Architects, Engineers, Builders, Real estate companies, Investors and Restorers, Public and Private Entities, as a foundation for its success in the following outcomes that gather all the partners' efforts:

1. **Networking events:**

- **72 networking activities in Conferences**
- **25 networking activities in Congresses**

- **12 networking activities in Webinars and Seminars**
- **9 networking activities in Fairs**
- **2 networking activities in Exhibitions**
- **7 networking activities in Training Courses**
- **8 meetings with stakeholders**
- **19 networking activities in Workshops**
- **4 meetings with stakeholders from the identified categories with the occasions of presenting relevant and publishing papers, that meet the 3 criteria from the definition of networking activities**

2. *Social media actions focused on the targeted audience*

- **Several networking actions in the online area (posts)**
- **3 Targeted campaigns**
- **Materials distributed for networking**

As a result, each partner created an exhaustive **Database of relevant stakeholders of the project for the networking activities, that will be useful for the future exploitation plan.**

6 Conclusion

The success and momentum of the GEO4CIVHIC project can be attributed significantly to its intensive focus on strategic **158 networking initiatives**. The project's dedication is evident in its vast array of networking activities, ranging from the more traditional methods like **conferences, congresses, and seminars**, to the more contemporary approaches including **webinars and online engagements**.

These figures - **72 activities in conferences, 25 in congresses, and the continued list of 158 networking events** - offer a quantitative testament to the consortium's commitment. Targeting a broad **spectrum of stakeholders**, including but not limited to **Architects, Engineers, Builders, Real estate companies, Investors, Restorers and associations of these categories**, the project has made deliberate efforts to ensure each networking activity is tailored to resonate with its audience.

Along with these **networking activities**, the partners also implemented several networking actions in the **online area (posts), targeted campaigns and materials distributed for networking**, along with the **creation of a database of stakeholders**.

This specificity in targeting not only broadens the reach of the project but enhances its depth, ensuring the project's objectives are clearly understood and embraced by those involved. It's noteworthy that **all 19 partners** played instrumental roles in molding this extensive networking roadmap. Their involvement, spanning across various **Work Packages (WPs) and tasks**, shows a truly collaborative endeavor. The diverse range of partners brought with them a multitude of perspectives, making the networking strategy as robust and comprehensive as it turned out to be.

Furthermore, the emphasis on continuously conveying the most relevant and up-to-date information to **stakeholders** underscores the project's commitment to transparency and effective communication. By creating a seamless **flow of information and resources**, the GEO4CIVHIC project has done more than just share knowledge. It has fostered an environment of mutual learning, catalyzed collaborations, and integrated a vast pool of expertise.

In addition, the project's strategic utilization of a **stakeholder database** and the **distribution of networking materials shows** a proactive approach to engagement. These tools not only ensure a more organized and streamlined networking process but also create opportunities for future collaborations and engagements. In essence, the GEO4CIVHIC project exemplifies how strategic, targeted, and **collaborative networking** can drive a project's success. The vast array of **networking activities**, combined with the **dedicated efforts of all partners**, has positioned the project as a beacon for knowledge sharing, collaboration, and innovation in its domain.

7 Annex 1

7.1 Stakeholders Associations at International Level

Table 22 - EUROPEAN LEVEL STAKEHOLDERS

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/Euro-pean)
ASSOCIATIONS OF ARCHITECTS WITH INTEREST IN THE SECTOR		
Architects' Council of Europe	Belgium – Brussels	European
European Association for Archi-tectural Education (EAAE)	Belgium – Brussels	European
European Network for Architec-tural competent Authorities (ENACA)	Slovakia – Brati-slava	European
International Union of Archi-tects	France – Paris	European
ASSOCIATIONS OF CONSTRUCTORS, ENGINEERS WITH INTEREST IN THE SECTOR		
The New European Bauhaus Collective (NEBC) - several pan-European organisations repre-senting architects, engineers, designers, educators	Belgium – Brussels	European
FIEC - European Construction In-dustry Federation	Belgium – Brussels	European
European Builders Confedera-tion (EBC)	Belgium – Brussels	European
REAL ESTATE ASSOCIATIONS OR INVESTORS IN THE SECTOR		
European Associations of Real Estate Professions CEPI	Belgium – Brussels	European

7.2 Stakeholders Associations at National Level

Table 23 - ASSOCIATIONS OF ARCHITECTS

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/Euro-pean)
ASSOCIATIONS OF ARCHITECTS WITH INTEREST IN THE SECTOR		
Romanian Order of Architects (OAR)	ROMANIA	National
Consiglio Nazionale degli Archi-tetti, Pianificatori, Paesaggisti e Conservatori (CNAPPC)	ITALY	National
CONSEJO SUPERIOR DE LOS COLE-GIOS DE ARQUITECTOS DE ES-PAÑA (CSCAE)	SPAIN	National
Royal Institute of the Architects of Ireland (RIAI)	IRELAND	National
Conseil National de l'Ordre des Architectes (CNOA)	BELGIUM	National
Bundesarchitektenkammer (BAK)	GERMANY	National

Technical Chamber of Greece (TEE-TCG)	GREECE	National
Kamra tal-Periti (KTP)	MALTA	National
Conférence Suisse des Architectes (CSA)	SWITZERLAND	National

Table 24 - ASSOCIATIONS OF CONSTRUCTORS

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/Euro-pean)
ASSOCIATIONS OF CONSTRUCTORS WITH INTEREST IN THE SECTOR		
FPSC (CONSTRUCTORS FEDERATION)	ROMANIA	National
ASSOCIAZIONE NAZIONALE CO-STRUTTORI EDILI (ANCE)	ITALY	National
CONFEDERACIÓN NACIONAL DE LA CONSTRUCCIÓN (CNC)	SPAIN	National
CONSTRUCTION INDUSTRY FED-ERATION (CIF)	IRELAND	National
EMBUILD - THE BELGIAN CON-STRUCTION ASSOCIATION	BELGIUM	National
HAUPTVERBAND DER DEUTSCHEN BAUINDUSTRIE (HDB)	GERMANY	National
PANHELLENIC ASSOCIATION OF ENGINEERS CONTRACTORS OF PUBLIC WORKS (PEDMEDE)	GREECE	National
MALTA CHAMBER OF CONSTRUC-TION MANAGEMENT	MALTA	National
SCHWEIZERISCHER BAUMEISTER-VERBAND (SBV-SSE-SSIC)	SWITZERLAND	National

Table 25 - ASSOCIATIONS OF ENGINEERS

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/Euro-pean)
ASSOCIATIONS OF ENGINEERS WITH INTEREST IN THE SECTOR		
The General Association of Engi-neers in Romania	ROMANIA	National
Consiglio Nazionale degli Ingegneri	ITALY	National
Comite Nacional Espanol de la ENGINEERS EUROPE	SPAIN	National
Engineers Ireland	IRELAND	National
Fédération Royale des Associa-tions Belges d'Ingénieurs civils, d'ingénieurs agronomes et bioingénieurs (FABI)	BELGIUM	National
Deutsches Nationalkomitee der ENGINEERS EUROPE	GERMANY	National

Association of Civil Engineers of Greece	GREECE	National
Chamber of Engineers and Kamrat – Periti	MALTA	National
Swiss society of Engineers and Architects - SIA	SWITZERLAND	National

Table 26 - REAL ESTATE ASSOCIATIONS OR INVESTORS

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/European)
REAL ESTATE ASSOCIATIONS OF INVESTORS WITH INTEREST IN THE SECTOR		
Romanian Association of Building Owners	ROMANIA	National
Merope Asset Management Srl	ITALY	National
Meridia Capital	SPAIN	National
Property Industry Ireland	IRELAND	National
Nextensa	BELGIUM	National
ADLER Real Estate AG	GERMANY	National
PRODEA Investments	GREECE	National
Malta Real Estate Investment Trust (REIT)	MALTA	National
Swiss Aim	SWITZERLAND	National

Table 27 - POLICY MAKERS AND PUBLIC AUTHORITIES

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/European)
POLICY MAKERS AND PUBLIC AUTHORITIES		
AMR (ASSOCIATION OF MUNICIPALITIES IN ROMANIA)	ROMANIA	National
National Association of Italian Municipalities – Anci	ITALY	National
Federación Española de Municipios y Provincias (FEMP)	SPAIN	National
The County and City Management Association (CCMA)	IRELAND	National
The Association of Flemish Cities and Municipalities (VVSG)	BELGIUM	National
The German Association of Towns and Municipalities (Deutscher Städte- und Gemeindebund, DStGB)	GERMANY	National
Central Union of Municipalities of Greece (KEDE)	GREECE	National
Local Councils' Association	MALTA	National
Swiss Association of Cities	SWITZERLAND	National

Table 28 - PRIVATE AND PUBLIC STAKEHOLDERS WITH INTEREST IN SECTOR

STAKEHOLDER (name)	COUNTRY	LEVEL (local/national/Euro-pean)
PRIVATE AND PUBLIC STAKEHOLDERS WITH INTEREST IN THE SECTOR		
Magurele Science Park	ROMANIA	National
Unione Geotermica Italiana (UGI)	ITALY	National
La Asociación de Empresas de Energías Renovables (APPA)	SPAIN	National
The Geothermal Association of Ireland (GAI)	IRELAND	National
IDEA	BELGIUM	National
GeoEnergy Celle e.V.	GERMANY	National
EARG DEVELOPERS GREECE	GREECE	National
MIDI plc	MALTA	National
Geothermie.ch / SVG	SWITZERLAND	National

Table 29 - PLATFORMS FOR NETWORKING

STAKEHOLDER (name)	REGION	LEVEL (local/national/Euro-pean)
PLATFORMS FOR NETWORKING		
Share Architects	EASTERN EUROPEAN	National and European
RHC – Renewable, Heating and Cooling	WESTERN EUROPEAN	European
DigiPlace – digital platform for constructors	France	National and European

Table 30 - HISTORICAL MONUMENTS ASSOCIATIONS

STAKEHOLDER (name)	REGION	LEVEL (local/national/Euro-pean)
HISTORICAL MONUMENTS ASSOCIATIONS		
National Union of Restorers of Historical Monuments	Romania	National