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ICARIA
Improving climate resilience of critical assets

www.icaria-project.eu

D5.2 Dissemination and Communication Plan - Final version

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D5.2 Communication and Dissemination Plan

Summary

The Communication Plan of the ICARIA project is the main document outlining the communication and dissemination activities that have taken place throughout the project. This material has been used regularly by the partners to keep track of the activities, responsibilities and cooperation needs between their dissemination tasks. The Communication Plan has been updated periodically.

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D5.2	WP5	
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Document history

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Executive summary

The Communication Plan for the ICARIA project is the main document outlining the communication and dissemination activities that will take place throughout the project. This material should be used regularly by the partners to keep track of the activities, responsibilities and cooperation needs between their dissemination tasks. The Communication Plan will be updated periodically.

The Communication Plan includes dissemination activities which connect research outputs and the relevant target audiences by means of appropriate communication tools. By doing so, the dissemination strategy serves as the main guiding document with the following aspects:

- WHO is the target (audience)
- WHAT the project is disseminating (key message)
- HOW to reach these audiences (strategy)
- WHICH materials will be used to approach the audience (actions and communication tools)
- WHEN will the different actions and activities take place (timing)

Finally, an evaluation process outlines simple monitoring and evaluation methods and specifies how risks and difficulties can be addressed. This process is crucial for a successful dissemination strategy, which needs to be regularly reviewed and updated, according to new developments in the project, sector and market.

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1 Introduction to the ICARIA project

1.1 ICARIA in short

The number of climate-related disasters has been progressively increasing in the last two decades and this trend could be drastically exacerbated in the medium- and long-term horizons according to climate change projections. It is estimated that, between 2000 and 2019, 7,348 natural hazard-related disasters have occurred worldwide, causing 2.97 trillion US$ losses and affecting 4 billion people (UNDRR, 2020). These numbers represent a sharp increase of the number of recorded disaster events by comparison with the previous twenty years. Much of this increase is due to a significant rise in the number of climate-related disasters (heatwaves, droughts, flooding, etc.), including compound events, whose frequency is dramatically increasing because of the effects of climate change and the related global warming (UNDRR, 2020 and IPCC, 2021). For the future, by mid-century, the world stands to lose around 10% of total economic value from climate change if temperature increase stays on the current trajectory, and both the Paris Agreement and 2050 net-zero emissions targets are not met (Guo et al., 2021).

In this framework, **Project ICARIA** has the overall objective to promote the definition and the use of a comprehensive asset-level modeling framework to achieve a better understanding about climate related impacts produced by complex, compound and cascading disasters and the possible risk reduction provided by suitable, sustainable and cost-effective adaptation solutions.

Special regard is devoted to critical assets and infrastructures particularly susceptible to climate change, in a sense that its local effects can result in significant increases in cost of potential losses for unplanned outages and failures, as well as maintenance – unless an effort is undertaken in making these assets more resilient. Therefore, ICARIA aims to understand how future climate might affect life-cycle costs of these infrastructures and assets in the coming decades and to ensure that, where possible, investments in terms of adaptation measures are made up front to face these changes. This requires forward planning that considers a comprehensive multi-risk assessment and the uncertainties associated with climate change, rather than reliance on models solely based on past events and single climate hazards.

1.2 Project objectives

The ICARIA project, launched in January 2023, seeks to **increase knowledge of the impacts of natural disasters on critical assets in different sectors such as water, energy, transport, waste and housing**. The initiative also seeks to shed light on how these events could affect the lifecycle costs of these infrastructures in the coming decades and to ensure investment in sustainable adaptation measures to address these risks.

ICARIA proposes a comprehensive framework for the analysis of climate resilience and the assessment of economic and social impacts. This includes the development and validation of state-of-the-art models capable of simulating the risks to regions associated with extreme climate events, with special

focus on compound events and cascading impacts on strategic services and infrastructures, as well as on the environment.

The **strategic sub-objectives (SSO)** of the ICARIA project are:

- **SSO1:** Achievement of a comprehensive methodology to assess climate related risk produced by complex, cascading and compound disasters.
- **SSO2**: Obtaining tailored scenarios for the case studies regions.
- **SSO3**: Quantify uncertainty and manage data gaps through model input requirements and innovative methods.
- **SSO4**: Increase the knowledge on climate related disasters (including interactions between compound events and cascading effects) by developing and implementing advanced modeling for multi-hazard assessment.
- **SSO5:** Better assessment of holistic resilience and climate-related impacts for current and future scenarios.
- **SSO6:** Better decision taking for cost-efficient adaptation solutions by developing a DSS to compare adaptation solutions.
- **SSO7:** Ensure the use and impact of the ICARIA outputs.

1.3 Methodology

The project involves an **innovative modeling approach**, where models have been developed to perform risk assessment analyses at asset level of complex extreme weather events including compound events. The models developed take account of a wide range of climate hazards, from pluvial and coastal flooding to heatwaves, forest fires and droughts. In terms of climate scenarios, high-resolution local climate forecasts based on statistical and dynamic downscaling techniques have been used to simulate the impacts of local events, i.e., coincident and consecutive events. This enables the triggering mechanisms of cascading events to be identified in terms of risk and probability of occurrence.

In order to facilitate the applicability of the research work, a **common methodology for assessing climate risk in the different case studies** was established and a shared approach for the definition of climate scenarios adapted to each region was proposed. Methods to deal with uncertainties due to lack of data and intrinsic errors in climate models were also proposed. Subsequently, asset level modeling tools were developed to simulate the impact on critical assets associated with extreme weather events. This involves the quantification of the direct and indirect impacts of such situations. The probability of single and compound extreme events were estimated and tailored multi-hazard simulations were performed to achieve a better understanding of the potential losses associated with these phenomena. The cascading associated between initiated by an impact on a specific asset was also assessed.

The results of these simulations were incorporated into **a tool that enables detailed and holistic assessment of the potential impacts of different socio-economic and climate scenarios**, taking multiple hazard management into account. On the other hand, a Decision Support System has also been developed in order to enable the comparison between adaptation scenarios in order to choose the most effective, sustainable and cost-effective measures, through cost-benefit and multi-criteria

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analysis. It is, therefore, a valuable decision-making tool for planning action to improve the climate resilience at regional level, and providing a probabilistic and uncertainty analysis associated with each scenario.

1.4 Case studies

ICARIA has focused on **three case studies** in three different regions across Europe. Two of them, the **Barcelona Metropolitan Area** in Spain and the **South Aegean Archipelago** in Greece, are located in coastal areas of the Mediterranean, one of the most vulnerable regions in terms of exposure to extreme events, particularly bearing in mind the high asset and population density. It is home to over half of the continent's population. The **Salzburg Region**, the third case study, is located in Austria and represents an area severely affected by the climate crisis, with melting glaciers and heatwaves directly impacting assets associated with energy production and other strategic sectors.

To validate the replicability of the tools and methods developed, the case studies have also included two cycles of comprehensive risk and resilience assessments. In a first assessment cycle, in the so-called Trials, risk assessment for specific climate hazards has been conducted to achieve the highest possible quality of predictions, so that the results can be used "as is" for operative decision making. In a second phase, so-called Mini trials, other hazards have been assessed following the methods and tools implemented in other regions during the Trials phase. In the two assessment cycles, the participation of local actors has been encouraged through the creation of Communities of Practitioners (CoP). In these groups, which included scientific experts, public and private entities responsible for strategic assets and services, citizen associations and other relevant stakeholders, a large set of activities were carried out to identify needs, improve understanding of risk awareness and ensure the co-creation of adaptation solutions.

The project has also **fostered the replicability of the proposed solutions**, first within the different case studies and then in seven other selected "follower" regions: Great London in the United Kingdom; the Vega Baja region in the Autonomous Community of Valencia in Spain; the central region of Macedonia, the island of Crete in Greece; the Campania region and the Metropolitan Area of Naples in Italy, and the region of Upper Austria.

1.5 Results

1.5.1 Scientific results

The **scientific results of the ICARIA project** are listed below:

- **RES-SCI1**. **Project framework**: ICARIA provides a climate-change multi-hazard framework to ensure a holistic assessment at regional level that considers also potential cascading effects and compound events. This framework covers any hazard impacting any service or critical infrastructure, although under the ICARIA project it has been developed and implemented for some selected single or compound hazards impacting on a wide range of assets and services.

- **RES-SCI2. Climate scenarios methods and results:** Downscaling methods have been proposed for near and long-term climate projections considering different emission scenarios at large scale and socio-economic ones at local scale. The methods have been applied to the three case studies and tailored local climate projections have been achieved up to 2100 for long-term and from 15 days to 6 months for short-term.
- **RES-SCI3. Methods for mending the data gaps and uncertainty analysis:** Methods to mend the data gaps and define the uncertainty cascade related to the inputs, methods used and missing and quality of data were defined and tested in trials and mini-trials by cross validations measuring the effects of considering different scenarios related to regional data availability (from best case where all data is provided and worst-case scenario where minimum data is used).
- **RES-SCI4. Climate-related multi-risk tangible impact assessment method:** Based on ICARIA and other relevant recent projects, ICARIA provides an improved comprehensive method to consider direct and indirect tangible losses for assets and critical infrastructure affected by different climate-related extreme events. The losses include the reconstruction costs, the costs of not providing the service and the knock-on effects on other systems.
- **RES-SCI5. Multi-risk and resilience assessment for the 3 EU case studies:** The previous ICARIA results (mainly methods and tools) presented in this table have been tested, implemented and replicated in the three case study regions for different hazards and assets to show the versatility and adaptability of the results. For the three regions a set of adaptation solutions have been chosen as the most cost-effective ones in relation to the hazards and assets evaluated.
- **RES-SCI6. Replication, sustainability and exploitation of ICARIA results Delivery time:** Results previously implemented in one of the case studies for some hazards and assets have been replicated in other regions with other hazard-assets combinations choosing again the most cost-effective adaptation measures but, this time, with less data and resources. Replication guidelines have been elaborated and a sustainability and exploitation plan has also been delivered to detail how these results are envisaged to be improved, used by the case studies and extended to other European regions in the next coming years to accomplish with the general Mission goal to help at least 150 European regions and communities towards climate resilience by 2030.

1.5.2 Technological results

The **technological results of the ICARIA project** are listed below:

- **RES-TEC1. Multi-Hazard modeling tools:** A modeling chain tool has been developed for temporal and spatial coupling of several climate-related hazards reflecting the probability for one hazard triggering others under certain conditions. This enables us to assess impacts of combined or compound events.
- **RES-TEC2. Holistic climate resilience assessment:** ICARIA has developed and tested a method that combines the approaches and metrics used in RESCCUE and EU-CIRCLE projects to assess resilience of complex systems focusing on main services and critical infrastructures. The method has the versatility to be adopted in a wide range of scopes (from

district/city to regional/national level) and considers different climate-related stressors as single or compound events.

- **RES-TEC3. Portfolio of adaptation solutions:** Existing portfolios from previous projects have been expanded to include natural areas and integrate relevant solutions for the hazards studied within ICARIA, with a special focus on Nature-Based Solutions (NBS). The portfolio includes the description of the solutions, their effects and co-benefits on relevant assets, construction and maintenance costs and guidance on how to be modeled.
- **RES-TEC4. ICARIA DSS:** ICARIA has developed a web-based Decision-Support System (DSS) based on resilience indicators, Cost-Benefit Analysis (CBA) and Multi-Criteria Analysis (MCA) to compare several adaptation measures and strategies to cope with extreme climate and compound events and their cascading effects on strategic assets and services, and thus facilitating the planning process by helping decision makers to choose the most cost-effective solutions.

1.6 Project consortium

The project consortium is made up of the following participants:

Table 1. List of project partners

Partner	Description	Website	Social media accounts
Universitat Politècnica de Catalunya (UPC)	Universitat Politècnica de Catalunya (UPC) is the largest technology university in Spain, and one of the leading polytechnical institutions in Europe. It is a public institution dedicated to higher education and research, specialised in the fields of engineering, architecture and science.	UPC >	LinkedIn >
AQUATEC	Veolia aims to become the benchmark company for ecological transformation. Present on five continents with 215,000 employees, Veolia designs and deploys useful, practical solutions for the management of water, waste and energy that are contributing to a radical turnaround of the current situation. Through its three complementary activities, the company helps to develop access to resources, to preserve their availability and to renew them. (Veolia participates in this project	Veolia >	LinkedIn > X >

	through its company Aquatec Soluciones Medioambientales, S.A.U.)		
Cetaqua-Water Technology Centre	Cetaqua is a model of public-private collaboration that was created to ensure the sustainability and efficiency of the water cycle while taking regional needs into account.	Cetaqua >	LinkedIn > X >
Aigües de Barcelona	Aigües de Barcelona is a Spanish water utility that manages the complete water cycle, from catchment to drinking water treatment, transport, and distribution, to sewerage, wastewater treatment, and reclamation, either for return to the natural environment or reuse. Around 3 million people are served drinking water by the company in the Barcelona metropolitan area, distributed in 23 municipalities. Further, regarding sewerage management, a population of 3.4 million people is covered, distributed in 40 municipalities, with a network of a total length of 300 Km and 7 wastewater treatment plants.	Aigües de Barcelona >	LinkedIn > X >
Austrian Institute of Technology GMBH	The Austrian Institute of Technology GmbH (AIT) is Austria's largest non-university research institution. It specializes in applied research and development, focusing on technology-based solutions and innovation. Established in 2009, AIT operates as a limited liability company and is owned by the Republic of Austria. The institute covers various fields such as energy, mobility, health, digital safety, and innovation systems. AIT collaborates with national and international partners to conduct research, develop technologies, and support innovation processes for sustainable development.	AIT >	LinkedIn >
Àrea Metropolitana de Barcelona (AMB)	The Area Metropolitana de Barcelona (AMB), also known as the Metropolitan Area of Barcelona, is a regional government entity in Catalonia, Spain. It comprises 36 municipalities, including the city of Barcelona, and covers an	AMB >	LinkedIn > X >

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	area of approximately 636 square kilometers. The AMB is responsible for coordinating and managing various aspects of regional development, including urban planning, transportation, waste management, and environmental policies. It aims to promote sustainable growth, improve quality of life, and enhance cooperation among the municipalities within its jurisdiction. The AMB plays a crucial role in shaping the economic, social, and environmental development of the Barcelona metropolitan region.		
Ethniko Kentro Erevnas Kai Technologikis Anaptyxis	CERTH (CEntre for Research & Technology Hellas) was founded in 2000 and has since been established as the leading research facility in Greece, achieving substantial scientific and technological achievements in a broad range of fields, including but not limited to Energy, Environment, Industry, Information & Communication, Agro-biotechnology, Safety, and Security, as well as several cross-disciplinary scientific areas. In ICARIA, CERTH participates through ITI (Information Technologies Institute), one of the leading Institutions of Greece in the fields of Informatics, Telematics, and Telecommunications, and specifically through the M4D (MultiMoDal Data Fusion and Analytics) group. ITI's research has delivered novel and innovative tools and methodologies in a variety of areas through a number of publications including scientific publications in peer-reviewed journals, conferences, and books. Additionally, M4D develops cutting-edge algorithms and solutions in the areas of Multimodal Data Fusion and analytics, Web Data Mining, Big data, and Artificial Intelligence, applied in a range of domains including Arts and Media, Security, Health, Earth Observation, and Smart Manufacturing.	ITI > MKLAB > M4D >	**LinkedIn:** ITI > MKLAB > M4D > X >

National Center for Scientific Research "DEMOKRITOS"	The Environmental Research Laboratory (EREL) of NCSRD is an established RTO combining complementary expertise in atmospheric research and environmental decision support systems with important research potential (awarded the largest FP7-REGPOT ENTEC for climate research and coordinated the H2020 project EU-CIRCLE). EREL follows an integrated R&D approach to environment and climate, contributing for environmental protection, climate change adaptation and sustainable development in regional and global terms. EREL carries expertise in climate change and regional models, including dynamical and statistical downscaling, prognostic - diagnostic meteorology and data assimilation, decision support systems integrated with advanced multi-hazard risk analysis and impact assessments, and climate resilience of infrastructures, cities and communities.	DEMOKRITOS >	LinkedIn > X >
Draxis Environmental	Founded in 2000 in Thessaloniki, DRAXIS focuses on developing real life environmental ICT solutions and providing specialised environmental consultation services. Looking always ahead, we keep up with and interpret what is happening in day-to-day business, so as to offer custom-made tools, reflecting our commitment to be of service to the environment we live in.	DRAXIS >	LinkedIn > X >
Fundación para la Investigación del Clima (FiC)	FIC is a non-profit, private and fully independent foundation whose objectives are focused on research and innovation in climatology, meteorology and the environment. FIC specializes in the development of tailored climate services to foster the adaptation to and mitigation of climate change, and increase the resilience of multiple sectors.	FiC >	LinkedIn > X >
Fundació Institut de Recerca de l'Energia de Catalunya (IREC)	IREC (Institut de Recerca en Energia de Catalunya) is a research institute in Catalonia, Spain, focused on energy	IREC >	LinkedIn > X >

	research and innovation. It addresses renewable energy, energy efficiency, energy storage, and sustainable technologies. Collaborating with academia and industry, IREC develops practical solutions and contributes to the transition to a sustainable energy system. The institute conducts fundamental and applied research, aiming to advance knowledge and bridge the gap between research and application. IREC's work supports global efforts for a cleaner and more sustainable energy future.		
Laboratório Nacional de Engenharia Civil (LNEC)	LNEC is a public research institution devoted to science and technology, established in 1946 and located in Lisbon. LNEC's activity includes public works, infrastructures, housing and urban planning, hydraulics and water resources, transportation, environment, construction materials and other products, giving it a unique multidisciplinary perspective.	**LNEC >**	**LinkedIn >** **X >**
South Aegean Region	The Region of South Aegean is one of the thirteen regions of Greece. It consists of the Cyclades and the Dodecanese island groups in the central and south-eastern Aegean Sea, with a total of 52 inhabited islands. The region was established in the 1987 administrative reform and since 2011 is divided into 13 regional units, formed around major islands: Andros, Kea-Kythnos, Syros, Thira (Santorini), Milos, Mykonos, Naxos, Tinos, Paros, Rhodes, Kos, Kalymnos and Karpathos. The Region capital is situated in Ermoupoli on the island of Syros. SAR is responsible for these five key areas at regional level: Administration, Environment, Infrastructure and Planning, Transportation and Communications, Agricultural Economy and Veterinary, Public Health and Social Welfare.	**PNAI >** **Aegean Islands >**	No LinkedIn No X **Instagram >** **Facebook >**
University of Exeter	The University of Exeter is a prestigious	**UNEXE >**	**LinkedIn >**

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	public research university located in Exeter, Devon, England. It was founded in 1955 and has since gained a strong reputation for academic excellence and research quality. The university offers a wide range of undergraduate and postgraduate programs across various disciplines. With campuses in Exeter and Cornwall, the university provides a vibrant learning environment and state-of-the-art facilities. Exeter University is known for its strong emphasis on research-led teaching and its commitment to global challenges and sustainability.		X >
Università degli studi di Napoli Federico II (PLINIVS)	The University of Naples Federico II is one of Italy's oldest and largest universities, founded in 1224. Located in Naples, it offers a wide range of undergraduate and postgraduate programs in various fields. The university is renowned for its excellence in research and education, attracting both national and international students. With numerous departments, research centers, and institutes, it fosters collaboration and contributes to scientific advancements and cultural development. The University of Naples Federico II aims to provide high-quality education, promote research, and contribute to societal progress.	UNINA > PLINIVS >	LinkedIn > **X:** UNINA > PLINIVS >
VERBUND Energy4Business GmbH	VERBUND is Austria's leading electricity company and one of the largest producers of hydropower electricity in Europe. 95% of VERBUND's electricity is generated through hydropower, supplemented by wind and solar power. VERBUND operates more than one hundred hydropower plants in Austria and Bavaria and these hydropower plants have a combined capacity of about 8200 megawatts. The electricity is generated in highly efficient storage	VERBUND >	LinkedIn > X > Instagram > Facebook >

	power plants high up in the Alps (in Salzburg, Tyrol, Carinthia and Styria) as well as on the large rivers (the Danube, Drau, Enns, Inn, Mur and Salzach). Via the subsidiary Austrian Power Grid (APG) VERBUND also operates the Austrian extra-high voltage grid with power lines totaling around 3,500 km in length.		

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2 Communication and Dissemination objectives

2.1 Communication vs dissemination

Given the nature of European projects, it is imperative to ensure that dissemination and communication go hand-in-hand. Nevertheless, the difference between these two terms sometimes is not entirely clear. Based on the definitions provided by the European Commission, in the ICARIA framework, **communication** is understood as a tool for introducing the general public to the most crucial concepts the ICARIA project is built upon, such as urban resilience and climate change. In other words, the driving purpose of all communication activities described in this deliverable is to raise awareness and to highlight the need for initiatives such as ICARIA. **Dissemination**, instead, is focused on the disclosure of knowledge, such as achievements and results of the project, trying to ensure its greatest possible resonance among their potential end-users and the scientific community.

2.2 Global vs. local

In general terms, the core essence of project ICARIA is to contribute to build more resilient regions against climate change . The global concept of a smart, citizens-friendly and resilient city will cover all the communication and dissemination activities. Besides that, specific communication and dissemination activities have focused on a regional level in three research sites – Barcelona Metropolitan Area (Spain), South Aegean Archipelago (Greece) and Salzburg (Austria) – in order to make the project more tangible by presenting its real benefits for each case study. The aim of these activities is to help engage local communities, relevant stakeholders and key decision makers.

The communication and dissemination objectives of the ICARIA project are:

1. **Allow** both the general and specialised public to **access information** about the project progress and its outcomes.
2. Develop a dissemination and communication plan to **define the strategy and specific actions** related to the outreach of the results of the ICARIA project.
3. **Promote and encourage communication** among stakeholders and **share knowledge** with similar projects.
4. **Raise awareness** among different audiences, including public administration, stakeholders and general society, on the need of long-term planning to improve resilience and reduce the impacts of climate change .
5. **Promote and encourage the widest possible application of project methods and tools** beyond the lifetime of the project.

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3 Target groups

This plan identifies the following **target audiences** for the ICARIA project:

Table 2. Target audiences

Target audience	Objective(s)
Public administration	Engaging public administration as a target audience ensures that research findings are effectively translated into practical solutions, policy improvements, and capacity-building initiatives within the public sector.
Potential end-users	Targeting potential end-users in European research projects ensures that the research is relevant, impactful, and user-centered. It facilitates validation, testing, knowledge transfer, and long-term sustainability of the research outcomes, ultimately benefiting the intended beneficiaries and addressing real-world challenges.
Associations and platforms	Associations and platforms are targeted as audiences to facilitate knowledge exchange, collaboration, policy influence, networking and implementation within specific industries or sectors. By engaging these stakeholders, ICARIA can increase its reach, relevance, and impact.
Scientific community	It is highly important not to overlap research efforts within the European research community and to identify synergies that can lead to fruitful collaborations in the future. Networking activities and wide dissemination of the project in conferences and congresses, as well as possible publications in scientific journals, are planned.
General public	Targeting general audiences on a project related to urban resilience helps raise awareness, disseminate knowledge, encourage behavioral change, gain public support, and foster interdisciplinary collaboration.
Dissemination multipliers	Targeting dissemination multipliers enables researchers to amplify their findings, enhance public awareness and engagement, translate knowledge effectively, influence policy decisions, and facilitate stakeholder collaboration. By leveraging the reach and influence of dissemination multipliers, the ICARIA project can achieve broader impact and ensure that their research outcomes are effectively communicated and utilised by a wider audience.

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4 Key messages

The **key messages** of the ICARIA project are the following:

4.1 Main messages

1. In recent years, there has been a **significant increase in climate-related disasters**, causing widespread damage and economic losses.

2. ICARIA is a European project funded by the European Commission's Horizon Europe program, aimed at **improving the climate resilience of strategic assets**.

3. The ICARIA project addresses the **need for improved understanding of the impacts of natural disasters on critical assets** in sectors such as water, energy, transport, waste, and housing.

4. ICARIA proposes a **comprehensive asset-level modeling framework** to understand the impacts of complex, compound, and cascading disasters and to **assess the effectiveness of adaptation measures**.

5. The project includes **three case studies in Europe**: Barcelona Metropolitan Area, South Aegean Region, and Salzburg Region, aiming to understand impacts, assess risks, and co-create adaptation solutions in these vulnerable regions.

6. The ICARIA project **assesses the replicability of proposed solutions** by evaluating their effectiveness across different case studies and in five additional regions: Greater London in the UK; the Vega Baja district within Spain's Autonomous Community of Valencia; central Macedonia, Crete; Italy's Campania region, including the Metropolitan Area of Naples; and Upper Austria.

7. The main outcome of the ICARIA project is a **decision-support system** for assessing potential impacts, selecting adaptation measures, and facilitating decision-making to improve climate resilience at the regional level, as well as the holistic climate resilience assessment

4.2 Secondary messages

- The project involves the development of **state-of-the-art models to simulate risks associated with extreme climate events**, focusing on compound events and cascading impacts on strategic services, infrastructures, and the environment.

- **16 entities collaborate in this initiative**, including research institutes, universities, private companies, and public entities with expertise in climate resilience and critical infrastructure management.

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- **The project builds upon previous initiatives like RESCCUE**, focusing on modeling and assessing climate impacts on critical infrastructure and cascading effects at a regional scale, considering compound events and their associated risks.

Table 3. Key messages

Duration	Phase	Description	Message to be delivered
M1-M12	**Phase 1** Development of social engagement through awareness raising and introduction of the ICARIA concept.	When the project began, communication efforts focused on creating awareness and generating anticipation. This stage involved developing a project website, social media presence, and promotional materials. Researchers engaged with stakeholders and dissemination multipliers to build interest and excitement around the upcoming research.	1, 2 ,3, 4, 5, 6, 7
M12-M24	**Phase 2** Dissemination of the project progress and expected results	Once the research project was underway, communication efforts aimed to engage the target audience(s) and stakeholders. This involved sharing progress updates, preliminary findings, and relevant news through various channels such as ICARIA's website, newsletters, social media, press releases, and events. When the ICARIA project reached significant milestones or generated key findings, communication efforts focused on sharing the results. Researchers disseminated research papers, reports, and presentations that highlighted the outcomes, implications, and applications of the research. This stage involved targeted outreach to media outlets, policymakers, critical infrastructure operators, regional governments, and other stakeholders.	3, 4, 5, 6, 7
M24-M39	**Phase 3** Dissemination of the ICARIA results and potential impact.	Communication efforts in this stage concentrated on translating research findings into accessible and actionable knowledge for various audiences. Researchers created practical guidelines that distilled the research into user-friendly formats. Engagement with policymakers, critical infrastructure operators, regional governments and other potential end-users to facilitate the uptake and application of research	5, 6, 7

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		outcomes, ensuring the project's impact beyond the research community, was fostered.	

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5 Communication and dissemination strategy

Within the ICARIA project, WP5, which stands for Work Package 5, focuses on dissemination, communication, outreach, and stakeholder engagement. The partners had specific roles and responsibilities within this work package.

The **Communication and Dissemination Plan** was elaborated at the beginning of the project (M6), outlining the key elements of the overall strategy, including dissemination and communication channels and tools to be implemented (HOW), target audiences to be reached (WHO), key messages to be conveyed to those targets (WHAT), timing (WHEN) and location (WHERE) of the planned activities.

Cetaqua (CET) has been in charge of the communication and dissemination activities and the organisation of a calendar of activities, **with the support from all partners**. Several actions have been performed to spread the project benefits, raise awareness on climate hazards and foster the replicability of the developed tool and methodologies. All the communication and dissemination activities carried out have been tracked in a **Communication Database** (internal document shared with all consortium members).

WP5 is divided in **4 tasks:**

- **Task 5.1 - Communication tools and materials:** This task involved creating communication tools such as a graphic identity, website, and various materials like brochures and videos. The goal was to develop appealing content for target audiences and provide access to project-related resources.
    - **Duration:** January 2023 - March 2026
    - **Leader:** Cetaqua-Water Technology Centre
    - **Contributor(s):** All partners
    - **Deliverables:** The results of this task are reported in deliverables D5.2 and D5.3.

- **Task 5.2 - Dissemination plan and activities:** In this task, all the planned dissemination activities were gathered, including the publication of articles, participation in events and conferences, publication of scientific papers, conduction of social media campaigns, and the organisation of presentation events and a final conference.
    - **Duration:** January 2023 - March 2026
    - **Leader:** Cetaqua-Water Technology Centre
    - **Contributor(s):** All partners
    - **Deliverables:** The results of this task are reported in deliverables D5.2, D5.3, and D5.4.

- **Task 5.3 - Strengthening ICARIA outreach:** This task aimed to leverage the partners' community contacts to promote the project outcomes. Specific meetings and forums, as well

as networking meetings and activities, were organised to facilitate the spread and further use of the project results.

- **Duration:** January 2023 - March 2026
- **Leader:** Aquatec
- **Contributor(s):** All partners
- **Deliverables:** The results of this task are reported in deliverables D5.1, D5.2, and D5.4.

- **Task 5.4 - Stakeholders engagement:** This task focused on engaging stakeholders through the creation of Communities of Practice (CoPs) in the three case studies. Workshops and related communications were organised to improve risk perception, raise awareness, co-create adaptation solutions, and evaluate stakeholder satisfaction.
  - **Duration:** January 2023 - March 2026
  - **Leader:** Università degli studi di Napoli Federico II (PLINIVS)
  - **Contributor(s):** Cetaqua, Case Study Facilitators, and Risk Owners
  - **Deliverables:** The results of this task are reported in deliverables D5.4 for the stakeholders' engagement plan and D5.5 for the stakeholders' events reports.

A detailed description of the materials and activities planned for each task can be found **in the following sections.**

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5.1 Task 5.1 - Communication tools and materials

Cetaqua has coordinated the development of the following materials. The content has been provided by all partners. These materials have been produced in English and translation to other languages has been done depending on the material and the local impact expected.

Table 4. List of materials and actions of Task 5.1

Material or action	Description	Objective(s)	Target audience(s)	Timing	Specific KPI(s)
Logotype and templates	A graphic identity and a strong and recognizable brand (project logo, color palettes and templates). All this information was gathered in the ICARIA Identity Manual, which serves as the guide to apply the project brand.	To achieve fast identification of the project through visual identity elements (logo and applications). To give the project its unity, coherence and identity.	All the parties involved and the whole identified target audience.	M3	Creation of 1 set of logos and templates.
Roll-up	A printed material including the branding of the ICARIA project, the partner's logos and a QR code to access the project website.	To identify the project at meetings, congresses and other events.	All audiences.	M6	Production of 1 roll-up.
Project website	A specific website hosted under the following domain: www.icaria-project.eu. The ICARIA website has been the keystone of the project's digital communication. It has become a reference portal about climate multi-hazards and related impacts on strategic assets, its impacts on key infrastructure and services and adaptation measures. It includes not only general	To provide updated information for the audience.	All audiences.	M6	250 single visits/month

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	information on the project but also complementary sections offering appealing content for the target audiences. A digital press room was created to gather all the news related to the progress of the project. A blog section, including articles written by all the partners, was also created. The website also includes a downloads section, where the main dissemination materials, deliverables, scientific publications, and other files are available. It has been periodically updated by Cetaqua and all the partners have contributed with news, pictures, and other content. Partners have also used their own corporate websites and other communication channels to promote the website and the ICARIA project.				
Infographics	Digital static graphics showing the project's case studies, methodologies and expected results in a visual and easy-to-understand way.	To help to understand the project in a graphical way.	Public administration, potential end-users, scientific community.	M6	Creation of 1 set of infographics.
Informative leaflet	A digital and printed document that explains the project in an easy-to-understand way. Inside this leaflet, readers find an overview of the project's objectives, expected results and details about the research.	To introduce the project in an informative way.	All audiences.	M6	500 downloads or copies
Posters	A generic poster including the main information on the project.	To introduce the project and its results to technical audiences.	Potential end-users, scientific community.	M6	Production of 1 poster.

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	A poster including the results of the project.				
Short promotional video	A short animation video explaining the project's context, objectives and expected results.	To introduce the project in an informative way for all audiences.	All audiences.	M6	250 views on Youtube.
Newsletters	Annual digital newsletter to describe the project's progress and milestones. It includes links to the project's main news, results and contents of interest on the website.	To disseminate the project progress, milestones and results.	All audiences.	M12 M24 M39	3 newsletters. 3,000 recipients, together with press releases.
One-pager	A digital one-pager outlining the project results and experiences from the case studies.	To disseminate the project results.	Potential end-users, scientific community and interested audiences.	M39	500 downloads or copies.
Final video	A filmed video including interviews with the project partners explaining the main results and potential applications of the project outcomes.	To disseminate the project results.	All audiences.	M39	250 views on Youtube.

5.2 Task 5.2 - Dissemination plan and activities

The research progress and outcomes of ICARIA has been presented throughout the project duration, including major international conferences and exhibitions, workshops and webinars organised by ICARIA members or external institutions. A significant coordinated effort has been made among the partners to impact technical and generalist media. Additionally, work has been carried out on various scientific publications in high-impact journals.

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Table 5. List of materials and actions of Task 5.2

Material or action	Description	Objective(s)	Target audience(s)	Timing	Specific KPI(s)
General and technical media	Different press releases to be sent to technical and general media. • M1 - Project launch • M36 - Trials • M39 - Project results List of some targeted technical media: • RETEMA (Spain) • IndustriAmbiente (Spain) • Aguas Residuales (Spain) • TecnoAqua (Spain) • FuturEnviro (Spain) • EFE Verde (Spain) • eSMART CITY (Spain) • iAmbiente (Spain) • IWA (international) • Smartwater (international)	To disseminate the project's approach, objectives and results.	All audiences.	M1-M39	Production of 3 press releases. 3,000 recipients, together with newsletters.

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	List of some targeted general media: • La Vanguardia (Spain) • Europa Press (Spain)				
Social media campaigns	Social media campaigns have been carried out through the partners' accounts, taking advantage of World Days and project milestones, among others, to reach a wider audience. Specific hashtags (i.e. *#ICARIAeu*) have been created and used to share contents and ease the tracking of the project's publications.	To disseminate the ICARIA project and attract traffic to the website.	All audiences.	M3-M39	50 LinkedIn posts. 50 X posts.
Podcast	Production of a podcast episode focused on urban resilience.	To disseminate the ICARIA project and raise awareness about the topic among the general public.	General public.	M6	1 podcast episode.
Training materials	Development of short tutorial videos available online and posted on the website.	To facilitate usability of tools developed within the project.	Potential end-users, scientific community.	M39	50 views on Youtube.
Attendance to scientific scientific events,	Different events, congresses, workshops and conferences were attended by the project partners. with the objective of disseminating the project to potential	Disseminate the project's approach, objectives and results to potential end-users,	Potential end-users, associations and platforms, dissemination	M1-M39	Participation in 20 conferences

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conferences and workshops	end-users, specialised audiences and the scientific community through presentations and posters. List of some conferences of interest: • Resilient Cities congress series • European Climate Change Adaptation conferences • European Forum for Disaster Risk Reduction • Jornadas de Ingeniería del Agua • ESReDA Seminars • European Week of Regions and Cities • UHINAK (Spain) • Spanish Climatology Association (AEC) congress • LESAM2024 - Leading Edge Strategic Asset Management Conference (IWA, Jordan) • CONGREGA2024 - Sustainable and Digital Innovation in Engineering Asset Management (Portugal)	specialised audiences and the scientific community.	multipliers and scientific community.		and scientific events.
Publication of scientific papers	Several scientific papers in relevant journals were published. High-level peer-review international open journals of interest: • Natural Hazards (Springer) • Journal of Hydrology (Elsevier)	To disseminate knowledge, validate the project's approach and results, contribute to the body of knowledge, recognition, impact, and career advancement. They	Scientific community, potential end-users.	M6-M39	Publication of 15 papers in peer-review journals.

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	• International Journal of Disaster Risk Reduction (Elsevier) • Climate Risk Management Journal (Elsevier) • Journal of Flood Risk Management (Wiley) • Environmental Research Letters (IOP Science) • Urban Climate (Elsevier)	ensure that research findings are shared, evaluated, and built upon, ultimately advancing scientific understanding and benefiting society as a whole.			
Presentation event	Presentation of project ICARIA in ECCA 2023 conference.	Present the initial steps and work plan of project ICARIA to the European research community.	Potential end-users, Public administration, scientific community.	M6	Participate in 1 event
Final event	An event, focused on climate-proofing assets and main ICARIA outputs, was organised at the end of the project. This event targeted public authorities, problem owners and managers of private industries and other key actors.		Public administration, potential end-users, associations and platforms, dissemination multipliers and scientific community.	M39	200 participants.

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5.3 Task 5.3 - Strengthening ICARIA outreach

This task aims to leverage the partners' community contacts to promote the project outcomes.

Table 6. List of materials and actions of Task 5.3

Material or action	Description	Objective(s)	Target audience(s)	Timing	Speicific KPI(s)
Workshop for follower regions	Organisation of a workshop aimed at follower regions to present the project.	To engage follower regions in the project and promote replication after the project finishes.	Public administration, potential end-users.	M18	20 attendees.
Networking	Identification of topic-related projects funded by the EU to share knowledge and exchange experiences.	To discuss and share experiences among similar projects, exchange knowledge and improve ICARIA's results.	Scientific community.	M6-39	Networking activities/meetings with 3 sister projects Networking activities/meetings with 2 other European projects
Participation in EU Research Clusters	Participation in EU Research Clusters related to climate change adaptation and water research such as ICT4WATER and MIP4ADAPT.	To multiply ICARIA's reach.	Scientific community.	M6-M39	Publication of ICARIA in 1 dissemination material by ICT4WATER and 1

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					dissemination material by MIP4ADAPT.
Organisation of dedicated sessions in scientific events	Organisation of a dedicated session to ICARIA in an international scientific event.	To disseminate ICARIA's first results and methodologies among the scientific community.	Scientific community.	M30	50 attendees.

5.4 Task 5.4 - Stakeholders engagement

Stakeholders involvement and engagement has been carried out via different levels of interaction in Work Package 4 (WP4) through trial methodology, ensuring participatory process within the **local Communities of Practice (CoPs)** within WP5.

The task has ensured the stakeholders engagement by creating CoPs at the 3 case studies and organizing workshops and related communications in each one. These workshops have been addressed to third parties and stakeholders and aimed to improve risk perception and awareness and to foster the co-creation of adaptation solutions and risk awareness and testing the ICARIA outputs which includes the training and use of ICARIA DSS; the workshops have also been used to conduct the polls to evaluate the stakeholders satisfaction with the different project results related with the project KPIs.

Specific information on Task 5.4 can be found in **D5.4 - Stakeholders Engagement Plan and D5.5 - Stakeholders Engagement Events Report.**

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6 Evaluation

For each of the tasks which shape this Plan, impact and effectiveness indicators have been monitored to analyse if the actions have been carried out correctly. This evaluation is important to identify the effectiveness of the information and tools used in the communication process by means of previously defined indicators. The impact and effectiveness indicators have been regularly revised during the project.

Some of the used monitoring mechanisms include:

- Regular activity review meetings by ICARIA's project management team, plus review and interaction between the partners.
- Web analytics and statistics.
- Impact of published material.

All of them are included in the following tables (see Annex for details of communication and dissemination activities, and D5.3 Dissemination materials for developed materials).

Table 7. List of indicators and progress of materials and activities under Task 5.1

Material or action	Specific KPI(s)	Status
Logotype and templates	Creation of 1 set of logos and templates.	**DONE:** The logotype, templates (PowerPoint, Word, poster, videocall background) and manual of identity were developed at the beginning of the project and shared with all consortium members. They are also available on the website. Details can be found on D5.3 Dissemination materials. The official ICARIA logotype is available on the website.

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Roll-up	Production of 1 roll-up.	**DONE:** A roll-up was produced at the beginning of the project and was carried to events, conferences and forums. A second roll-up was produced to reflect the update of consortium members. Details can be found on D5.3 Dissemination materials. It is available on the website.
Project website	250 single visits/month	**DONE:** ICARIA's website was launched at the beginning of the project. It has been updated periodically with news, events, downloadable resources (papers, deliverables, training materials, etc.), and blog articles. Since the website's launch, it has got a total of 9,128 single visits, which accounts for an average of 258 single visits/month. The website will be available for 5 years after the finalisation of the project. Details can be found on D5.3 Dissemination materials. The project website can be consulted through the following link: https://www.icaria-project.eu/.
Infographics	Creation of 1 set of infographics.	**DONE:** 1 set of infographics including trials and mini trials for each case study was developed at the beginning of the project and used in presentations and the website. These infographics encompass unique iconography that has been used in several communication materials. Details can be found on D5.3 Dissemination materials.

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		The infographics are available on the downloads section of the project website. They are also posted under the section case studies.
Informative leaflet	500 downloads or copies	**DONE:** ICARIA's informative leaflet has been printed and distributed in several events (such as the final event), and is also available on the website. The online version of the informative leaflet has got 793 downloads. Details can be found on D5.3 Dissemination materials. It is available on the website.
Posters	Production of 1 poster.	**DONE:** A poster with general information about the project has been produced and used in several events and scientific conferences. In addition, it is also included in ICARIA's website. The online version of the poster has got 852 downloads. Details can be found on D5.3 Dissemination materials. It is available on the website.
Short promotional video	250 views on Youtube.	**DONE:** A short promotional video explaining the project in a visual and easy-to-understand way is available on Youtube and on ICARIA's website. It has got 689 views. In addition, Beniamino Russo, ICARIA Scientific Coordinator, was featured in a video recorded by MAIA, one of ICARIA's sister projects, that has got 30 views. Details can be found on D5.3 Dissemination materials.

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		The short promotional video is available on the dissemination materials section as well as posted on YouTube, and the video recorded by MAIA can be found here, under the news sections of the ICARIA website.
Newsletters	4 newsletters. 3,000 recipients, together with press releases.	**DONE:** During the project, 2 internal and 3 external newsletters have been sent. The internal newsletters' database is formed by 61 contacts, whereas the external database is formed by 150. In addition, follow-up newsletters have been sent to people registered to events, providing materials such as slides, recordings and press releases. Also, the project has been featured in several issues of Cetaqua's weekly newsletter, received by 220 people, and has also been featured in newsletters of other European projects and platforms such as ICT4Water, or MIP4ADAPT. Finally, it has been featured on newsletters of technical media such as Aguas Residuales. Details can be found on D5.3 Dissemination materials. The newsletters can be found here: - 1st newsletter - 2nd newsletter - 3rd newsletter - 4th newsletter will be sent in the following weeks. - 1st internal newsletter - 2nd internal newsletter
One-pager	500 downloads or copies.	**ONGOING:** The one-pager that summarises ICARIA's result will be posted on the website and disseminated in social media after the project's closure in order to maintain visibility.

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Final video	250 views on Youtube.	**DONE:** A 2-minute video was produced at the end of the project in order to share some of ICARIA's main outputs, such as risk maps or the DSS. The video was first shown to attendees to the final event (157 people), included in the newsletters sent after the event and website, and disseminated through social media. So far, it has got 81 views. Details can be found on D5.3 Dissemination materials. The final video can be found on our website and posted on YouTube.

Table 8. List of indicators and progress of materials and activities under Task 5.2

Material or action	Specific KPI(s)	Status
General and technical media	3 press releases. 3.000 recipients, together with newsletters.	**DONE:** 3 press releases were published and distributed among general and technical media throughout the project to announce relevant milestones. The first one, announcing ICARIA's launch, was sent on 26/1/2023, whereas the second one, explaining the trials undertaken in the three CoPs, was sent on 18/12/2025, and the last one, related to the project's results, was sent on 16/3/2026. Consortium members such as IREC will send an adapted version of the common press release at the beginning of April. In addition, the project was featured in a press release about ClimEmpower, another European project working on climate resilience, and has been included in several other articles.

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		Finally, a bilingual technical article about ICARIA was published on 12/12/2023 by *IndustriAmbiente*. In total, ICARIA has achieved 83 impacts in general media outlets, and 16 impacts in technical media outlets of countries such as Spain, Portugal and Greece, accounting for a total of 99 impacts. The full list can be found on the Annex.
Social media campaigns	50 LinkedIn posts. 50 X posts.	**DONE:** Consortium members, supported by other projects and social media outlets, have periodically shared information about the project's development using the hashtag #ICARIAeu. During the lifetime of the project, 58 X social media posts have been made on X (formerly Twitter), and 54 on LinkedIn. Additionally, 5 Facebook and 1 Bluesky posts were made. In total, ICARIA has been featured in 118 posts. The full list can be found on the Annex.
Podcast	1 podcast episode.	**DONE:** The podcast episode '# 12 | Resiliencia urbana: Ciudades más fuertes frente a la crisis climática' within Cetaqua's series 'Thinking forward' was dedicated to ICARIA, featuring consortium members from Aquatec, Cetaqua and FIC. It was uploaded to Spotify on 21/6/2023. Details can be found on D5.3 Dissemination materials. The podcast can be found here.
Training materials	50 visits/downloads	**DONE:** 4 video tutorials have been produced and published on Youtube to help end-users and the scientific community navigate some of the main ICARIA's tools: the ICARIA DSS user guide, the ICARIA portfolio of adaptation measures, the RAFF App - Overview and the RAFF App - Extended video.

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		In total, the videos account for 55 views. Details can be found on D5.3 Dissemination materials. The links to the training materials can be found here: - ICARIA RAF App user guide - Extended version - ICARIA RAF App user guide - Overview - ICARIA Decision Support System user guide - ICARIA portfolio of adaptation measures They can also be found on the website under the Downloads - Training materials section.
Attendance to scientific events, conferences and workshops	Participation in 20 conferences and scientific events.	**DONE:** Consortium members have attended 20 national and international scientific events, conferences and workshops during the lifetime of the project to present the project both in oral presentations and in posters. The full list can be found on the Annex.
Publication of scientific papers	Publication of 15 papers in peer-review journals.	**DONE:** During the lifetime of the project, 12 papers have been published, 1 is already accepted, and 5 are ongoing (2 led by Aquatec, 1 led by AIT on the Salzburg case of study, 1 led by DMKTS on the Aegean Islands Region led by DMKTS, and 1 led by Cetaqua on the DSS). The full list can be found on the Annex.

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Presentation event	Organisation of 1 event to present the project.	**DONE:** ICARIA was presented at ECCA 2023, one of the main congresses for climate change adaptation, by Aquatec using the developed general poster during a poster session.
Final event	200 participants.	**DONE:** ICARIA's final event was celebrated at Universitat Politècnica de Catalunya (Barcelona) on 13/3/2026 in a hybrid format. 262 people registered, and 167 attended, 85 of whom in person, including representatives from municipalities and public entities. The event included the presentation of outputs by the three study cases, a roundtable and a keynote speech by Francisco Espejo (Consorcio de Compensación de Seguros) about the DANA at Valencia. The agenda can be found on D5.3 Dissemination materials.

Table 9. List of indicators and progress of materials and activities under Task 5.3

Material or action	Specific KPI(s)	Status
Workshop for follower regions	20 attendees.	**DONE:** The online workshop "From the conceptual framework to the implementation", aimed at follower regions, was celebrated on 10/7/2024. The event had a total of 37 attendees, including all 7 follower regions and 8 partners of the ICARIA consortium.

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Networking	Collaborate with the two ICARIA sister projects and other projects on multi-hazard risk	**DONE:** MIRACA project participated in ICARIA's KoM and a sister projects roundtable (MIRACA, ICARIA and RISKADAPT) was celebrated in ECCA 2025. MYRIAD project presented their multi-hazard framework in the 2nd ICARIA Plenary meeting and ICARIA participated in ClimEmpower's KoM. In addition, ICARIA participated at the RISKADAPT session "Risk assessment of structures under climate change", together with MIRACA, on 23/10/2024 in Athens.
Participation in EU Research Clusters	3 publications in EU Research Clusters newsletters.	**DONE:** ICARIA has been part of two EU Research Clusters: MIP4Adapt and ICT4Water. Key achievements and events of the project have been communicated through their newsletters.
Organisation of dedicated sessions in scientific events	1 dedicated session. 50 attendees.	**DONE:** During EGU 2025, ICARIA co-organised the session "Advances in multi-hazard and multi-risk modelling of climate extremes to increase asset resilience" in order to showcase academic work related to this topic. This session was created together with sister projects. During the session, Àlex de la Cruz, ICARIA's Manager, presented ICARIA through the presentation "An approach to modeling interactions between extreme weather events during multi-hazard events". More than over 10 teams from different institutions also presented their work on topics such as urban climate challenges, flood risks, or transportation system disruption. On the other hand, ICARIA sponsored ECCA 2025 and organised the session "Strategies and tools for improving infrastructure in multi-hazard contexts", addressed to follower regions, to present several of ICARIA's key outcomes. These developments were highlighted alongside contributions from ICARIA's sister projects, MIRACA and Riskadapt.

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7 Conclusions

During the lifetime of ICARIA, the project's consortium has undertaken numerous communication and dissemination activities and materials aimed at different target groups following the Communication and Dissemination Plan presented. Communication and dissemination efforts included the development of a coherent visual strategy through a set of branding materials, the development of a dedicated website that contains all public materials in a visual and accessible way, the periodical publication of several press releases and social media posts, the publication of papers at high-impact peer-reviewed journals, the presentation of the project in leading national and international climate change, meteorology, hydrology and water management conferences, the networking with sister projects to share experiences and strengthen ICARIA's tools and methodologies, the organisation of dedicated events, and the participation at EU Research Clusters, among others.

Thanks to the implication of all partners, ICARIA has achieved great visibility among the scientific community, the public administration, associations and platforms, potential end-users, the general public, and dissemination multipliers, which has been key in boosting ICARIA's impact.

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Annex A

In this Annex, readers can find the complete list of impacts in general and technical media, social media posts, events attended and papers posted. Also, a brief section related to the use of data in this WP is included (for more details, see D6.3 Data Management Plan).

Table A.1. Full list of impacts in general media

Media outlet	Title	Date	Link
Ota Voice	Icaria: Ένα ευρωπαϊκό έργο για τη βελτίωση της ανθεκτικότητας των υποδομών σε ακραία καιρικά φαινόμενα	02/01/2023	https://www.otavoice.gr/aytodioikitika-nea/2023/02/icaria-ena-evropaiko-ergo-gia-ti-veltiosi-tis-anthektikotitas-ton-ypodomon-se-akraia-kairika-fainomena/
Sky Rodos	Icaria: Ένα ευρωπαϊκό έργο για τη βελτίωση της ανθεκτικότητας των υποδομών σε ακραία καιρικά φαινόμενα	02/01/2023	https://www.skyrodos.gr/icaria-%CE%AD%CE%BD%CE%B1-%CE%B5%CF%85%CF%81%CF%89%CF%80%CE%B1%CF%8A%CE%BA%CF%8C-%CE%AD%CF%81%CE%B3%CE%BF-%CE%B3%CE%B9%CE%B1-%CF%84%CE%B7-%CE%B2%CE%B5%CE%BB%CF%84%CE%AF%CF%89%CF%83%CE%B7-%CF%84%CE%B7/
El Plural	Un proyecto europeo para mejorar la resiliencia de infraestructuras críticas frente a eventos climáticos extremos	26/01/2023	https://www.elplural.com/economia/empresas/proyecto-europeo-mejorar-resiliencia-infraestructuras-criticas-frente-eventos-climaticos-extremos_304994102?utm_term=Autofeed&utm_medium=Social&utm_source=Twitter#Echobox=1674750937
SyrosToday	Περιφέρεια Ν . Αιγαίου: Ξεκίνησε η υλοποίηση του ICARIA	31/01/2023	https://www.syrostoday.gr/News/148374-Perifereia-N--Aigaiou-Ksekinise-i-ylopoiisi-tou-ICARIA.aspx
Kosnews24	Έργο ICARIA: Ένα ευρωπαϊκό έργο για τη βελτίωση της ανθεκτικότητας των υποδομών ζωτικής σημασίας σε ακραία καιρικά φαινόμενα	31/01/2023	https://www.kosnews24.gr/koinwnika/item/264792-ergo-icaria-ena-evropaiko-ergo-gia-ti-veltiosi-tis-anthektikotitas-ton-ypodomon-zotikis-simasias-se-akraia-kairika-fainomena#.Y9lv26FrKfQ.twitter

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Naxospress	ΠΝΑΙ – ICARIA: Ερχεται να μας προστατεύσει από τα ακραία καιρικά φαινόμενα	01/02/2023	https://naxospress.gr/aigaio/pnai-icaria-erchetai-na-mas-prostateysei-apo-ta-akraia-kairika-fainomena/
Dimokratiki	ICARIA – Ένα ευρωπαϊκό έργο για τη βελτίωση της ανθεκτικότητας των υποδομών ζωτικής σημασίας σε ακραία καιρικά φαινόμενα	02/02/2023	https://www.dimokratiki.gr/31-01-2023/icaria-ena-eyropaiko-ergo-gia-ti-veltiosi-tis-anthektikotitas-ton-ypodomon-zotikis-simasias-se-akraia-kairika-fainomena/?utm_source=twitter&utm_medium=social&utm_campaign=ReviveOldPost
Dimokratiki	Με επιτυχία ολοκληρώθηκε η 1η Συνάντηση Ενδιαφερομένων Μερών της Κοινότητας Πρακτικής της Ρόδου του έργου ICARIA	08/09/2023	https://www.dimokratiki.gr/08-09-2023/me-epityychia-oloklirothike-i-1i-synantisi-endiaferomenon-meron-tis-koinotitas-praktikis-tis-rodou-tou-ergou-icaria/
Money&Tourism	ICARIA: Βελτίωση της κλιματικής ανθεκτικότητας κρίσιμων περιουσιακών στοιχείων	08/09/2023	https://money-tourism.gr/icaria-veltiosi-tis-klimatikis-anthektikotitas-krisimon-periousiakon-stoicheion/
Rodiaki	1η Συνάντηση Μελών του έργου ICARIA	11/09/2023	https://www.rodiaki.gr/article/500541/1h-synanthsh-melwn-toy-ergoy-icaria
3Cat	Simular inundacions al metro a escala real: així es prepara Barcelona per a episodis extrems	24/11/2024	https://www.3cat.cat/324/simular-inundacions-al-metro-a-escala-real-aixi-es-prepara-barcelona-per-a-episodis-extrems/noticia/3323481/
El Mundo	Innovación, digitalización y alianzas estratégicas para preservar los recursos hídricos del planeta	14/03/2025	https://amp.elmundo.es/uestudio/2025/03/13/67d30906e85ece68648b4591.html
ABC	El deshielo de los glaciares y el futuro del agua: desafíos y soluciones ante la crisis climática	14/03/2025	https://www.abc.es/contentfactory/post/2025/03/14/veolia-el-deshielo-de-los-glaciares-y-el-futuro-del-agua-desafios-y-soluciones-ante-la-crisis-climatica/?utm_source=ABC&utm_medium=branded&utm_campaign=veolia_dia_agua_bc_abc&utm_content=veolia
20 minutos	Cómo la acción colaborativa y la innovación pueden preservar el agua	22/03/2025	https://www.20minutos.es/noticia/5690644/0/accion-preservar-el-agua/
La Vanguardia	Las ecofactorías y las soluciones tecnológicas avanzan para preservar el agua ante el retroceso de los glaciares	22/03/2025	https://www.lavanguardia.com/economia/20250322/10507268/ecofactorias-soluciones-tecnologicas-avanzan-preservar-agua-retroceso-glaciares-agenciaslv20250322.html

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The Objective	Cómo la acción colaborativa y la innovación pueden preservar el agua	22/03/2025	https://theobjective.com/further/branded-content/2025-03-22/accion-colaborativa-innovacion-agua-veolia/
El Español	Innovación para cuidar el agua y frenar el cambio climático, la apuesta de Veolia	12/03/2025	https://www.elespanol.com/invertia/empresas/20250322/innovacion-cuidar-agua-frenar-cambio-climatico-apuesta-veolia/932156834_0.html
El Independiente	Día Mundial del Agua: acelerar la transformación ecológica para asegurar la preservación de los glaciares	22/03/2025	https://www.elindependiente.com/futuro/medio-ambiente/2025/03/22/dia-mundial-del-agua-acelerar-la-transformacion-ecologica-para-asegurar-la-preservacion-de-los-glaciares/#google_vignette
Economía Digital	La receta de Veolia para preservar el agua: acción colaborativa e innovación	22/03/2025	https://www.economiadigital.es/empresas/la-receta-de-veolia-para-preservar-el-agua-accion-colaborativa-e-innovacion.html
El Plural	Veolia apuesta por la regeneración y la digitalización para asegurar nuestras reservas de agua	22/03/2025	https://www.elplural.com/el-telescopio/sostenibilidad/veolia-apuesta-regeneracion-digitalizacion-asegurar-nuestras-reservas-agua_348490102
El Economista	Las ecofactorías y las soluciones tecnológicas avanzan para preservar el agua ante el retroceso de los glaciares	22/03/2025	https://www.eleconomista.es/actualidad/noticias/13280943/03/25/las-ecofactorias-y-las-soluciones-tecnologicas-avanzan-para-preservar-el-agua-ante-el-retroceso-de-los-glaciares.html
Eldiario.es	Nuevas estrategias para la resiliencia del agua	22/03/2025	https://www.eldiario.es/edcreativo/nuevas-estrategias-resiliencia-agua_1_12139996.html
La Bisbal al Dia	El projecte Icaria impulsa solucions per afrontar inundacions a l'àrea metropolitana de Barcelona	16/03/2026	https://www.labisbalaldia.com/el-projecte-icaria-impulsa-solucions-per-afrontar-inundacions-a-larea-metropolitana-de-barcelona/amp/
Pollensa News	El proyecto Icaria analiza el impacto del cambio climático en las inundaciones de Barcelona	16/03/2026	https://www.pollensanews.com/2026/03/16/el-proyecto-icaria-analiza-el-impacto-del-cambio-climatico-en-las-inundaciones-de-barcelona/amp/
Noticias Toro	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en Barcelona	16/03/2026	https://www.noticiastoro.com/2026/03/16/el-proyecto-icaria-transforma-la-gestion-de-futuros-riesgos-de-inundacion-en-barcelona/
La Voz de Béjar	Icaria presenta herramientas para mejorar la resiliencia ante inundaciones en Barcelona	16/03/2026	https://www.lavozdebejar.com/2026/03/16/icaria-presenta-herramientas-para-mejorar-la-resiliencia-ante-inundaciones-en-barcelona/amp/
Cambrils al Dia	El projecte Icaria analitza l'impacte del canvi climàtic en les inundacions de Barcelona	16/03/2026	https://www.cambrilsaldia.com/el-projecte-icaria-analitza-limpacte-del-canvi-climatic-en-les-inundacions-de-barcelona/amp/

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Salou al Dia	Icaria ofereix nous models per anticipar fenòmens climàtics extrems a Barcelona	16/03/2026	https://www.saloualdia.com/icaria-ofereix-nous-models-per-anticipar-fenomens-climatics-extrems-a-barcelona/amp/
Ripoll al Dia	El projecte Icaria ajuda Barcelona a preparar-se per a inundacions causades pel canvi climàtic	16/03/2026	https://www.ripollaldia.com/el-projecte-icaria-ajuda-barcelona-a-preparar-se-per-a-inundacions-causades-pel-canvi-climatic/
Roses al Dia	Icaria presenta eines per millorar la resiliència davant inundacions a Barcelona	16/03/2026	https://www.rosesaldia.com/icaria-presenta-eines-per-millorar-la-resiliencia-davant-inundacions-a-barcelona/amp/
Hospitalet al Dia	El projecte Icaria impulsa solucions per afrontar inundacions a l'àrea metropolitana de Barcelona	16/03/2026	https://www.hospitaletaldia.com/el-projecte-icaria-impulsa-solucions-per-afrontar-inundacions-a-larea-metropolitana-de-barcelona/
Irún Hoy	El proyecto Icaria impulsa soluciones para afrontar inundaciones en la región metropolitana de Barcelona	16/03/2026	https://www.irunhoy.com/2026/03/16/el-proyecto-icaria-impulsa-soluciones-para-afrontar-inundaciones-en-la-region-metropolitana-de-barcelona/amp/
Montcada Digital	El projecte Icaria ajuda Barcelona a preparar-se per a inundacions causades pel canvi climàtic	16/03/2026	https://www.montcadadigital.com/el-projecte-icaria-ajuda-barcelona-a-preparar-se-per-a-inundacions-causades-pel-canvi-climatic/
Noticias Arévalo	Icaria ofrece nuevos modelos para anticipar fenómenos climáticos extremos en Barcelona	16/03/2026	https://www.noticiasarevalo.com/2026/03/16/icaria-ofrece-nuevos-modelos-para-anticipar-fenomenos-climaticos-extremos-en-barcelona/
Correio Negocios	Icaria oferece novos modelos para antecipar fenômenos climáticos extremos em Barcelona	16/03/2026	https://www.correionegocios.pt/2026/03/16/icaria-oferece-novos-modelos-para-antecipar-fenomenos-climaticos-extremos-em-barcelona/amp/
Hoy Llodio	El proyecto Icaria redefine la gestión del riesgo de inundaciones en la región metropolitana de Barcelona	16/03/2026	https://www.hoyllodio.com/2026/03/16/el-proyecto-icaria-redefine-la-gestion-del-riesgo-de-inundaciones-en-la-region-metropolitana-de-barcelona/amp/
Crónica Global	El proyecto Icaria advierte que el riesgo de inundaciones graves en Barcelona podría crecer un 25%	16/03/2026	https://cronicaglobal.elespanol.com/vida/20260316/proyecto-icaria-advierte-riesgo-inundaciones-graves-barcelona/1003742741984_0.html
El Confidencial	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	16/03/2026	https://www.elconfidencial.com/empresas/2026-03-16/mapas-riesgo-inundaciones-barcelona-clima-1hms-1svm_4321495/
MonPlaneta	Veolia impulsa el projecte ICARIA per gestionar els riscos	16/03/2026	https://monplaneta.cat/mediambient/veolia-impulsa-el-projecte-icaria-p

	d'inundació a Barcelona		er-gestionar-els-riscos-dinundacio-a-barcelona-107713/
NoticiasDe	El proyecto Icaria redefine la gestión del riesgo de inundaciones en la región metropolitana de Barcelona	16/03/2026	https://www.noticiasde.es/seleccion-economica/el-proyecto-icaria-redefine-la-gestion-del-riesgo-de-inundaciones-en-la-region-metropolitana-de-barcelona/
Servimedia	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	16/03/2026	https://www.servimedia.es/noticias/proyecto-icaria-transforma-gestion-futuros-riesgos-inundacion-region-metropolitana-barcelona/1412799909
Vozpópuli	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	16/03/2026	https://www.vozpopuli.com/actualidad/proyecto-icaria-transforma-gestion-futuros-riesgos-inundacion-region-metropolitana-barcelona.html
Qué!	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	16/03/2026	https://www.que.es/2026/03/16/proyecto-icaria-transforma-gestion-futuros-riesgos-inundacion-region-metropolitana-barcelona/
El Economista	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	16/03/2026	https://www.eleconomista.es/actualidad/amp/13825717/el-proyecto-icaria-transforma-la-gestion-de-futuros-riesgos-de-inundacion-en-la-region-metropolitana-de-barcelona
lavozdeGetxo	Icaria impulsa nuevos mapas para anticipar inundaciones en Barcelona	16/03/2026	https://www.lavozdegetxo.com/2026/03/16/icaria-impulsa-nuevos-mapas-para-anticipar-inundaciones-en-barcelona/
Tàrrega Digital	Icaria ofereix nous models per anticipar fenòmens climàtics extrems a Barcelona	16/03/2026	https://www.tarregadigital.com/icaria-ofereix-nous-models-per-anticipar-fenomens-climatics-extrems-a-barcelona/
Las Rozas hoy	El proyecto Icaria analiza el impacto del cambio climático en las inundaciones de Barcelona	16/03/2026	https://www.lasrozashoy.es/2026/03/16/el-proyecto-icaria-analiza-el-impacto-del-cambio-climatico-en-las-inundaciones-de-barcelona/
Noticias Zamora	Icaria presenta herramientas para mejorar la resiliencia ante inundaciones en Barcelona	16/03/2026	https://www.noticiaszamora.es/2026/03/16/icaria-presenta-herramientas-para-mejorar-la-resiliencia-ante-inundaciones-en-barcelona/
Vic al Dia	El projecte Icaria redefineix la gestió del risc	16/03/2026	https://www.google.com/amp/s/www.vicaldia.com/el-projecte-icaria-red

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	d'inundacions de l'Àrea Metropolitana de Barcelona		efineix-la-gestio-del-risc-dinundacions-a-larea-metropolitana-de-barcelona/amp/
Moia Digital	El projecte Icaria redefineix la gestió del risc d'inundacions de l'Àrea Metropolitana de Barcelona	16/03/2026	https://www.google.com/amp/s/www.moiadigital.com/el-projecte-icaria-redefineix-la-gestio-del-risc-dinundacions-a-larea-metropolitana-de-barcelona/amp/
Noticias Cuenca	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en Barcelona	16/03/2026	https://www.noticiascuenca.com/2026/03/16/el-proyecto-icaria-transforma-la-gestion-de-futuros-riesgos-de-inundacion-en-barcelona/
Noticias Alcorcón	Icaria ofrece nuevos modelos para anticipar fenómenos climáticos extremos en Barcelona	16/03/2026	https://www.noticiasalcorcon.com/2026/03/16/icaria-ofrece-nuevos-modelos-para-anticipar-fenomenos-climaticos-extremos-en-barcelona/
Burgos Hoy	Icaria ofrece nuevos modelos para anticipar fenómenos climáticos extremos en Barcelona	16/03/2026	https://www.burgoshoy.com/2026/03/16/icaria-ofrece-nuevos-modelos-para-anticipar-fenomenos-climaticos-extremos-en-barcelona/
Noticias Miranda	El proyecto Icaria ayuda a Barcelona a prepararse para inundaciones provocadas por el cambio climático	16/03/2026	https://www.noticiasmiranda.com/2026/03/16/el-proyecto-icaria-ayuda-a-barcelona-a-prepararse-para-inundaciones-provocadas-por-el-cambio-climatico/
Madrid On	El proyecto Icaria impulsa soluciones para afrontar inundaciones en la región metropolitana de Barcelona	16/03/2026	https://www.madridon.com/2026/03/16/el-proyecto-icaria-impulsa-soluciones-para-afrontar-inundaciones-en-la-region-metropolitana-de-barcelona/
Vendrell al dia	Icaria ofereix nous models per anticipar fenòmens climàtics extrems a Barcelona	16/03/2026	https://www.vendrellaldia.com/icaria-ofereix-nous-models-per-anticipar-fenomens-climatics-extrems-a-barcelona/
Diario Segovia	El proyecto Icaria advierte del aumento del riesgo de inundaciones en Barcelona	16/03/2026	https://www.diariosegovia.com/2026/03/16/el-proyecto-icaria-advierte-del-aumento-del-riesgo-de-inundaciones-en-barcelona/
Granada Diario	El proyecto Icaria advierte del aumento del riesgo de inundaciones en Barcelona	16/03/2026	https://www.granadadiario.es/2026/03/16/el-proyecto-icaria-advierte-del-aumento-del-riesgo-de-inundaciones-en-barcelona/
La voz de Calatayud	Icaria presenta herramientas para mejorar la resiliencia ante inundaciones en Barcelona	17/03/2026	https://www.lavozdecalatayud.com/2026/03/16/icaria-presenta-herramientas-para-mejorar-la-resiliencia-ante-inundaciones-en-barcelona/
merca2	El proyecto Icaria transforma la gestión de futuros	17/03/2026	https://www.merca2.es/2026/03/16/proyecto-icaria-transforma-gestion

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	riesgos de inundación en la región metropolitana de Barcelona		-futuros-riesgos-inundacion-region-metropolitana-barcelona-2361114/
Noticias Boadilla	El proyecto Icaria advierte del aumento del riesgo de inundaciones en Barcelona	17/03/2026	https://www.noticiasboadilla.com/2026/03/16/el-proyecto-icaria-advierte-del-aumento-del-riesgo-de-inundaciones-en-barcelona/
Plasencia y Jerte	El proyecto Icaria redefine la gestión del riesgo de inundaciones en la región metropolitana de Barcelona	17/03/2026	https://www.plasenciayjerte.com/2026/03/16/el-proyecto-icaria-redefine-la-gestion-del-riesgo-de-inundaciones-en-la-region-metropolitana-de-barcelona/
Ubeda News	El proyecto Icaria redefine la gestión del riesgo de inundaciones en la región metropolitana de Barcelona	17/03/2026	https://www.ubedanews.com/2026/03/16/el-proyecto-icaria-redefine-la-gestion-del-riesgo-de-inundaciones-en-la-region-metropolitana-de-barcelona/
Metrópoli Abierta	El proyecto Icaria transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	17/03/2026	https://metropoliabierta.elespanol.com/vivir-en-barcelona/20260317/proyecto-icaria-transforma-gestion-futuros-riesgos-inundacion-region-metropolitana-barcelona/1003742742185_0.html
El Lliberal	El proyecto ICARIA revoluciona la gestión del riesgo de inundaciones en Barcelona	19/03/2026	https://www.elliberal.cat/2026/03/19/el-proyecto-icaria-revoluciona-la-gestion-del-riesgo-de-inundaciones-en-barcelona/
La Vanguardia	El riesgo de inundaciones en Barcelona podría crecer un 25%	23/03/2026	PDF

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Table A.2. Full list of impacts in technical media

Media outlet	Title	Date	Link
RETEMA	Los impactos de desastres naturales en infraestructuras estratégicas, a estudio	26/01/2023	https://www.retema.es/actualidad/el-proyecto-icaria-estudiara-los-impactos-de-desastres-naturales-en-infraestructuras
IndustriAmbiente	Proyecto ICARIA: Un proyecto europeo para mejorar la resiliencia de infraestructuras críticas frente a eventos climáticos extremos	26/01/2023	https://www.industriambiente.com/noticias/20230126/proyecto-icaria-un-proyecto-europeo-para-mejorar-la-resiliencia-de-infraestructuras-criticas-frente-a-eventos-climaticos-extremos#.Y9txZnbMKUk
IndustriAmbiente	ICARIA: Un proyecto europeo para mejorar la resiliencia de las regiones frente a eventos climáticos extremos	12/12/2023	https://www.industriambiente.com/articulos/20231213/icaria-un-proyecto-europeo-para-mejorar-la-resiliencia-de-las-regiones-frente-a-eventos-climaticos-extremos
Innovando en la construcción	PROYECTO DE INVESTIGACIÓN El proyecto europeo ICARIA mejorará la resiliencia de infraestructuras críticas frente a eventos climáticos extremos	02/02/2024	https://innovandoenlaconstruccion.com/el-proyecto-europeo-icaria-mejorara-la-resiliencia-de-infraestructuras-criticas-frente-a-eventos-climaticos-extremos/
IndustriAmbiente	Las administraciones públicas de la Costa del Sol se reúnen para hacer frente a los retos derivados del cambio climático	04/11/2025	https://www.industriambiente.com/noticias/20251104/-administraciones-publicas-costa-sol-se-reunen-hacer-frente-retos-derivados-cambio-climatico
TecnoAqua	Las administraciones públicas de la Costa del Sol se reúnen para hacer frente a los retos derivados del cambio climático	04/11/2025	https://www.tecnoaqua.es/noticias/20251110/cetaqua-cambio-climatico-costadelsol
IndustriAmbiente	ICARIA pone a prueba herramientas pioneras para reforzar la resiliencia frente a fenómenos climáticos extremos	18/12/2025	https://www.industriambiente.com/noticias/20251218/icaria-pone-prueba-herramientas-pioneras-reforzar-resiliencia-frente-fenomenos-climaticos-extremos
TecnoAqua	El proyecto Icaria pone a prueba herramientas pioneras para abordar los impactos de fenómenos climáticos extremos	22/12/2025	https://www.tecnoaqua.es/noticias/20251222/icaria-proyecto-herramientas-impactos-fenomenos-extremos

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Prevention Web	Urban flooding: Constructing climate-resilient infrastructure	16/03/2026	https://www.preventionweb.net/news/urban-flooding-constructing-climate-resilient-infrastructure
iAgua	ICARIA alerta de que el riesgo de inundaciones pluviales podría crecer un 25 % en Barcelona	16/03/2026	https://www.iagua.es/noticias/redaccion-iagua/icaria-alerta-que-riesgo-inundaciones-pluviales-podria-crecer-25-barcelona
IndustriAmbiente	ICARIA alerta de más riesgo de inundaciones en Barcelona por el cambio climático	16/03/2026	https://www.industriambiente.com/noticias/20260316/icaria-alerta-mas-riesgo-inundaciones-en-barcelona-cambio-climatico
RETEMA	El proyecto europeo ICARIA analiza cómo el cambio climático aumentará el riesgo de inundaciones en Barcelona	16/03/2026	https://www.retema.es/actualidad/el-proyecto-europeo-icaria-analiza-como-el-cambio-climatico-aumentara-el-riesgo-de
Indústria e Ambiente	Um projeto europeu para melhorar a resiliência de infraestructuras críticas	January/ February 2026	PDF
TecnoAqua	El proyecto ICARIA transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	16/03/2026	https://www.tecnoaqua.es/noticias/20260316/icaria-proyecto-final-fenomenos-extremos-inundaciones
Eco Sapo	Projeto Icaria transforma a gestão dos futuros riscos de inundação na região metropolitana de Barcelona	16/03/2026	https://eco.sapo.pt/2026/03/16/projeto-icaria-transforma-a-gestao-dos-futuros-riscos-de-inundacao-na-regiao-metropolitana-de-barcelona/
Aguas Residuales	El proyecto ICARIA transforma la gestión de futuros riesgos de inundación en la región metropolitana de Barcelona	17/03/2026	https://www.aguasresiduales.info/revista/noticias/el-proyecto-icaria-transforma-la-gestion-de-futuro-iV4Lo

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Table A.3. Full list of social media posts

Post author	Link	Date	Social media channel
Albert Chen - University of Exeter	https://www.linkedin.com/posts/albertchenexeter_icaria-project-improving-climate-resilience-activity-7085700490323206145-pUux?utm_source=share&utm_medium=member_desktop	26/01/2023	LinkedIn
IREC	https://twitter.com/IREC_Energia/status/1618583337232392198	26/01/2023	X
IndustriAmbiente	https://twitter.com/industriambient/status/1618662265284341761	26/01/2023	X
Industria Ambiente	https://twitter.com/industriambient/status/1618662267758968832	26/01/2023	X
IndustriAmbiente	https://www.linkedin.com/feed/update/urn:li:activity:7024428498370859008?utm_source=share&utm_medium=member_desktop	26/01/2023	LinkedIn
IREC	https://www.linkedin.com/posts/institut-de-recerca-en-energia-de-catalunya_irecprojects-icaria-eu-activity-7024349032042897408-DWjA?utm_source=share&utm_medium=member_desktop	26/01/2023	LinkedIn
Cetaqua	https://www.linkedin.com/posts/cetaqua_icaria-resilience-of-critical-infraestructures-activity-7024393259405697024-DAeD?utm_source=share&utm_medium=member_desktop	26/01/2023	LinkedIn
Cetaqua	https://twitter.com/CETAQUA/status/1618627445325987842	26/01/2023	X
IREC	https://twitter.com/IREC_Energia/status/1618633516056707072	26/01/2023	X
FIC	https://twitter.com/FIClima/status/1618640625553014786	26/01/2023	X

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Cetaqua	https://x.com/CETAQUA/status/1618627445325987842?s=20	26/01/2023	X
FIC	https://twitter.com/FIClima/status/1618915582006677508	27/01/2023	X
Cetaqua	https://twitter.com/CETAQUA/status/1618954017740316672	27/01/2023	X
Cetaqua	https://x.com/CETAQUA/status/1618954017740316672?s=20	27/01/2023	X
IREC	https://twitter.com/IREC_Energia/status/1619953115633156096	30/01/2023	X
David Pacheco - Cetaqua	https://twitter.com/davidpxcheco/status/1619983349120110592	30/01/2023	X
RSA - Region of South Aegean Press Office	https://www.facebook.com/GrafeioTypouPNAI/posts/pfbid021JXb4StyoBd7QSvufrTYPji75eg3xuihCMzRkUpccmW4aUD1uSJUgutbgb3JDecXl	31/01/2023	Facebook
DimokratikNews	https://twitter.com/dimokratikinews/status/1620413808643645440	31/01/2023	X
SyrosToday	https://twitter.com/syrostoday/status/1620419194268581889	31/01/2023	X
Damianos Athanasiou	https://www.linkedin.com/posts/damianos-athanasiou-1a008334_icaria-%CE%AD%CE%BD%CE%B1-%CE%B5%CF%85%CF%81%CF%89%CF%80%CE%B1%CF%8A%CE%BA%CF%8C-%CE%AD%CF%81%CE%B3%CE%BF-%CE%B3%CE%B9%CE%B1-%CF%84%CE%B7-%CE%B2%CE%B5%CE%BB%CF%84%CE%AF%CF%89%CF%83%CE%B7-activity-7026179588347064320-q5D3?utm_source=share&utm_medium=member_desktop	01/02/2023	LinkedIn
Regional Development Agency of South Aegean Region	https://www.linkedin.com/feed/update/urn:li:activity:7026842259601993728/	02/02/2023	LinkedIn
CINEA	https://twitter.com/cinea_eu/status/1622618705074028544	02/06/2023	X

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Cetaqua	https://twitter.com/CETAQUA/status/1673338470750646280	26/06/2023	X
FIC	https://twitter.com/FIClima/status/1678720487592013825	11/07/2023	X
Cetaqua	https://twitter.com/CETAQUA/status/1678723047136559104	11/07/2023	X
IREC	https://twitter.com/IREC_Energia/status/1678743299253846017	11/07/2023	X
FIC	https://www.linkedin.com/posts/fundacionparalainvestigacindelclima_icaria-project-activity-7084485307542171648-hoVD?utm_source=share&utm_medium=member_desktop	11/07/2023	LinkedIn
Cetaqua	https://www.linkedin.com/posts/cetaqua_icariaeu-resilience-climate-activity-7084487148405436416-bUTA?utm_source=share&utm_medium=member_desktop	11/07/2023	LinkedIn
Aigües de Barcelona	https://twitter.com/aiguesbcnclient/status/1679093593326141440	12/07/2023	X
Àlex de la Cruz - Aquatec	https://www.linkedin.com/posts/%C3%A0lex-de-la-cruz-coronas-85868115b_icariaeu-resilience-climate-activity-7084777424667705344-7GHi?utm_source=share&utm_medium=member_desktop	12/07/2023	LinkedIn
Regional Development Agency of South Aegean Region	https://www.linkedin.com/posts/development-agency-of-south-aegean-region-read-s-a-412019244_icariaeu-resilience-climate-activity-7084810905443606528-9NlW/?utm_source=share&utm_medium=member_desktop	12/07/2023	LinkedIn
Rita Brito - LNEC	https://www.linkedin.com/posts/rita-brito-636304b3_icaria-project-improving-climate-resilience-activity-7089214377756639232-R40a?utm_source=share&utm_medium=member_desktop	12/07/2023	LinkedIn
Albert Chen - University of Exeter	https://twitter.com/AlbertChen_CWS/status/1679940055756931075	14/07/2023	X

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RSA - Region of South Aegean Press Office	https://www.facebook.com/GrafeioTypouPNAI/posts/pfbid02PiEjpPzpKdHYAmVobq7hvx7x1YFnj6g7uZGrxRiwbmyzn1Va5gTvE3GQUEn8ymPxl	08/09/2023	Facebook
Cetaqua	https://twitter.com/CETAQUA/status/1714175179981484360	17/10/2023	X
Cetaqua	https://www.linkedin.com/posts/cetaqua_icaria-horizoneurope-climatresilience-activity-7119940777031385089-HiOv?utm_source=share&utm_medium=member_desktop	17/10/2023	LinkedIn
Cetaqua	https://twitter.com/CETAQUA/status/1719283837094474113	31/10/2023	X
FIC	https://twitter.com/FIClima/status/1719313513150124243	31/10/2023	X
IREC	https://twitter.com/IREC_Energia/status/1737745801126801885	31/10/2023	X
Cetaqua	https://www.linkedin.com/posts/cetaqua_daedamundialdelasciudades-sostenibles-resilientes-actividad-7125052262397161475-Ahpb?utm_source=share&utm_medium=member_desktop	31/10/2023	LinkedIn
Cetaqua	https://twitter.com/CETAQUA/status/1745768970181816766	12/01/2024	X
Cetaqua	https://www.linkedin.com/posts/cetaqua_artaedculotaezcnico-icariaeu-icariaeu-activity-7151539063643107330-YbJX?utm_source=share&utm_medium=member_desktop	12/01/2024	LinkedIn
IREC	https://twitter.com/IREC_Energia/status/1746799332915921175	15/01/2024	X
FIC	https://twitter.com/FIClima/status/1746858158234943564	15/01/2024	X
Albert Chen - University of Exeter	https://twitter.com/AlbertChen_CWS/status/1747536161247994088	17/01/2024	X
Cetaqua	https://twitter.com/CETAQUA/status/1749847345481605221	23/01/2024	X

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IREC	https://twitter.com/IREC_Energia/status/1750066976771510295	24/01/2024	X
FIC	https://www.linkedin.com/posts/fundacionparalainvestigacindelclima_icariaeu-activity-7156314395302662147-pblG/?utm_source=share&utm_medium=member_desktop	24/01/2024	LinkedIn
FIC	https://twitter.com/FIClima/status/1752345158753137107	30/01/2024	X
Cetaqua	https://twitter.com/CETAQUA/status/1754513617821569531	05/02/2024	X
Cetaqua	https://www.linkedin.com/posts/cetaqua_icariaeu-models-risk-activity-7160281826094129153-85mM?utm_source=share&utm_medium=member_desktop	05/02/2024	LinkedIn
Cetaqua	https://twitter.com/CETAQUA/status/1756999246161568175	12/02/2024	X
IREC	https://twitter.com/IREC_Energia/status/1757048819487809662	12/02/2024	X
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7162767800690839552/?utm_source=share&utm_medium=member_desktop	12/02/2024	LinkedIn
FIC	https://www.linkedin.com/feed/update/urn:li:activity:7176593594080780291	21/03/2024	LinkedIn
FIC	https://x.com/FIClima/status/1770825459456004167?s=20	21/03/2024	X
FIC	https://x.com/FIClima/status/1781289313742860578	19/04/2024	X
Cetaqua	https://www.linkedin.com/posts/cetaqua_icaria-at-the-forefront-of-climate-projections-activity-7188504047715307522-oqqH?utm_source=share&utm_medium=member_desktop	23/04/2024	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1782739015881351493	23/04/2024	X
FIC	https://x.com/FIClima/status/1782788514607743044	23/04/2024	X
IREC	https://www.linkedin.com/posts/institut-de-recerca-en-energia-de-catalunya_icaria-at-the-forefront-of-climate-projections-activity-7188520581556826114-bPh_?utm_source=share&utm_medium=member_desktop	23/04/2024	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1797572685762842940	03/06/2024	X

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Albert Chen - University of Exeter	https://x.com/AlbertChen_CWS/status/1808855745959522572	04/07/2024	X
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7216775903358402560/	10/07/2024	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1811010151106609409	10/07/2024	X
Albert Chen - University of Exeter	https://x.com/AlbertChen_CWS/status/1811055696655311067	10/07/2024	X
FIC	https://x.com/FIClima/status/1810998805984059495	10/07/2024	X
Albert Chen - University of Exeter	https://www.linkedin.com/posts/albertchenexeter_icariaeu-drip-phdacademy-activity-7216824108494282752-9ZTU?utm_source=share&utm_medium=member_desktop	10/07/2024	LinkedIn
Albert Chen - University of Exeter	https://www.facebook.com/albert.chen.exeter/posts/pfbid02JkeXRFaLSNTiRujqDWHGZD1Cza1b4z4UP67p3GgrAG2XSxpL68EFwSRYHUsZ51Xtl	10/07/2024	Facebook
Albert Chen - University of Exeter	https://x.com/AlbertChen_CWS/status/1811055696655311067	10/07/2024	X
Albert Chen - University of Exeter	https://x.com/AlbertChen_CWS/status/1811304360489701881	11/07/2024	X
FIC	https://x.com/FIClima/status/1815733723221909844	23/07/2024	X
FIC	https://www.linkedin.com/feed/update/urn:li:activity:7221497077527101440	23/07/2024	LinkedIn
Cetaqua	https://www.linkedin.com/posts/cetaqua_meet-the-team-%C3%A0lex-de-la-cruz-icaria-project-activity-7223669940241784832-ImOi?utm_source=share&utm_medium=member_desktop	29/07/2024	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1817904232256704685	29/07/2024	X
FIC	https://x.com/FIClima/status/1817861187897356375	30/07/2024	X

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FIC	https://x.com/FIClima/status/1817861190468427940	31/07/2024	X
WATERLINE	https://www.linkedin.com/posts/waterline-digitalh20_waterline-extended-reality-applications-shared-activity-7249821406920593408-N6h4?utm_source=share&utm_medium=member_desktop	10/10/2024	LinkedIn
Cetaqua	https://www.linkedin.com/posts/cetaqua_4-understanding-the-impact-of-complex-activity-7252674151985909762-vfkv?utm_source=share&utm_medium=member_desktop	17/10/2024	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1846908441995972612	17/10/2024	X
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7274837048232968195	17/12/2024	LinkedIn
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7278333815062695938	19/12/2024	LinkedIn
FIC	https://www.linkedin.com/posts/fundacionparalainvestigacindelclima_los-d%C3%ADas-de-calor-extremo-y-las-noches-t%C3%B3rridas-activity-7329091286823546880-hOti?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	15/05/2025	LinkedIn
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7333481033729740801	28/05/2025	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1927720073520685545	28/05/2025	X
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7335243820231450626	02/06/2025	LinkedIn
Cetaqua	https://x.com/CETAQUA/status/1929478353968411068	02/06/2025	X
RSA - Region of South Aegean Press Office	https://www.facebook.com/GrafeioTypouPNAI/posts/pfbid0PYX4Daj38V5Ldp9rp5rW9idvkBUW89pYs4yuFZQJq9NF9crvy3YbDfaXLPjiwUGal	03/06/2025	Facebook

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MAGICA Climate Project	https://www.linkedin.com/posts/magicaclimateproject_ecca2025-climateadaptation-icariaeu-activity-7338550575954898945-62g9?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	15/06/2025	LinkedIn
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7340744866668204033	17/06/2025	LinkedIn
Riskadapt	https://www.linkedin.com/posts/riskadapt_icariaeu-ecca2025-horizoneurope-activity-7340294512172240897-InHu?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	17/06/2025	LinkedIn
MAGICA Climate Project	https://www.linkedin.com/posts/magicaclimateproject_ecca2025-icariaeu-activity-7340730033130336259-ksLb?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	17/06/2025	LinkedIn
MIRACA project	https://www.linkedin.com/posts/miraca-project_ecca2025-horizoneurope-icariaeu-activity-7338576312774656000-sAjC?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	17/06/2025	LinkedIn
Riskadapt	https://www.linkedin.com/posts/riskadapt_riskadapt-special-session-at-ecca2025-activity-7341402318711468032-fYWg?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	23/06/2025	LinkedIn
Veolia España	https://www.linkedin.com/posts/veolia-espa%C3%B1a_aquatec-upc-proyectoicaria-activity-7346130236335386624-80Kr?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	02/07/2025	LinkedIn
Alter! - MAIA Project	https://x.com/AlterResilience/status/1960674448287162719	27/08/2025	X
Alter! - MAIA Project	https://www.linkedin.com/posts/cetaqua_httpsshorturlatydfiu-activity-7371201473713631232-GIvh?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	02/09/2025	LinkedIn
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7371201473713631232	09/09/2025	LinkedIn

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Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7377244153924964353	26/09/2025	LinkedIn
IndustriAmbiente	https://x.com/industriambient/status/2001603258297544844?s=20	18/12/2025	X
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7407763864362041344	19/12/2025	LinkedIn
TecnoAqua	https://x.com/tecnoaqua/status/2003383826266100113?s=20	23/12/2025	X
Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7428064902403239936	13/02/2026	LinkedIn
Cetaqua	https://www.linkedin.com/posts/cetaqua_icariaeu-icariaeu-activity-7428064902403239936--AnL?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	17/02/2026	LinkedIn
Ana Romero - AMB	https://www.linkedin.com/posts/aromerocalix_icariaeu-icariaeu-activity-7429917580968173568-pv-9?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	18/02/2026	LinkedIn
Beniamino Russo - UPC	https://www.linkedin.com/posts/beniamino-russo-25b8a77a_climateresilience-criticalinfrastructure-activity-7429864774081011713-W70c?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	19/02/2026	LinkedIn
CARDIMED	https://www.linkedin.com/posts/cardimed-eu_cardimed-icariaeu-icariaeu-activity-7431956072623636480-iMcc?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	27/02/2026	LinkedIn
ICT4Water	https://bsky.app/profile/ict4water.bsky.social/post/3mgae2vmxls2w	04/03/2026	Bluesky
Albert Chen - University of Exeter	https://www.linkedin.com/posts/albertchenexeter_icaria-climate-resilience-activity-7438151607655194625--wbd?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	13/03/2026	LinkedIn

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Cetaqua	https://www.linkedin.com/feed/update/urn:li:activity:7439302152503734272	16/03/2026	LinkedIn
Veolia España	https://www.linkedin.com/feed/update/urn:li:activity:7439296349654855680/	16/03/2026	LinkedIn
Veolia España	https://x.com/Veolia_Es/status/2033533825473466722?s=20	16/03/2026	X
Beniamino Russo - UPC	https://www.linkedin.com/posts/beniamino-russo-25b8a77a_climateresilience-criticalinfrastructure-activity-7439358576575447040-eZ3Z?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	16/03/2025	LinkedIn
iAgua	https://www.linkedin.com/posts/iagua_cambioclimaertico-inundaciones-barcelona-activity-7439264211014275072-2xWs?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	16/03/2026	LinkedIn
RETEMA	https://x.com/RevistaRETEMA/status/2033560850343121379?s=20	16/03/2026	X
FIC	https://www.linkedin.com/posts/fundacionparalainvestigacindelclima_icaria-cetaqua-activity-7439338023034560512-6wi-?utm_source=share&utm_medium=member_desktop&rcm=ACoAAA_CqRoBaL4tibLYu4qrLxTsZKI0A6q5Xb4	17/03/2026	LinkedIn
Aguas Residuales	https://www.linkedin.com/posts/aguasresiduales-info_inundaciones-cambioclimaertico-resiliencia-activity-7439720963598000128-wn4U?utm_source=share&utm_medium=member_desktop&rcm=ACoAAGOLC44B2PPRjHOiLoD4yEk3keroS9xqcZM	17/03/2026	LinkedIn
Crónica Global	https://www.facebook.com/cronicaglobalcom/posts/el-proyecto-icaria-advierte-que-el-riesgo-de-inundaciones-graves-en-barcelona-po/1357509939736299/	17/03/2026	Facebook

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Table A.4. Full list of attended scientific events and work presented

Event	Date	City	Website	Organiser	Attendants	Format	Partner/s involved	Authors	Abstract presented	Publication (if applicable)
ECCA 2023	19/06/2023	Dublin (Ireland)	x	JPI Climatic - MAGICA project	Aquatec	Poster	Aquatec Cetaqua UNINA UNEXE LNEC AIT DEMOKRITOS	B. Russo (UPC) A. de la Cruz (AQUA) M.Guerrero (CETAQUA) D. Pacheco (CETAQUA) M. Leone (UNINA) B. Evans (UNEXE) R. Salgado ((LNEC) D. Havlik (AIT) T. Sfetsos (DMKTs)	ICARIA: Improving climate resilience of critical assets	n.a.
JIA 2023	18/10/2023	Cartagena (Spain)	https://jia2023.upct.es/	Universidad Politécnica de Cartagena	Aquatec	Oral	Aquatec UPC AMB Cetaqua	Àlex de la Cruz (Aquatec) Beniamino Russo (UPC) Elena Veza (AMB) Adriana Romero (Cetaqua	Proyecto ICARIA: Mejora de la resiliencia climática de infraestructuras críticas	Abstract available at https://www.icaria-project.eu/downloads/#publications
XXXVI Jornadas Científicas de la Asociación Meteorológica Española	13/03/2024	Cádiz and San Fernando (Spain)	https://jornadas.ame-web.org/	AME	FIC	Oral	FIC Aquatec	Carlos Prado (FIC) Darío Redolat (FIC) Lorena Galiano (FIC) Beniamino Russo (UPC) Àlex de la Cruz	High-resolution climate services for improving climate resilience of critical assets	Abstract available at https://www.icaria-project.eu/downloads/#publications

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								(Aquatec)	(ICARIA project)	
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
EGU General Assembly 2024	14/04/2024	Vienna (Austria)	https://www.egu24.eu/	European Geosciences Union	AIT	Oral	AIT FIC	Marianne Bügelmayer-Blaschek (AIT) Kristofer Hasel (AIT) Johann Züger (AIT) Robert Monjo (AIT) César Paradinas (FIC)	Local climate change impacts - new insights for mountain regions of Salzburg based on high resolution climate simulations	https://doi.org/10.5194/egusphere-egu24-12824
EGU General Assembly 2024	14/04/2024	Vienna (Austria)	https://www.egu24.eu/	European Geosciences Union	UNINA	Oral	UNINA Aquatec AIT DEMOKRITOS	Agnese Turchi (UNINA) Amanda Tedeschi (UNINA) Daniela De Gregorio (UNINA) Giulio Zuccaro (UNINA) Àlex de la Cruz (Aquatec) Marianne Bügelmayer-Blaschek (AIT) Ioannis Zarikos (DEMOKRITOS) Mattia	A Holistic Asset-Level Modelling Framework for a Comprehensive Multi-Hazard Risk/Impact Assessment: Insights from the ICARIA Project	https://doi.org/10.5194/egusphere-egu24-10353

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								Leone (UNINA)		
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
EGU General Assembly 2024	14/04/2024	Vienna (Austria)	https://www.egu24.eu/	European Geosciences Union	AIT	Oral	UNEXE Aquatec PLINIVS AIT	Barry Evans (UNEXE) Albert Chen (UNEXE) Àlex De La Cruz (Aquatec) Beniamino Russo (UPC) Agnese Turchi (UNINA) Mattia Leone (UNINA) Marianne Büegelmayer-Blaschek (AIT)	Bayesian Network Approach for Assessing Probability of Multi-Hazard Climate Driven Events	https://doi.org/10.5194/egusphere-egu24-18959
EGU General Assembly 2024	14/04/2024	Vienna (Austria)	https://www.egu24.eu/	European Geosciences Union	UNINA	Oral	Aquatec UNEXE UNINA AIT	Àlex de La Cruz (Aquatec) Beniamino Russo (UPC) Barry Evans (UNEXE) Agnese Turchi (UNINA) Mattia Leone (UNINA) Marianne Buegelmayer-Blaschek (UNINA)	An approach to modeling interactions between extreme weather events during multi-hazard events	https://doi.org/10.5194/egusphere-egu24-20217
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s**	**Authors**	**Abstract**	**Publication**

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							involved		presented	(if applicable)
iAHR 2024	04/06/2024	Lisbon (Portugal)	https://www.iahr2024.lnec.pt/	IAHR and LNEC	LNEC	Oral	LNEC DEMOKRITOS Aquatec UPC	Rita Brito (LNEC) Maria Adriana Cardoso (LNEC) Athanasios Sfetsos (DEMOKRITOS) Àlex de la Cruz (Aquatec) Beniamino Russo (UPC)	Inclusion of natural areas in a holistic resilience assessment framework. The case of Barcelona Metropolitan Area within ICARIA project	Abstract available at https://www.icaria-project.eu/downloads/#publications
ICUD 2024	9/06/2024	Delft (Netherlands)	https://icud2024.org/	ICUD	UPC	Poster	Aquatec UPC	Àlex de la Cruz Beniamino Russo (UPC)	ICARIA: Improving Climate Resilience of Critical Assets	Abstract available at https://www.icaria-project.eu/downloads/#publications
Interpraevent 2024	10/06/2024	Vienna (Austria)	https://interpraevent2024.at	Internationale Forschungsgesellschaft INTERPRAEVENT	AIT	Oral	AIT	Marianne Bügelmayer-Blaschek Kristofer Hasel Johann Züger	Local climate change impacts - new insights for Salzburg based on high resolution climate	Paper available at https://www.icaria-project.eu/downloads/#publications

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									simulations and damage assessment	
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
International conference on NBS for water management and climate adaptation	05/07/2024	Belgrade (Serbia)	https://www.nbs4waterandclimate.eu/	RECONECT Network	Aquatec	Oral	LNEC Aquatec AMB UPC	Rita Brito (LNEC) Maria Adriana Cardoso (LNEC) Patricia Molina (Aquatec) Alex de la Cruz (Aquatec) Elena Veza (AMB) Beniamino Russo (UPC)	Inclusion of natural areas in a holistic resilience assessment framework. The case of Barcelona Metropolitan Area within ICARIA project	Extended abstract available at https://www.icaria-project.eu/downloads/#publications
Venice International University PhD Academy on Water and Climate Resilience	08/07/2024	Venice (Italy)	https://news.exeter.ac.uk/faculty-of-environment-science-and-economy/engineering-faculty-of-environment-science-and	UNEXE	UNEXE	Presentation	UNEXE	Albert Chen (UNEXE)	Multi-hazard modelling approach developed in ICARIA	-

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			-economy/exeter-coordinates-international-capacity-building-activity-in-climate-change-and-resilience-for-future-scientists/							
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
EMS Annual Meeting	04/09/2024	Barcelona (Spain)	https://www.ems2024.eu/	European Meteorological Society	FIC	Abstract	FIC	David Santuy (FIC) Robert Monjo (FIC) Darío Negro (FIC)	Monofractal technique to assess extreme precipitation concentration: A reference study of Barcelona (Spain)	https://meetingorganizer.copernicus.org/EMS2024/EMS2024-551.html
EMS Annual Meeting	04/09/2024	Barcelona (Spain)	https://www.ems2024.eu/	European Meteorological Society	FIC	Abstract	FIC	Lorena Galiano (FIC) Robert Monjo (FIC) Dominic Royé (FIC) Javier Martin-Vide (FIC)	Future changes in global drought fractality	https://meetingorganizer.copernicus.org/EMS2024/EMS2024-794.html

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Event	Date	City	Website	Organiser	Attendants	Format	Partner/s involved	Authors	Abstract presented	Publication (if applicable)
Research exchange workshop between UNEXE and Environment Agency	05/09/2024	Exeter (UK)	-	UNEXE	UNEXE and EA	Presentation	UNEXE	Albert Chen (UNEXE)	Multi-hazard modelling and impact assessment for climate resilience	-
InterJIA2024	23/10/2024	Madrid (SP)	https://www.iahr.org/index/detail/1425	IAHR España	Aquatec	Presentation	Aquatec UPC	Àlex de La Cruz (Aquatec) Beniamino Russo (UPC)	Modelo hidrodinámico 1D/2D del Área Metropolitana de Barcelona	Abstract available at https://www.iahr.org/library/infor?pid=30458
Blue Planet Berlin Water Dialogues	28/11/2024	Online	https://blueplanetberlin.de/review-urban-water-resilience-2024/	Blue Planet	UPC	Roundtable	UPC	Beniamino Russo (UPC)	-	https://www.youtube.com/watch?v=Cd8Fzg72UEA&t=2s
LESAM 2025	28/04/2025	Cyprus (Cyprus)	https://iwacyprus2025.com/	IWA Neapolis University Pafos	LNEC	Abstract	LNEC	Rita Brito (LNEC) Maria Adriana Cardoso (LNEC)	Interactions between urban water services and natural	Abstract available at https://www.icaria-project.eu

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				Technical University of Crete					areas for asset management and resilience assessment	/downloads/#publications
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
LESAM 2025	28/04/2025	Cyprus (Cyprus)	https://iwacyprus2025.com/	IWA Neapolis University Pafos Technical University of Crete	LNEC	Abstract	LNEC	Rita Brito (LNEC) Maria Adriana Cardoso (LNEC)	Leveraging synergies between asset management of stormwater systems and natural areas to increase resilience to climate change.	Abstract available at https://www.icaria-project.eu/downloads/#publications
EGU General Assembly 2025	27/04/2025	Vienna (Austria)	https://www.egu25.eu/	European Geosciences Union	LNEC	Abstract	Aquatec AIT KNOWING Project Riskadapt Project	Àlex de La Cruz (Aquatec) Beniamino Russo (UPC) Barry Evans (UNEXE) Albert Chen (UNEXE) Jess Penny (UNEXE)	An approach to modeling interactions between extreme weather events during multi-hazard events	Abstract available at https://www.icaria-project.eu/downloads/#publications

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EGU General Assembly 2025	27/04/2025	Vienna (Austria)	https://www.egu25.eu/	European Geosciences Union	LNEC	Abstract	LNEC	Ana Mendes (LNEC) Rita Salgado Brito (LNEC) Anabela Oliveira Maria Adriana Cardoso (LNEC)	ICARIA RAF App – A user-friendly and holistic web tool to strengthen climate resilience of critical urban and natural assets and services.	Abstract available at https://www.icaria-project.eu/downloads/#publications
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
ECCA 2025	16/06/2025	Rimini (Italy)	https://networknature.eu/networknature/event/ecca2025---european-climate-change-adaptation-conference	Network Nature	LNEC Aquatec UNINA Cetaqua	Chairing session	LNEC Aquatec UNINA Cetaqua Riskadapt Project MIRACA Project	-	-	-

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UDM 2025	15/09/2025	Innsbruck (Austria)	https://www.uibk.ac.at/en/congress/udm2025/	University Innsbruck IWGDM	Aquatec	Abstract	Aquatec	Àlex de la Cruz Corona (Aquatec)	Large-scale 1D/2D coupled model for the Barcelona Metropolitan area: development and data-gap filling methods	Abstract available at https://www.icaria-project.eu/downloads/#publications
Event	**Date**	**City**	**Website**	**Organiser**	**Attendants**	**Format**	**Partner/s involved**	**Authors**	**Abstract presented**	**Publication (if applicable)**
Resiliencia de Infraestructuras ante el Cambio Climático	20/10/2025	Barcelona (Spain)	https://railgrup.net/events/jornada-resiliencia-de-infraestructuras-ante-el-cambio-climatico/	InMove by Railgrup Col·legi d'Enginyers de Camins, Canals i Ports	FIC	Presentation	FIC	César Paradinas (FIC)	La importancia de los escenarios climáticos en el análisis de impactos derivados en infraestructura	-
JIA 2025	22/10/2025	Zaragoza (Spain)	https://eventos.unizar.es/111082	IAHR	Aquatec	Abstract	Aquatec UPC	Àlex de la Cruz Coronas (Aquatec) Beniamino Russo (UPC)	Modelo acoplado 1D/2D a gran escala para el Área	Abstract available at https://www.icaria-project.eu

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									Metropolitana de Barcelona: desarrollo y métodos de "data gap filling"	/downloads/#publications
Innovació per al futur de l'aigua	20/01/2026	Barcelona (Spain)	https://youtu.be/ZuxevZQKQus?si=P2t2DDEPWwCAnwJN	Aigües de Barcelona	Aquatec	Presentation	Aquatec	Beniamino Russo	ICARIA	-

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Table A.5. Full list of published peer-reviewed scientific publications

Article title	Partner/s involved	Authors	Journal	Publication date	Link
Quantifying the Long-Term Performance of Rainwater Harvesting in Cyclades, Greece	DEMOKRITOS	Ioannis Zarikos (DEMOKRITOS) Nadia Politi (DEMOKRITOS) Nikolaos Gounaris (DEMOKRITOS) Stelios Karozis (DEMOKRITOS) Diamando Vlachogiannis (DEMOKRITOS) Athanasios Sfetsos (DEMOKRITOS)	Water	24/08/2023	https://www.mdpi.com/2073-4441/15/17/3038
Improving Climate Resilience of Critical Assets: The ICARIA Project	UPC Aquatec UNINA UNEXE LNEC AIT Cetaqua DEMOKRITOS	Beniamino Russo (UPC) Àlex de la Cruz Coronas (Aquatec) Mattia Leone (UNINA) Barry Evans (UNEXE) Rita Salgado Brito (LNEC) Denis Havlik (AIT) Marianne Bügelmayer-Blaschek (AIT) David Pacheco (Cetaqua) Athanasios Sfetsos (DEMOKRITOS)	Sustainability	22/09/2023	https://www.mdpi.com/2071-1050/15/19/14090
HISDAC-ES: historical settlement data compilation for Spain (1900–2020)	FIC	Johannes H. Uhl (FIC) Dominic Royé (FIC) Keith Burghardt (FIC)	Earth System Science Data	26/10/2023	https://essd.copernicus.org/articles/15/4713/2023/

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		José A. Aldrey Vázquez (FIC) Manuel Borobio Sanchiz (FIC) Stefan Leyk (FIC)			
Temporal distribution of extreme precipitations in Barcelona (Spain) under multi-fractal n-index with breaking point	FIC	Benoît Gacon (FIC) David Santuy (FIC) Darío Redolat (FIC)	Atmosphere	4/7/2024	https://www.mdpi.com/2073-4433/15/7/804
A holistic asset-level modelling framework for a comprehensive multi-hazard risk/impact assessment: Insights from the ICARIA project	UNINA AIT DEMOKRITOS Aquatec UPC	Mattia Federico Leone (UNINA) Giulio Zuccaro (UNINA) Daniela De Gregorio (UNINA) Agnese Turchi (UNINA) Amanda Tedeschi (UNINA) Marianne Büegelmayer-Blaschek (AIT) Athanasios Sfetsos (DEMOKRITOS) Ioannis Zarikos (DEMOKRITOS) Alex de la Cruz Coronas (Aquatec) Beniamino Russo (UPC)	International Journal of Disaster Risk Reduction	21/02/2025	https://www.sciencedirect.com/science/article/pii/S2212420925001438?via%3Dihub
Future climate projections for South Aegean and Salzburg region based on statistical and dynamical downscaling – similarities and discrepancies	AIT FIC	Marianne Bügelmayer-Blaschek (AIT) Kristofer Hasel (AIT Darío Redolat (FIC) César Paradinas (FIC) Robert Monjo (FIC)	Environmental Research Communications	3/6/2025	https://iopscience.iop.org/article/10.1088/2515-7620/addc3f/meta

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Blueprint for evaluating the climate resilience of natural areas	LNEC Aquatec UNINA	Rita Salgado Brito (LNEC) Maria Adriana Cardoso (LNEC) Alex de la Cruz-Coronas (Aquatec) Mattia Federico Leone (UNINA) Agnese Turchi (UNINA) Amanda Tedeschi (UNINA) Patricia Molina Lopez (Aquatec)	Blue-Green Systems	9/9/2025	https://iwaponline.com/bgs/article/7/2/323/109498/Blueprint-for-evaluating-the-climate-resilience-of
Metodología para la cuantificación económica de daños tangibles directos provocados por inundaciones en estaciones depuradoras de agua residual. Aplicación en el Área Metropolitana de Barcelona	UPC Aigües de Barcelona	Guillem Flor Tey (UPC) Eduardo Martínez-Gomariz (UPC) Beniamino Russo (UPC) Joaquín Bosque Royo (Aigües de Barcelona)	Ingeniería del Agua	31/10/2025	https://polipapers.upv.es/index.php/IA/article/view/24361/17845
Synthetic Sewer Networks for Pluvial Flood Assessment inUrban Areas: A Data Gap Filling Methodology	Aquatec UPC	Àlex de la Cruz-Coronas (Aquatec) Beniamino Russo (UPC)	Hydrological Processes	21/12/2025	https://onlinelibrary.wiley.com/doi/full/10.1002/hyp.70365
Climate Resilience Assessment in Regions, Cities, Strategic Services, and Critical Infrastructure: Implementation and Outcomes	LNEC Aquatec AIT AMB	Rita Salgado Brito (LNEC) Maria Adriana Cardoso (LNEC) Ana Mendes (LNEC) Anabela Oliveira (LNEC) Alex de la Cruz-Coronas (Aquatec) Marianne Bügelmayer-Blaschek (AIT)	Sustainability	06/02/2026	https://www.mdpi.com/2071-1050/18/3/1701

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		Elena Veza (AMB)			
Flood hazard assessment on wastewater treatment plants: a case study of the Metropolitan Area of Barcelona (Spain)	UPC Aigües de Barcelona AMB	Guillem Flor Tey (UPC) Eduardo Martínez-Gomariz (UPC) Joaquín Bosque Royo (Aigües de Barcelona) Elena Veza (AMB)	Natural Hazards	02/03/2026	https://link.springer.com/article/10.1007/s11069-026-08010-2
Wildfire Risk Assessment in the Mediterranean Under Climate Change	DEMOKRITOS	Ioannis Zarikos (DEMOKRITOS) Nadia Politi (DEMOKRITOS) Effrosyni Karakitsou (DEMOKRITOS) Eirini Barianaki (Panteion University of Social and Political Sciences) Nikolaos Gounaris (DEMOKRITOS) Diamando Vlachogiannis (DEMOKRITOS) Athanasios Sfetsos (DEMOKRITOS)	Fire	23/03/2026	https://www.mdpi.com/2571-6255/9/3/135

Table A.6. Full list of activities under Task 5.3

Activities	Target audience	Partner/s involved	External parties involved	Date	Link
MIRACA participation in ICARIA's KoM	ICARIA consortium	All partners	MIRACA Consortium	20/01/2023	n.a.

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ICARIA Publication in ICT4Water newsletter	Water and climate resilience research community	Aquatec, UPC, Cetaqua	ICT4Water cluster	01/09/2023	https://preview.mailerlite.com/v3i9n6n9p1
ICARIA's participation in CLIMEMPOWER's KoM	CLIMEMPOWER consortium	AQUA	CLIMEMPOWER Consortium	04/10/2023	n.a.
MYRIAD participation in ICARIA's 2nd plenary meeting	ICARIA consortium	All partners	MYRIAD Consortium	17/01/2024	n.a.
ECCA sister projects roundtable (ICARIA, MIRACA and RISKADAPT)	Climate resilience research community	AQUA, UPC	MIRACA and RISKADAPT coordinators	17/06/2025	https://www.ecca2025.eu/programme
ICARIA Publication in ICT4Water newsletter	Water and climate resilience research community	Aquatec, UPC, Cetaqua	ICT4Water cluster	22/12/2025	https://preview.mailerlite.io/emails/webview/788923/174516093933585472
ICARIA Publication in MIP4Adapt newsletter	Water and climate resilience research community	Aquatec, UPC, Cetaqua	MIP4Adapt cluster	05/03/2026	https://ec.europa.eu/newsroom/clima/newsletter-archives/72869

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Annex B: Data management statement

Table B.1. Data used in preparation of ICARIA Deliverable 5.2.

Dataset name	Format	Size	Owner and re-use conditions	Potential utility within and outside ICARIA	Unique ID
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Table B.2. Data produced in preparation of ICARIA Deliverable 5.2.

Dataset name	Format	Size	Owner and re-use conditions	Potential utility within and outside ICARIA	Unique ID
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

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Improving climate resilience of critical assets

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