



I-CISK
HUMAN CENTRED CLIMATE SERVICES

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I-CISK

Innovating Climate services through Integrating Scientific and local Knowledge

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1 Introduction

Climate change is reshaping societies, economies, and ecosystems, creating urgent demand for knowledge and tools that enable communities to adapt. While scientific advances provide ever more accurate climate information, their true value emerges only when this knowledge is translated into services that people can understand, trust, and act upon. Meeting this challenge requires a new generation of climate services - human-centred, participatory, and tailored to the realities of diverse users.

The I-CISK project was established to respond to this need. Its mission has been to co-design climate services together with stakeholders, ensuring that they are scientifically robust, grounded in local knowledge, and responsive to real-world decision-making contexts. Across seven Living Labs in Europe and Africa, I-CISK collaborated with water managers, farmers, providers, organizations, municipalities, and citizen groups to develop climate services that address pressing risks, including droughts, floods, and heatwaves.

From the outset, communication and dissemination played a central role in the project. A strategic, audience-centred approach was adopted to ensure that knowledge, tools, and innovations reached the right people in the right way. Scientific communities, policymakers, practitioners, NGOs, and local citizens were all engaged through tailored messaging, participatory events, conferences, digital media, and interactive learning formats. In doing so, I-CISK bridged the gap between climate science and practical adaptation, amplifying both the visibility and the uptake of its outputs.

This report presents the project's achievements in communication, dissemination, and engagement. It outlines the strategies developed to reach diverse audiences, the knowledge shared through publications and events, and the innovative audio-visual and educational tools created to build capacity and awareness. Finally, it reflects on the pathways through which I-CISK ensures long-term impact and sustainability, leaving behind not just results, but a legacy of co-creation practices and partnerships that will continue to shape the climate services community in years to come.

2 Strategic Approach to Communication and Dissemination

2.1 Reaching Key Audiences with Tailored Messages

Direct Beneficiaries in the Living Labs: The most immediate impact was achieved within the Living Labs (LLs), where stakeholders co-created and tested pre-operational climate services (CS). River basin authorities, water utilities, energy providers, irrigation boards, municipalities, environmental agencies, humanitarian organizations, and citizen groups were not only end-users but also active co-designers. Their involvement guaranteed that project outputs were both effective and reliable, scientifically sound and directly applicable to real-world challenges.

Indirect Beneficiaries in the Climate Services Ecosystem: Beyond the LLs, the project engaged with a broader group of actors who gained from the dissemination and use of results. These included public and private organizations, NGOs, farmers, and the larger CS developer community. Special focus was placed on strategic alignment with Copernicus and GEOSS, integrating I-CISK tools, user stories, and lessons learned into European and global climate service frameworks.

Regional, National, and International Multipliers: The project's impact extended across borders through knowledge sharing with stakeholders in neighbouring basins and countries. Public agencies, businesses, planning authorities, academic institutions, and business associations were reached via international networks of project partners, ensuring that I-CISK results could inspire replication, upscaling, and cross-sectoral learning.

Local Communities and the Wider Public: At the local level, communities within the LLs experienced direct benefits from improved well-being, resilience, and economic opportunities linked to the uptake of CS. At the same time, communication activities brought climate adaptation and service innovation into the public sphere. This helped strengthen public awareness of the importance of climate services while positioning I-CISK as a reference point for societal dialogue on climate change.

Key Target Groups Reached

In practice, these stakeholder levels translated into various target audiences, including:

- **Climate service providers and developers** – national hydrometeorological services, environmental agencies, and private CS companies.
- **Policy and decision makers** – ministries, planning authorities, and local/regional governments such as the Guadalquivir River Basin Authority, Emilia Romagna Region, and Akhmeta Municipality.
- **Scientific and academic communities** – universities, research institutes, and professional networks (EGU, Telavi State University, Technical University of Crete).
- **Economic and social actors** – farming cooperatives, livestock producers, irrigation boards, protected area managers, forestry users, and tourism representatives.
- **Civil society and the media** – NGOs (e.g., Clean Air Action Group), community organizations, journalists, and outreach platforms.
- **International organizations and projects** – ECMWF, Copernicus, GEOSS, and EU-funded sister projects, ensuring alignment and mutual learning.

The consortium itself, composed of leading research institutes, agencies, and NGOs (e.g., SMHI, ECMWF, VUA, IHE Delft, Red Cross 510, CREAM, Uppsala University), served as powerful multipliers. Their established networks amplified the project's visibility and ensured that communication efforts extended beyond the immediate project boundaries.

Core Messages Delivered Across Audiences

While tailored to each group, the communication consistently conveyed two overarching messages:

1. **Integration of knowledge and needs** – Climate services are most effective when they reflect the perceptions, knowledge, and requirements of citizens, decision makers, and stakeholders, combined with robust climate information at appropriate scales.
2. **Human-centred innovation** – The next generation of climate services must be socially and behaviourally informed, making climate information usable, actionable, and impactful across different sectors and communities.

Across all stakeholders and audiences, I-CISK consistently conveyed the following specific messages:

- **Co-creation is essential** – Engaging stakeholders in co-creation ensures climate services are relevant, usable, and grounded in local realities.
- **Local knowledge matters** – Effective climate services must integrate local knowledge, as it provides essential insights into risks, and vulnerabilities. Recognising lived experiences, and observations ensures services are trusted, relevant, and actionable.
- **Understanding drivers and barriers** – Successful uptake of climate services requires recognizing and addressing the needs, knowledge, and behaviours of users.
- **Actionable climate information** – Climate data becomes impactful when integrated with local knowledge and translated into practical guidance.
- **Participatory approaches strengthen resilience** – Involving users and stakeholders in decision-making enhances the robustness and effectiveness of services.
- **Sustainability through viable models** – Embedding climate services in appropriate business and operational frameworks ensures long-term impact.
- **Strategic communication amplifies impact** – Well-planned dissemination and outreach activities transform project results into lasting societal, scientific, and policy influence.

These messages were consistently integrated into communication and dissemination activities, ensuring that I-CISK outputs informed decision-making, strengthened the European and global climate services community, and increased public awareness on climate adaptation.

2.2 Maximizing Outreach through Tools and Channels

To ensure that project results reached the right audiences and generated tangible impact, I-CISK implemented a diverse and strategic set of communication tools and channels. These were designed to meet the needs of different stakeholders, ranging from direct beneficiaries in the Living Labs to the broader public, policymakers, and the global climate services community.

Direct Engagement Tools: Face-to-face interactions and online events were central to fostering understanding, collaboration, and ownership among stakeholders. Workshops, roundtables, community meetings, webinars, and online seminars provided spaces for co-creation, discussion of needs, and feedback on climate services. These direct engagements helped to build trust and strengthen long-term uptake of project outputs.

Media and Digital Outreach: I-CISK utilized a range of digital channels to maximize visibility and engagement. These included the project website, social media platforms (LinkedIn, X, ResearchGate), e-newsletters, and dedicated mailing lists. Through these channels, the project continuously shared updates, milestones, and stories with a broad and diverse audience, ensuring wide access to project results and fostering interaction with both specialist and non-specialist stakeholders.

Printed and Visual Materials: Awareness and understanding of the project's goals were reinforced through tangible communication products such as brochures, flyers, policy briefs, and other visibility materials. LL-specific factsheets highlighted progress and impacts in Living Labs, ensuring that stakeholders could see the results of co-produced climate services.

Storytelling and Knowledge Sharing: To communicate complex concepts to both specialist and non-specialist audiences, I-CISK employed narrative-based tools, including success stories and mini-documentaries. These approaches made human-centred climate services tangible and relatable, inspiring uptake and replication beyond the immediate project context.

Scientific and Policy Publications: The project produced scientific publications and policy briefs to reach academic, research, and policy communities. These publications shared new insights, methodologies, and outcomes, demonstrating the value of the project's co-creation approach while influencing decision-making at local, national, and European levels.

Capacity Building: Training and education tools, including workshops, guidelines, and a Massive Open Online Course (MOOC), allowed broader audiences to understand and replicate the co-creation framework for human-centred climate services. This ensured that knowledge generated by I-CISK was transferable and sustainable beyond the project lifetime.

Internal Communication and Coordination: Effective communication within the consortium was maintained through dedicated mailing lists, document-sharing platforms, face-to-face and virtual meetings, and teleconferences. This internal coordination enabled timely information exchange, efficient task implementation, and collaborative learning among partners.

By combining direct engagement, media outreach, storytelling, publications, and capacity-building tools, I-CISK successfully disseminated its results to a wide range of stakeholders. These complementary channels ensured that climate services developed in the project were widely understood, adopted, and positioned to have a lasting impact across communities, sectors, and borders.

2.3 Strengthening Project Identity and Visibility

A strong and coherent project identity was central to I-CISK’s communication strategy. The digital presence and visual identity of the project were designed to ensure consistency, recognition, and credibility across all communication channels, while making project outputs easily accessible to a wide range of audiences.

Digital Presence: The project website (www.icisk.eu) continues to serve as the primary gateway for communication and dissemination. It presents the project’s ambition, objectives, methodology, and participating partners, and provides direct access to contact information. The website also highlights updates on project activities, news items, creating a continuous flow of information to the stakeholder community. Dedicated sections showcase the Living Labs, while another area summarizes project outcomes and impacts, ensuring that both scientific results and practical applications are clearly visible to users.

Social Media Engagement: I-CISK established a strategic presence on key professional social media platforms, including X, LinkedIn, and ResearchGate. These channels allowed the project to broadcast updates, share success stories, and engage directly with the climate services community of research and practice. Rather than creating a dedicated Facebook page, which was found to be less effective for professional audiences, partners leveraged personal Facebook accounts in contexts where the platform is widely used for professional networking.

By combining these digital platforms, the project enhanced visibility, strengthened stakeholder engagement, and created a recognizable, coherent brand. All digital and visual elements adhered to consistent templates and guidelines, ensuring that reports, presentations, and online materials maintained a unified character. This approach reinforced I-CISK’s identity as a credible, innovative, and impactful project within the European and global climate services landscape.

Project Handles and Links:

- **X:** @icisk_eu (note that in recent years, X (formerly Twitter) has no longer actively been used).
- **LinkedIn:** [I-CISK LinkedIn](#)
- **ResearchGate:** [I-CISK ResearchGate](#)

Visual Identity: The I-CISK visual identity conveyed the project’s mission and reinforced recognition across all communication materials. The project logo features three interlocked spirals forming a globe, symbolizing global interconnectedness and cyclonic weather patterns. The colour scheme consists of **blue, green, and orange**, with blue and green representing water and ecosystems, and orange used sparingly to signify earth and drought conditions. Text is black on white backgrounds, while coloured elements are paired with white text for readability.

Consistent branding was maintained through Word and PowerPoint templates for reports, deliverables, and presentations. These templates applied the project’s colour scheme and design principles, ensuring a professional and unified visual presentation. Guidelines for logo usage, colour application, and overall visual



identity are detailed in [Deliverable D6.2](#) (I-CISK Website, Internal Communication Package, Visual Identity, and Logo).

Visibility of EU Funding: All dissemination of results prominently displayed the EU emblem with the following acknowledgment: *“This project has received funding from the European Union’s Horizon 2020 Research and Innovation Programme under grant agreement No 101037293.”*

Displayed alongside project materials to acknowledge Horizon 2020 support.

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101037293



2.4 Conclusion and key take-aways

I-CISK implemented a strategic, audience-focused communication approach to maximize the visibility, uptake, and impact of its outputs. The project combined tailored messaging with diverse engagement methods—digital channels, storytelling, and participatory events—to reach direct beneficiaries in the Living Labs, broader stakeholder networks, and the wider public.

A consistent project identity, including a strong digital presence, professional social media engagement, unified visual branding, and clear EU funding acknowledgment, ensured that all outputs were recognizable, credible, and professionally communicated. Together, these elements formed a robust framework for dissemination, enabling project knowledge, tools, and innovations to be widely shared, understood, and applied.

Key Takeaways

- **Audience-Centred Approach:** Stakeholders and target audiences were carefully identified and grouped, enabling tailored messages that resonated with each group and encouraged engagement.
- **Effective Engagement:** Direct beneficiaries in the Living Labs actively co-produced climate services, while indirect stakeholders and broader communities were reached through targeted online communication, storytelling, and participatory events.
- **Digital and Online Focus:** A strong digital presence, including the project website, social media platforms, e-newsletters, and online courses, ensured wide accessibility and continuous interaction with diverse audiences.
- **Consistent Visual Identity:** Logos, colour schemes, templates, and branding guidelines reinforced project recognition and professionalism across all communication materials.
- **EU Funding Visibility:** All dissemination activities prominently acknowledged the European Union’s support, enhancing credibility and transparency.

Impact-Oriented Dissemination: By combining tailored messaging, strategic communication tools, and strong branding, I-CISK ensured that knowledge, tools, and lessons learned were widely shared and applied, generating lasting societal, scientific, and policy impact.

3 Expanding the Project Presence at Conferences and Events

3.1 Advancing Knowledge in Scientific Forums

Throughout its implementation, I-CISK actively contributed research findings and innovations to a broad spectrum of international and regional scientific events, strengthening the visibility and impact of the project within the climate services and adaptation communities. Participation in major forums, including the **European Geophysical Union (EGU) General Assemblies**, the **International Association of Hydrological Sciences (IAHS) Conference**, the **European Meteorological Society Annual Meeting**, and the **WaterNet/WARFSA/GWP-SA Symposium**, enabled the project to showcase advances in co-producing human-centred climate services, integrating local and scientific knowledge, and applying participatory approaches for water and land management.

In addition, sector-specific conferences such as the **International Congress on Extensive Livestock Farming and Climate Change**, the **Iberian Congress of Water Planning and Management**, and the **Iberian Groundwater Congress (CIAS 2024)** provided opportunities to demonstrate how I-CISK outputs translate into practical solutions for drought management, sustainable agriculture, and resilient water governance. These interactions highlighted the real-world relevance of the Living Labs and the project's capacity to co-design actionable climate services with end-users.

I-CISK also engaged with policy and innovation-focused audiences through events such as the **OGC Innovation Days**, **OGC Disaster Pilot Demo Day**, and the **Adaptation Futures Conference**, bridging the gap between scientific research and decision-making. Participation in global scientific gatherings like the **World Climate Research Programme Open Science Conference**, **Geospatial World Forum**, and the **International Conference on Natural Hazards and Risks in a Changing World** further strengthened international collaboration, knowledge exchange, and cross-sectoral learning.

The project has successfully fostered emerging talent and high-quality research outputs. For example, a **PhD student at UCM working in the Spanish Living Lab received recognition for best presentation at the Iberian Congress**, illustrating I-CISK's role in nurturing the next generation of climate services researchers.

In total, I-CISK participated in **26 scientific events**, presenting **51 conference contributions**, all detailed in the appendix. Collectively, these contributions reflect I-CISK's sustained engagement with the global scientific community. By sharing methodologies, co-creation frameworks, and applied case studies, the project has advanced knowledge on climate services, enhanced scientific dialogue, and ensured that innovations are both academically accurate and practically applicable.

3.2 Engaging Wider Communities in Non-scientific Spaces

I-CISK has actively engaged non-scientific communities, including government representatives, policy makers, practitioners, and local users, to ensure that project outputs were not only scientifically robust but also socially relevant and practically applied. Contributions to major international and regional forums provided opportunities to present the project's co-creation approach, showcase Living Lab results, and stimulate dialogue on the integration of local and scientific knowledge in climate services.

Key engagements included participation in **high-level events** such as **UN Water in New York**, where the project co-organized a side event on *Early Career Professionals and Students*, demonstrating I-CISK's commitment to capacity-building for emerging climate service practitioners. At the **UNESCO International Conference on Climate Risk, Vulnerability, and Resilience Building in Paris**, the project led a dedicated side event highlighting

challenges and opportunities in integrating local and scientific knowledge, effectively bringing together policy makers, practitioners, and users to discuss pathways for actionable climate services.

Regional and sector-specific events further amplified the project’s impact. In Los Pedroches, Spain, I-CISK engaged local agricultural communities through the Jornadas OLIFE, presenting climate service applications that directly enhanced local resilience and informed practical decision-making. At the **European Climate Change and Adaptation Conference (ECCA)** in Dublin, the project’s contributions emphasized *community-driven climate resilience*, demonstrating how participatory approaches support adaptation strategies in diverse contexts.

I-CISK also contributed to **international forums** addressing global challenges, including the **Understanding Risk Global Forum in Himeji, Japan**, where the project organized a side event focused on mobilizing local knowledge in climate service delivery. Similarly, at the **Drought Resilience+10 high-level policy event organized by WMO**, I-CISK co-led discussions on *drought monitoring and early warning for food security*, contributing to policy recommendations for the UNCCD COP in Riyad, as well as organising a side-event. Knowledge exchange was further strengthened at the **25th WaterNet/WARFSA/GWP-SA Symposium in Lesotho**, where the project organized a side event promoting cross-regional learning on climate services and local engagement strategies.

In June 2025, the I-CISK project proudly participated in the European Climate Change Adaptation Conference (ECCA 2025) in Rimini, Italy. Together with sister projects LOCALISED, ReachOut, and RethinkAction, it co-organised a high-level session on “Cross-sectoral and multi-scale climate services – upscaling mitigation and adaptation,” attracting over 100 participants and highlighting key scientific findings, tools, and platforms for climate action in Europe and Africa. The project also hosted a Special Brokerage Event, fostering informal exchanges and matchmaking between researchers, policymakers, practitioners, and funders to turn climate information into action, while exploring synergies and future collaborations.

Through these engagements, I-CISK ensured that research and innovation outcomes reached diverse non-scientific audiences, fostering multi-level dialogue, supporting the adoption of co-produced climate services, and enhancing the societal relevance and policy impact of the project. In total, I-CISK actively participated in **11 non-scientific events, including 7 side events** either organized or co-led by the project team (see appendix for details).

3.3 Conclusion and key takeaways

I-CISK’s active participation in both scientific and non-scientific events has been a central pillar in maximizing the visibility, uptake, and impact of project outputs. Through engagement at high-profile international conferences, specialized sectoral meetings, and community-focused events, the project ensured that its research, innovations, and co-produced climate services reached diverse audiences, including researchers, practitioners, policy makers, and local stakeholders. By presenting results, organizing side events, and fostering dialogue across multiple levels, I-CISK translated scientific knowledge into actionable insights and practical solutions for climate adaptation and resilience.

Overall, **I-CISK participated in 26 scientific events with 51 conference contributions and 11 non-scientific events, including 7 side events** organized or co-led by the project, illustrating broad and sustained engagement with the climate services community and beyond.

Key Takeaways

- **Multi-Level Engagement:** I-CISK successfully reached diverse audiences, from scientific communities to policy makers, practitioners, and local stakeholders, ensuring a broad understanding and uptake of project outcomes.

- **Scientific and Societal Impact:** Participation in high-profile conferences enabled the project to advance knowledge, promote methodological innovation, and support evidence-based decision making.
- **Co-creation Visibility:** Living Lab outcomes and participatory approaches were effectively showcased, highlighting the importance of integrating local and scientific knowledge in climate services.
- **Capacity Building and Dialogue:** Side events and workshops facilitated interactive learning, knowledge exchange, and networking, strengthening local, regional, and international capacities for climate adaptation.

Sustained Dissemination: The combination of presentations, organized side events, and active participation in both scientific and policy-relevant forums ensured that project outputs were widely shared, understood, and applied.

4 Enhancing Knowledge Sharing through Publications

4.1 Contributing to Scientific Knowledge

I-CISK has made significant contributions to scientific knowledge through peer-reviewed publications in leading open-access journals. To date, eighteen articles have been published, all following the GOLD open-access standard, ensuring that the research outputs are widely accessible to the scientific community and stakeholders alike. Two articles are being developed currently.

These publications span 2023–2025 and cover a diverse range of topics relevant to climate services, hydrology, and drought management. They include advances in seasonal hydrological forecasting, the integration of global and local hydrological modelling, and the predictability of streamflow extremes. Several studies highlight the co-generation of climate services, showcasing practical applications in drinking water management and the design of impact-based forecasting for droughts. Other contributions take a systemic perspective on climate services, addressing maladaptation, continuity in drought impacts across hydrological, ecological, and social systems, and providing systematic reviews of responses to drought.

The detailed list of publications (updated to the time of writing) is provided in the appendix.

4.2 Shaping Policy through Science-based Briefs

I-CISK has actively contributed to shaping policy by implementing a targeted science-policy strategy, ensuring that the project's research outputs and innovations inform decision-making at both European and international levels. By engaging directly with policy-makers, international organizations, and multi-stakeholder platforms, the project has translated scientific knowledge into actionable recommendations and policy guidance.

A key area of impact has been the European Green Deal. I-CISK participated in the **Green Deal Coordination Support Office activities**, contributing to webinars, regional and local events, and the in-person coordinators meeting in Brussels. As part of the cluster of projects under the biodiversity and climate theme, I-CISK helped advance discussions on *integrating climate services into EU policy agendas, highlighting the value of human-centred approaches*.

At the international level, I-CISK played a leading role in the **Drought Resilience+10** event organized by the WMO International Drought Management Programme in collaboration with UNCCD, UNDRR, EU-JRC, NASA, and other agencies. The project facilitated a science-policy exchange, provided expert input on high-level panels, and contributed to drafting recommendations for incorporating local knowledge into drought early warning systems. These recommendations were subsequently taken forward to the UNCCD COP in Riyadh, demonstrating a tangible policy impact.

The project has also produced three policy briefs to support evidence-based decision-making:

- **Policy Brief #1:** Crossing the last mile in climate services: Putting policies into action (Joint policy brief with the LOCALISED, RethinkAction and REACHOUT projects);
- **Policy Brief #2:** Activating global climate data through co-creating local climate services: Early warning systems used by all;
- **Policy Brief #3:** Translating Climate Services Policies into Actions: Recommendations from Seven Living Labs in Europe and Africa;

Policy briefs are available here: <https://icisk.eu/resources/>

Through these efforts, I-CISK has effectively bridged the gap between scientific knowledge and policy practice, ensuring that innovations in climate services are translated into actionable insights that support sustainable, resilient, and evidence-based decision-making.

4.3 Mainstreaming Co-creation Approaches

I-CISK has firmly embedded co-creation as the core guiding principle of its climate services innovation, ensuring that local needs and scientific rigor are integrated from the very beginning. A cornerstone of this approach is the I-CISK Co-Creation Guide - a practical framework and toolbox designed to support the development of climate services that are genuinely centred on end users. More than a theoretical manual, the guide provides a step-by-step pathway for understanding, implementing, and sustaining co-creation processes across diverse contexts—from small community initiatives to institutional decision-making environments.

Drawing on hands-on experiences from the I-CISK Living Labs in Europe, Africa, and the Caucasus, the guide translates co-creation theory into actionable insights. It offers tools and methods for exploring user needs, building collaborative partnerships, integrating local and scientific knowledge, and evaluating services. Each thematic block responds to a critical question in the co-creation journey: how to combine science with lived experience, which participatory tools to use and when, how to scale and institutionalise practices, what is required for long-term operationalisation, and how to monitor, evaluate, and improve the process.

The guide is relevant to a broad audience: climate service providers, researchers, NGOs, public agencies, policy practitioners, and local actors engaged in climate adaptation. For each group, it offers strategies to design tailored co-creation processes, apply participatory methods effectively, and reflect on scaling and sustainability.

By embedding this guide into the project’s workflow—reinforced by trainings, Living Lab practice, and continuous evaluation—I-CISK ensures that co-creation is not an add-on, but a mainstreamed, systematic approach. In doing so, the project strengthens the usability, relevance, and long-term impact of its climate services, while offering a blueprint for others who seek to advance human-centred climate action.

The full framework and toolbox are openly accessible via the **I-CISK Co-Creation Guide**: <https://icisk.eu/co-creation-guide/>.

4.4 Increasing Public Awareness through Media Outreach

Public awareness has been strengthened through a mix of digital platforms, communication channels, and partner networks. The project’s dedicated website served as the main hub for information, providing regular updates on activities, resources, publications, and Living Lab developments. A project mailing list and e-newsletter further extended outreach by delivering tailored updates to stakeholders and interested audiences, with **seven newsletters disseminated to at least 6,000 recipients**. All newsletters can be found here: <https://icisk.eu/resources/>



Social media engagement played a central role in expanding visibility and fostering dialogue. The I-CISK accounts on X, LinkedIn, and other social media were used to share news, highlight scientific outputs, announce events, and showcase stories from the Living Labs. These platforms ensured dynamic, real-time communication and enabled the project to connect with both professional and wider audiences, resulting in **over 32,000 instances of online engagement**.

In addition, partner institutions amplified project visibility through their own communication channels, including institutional newsletters, blogs, and press releases. This multiplier effect expanded the reach of I-CISK beyond its own platforms, embedding its messages within established and trusted networks.

In total, **over 151 pieces of content were shared through at least 15 different online channels**, ensuring the wide dissemination of project messages across diverse audiences. Over the project implementation period, **the website attracted 6,700 active users**, with a total of **26,000 page views, 16,000 engagements, and 1,300 material downloads**. Together, these efforts created a diverse and resilient media presence, ensuring that the project’s innovations and lessons were communicated not only to scientific and policy audiences but also to practitioners, communities, and the general public.

Details of the media outreach are available in the appendix.

4.5 Conclusions and Key-Takeaways

The publication and dissemination of scientific and informational materials represented a cornerstone of I-CISK’s strategy to ensure that knowledge, innovations, and lessons reached diverse audiences. From peer-reviewed journal articles and policy briefs to sector-specific publications, factsheets, and digital media outreach, the project created a balanced portfolio of outputs tailored to scientific communities, policymakers, practitioners, businesses, and the wider public.

Key Takeaways:

- **Diverse Outputs:** I-CISK produced a wide range of materials, from high-impact scientific publications to accessible factsheets and online content.
- **Scientific Leadership:** Eighteen peer-reviewed, open-access journal articles and multiple conference contributions reinforced the project’s role in advancing scientific knowledge (numbers reflect status at the time of writing).
- **Policy Impact:** Policy briefs and participation in high-level dialogues ensured project results informed both European and global policy discussions.
- **Mainstreaming Co-creation:** The co-creation framework and guidelines embedded participatory approaches into communication and learning tools.
- **Broad Public Engagement:** With 151 online outputs, 25,000+ engagements, and newsletters reaching 6,000 recipients, I-CISK achieved strong visibility beyond academia.

5 Strengthening Learning and Engagement through Audio-visual Outputs

5.1 Building Co-Designed Climate Services

52°North Spatial Information Research GmbH has developed the digital backbone of the I-CISK initiative, enabling next-generation climate services through a robust, user-centred platform. At the core of this platform is a cloud-based, highly customizable web architecture built on modern technologies. This system supports interactive dashboards, maps, and climate indicator tools that users can personalize—selecting time periods, stations, or models—to access pre-operational climate services tailored to their needs.

The co-design process is central to how the platform evolved. It involved deep stakeholder engagement, including climate modelers, developers, and Living Lab representatives working together through Climate Service Task Forces. These teams designed development sprints to ensure the tools are practical, user-friendly, and responsive. The architecture was shaped from stakeholder requirements gathered through face-to-face meetings across Living Labs.

Complementing the digital platform, GECOsistema is also pioneering an “automated Climate Service Composer.” Built using OGC API Processes, this service enables users develop a custom build climate service through chat bot. During the interaction Python script is developed in jPython, which can subsequently be launched from a python prompt. This lowers barriers to entry and promotes replication across regions.

By designing a scalable, shareable, and user-oriented infrastructure, I-CISK ensures actionable, locally relevant climate services. The platform not only serves current needs but is structured to grow—supporting broader adoption in the future.

You can access the platform here: <https://i-cisk.dev.52north.org/>

5.2 Building Co-Designed Climate Services

I-CISK has produced four mini-documentary videos showcasing its Living Labs in Lesotho, Georgia, Hungary and Spain. Each film highlights how local communities, researchers, and stakeholders co-create climate services that respond to real challenges — from drought management in Southern Africa, to adapting agriculture in Georgia’s Kakheti region, to balancing water use and resilience in Spain. By blending scientific expertise with local knowledge and experiences, the videos bring to life the human-centred approach at the heart of I-CISK and demonstrate the tangible impact of participatory climate services.

The videos will be soon published through project’s online media channels as well as used in the **MOOC for Co-Creation of Human-Centred Climate Services** as additional educational resources.

5.3 Expanding Education through MOOCs

A major achievement of I-CISK in advancing education and outreach is the development of the **MOOC for Co-Creation of Human-Centred Climate Services**, hosted on IHE Delft’s OpenCourseWare platform: *“Innovating Climate Services Through Integrating Scientific and Local Knowledge”* (ocw.un-ihe.org). The course translates the project’s co-creation framework, pre-operational climate services, and digital tools into accessible training for a global audience, bridging the gap between scientific advances and user-centred application.

The MOOC highlights the growing risks of floods, droughts, heatwaves, and other climate extremes, and demonstrates how tailored climate information can support adaptation in sectors such as agriculture, energy, forestry, tourism, health, and land use. It directly contributes to the European Green Deal’s ambition of building a climate-resilient and carbon-neutral society, while strengthening capacities far beyond Europe.

The course primarily targets key actors in the climate services value chain—providers, purveyors, and end users—while also reaching a wider group of professionals, citizens, and decision-makers seeking to use climate services to address risks posed by water- and climate-related hazards.

Structured into seven lessons, the MOOC equips learners with the knowledge and skills to understand the reliability and uncertainty of climate services, analyse the stages of co-creation, and critically assess the usability of climate services developed under I-CISK. It also introduces methods and tools for integrating scientific and local knowledge and provides hands-on engagement with the I-CISK web-based climate service platform, enabling learners to explore applications and even develop tailored services suited to specific user needs.

By combining open access with practical insights, the course lowers barriers to education and empowers diverse communities worldwide to participate in the co-creation of next-generation climate services. In this way, the MOOC ensures that I-CISK’s innovations extend well beyond the research community and actively shape the knowledge and skills needed for more inclusive and effective climate adaptation.

5.4 Driving Interaction with a Serious Game on Climate Services

Innovative tools are essential to make climate services more accessible and engaging for diverse audiences. Within this spirit, I-CISK has developed a **serious game** designed to support participatory research and dialogue with stakeholders in the Living Labs. Serious games have been developed and applied with stakeholders in three of seven LL: Georgia, Leshotho and Hungary. The game provides a hands-on way to explore how local knowledge and scientific data can be combined to create effective, user-centred climate services.

Originally created as a research tool for the Living Labs in which these were developed, the serious games have also been adapted for wider audiences and showcased at major international conferences. Two versions of the game are now in use, each rooted in research outputs from the project. The game has already been played at dedicated side events during *Understanding Risk 2024* and the *25th WaterNet/WARFSA/GWP Symposium*, drawing in participants from policy, science, and practice.

By immersing players in realistic scenarios where they must balance scientific forecasts with local perspectives, the game fosters critical reflection on the opportunities and challenges of co-producing climate services. It demonstrates, in a playful yet impactful way, that adaptation strategies are strongest when grounded in both rigorous data and community realities.

The serious game has thus proven to be an effective instrument for **raising awareness, stimulating dialogue, and bridging gaps between stakeholders**. Beyond its immediate use in conferences and Living Labs, it also shows the potential of gamification as a means to scale co-creation approaches and embed them into education, training, and policy dialogues.

5.5 Conclusions and Key-Takeaways

I-CISK has strengthened learning, outreach, and stakeholder engagement by combining digital innovation with powerful audio-visual and interactive tools. From the co-designed climate services platform to mini-documentary storytelling, an open-access MOOC, and a serious game, the project has created diverse avenues for knowledge exchange. These outputs not only showcase I-CISK's scientific advances but also make them accessible, relatable, and actionable across different audiences and contexts. By integrating co-creation principles into education, media, and gamification, I-CISK ensures that its results extend far beyond research circles and actively support climate adaptation on the ground.

Key Takeaways

- **Storytelling makes impact visible** – Mini-documentaries vividly highlight the human dimension of co-produced climate services in Lesotho, Georgia, and Spain.
- **Education builds long-term capacity** – The MOOC lowers barriers to learning, empowering a global audience to apply I-CISK's methods and tools in practice.

Gamification fosters dialogue – The serious game engages diverse groups in exploring the value of integrating local and scientific knowledge.

6 Ensuring Long-term Impact and Sustainability

I-CISK has shown that climate services become most effective when they are co-created with the people who use them. By embedding a human-centred approach across seven Living Labs in Europe and Africa, the project has integrated scientific data with local and traditional knowledge, ensuring that services respond to the realities of communities, practitioners, and decision-makers. This has strengthened trust, usability, and ownership, laying the foundation for long-term uptake and resilience.

A major driver of sustainability has been I-CISK's commitment to wide-ranging dissemination and engagement. The project produced a wealth of outputs, including scientific publications, policy briefs, newsletters, and other digital materials. Through presentations, side events, and active participation in dozens of international and regional conferences, I-CISK ensured its innovations were visible to researchers, practitioners, policy makers, and local stakeholders alike. This combination of scientific rigour and practical communication has amplified the project's impact and positioned it within global climate adaptation debates.

The digital backbone of I-CISK — a flexible, user-friendly climate service platform — provides a technological infrastructure that will continue to support the co-design of tailored services. Complementary initiatives such as mini-documentary films, an open-access MOOC, and an interactive serious game have further expanded the reach of the project, turning research into learning tools, and awareness-raising instruments for diverse audiences worldwide.

Sustainability is also anchored through strong partnerships with universities, research institutes, NGOs, and government agencies, which are embedding co-creation approaches into governance structures and education systems. By aligning with the European Green Deal and global adaptation agendas, I-CISK ensures that its outcomes are not only locally grounded but also strategically positioned for broader adoption.

In summary, I-CISK leaves behind an enduring legacy: a tested co-creation framework, practical methods and tools, strengthened networks of practitioners and stakeholders, and a rich portfolio of knowledge outputs. Together, these elements guarantee that the project's influence will extend far beyond its lifetime, contributing to more effective, inclusive, and sustainable climate services for the future.

Appendix 1 Overview of Communication and Dissemination Activities

Conference contributions

Nr.	Authors	Title	Conference/Link	Year
1	Pesquer, et al.	Co-designing climate services for drought management in the Guadalquivir River Basin	EGU General Assembly 2022, 23-27 May, Vienna (Austria). https://doi.org/10.5194/egusphere-egu22-13425	2022
2	Werner et al.,	I-CISK: Towards a social and behaviourally informed approach to co-producing climate services	EGU General Assembly 2022, Vienna, Austria, https://doi.org/10.5194/egusphere-egu22-10661	2022
3	Werner et al.	Seaming together a patchwork of knowledge toward coproducing social and behaviourally informed climate services	EMS2022-536. EMS Annual Meeting 2022, 4-9 Sep, Bonn, Germany https://doi.org/10.5194/ems2022-536	2022
4	Hernández-Mora et al.	Water management challenges in extensive livestock management systems under CC scenarios	International Congress on Extensive Livestock farming and climate change, Cordoba, Spain https://internationalcongressliveadapt.eu/	2022
5	Werner et al.	I-CISK: Towards a framework for co-creating social and behaviourally informed climate services	WaterNet Symposium, Sun City, South Africa https://www.waternetonline.org/annual-symposium/current-theme	2022
6	Gräler et al.	Addressing Disasters Together - two European project perspectives	OGC Innovation days, Washington, 6 December 2022: https://www.ogc.org/ogc-events/ogc-innovation-days-2022/	2022
7	Hernández-Mora et al.	Integrando el conocimiento científico y local para generar servicios climáticos adaptados a las necesidades de los usuarios: el laboratorio vivo Andalucía-Los Pedroches del proyecto I-CISK.	Libro de actas del XII Congreso Ibérico de Gestión y Planificación del Agua, January 26th 2023, Murcia (Spain). DOI: 10.6018/editum.3003	2023

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8	Ropero et al.	Integración del conocimiento local y la información científico-técnica para la caracterización hidrológica de la comarca de Los Pedroches, Córdoba	Libro de actas del XII Congreso Ibérico de Gestión y Planificación del Agua, January 26th 2023, Murcia (Spain). DOI: 10.6018/editum.3003	2023
9	Masih et al.	Bridging science, policy, and decision making gap through co-creating next generation of climate services	International Conference on Climate Risk, Vulnerability and Resilience Building 19-21 April 2023 UNESCO, Paris. https://www.unesco.org/en/articles/international-conference-climate-risk-vulnerability-and-resilience-building	2023
10	Batlle et al.	Improvements on the monthly precipitation spatial pattern characterization using a set of remote sensing products	EGU General Assembly 2023, 23-28 April, Vienna (Austria) https://doi.org/10.5194/egusphere-egu23-14319	2023
11	Gräler et al.	Building an Open Source Infrastructure for Next Generation End User Climate Services	EGU General Assembly 2023, 23-28 April, Vienna (Austria). https://doi.org/10.5194/egusphere-egu23-15863	2023
12	Gräler	Communicating Uncertainties in Bi- and Multivariate Distributions	EGU General Assembly 2023, 23-28 April, Vienna (Austria). https://doi.org/10.5194/egusphere-egu22-11075	2023
13	Du et al.	Enhancing the seasonal forecasts from large-scale hydro-climate services to better meet the local conditions	EGU General Assembly 2023, 23-28 April, Vienna, Austria, https://doi.org/10.5194/egusphere-egu23-6796	2023
14	Clemenzi et al	Attributing runoff changes to present and future climate projections across Europe	EGU General Assembly 2023, 23-28 April, Vienna, Austria, https://doi.org/10.5194/egusphere-egu23-14063	2023
15	Werner et al.	An introductory review of the integration of local and scientific knowledges in climate services	EGU General Assembly 2023, 23-28 April, Vienna (Austria). https://doi.org/10.5194/egusphere-egu23-11515 (solicited talk)	2023
16	Gräler et al	Connecting Data and Models Across Stakeholders, Science, Industry, and Government for Better Climate Change Adaptation and Disaster Risk Reduction	Geospatial World Forum https://geospatialworldforum.org/2023/geospatial-knowledge-infrastructure.php#tab391	2023
17	Gräler et al	Turning Data through Models into Information for improved Climate Change Adaptation	IZG-Sommerprogramm http://www.izg.rub.de/veranstaltungen.html	2023
18	Schnell et al.	Projects of 52N – Climate Services using Open Data & Open API Standards	Data Week Leipzig 2023 https://2023.dataweek.de/en/	2023

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19	Demmich et al.	An Indicator Workflow for Visualizing the Impact of Droughts on Crop Health and Production	OGC Disaster Pilot 2023 Demo Day	2023
20	Rastogi et al	How local is local knowledge? Understanding the role of local knowledge across climate service upstream agents	World Climate Research Programme – Open Science Conference, October, 23-27, Kigali, Rwanda	2023
21	Ropero et al	Integration of local knowledge and scientific-technical information	2023 Adaptation Futures Conference, October, 3-6, Montreal, Canada	2023
22	Kraatz et al.	A Preoperational Climate Service Information System: Addressing Technical Challenges and Enhancing User Engagement	EGU General Assembly 2024, 14-19 April, Vienna (Austria). https://doi.org/10.5194/egusphere-egu24-18756	2024
23	Gräler et al	Spatial Data Science and AI in applied GeoIT research (Räumliche Datenwissenschaft und KI in der angewandten GeoIT-Forschung)	GeoIT Days 2024	2024
24	Rastogi et al.	Harnessing decision timelines to improve understanding and integration of local and scientific knowledges across the Climate Services value chain	EGU General Assembly 2024, 14-19 April, Vienna (Austria). https://doi.org/10.5194/egusphere-egu24-13096	2024
25	Werner et al.	HS4.2 Drought and water scarcity: monitoring, modelling and forecasting to improve drought risk management (Session)	EGU General Assembly 2024, 14-19 April, Vienna (Austria) https://meetingorganizer.copernicus.org/EGU24/session/48207	2024
26	Pesquer et al.	Local oil farmers event. I-CISK: 45 min speech about droughts	Jornadas OLIPE – Los Pedroches	2024
27	Ropero et al.	Local knowledge for groundwater characterization	Iberian Groundwater Congress. CIAS 2024 https://cias2024.webs.upv.es/	2024
28	Pesquer et al.	Co-diseño de servicios climáticos mediante la integración de los modelos predictivos científicos, las geotecnologías y el conocimiento local	Geographic Information Technology Congress 14-16 October 2024. https://agenda.uib.es/103099/section/50991/xx-congreso-de-tecnologias-de-la-informacion-geografica.html	2024
29	Vanden Homberg et al.	Examining Conditions for Sustained Integration of Different Knowledges within Climate Services	3rd International Conference on Natural Hazards and Risks in a Changing World, June 12-14, 2024, Amsterdam	2024
30	Nyamakure et al	Engaging plurality in the application of co-creation concepts in the development of climate services for disaster risk reduction	3rd International Conference on Natural Hazards and Risks in a Changing World, June 12-14, 2024, Amsterdam	2024
31	Nyamakure et al	Enhancing the usability potential of climate services through co-creation processes: an I-CISK perspective from Lesotho	25th WaterNet/WARFSA/GWP-SA symposium, 30 October – 1 November, Maseru, Lesotho	2024

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32	Egan et al.	User-centred evaluation of cold wave forecasts for disaster risk reduction in Lesotho	RIMMA 2025 (International conference on forecasting, preparedness, warning and response). Abstr. Int. Cartogr. Assoc., 9, 8, https://doi.org/10.5194/ica-abs-9-8-2025 , 2025.	2025
33	Ziogas et al.	Co-creating multi-scalar climate services tailored to the needs of multiple sectors in Crete, Greece	Ziogas, A., Masih, I., Tzimas, A., Romas, E., Pechlivanidis, I., Emerton, R., and Werner, M.: Co-creating multi-scalar climate services tailored to the needs of multiple sectors in Crete, Greece, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-18742, https://doi.org/10.5194/egusphere-egu25-18742 , 2025.	2025
34	Werner et al.	Value [<i>def.</i>]: The importance or worth of something for someone	Werner, M., Dotta Correa, D., Egan, K., Baugh, C., van Andel, S.-J., and Emerton, R.: Value [<i>def.</i>]: The importance or worth of something for someone, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-18976, https://doi.org/10.5194/egusphere-egu25-18976 , 2025.	2025
35	Pesquer et al.	Experiences from seven living labs in the use of local knowledge and local data for tailored climate services	EGU General Assembly 2025 (Vienna, Austria & Online 27 April–2 May 2025). https://meetingorganizer.copernicus.org/EGU25/EGU25-8919.html	2025
36	Ropero et al.	Local knowledge integration to develop user tailored hydroclimatic service	EGU General Assembly 2025 (Vienna, Austria & Online 27 April–2 May 2025). https://meetingorganizer.copernicus.org/EGU25/EGU25-19791.html	2025
37	Trypidaki et al.	Harmonizing Multi-Source Meteorological Data: A Reproducible Approach for Drought Monitoring	EGU General Assembly 2025 (Vienna, Austria & Online 27 April–2 May 2025). https://meetingorganizer.copernicus.org/EGU25/EGU25-8850.html	2025
38	CREAF & UCM	Bridging the useful to used gap: Toward co-producing social and behaviourally informed climate services	ECCA, Rimini, Italy, Part of the scientific panel: “Crossing the last mile in Climate services: Putting policy and practice into action”	2025
39	CREAF & UCM	Andalusia-Los Pedroches living laboratory of the I-CISK project:	Iberian Congress of Water Management and Planning (https://congresoiberico.org/home/)	2025

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		From case studies to co-creation processes	February 2025, Salamanca, Spain. Proceedings: https://fnca.eu/biblioteca-del-agua/directorio/file/3090-libro-de-actas-xiii-congreso-iberico-de-gestion-y-planificacion-del-agua	
40	CREAF & UCM	Contamination of water sources and its impact on public confidence in tap water: the case of the Los Pedroches region, Córdoba.	Iberian Congress of Water Management and Planning (https://congresoiberico.org/home/). February 2025, Salamanca, Spain Proceedings: https://fnca.eu/biblioteca-del-agua/directorio/file/3090-libro-de-actas-xiii-congreso-iberico-de-gestion-y-planificacion-del-agua	2025
41	CREAF & UCM	Characterisation of adaptation measures to respond to the drought in dehesa livestock farmers in the Los Pedroches region.	Iberian Congress of Water Management and Planning (https://congresoiberico.org/home/). February 2025, Salamanca, Spain Proceedings: https://fnca.eu/biblioteca-del-agua/directorio/file/3090-libro-de-actas-xiii-congreso-iberico-de-gestion-y-planificacion-del-agua	2025
42	Gräler et al.	Advancing Disaster Risk Management and Climate Adaptation: Modular, Scalable, and Open Standards-Based Spatial Data Infrastructure for Local Action	EGU General Assembly 2025 (Vienna, Austria & Online 27 April–2 May 2025). https://meetingorganizer.copernicus.org/EGU25/EGU25-17179.html	2025
43	Yiheng Du and Ilias G. Pechlivanidis	Advancing ungauged catchment hydrology through regionalized ML-based post-processing	EGU 2025, Vienna https://meetingorganizer.copernicus.org/EGU25/EGU25-1686.html	2025
44	Pechlivanidis et al	The 20-year history of HEPEX - Enhancing hydrological forecasting through strategic innovations	EGU 2025, Vienna https://meetingorganizer.copernicus.org/EGU25/EGU25-8059.html	2025
45	SMHI	Celebrating 20 Years of Advancing Hydrological Forecasting	HEPEX workshop 2025, University of Alabama, Tuscaloosa, United States	2025

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			https://hepex.org.au/join-us-for-the-hepex-2025-workshop-celebrating-20-years-of-advancing-hydrological-forecasting/	
46	SMHI	Sub-seasonal predictions to climate projections of water availability: From scientific advances in climate services that are useful to local knowledge integration in climate services	EGU General Assembly, Vienna, 27 April – 2 May 2025. https://meetingorganizer.copernicus.org/EGU25/session/51581	2025
47	Nyamakura et al.	Enhancing the usefulness and usability of Drought Early Action Protocols through co-creation	EGU General Assembly, Vienna, 27 April – 2 May 2025. https://meetingorganizer.copernicus.org/EGU25/EGU25-17686.html	2025
48	Rastogi et al.	Combining Knowledges and Co-Imagining the Use of Climate Services through Serious Gaming	EGU General Assembly, Vienna, 27 April – 2 May 2025. https://meetingorganizer.copernicus.org/EGU25/EGU25-17653.html	2025
49	Werner et al.	Decision-timelines: a participatory tool to help understand the decisions users take and value hydrological (ensemble) predictions	Shaping the Future of Hydrological Forecasting: HEPEX 2025 Workshop and Anniversary. 25-27th March 2025, Tuscaloosa, United States https://hepex.org.au/join-us-for-the-hepex-2025-workshop-celebrating-20-years-of-advancing-hydrological-forecasting/	2025
50	Special Session	Mobilizing local knowledge in the climate services last mile – dimensions, roles and challenges	25th WaterNet/WARFSA/GWPSA Symposium, 30 October 2024 - 1 November 2024, Maseru, Lesotho https://www.waternetonline.org/calendar/2024/10/30/25th-waternet-warfsa-gwpsa-symposium	2025
51	Nyamakura et al	Enhancing the usability potential of climate services through co-creation processes: an I-CISK perspective from Lesotho	25th WaterNet/WARFSA/GWPSA Symposium, 30 October 2024 - 1 November 2024, Maseru, Lesotho https://www.waternetonline.org/calendar/2024/10/30/25th-waternet-warfsa-gwpsa-symposium	2025

Journal publications

Nr	Authors	Title	Journal	Year
1	Musuza et al.	Evaluation of earth observations and in situ data assimilation for seasonal hydrological forecasting	Water Resources Research, 59, e2022WR033655. https://doi.org/10.1029/2022WR033655	2023
2	Dasgupta et al.	Connecting hydrological modelling and forecasting from global to local scales: Perspectives from an international joint virtual workshop	Journal of Flood Risk Management, e12880. https://doi.org/10.1111/jfr3.12880	2023
3	Du et al.	Hydrological regimes explain the seasonal predictability of streamflow extremes	Environmental Research Letters, 18, 094060, DOI 10.1088/1748-9326/acf678	2023
4	Cantone et al.	A co-generation success story: Improving drinking water management through hydro-climate services.	Climate Services, 31, https://doi.org/10.1016/j.cliser.2023.100399	2023
5	Shyrokaya et al.	Advances and gaps in the science and practice of impact-based forecasting of droughts.	Wiley Interdisciplinary Reviews: Water, 11(2). https://doi.org/10.1002/wat2.1698	2024
6	Biella et al.	Thinking systemically about climate services: Using archetypes to reveal maladaptation	Climate Services, 34 https://doi.org/10.1016/j.cliser.2024.100490	2024
7	Muller et al.	Responding to climate services in the context of drought: A systematic review.	Climate Services, 35 https://doi.org/10.1016/j.cliser.2024.100493	2024
8	Van Loon et al.	Review article: Drought as a continuum – memory effects in interlinked hydrological, ecological, and social systems.	Natural Hazards and Earth System Sciences, 24(9), 3173–3205. https://doi.org/10.5194/nhess-24-3173-2024	2024
9	ECMWF (TBC)	How good is your forecast? The importance of user-centred, decision-relevant evaluation of forecasts and climate services – <i>in preparation</i>	TBA	2025

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10	ECMWF (TBC)	Evaluation for action: Employing user-centred evaluation to support cold wave early action in Lesotho - <i>in preparation</i>	TBA	2025
11	Szymańska et al	Characterizing adaptation responses to drought risk of livestock farmers in the Spanish dehesa agroforestry system	Front. Environ. Sci., 16 July 2025 Sec. Drylands Volume 13 - 2025 https://doi.org/10.3389/fenvs.2025.1540818	2025
12	Pechlivanidis et al.	Enhancing Research-to-Operations in Hydrological Forecasting: Innovations across Scales and Horizons	https://journals.ametsoc.org/view/journals/bams/106/5/BAMS-D-24-0322.1.xml#d5922992e1603	2025
13	Ilias G Pechlivanidis and Louise Crochemore	Skill-informed seamless communication of European S2S hydrological forecasts	https://iopscience.iop.org/article/10.1088/1748-9326/ade0d7#Acknowledgments	2025
14	Ilias G. Pechlivanidis and Jude Lubega Musuuza	Customizing large-scale hydrological models: Harnessing the open data realm for impactful local applications	https://www.sciencedirect.com/science/article/pii/S214581825002150?via%3Dihub#ack0005	2025
15	Yiheng Du and Ilias G. Pechlivanidis	Hybrid approaches enhance hydrological model usability for local streamflow prediction	https://www.nature.com/articles/s43247-025-02324-y#Fun	2025
16	Ilyas Masih	An evaluation of the alignment of drought policy and planning guidelines with the contemporary disaster risk reduction agenda	https://doi.org/10.5194/nhess-25-2155-2025	2025
17	Nyamakura et al.	Typologies of climate service co-creation approaches in practice	https://www.sciencedirect.com/journal/climate-services (in press) Climate Services, 40, 100607. https://doi.org/10.1016/j.cliser.2025.100607	2025
18	Giuliano Di Baldassarre	SOCIO-IDROLOGIA E GESTIONE DEGLI EVENTI ESTREMI (In Italian)	Emilia Romagna's magazine <i>Ecoscienza</i> (Number 2, 2025, pages 30-32): https://www.arpae.it/it/ecoscienza/numeri-ecoscienza/anno-2025/numero-2-anno-2025/ecos-2025-02.pdf	2025

Other Events / Science-Policy Events

Nr.	Authors	Title	Event Title/Link	Year
1	Masih, et al.	Science-Policy Event: Co-creating climate services in the Living Labs: The I-CISK experience on stakeholder participation, gender and inclusivity	1 st climate change clustering event. 5 th Edition of the EU Knowledge Sharing Event. 28-29 March, 2023 (online)	2023
2	Rastogi et al.	Side event: Integrating local and scientific knowledge in climate services: Challenges, opportunities & outlook	International Conference on Climate Risk, Vulnerability and Resilience Building, UNESCO, Paris, April 19-21, 2023	2023
3	Hall et al.	Side event: UN Water 2023 Early Career Professional and Student Side Meeting	UN Water 2023, NYC, USA. 20 March 2023 (online)	2023
4	CENN	Public Event: Innovating Climate Services through Integrating Scientific and Local Knowledge (I-CISK) project participated in exposition at CENN pavilion during Europe days. Green Bags sponsored by ICISK (with ICISK and EU logo)	Europe Day in Georgia on May 6, 2023	2023
5	Cauwenbergh et al.	Side event (contribution by I-CISK): Community-Driven Climate Resilience: Engagement & Data	European Climate Change and Adaption Conference (ECCA), June 19-21	2023
6	CENN	On April 8th, at 10:00 AM, Dr. Micah Werner conducted a seminar titled "Drought Management Under Climate Change" in Ilia State University, Georgia.	Ilia State University, Georgia.	2024
7	Werner et al.	Side Event: Mobilizing local knowledge in climate service's last mile – dimensions, roles and challenges.	Understanding Risk 2024 Global Forum, June 15-19	2024
8	Werner et al.	Science-Policy Side event and contribution to panels and drafting of recommendations to be taken forward to the UNCCD COP in Riyad	Drought Resilience+10, WMO, Geneva, 25-29 September.	2024
9	Werner et al.	Side event (organised by I-CISK): Mobilizing local knowledge in the climate services last mile – dimensions, roles and challenges	25th WaterNet/WARFSA/GWP-SA symposium, Maseru, Lesotho, October 31-November 1	2024

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10	CENN	Public Event: Innovating Climate Services through Integrating Scientific and Local Knowledge (I-CISK) project participated in the exposition at the CENN pavilion during Europe days	Europe Day in Georgia on May 9, 2025	2025
11	Werner et al.	Cross-sectoral and multi-scale climate services -upscaling of mitigation and adaptation actions (brokerage event)	7th European Climate Change Adaptation Conference (ECCA), June 16-18, 2025, Rimini, Italy https://www.ecca2025.eu/programme	2025

Digital Media

	Type of the Social Media	Date of published item	Link to the published news	Analytics (number of the total reach)
1	Facebook	December 17, 2021	Within the framework of the EU-funded project - Georgian Climate Program (GEO CAP), the Ministry of Environment and Agriculture of Georgia, in cooperation with CENN, held a second meeting of the National Climate Platform (NCP) on December 15, where a presentation was held of the project funded by the European Commission under Horizon 2020 - Creating Innovative Climate Services through the Integration of Scientific and Local Knowledge (I-CISK).	Total reach: 5.933
2	Facebook	June 8, 2022	A Memorandum of Understanding was signed between CENN and the National Environmental Agency (NEA) to work on climate services.	Total reach: 3.720
3	Facebook	October 21, 2022	From October 10-13, 2022, CENN and the National Environmental Agency (NEA) hosted international experts working in the field of hydrology.	Total reach: 2.115
4	Facebook	May 6, 2023	Innovating Climate Services through Integrating Scientific and Local Knowledge (I-CISK) project participated in the Europe Day in Georgia on May 6, 2023.	Total reach: 2.115
5	Twitter	April 25, 2023	https://twitter.com/GRUMETS_UAB/status/1650636792876466178?s=20	119 views
6	Facebook	October 25, 2022	https://www.facebook.com/CIETlospedroches/photos/a.698475070193765/8238755592832304/?type=3	1 retweet
7	Twitter	February 30, 2022	https://twitter.com/geologicasUCM/status/1620004992576012288?s=20	4 likes

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8		September 21 - 23, 2022	https://twitter.com/FiveTwoN/status/1572523033012862976 https://twitter.com/FiveTwoN/status/1573240320145457152	
9	Twitter	October 6, 2022	https://twitter.com/FiveTwoN/status/1577953761623949313	
10	Twitter	October 3, 2022	https://twitter.com/icisk_eu/status/1576953940972748800	3 likes
11	retweet	October 10, 2022	https://twitter.com/icisk_eu/status/1579513440577925122	
12	retweet	October 26, 2022	https://twitter.com/icisk_eu/status/1585286241876058124	
13	retweet	November 22, 2022	https://twitter.com/icisk_eu/status/1594998545253285888	778 views
14	retweet	March 14, 2023	https://twitter.com/icisk_eu/status/1635642163236163586	3 retweet
15	retweet	April 24, 2023	https://twitter.com/FiveTwoN/status/1650489213647831042	8 likes
16	Twitter	April 24, 2023	https://fosstodon.org/@52North/110253989412110536	18 tweets about GA in Münster
17	Fosstodon	April 27, 2023	https://twitter.com/FiveTwoN/status/1651553568317423618	107 views
18	Twitter	April 27, 2023	https://fosstodon.org/@52North/110270615136050495	
19	Cenn.org	December 17, 2021	With EU Support, MEPA and CENN Host the National Climate Platform (NCP) Meeting	21 views
20	Cenn.org	October 21, 2023	CENN hosted international experts together with the National Environmental Agency (NEA)	
21	CREAF website		https://www.creaf.cat/innovating-climate-services-through-integrating-scientific-and-local-knowledge	
22	52north.org	October 6, 2022	https://52north.org/news/i-cisk-general-assembly/	
23	52north.org	October 10, 2022	https://52north.org/references/i-cisk/	
24	52north.org	December 14, 2021	https://52north.org/about-us/scientific-technical-advisory-board/	
25	52north.org	December 13, 2022	https://52north.org/about-us/scientific-technical-advisory-board/	
26	CENN Facebook	17 April, 2024	CENN and the NEA hosted representatives of the Delft Institute of Water Education (IHE Delft).	2.678

D6.3 – Communication and Dissemination Activities

27	CENN Facebook	28 March, 2024	Announcement of the seminar titled "Drought Management Under Climate Change" in the G106 auditorium of Ilia State University.	2.612
28	I-CISK LinkedIn	13 November, 2024	I-CISK 3rd General Assembly meeting: https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_climateservices-climatechangeadaptation-sustainability-activity-7254426844060348416-1o3m?utm_source=share&utm_medium=member_desktop&rcm=ACoAACU4F1kBnYBP1UrecS-mE-6ZWHIK2Mvwwrg	
29	I-CISK LinkedIn		Sumiran Rastogi and Celia Ramos Sánchez contributed their views as Early Career researchers on gaps in early warning and drought risk management during discussions at the WMO-hosted Drought Resilience +10 conference in Geneva, Switzerland: https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_climate-early-drought-activity-7246911522986160128-6xoA?utm_source=share&utm_medium=member_desktop&rcm=ACoAACU4F1kBnYBP1UrecS-mE-6ZWHIK2Mvwwrg	
30	I-CISK LinkedIn	November 23, 2023	I-CISK second General Assembly in Madrid: https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_on-october-5th-and-6th-i-cisk-had-its-second-activity-7117092143856242688-Wqhu?utm_source=share&utm_medium=member_desktop&rcm=ACoAACU4F1kBnYBP1UrecS-mE-6ZWHIK2Mvwwrg	
31	I-CISK LinkedIn	September 29, 2023	Sustainable Water Management in Castellarano (RE): Exploring innovative solutions for a water resilient future: https://icisk.eu/sustainable-water-management-in-castellarano-re-exploring-innovative-solutions-for-a-water-resilient-future/	
32	I-CISK LinkedIn	September, 2023	CISK project teamed up with Színes Erzsébetváros NGO for the special event during Mobility Week on September 16-17 in Budapest's Fővám Square and Vámház Boulevard: https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_icisk-mobilityweek-urbaninnovation-activity-7110512818222686209-5rOp?utm_source=share&utm_medium=member_desktop&rcm=ACoAACU4F1kBnYBP1UrecS-mE-6ZWHIK2Mvwwrg	
33	52°North X	October 20, 2023	https://x.com/FiveTwoN/status/1780864569109311550	
34	52°North X	October 6, 2023	https://x.com/FiveTwoN/status/1715264918516109524	
35	52°North X	October 6, 2023	https://x.com/icisk_eu/status/1710217395762078026	repost icisk_eu

D6.3 – Communication and Dissemination Activities

36	52°North X	October 6, 2023	https://x.com/icisk_eu/status/1710241291647213792	repost icisk_eu
37	52°North X	October 5, 2023	https://x.com/icisk_eu/status/1710195475691790358	repost icisk_eu
38	52°North X	September 22, 2023	https://x.com/icisk_eu/status/1709920582597300549	repost icisk_eu
39	52°North X	July 20, 2023	https://x.com/icisk_eu/status/1705210006310617528	repost icisk_eu
40	52°North X	May 31, 2023	https://x.com/icisk_eu/status/1681950790552891392	repost icisk_eu
41	52°North X	May 31, 2023	https://x.com/icisk_eu/status/1663895445209219072	repost icisk_eu
42	52°North X	May 17, 2023	https://x.com/icisk_eu/status/1663895437919543297	repost icisk_eu
43	52°North X	May 14, 2023	https://x.com/FiveTwoN/status/1658757224280276992	
44	52°North X	May 11, 2023	https://x.com/Micha_Werner/status/1657702316659691522	
45	fostodon	June 7, 2023	https://x.com/FiveTwoN/status/165662776735655266	
46	52N Blog post	June 13 2023	https://blog.52north.org/2023/06/13/an-open-source-infrastructure-for-end-user-climate-services/	
47	52N Blog post	June 20, 2023	https://blog.52north.org/2023/06/20/52n-egu-general-assembly/	
48	52N Newsticker - Climate Services @ Data Week Leipzig	July 4 2023	https://52north.org/news/climate-services-data-week-leipzig/	
49	52N Newsticker GECO and 52N hack for I-CISK Living Labs	Oct 2, 2023	https://52north.org/news/geco-and-52n-hack-for-i-cisk-living-labs/	
50	52N Newsticker	Oct 16, 2023	https://52north.org/news/task-forces-for-living-labs/	

D6.3 – Communication and Dissemination Activities

	Task Forces for Living Labs			
51	52N Blog post	Oct 27, 2023	https://blog.52north.org/2023/10/27/a-behind-the-scenes-peek-into-my-internship-at-52n/	
52	52N Blog post	Nov 20, 2023	https://blog.52north.org/2023/11/20/inside-52n-my-journey-through-space-and-time/	
53	52N Blog post	Dec 15, 2023	https://blog.52north.org/2023/12/15/visualizing-the-impact-of-droughts-on-crop-health-and-production/	
54	52°North LinkedIn repost	November 6, 2024	https://www.linkedin.com/feed/update/urn:li:activity:7259889217659404288	52°North LinkedIn repost
55	52°North LinkedIn repost	July 22, 2024	https://www.linkedin.com/feed/update/urn:li:activity:7259889605078917120	52°North LinkedIn repost
56	52°North LinkedIn repost	June 7, 2024	https://www.linkedin.com/feed/update/urn:li:activity:7221103559956672512	52°North LinkedIn repost
57	52°North LinkedIn repost	May 16, 2024	https://www.linkedin.com/feed/update/urn:li:activity:7204753093178130432	52°North LinkedIn repost
58	52°North LinkedIn repost	April 18, 2024	https://www.linkedin.com/feed/update/urn:li:activity:7196763751734300674	52°North LinkedIn repost
59	52°North X	June 7, 2024	https://www.linkedin.com/feed/update/urn:li:activity:7186636827284459520	52°North X
60	52°North X	April 18, 2024	https://x.com/FiveTwoN/status/1799019943775875153	52°North X
61	LinkedIn	December 17 2024	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_from-climate-services-that-are-useful-to-activity-7274704685310042113-6ZXW?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	
62	LinkedIn	November 17 2024	https://www.linkedin.com/posts/micha-werner-85047829_ramsar-ugcPost-7263980486690017281-	Repost

D6.3 – Communication and Dissemination Activities

			sn3p?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	
63	LinkedIn	November 4 2024	https://www.linkedin.com/posts/micha-werner-85047829_ew4all-activity-7259207848407044099-bC1o?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
64	LinkedIn	October 22 2024	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_climateservices-climatechangeadaptation-sustainability-activity-7254426844060348416-lo3m?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	
65	LinkedIn	September 25 2024	https://www.linkedin.com/posts/anne-van-loon-%F0%9F%9F%A5-39322962_%F0%9D%99%89%F0%9D%99%80%F0%9D%99%92-%F0%9D%99%8B%F0%9D%98%BC%F0%9D%99%8B%F0%9D%99%80%F0%9D%99%8D-%F0%9D%99%8A%F0%9D%99%90%F0%9D%99%8F-on-%F0%9D%98%BF%F0%9D%99%A7%F0%9D%99%A4%F0%9D%99%AA%F0%9D%99%9C%F0%9D%99%9D-ugcPost-7244636558912368641-aLAy?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	
66	LinkedIn	October 2 2024	https://www.linkedin.com/posts/ilyas-masih-19283821_drought-wmo-unccdcop16-ugcPost-7247364212006469632-vt2T?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	
67	LinkedIn	October 1 2024	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_climate-early-drought-activity-7246911522986160128-6xoA?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	4278 impressions; 2357 members reached
68	52north.org	October 8, 2024	https://52north.org/news/visiting-an-old-friend/	
69	elpais.com	December 11, 2023	https://elpais.com/espana/andalucia/2023-12-11/ocho-meses-pegados-a-una-garrafa-de-agua-en-cordoba-somos-los-grandes-olvidados-de-espana.html	

D6.3 – Communication and Dissemination Activities

70	diariodebelmez.com	September 13, 2023	https://diariodebelmez.com/cinco-meses-sin-agua-potable-en-los-pedroches-y-el-guadiato/	
71	Aceite Ecológico	May 16, 2024	https://www.facebook.com/AceiteEcologico/posts/pfbid02WuAnHfFAdGibpCwbPtjWp16Xs2dMMomfiXY41uMtrxhpESfwFDG5D8rtgPr9rMml	
72	Aceite Ecológico	May 18, 2024	https://www.facebook.com/AceiteEcologico/posts/pfbid02Raehs87qq9zanUCPaJmMisJcWnh7zHRRyzsRKRUn2FYHQeZhQ8YR7uHLCowuiD1l	
73	52N Blog post	Feb 29, 2024	https://blog.52north.org/2024/02/29/dutch-climate-forecasts-my-experience-at-52north/	
74	52N Blog post	April 4, 2024	https://blog.52north.org/2024/04/04/empowering-agriculture-in-i-cisk/	
75	52N Blog post	June 3, 2024	https://blog.52north.org/2024/06/03/user-based-solutions-toward-an-integrated-resilient-future/	
76	LinkedIn	July 24, 2025	https://www.linkedin.com/posts/nikoletta-ropero-szyma%C3%B1ska-312884149_frontiers-characterizing-adaptation-responses-activity-7354047412283367425-UzHV?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAby6psB1HeqFuxLY0tZyQ7tB-WyAbr8tzA	4 reposts 23 likes
77	LinkedIn	March 21, 2025	https://www.linkedin.com/posts/lucia-de-stefano-07706333_agua-sostenibilidad-confianza-activity-7308764475770265601-518C/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAby6psB1HeqFuxLY0tZyQ7tB-WyAbr8tzA	1 comment 6 reposts 47 likes
78	Research gate	July 2025	https://www.researchgate.net/publication/394054694_Characterizing_adaptation_responses_to_drought_risk_of_livestock_farmers_in_the_Spanish_dehesa_agroforestry_system	1 recommendation 25 reads
79	I-CISK website	October 2025	https://icisk.eu/living-labs/living-lab-details-es/	
80	I-CISK website	October 10, 2025	https://icisk.eu/living-labs/living-lab-details-es/	
81	LinkedIn repost	September 1, 2025	https://www.cenn.org/the-i-cisk-project-and-telavi-state-university-collaborate-on-streamflow-prediction-and-irrigation-system-improvement/	
82	LinkedIn post	August 11, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7360617776513728512	

D6.3 – Communication and Dissemination Activities

83	LinkedIn repost	July 31, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7356620434026491905	
84	LinkedIn repost	July 30, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7356220336238960641	
85	LinkedIn repost	July 28, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7355532117226754048	
86	LinkedIn post	July 10, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7349016011829833729	
87	fosstodon post	July 10, 2025	https://fosstodon.org/@52North/114828385521669371	
88	bluesky post	July 10, 2025	https://bsky.app/profile/52north.org/post/3ltm3oi6bhs23	
89	LinkedIn repost	July 3, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7346432579132162050	
90	LinkedIn repost	June 20, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7341719688072118274	
91	LinkedIn repost	June 18, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7340998635871969284	
92	LinkedIn post	June 17, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7340639318983495680	
93	fosstodon post	June 17, 2025	https://fosstodon.org/@52North/114698076914888178	
94	bluesky post	June 17, 2025	https://bsky.app/profile/52north.org/post/3lrs7wogxwc2e	
95	LinkedIn repost	June 16, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7340492777534726144	
96	LinkedIn post	June 11, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7338506754915282944	
97	fosstodon post	June 11, 2025	https://fosstodon.org/@52North/114664187150735530	

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98	bluesky post	June 11, 2025	https://bsky.app/profile/52north.org/post/3lrd6bv4v2k2g	
99	LinkedIn post	June 6, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7336694766513897472	
100	fosstodon post	June 6, 2025	https://fosstodon.org/@52North/114635864618202897	
101	bluesky post	June 6, 2025	https://bsky.app/profile/52north.org/post/3lqwm5r6vrs24	
102	LinkedIn post	June 5, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7336356178525843457	
103	fosstodon post	June 5, 2025	https://fosstodon.org/@52North/114630327376144187	
104	LinkedIn post	June 3, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7335572682802974720	
105	LinkedIn repost	May 9, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7326509876514275328	
106	LinkedIn repost	May 6, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7325490682234630144	
107	LinkedIn post	April 29, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7322984721586585600	
108	LinkedIn repost	April 28, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7322525849830780928	
109	LinkedIn repost	April 15, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7317863094163050497	
110	LinkedIn Repost	April 10, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7316055928431136769	
111	LinkedIn repost	April 10, 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_from-climate-services-that-are-useful-to-activity-7274704685310042113-6ZXW?utm_source=share&utm_medium=member_desktop&rcm=ACoAAACMOYsB6_kTdvLv1CuCUA_OtBGmDH-NWCM	
112	LinkedIn	April 3, 2025	https://www.linkedin.com/posts/sumiran-rastogi-797633169_seriousgames-climateservices-icisk-ugcPost-7305233535529840641-	

D6.3 – Communication and Dissemination Activities

	repost		5lwx?utm_source=share&utm_medium=member_desktop&rcm=ACoAAACMOYsB6_kTdvLv1CuCUA_OtBGmDH-NWCM	
113	LinkedIn repost	April 7, 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_agua-sostenibilidad-confianza-activity-7308807308594081793-YjxV?utm_source=share&utm_medium=member_desktop&rcm=ACoAAACMOYsB6_kTdvLv1CuCUA_OtBGmDH-NWCM	
114	LinkedIn repost	February 27, 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_icisk-climateservices-cocreation-activity-7291107640867237889-031d?utm_source=share&utm_medium=member_desktop&rcm=ACoAAACMOYsB6_kTdvLv1CuCUA_OtBGmDH-NWCM	
115	LinkedIn repost		https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_climateservices-climatechangeadaptation-sustainability-activity-7254426844060348416-lo3m?utm_source=share&utm_medium=member_desktop&rcm=ACoAAACMOYsB6_kTdvLv1CuCUA_OtBGmDH-NWCM	
116	LinkedIn repost	January 23, 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_from-climate-services-that-are-useful-to-activity-7274704685310042113-6ZXW?utm_source=share&utm_medium=member_desktop&rcm=ACoAAACMOYsB6_kTdvLv1CuCUA_OtBGmDH-NWCM	
117	CENN Facebook	June 18	https://www.facebook.com/ThinkNaturally/posts/pfbid0u5BNdnCXBxCGumTV9nEnbAMa7JYsHTet6ECoNNbtgNuBwLPR2jcm23EiggrTj1Unl	
118	CENN website	June 25	https://www.cenn.org/advancing-streamflow-prediction-cenn-and-alazani-map-deepen-collaboration/	
119	CENN Facebook	August 23	https://www.facebook.com/ThinkNaturally/posts/pfbid0yGvV667HkrEa8rey7DRfnsumVQcYK4WSU9iBP1VRScEpaenw63V8WMAUoa4nQQQ4l	
120	CENN website	June 23	https://www.cenn.org/ka/i-cisk-%E1%83%9E%E1%83%A0%E1%83%9D%E1%83%94%E1%83%A5%E1%83%A2%E1%83%98-%E1%83%93%E1%83%90-%E1%83%97%E1%83%94%E1%83%9A%E1%83%90%E1%83%95%E1%83%98%E1%83%A1-%E1%83%A1%E1%83%90%E1%83%AE%E1%83%94%E1%83%9A/?fbclid=IwY2xjawMuMZxleHRu	

D6.3 – Communication and Dissemination Activities

			A2FIbQixMQBicmlkETE3SUhrSEpWQzVvMDdXUmpmAR7Hw1WtLosuKnlpBCaUwX8mL1NQyF-soiPyA5MvMIAcKoMidYsosF61xTI5hw_aem_MiVBwLNgF514Ju4Sg7AV5g	
121	CENN Facebook	May 19	https://www.facebook.com/ThinkNaturally/posts/pfbid0yuju4S7YAy3Baeqnt7w7GTBzWhzCHzDfv7FVgEfMqPtUTqVo9xQJ1KVAqcujuGU9I	
122	CENN Facebook	April 28	https://www.facebook.com/ThinkNaturally/posts/pfbid02oSy5HxGSsx3ccBT26aAG7VV7UohoyEqmbtgafBtX1GUwR8f9oUM9f3kTvLpXthxal	
123	SMHI LinkedIn	May 2025	https://www.linkedin.com/posts/smhi-science-rnd_hybrid-approaches-enhance-hydrological-model-activity-7323997829067067392-afY5?utm_source=share&utm_medium=member_desktop&rcm=ACoAABa4XzYB4Shokiq_DBZT4ExmT3IDLHJnB3o	
124	SMHI LinkedIn	May 2025	https://www.linkedin.com/posts/smhi-science-rnd_earthobservations-waterresources-lshm-activity-7317876103597944832-CH_O?utm_source=share&utm_medium=member_desktop&rcm=ACoAABa4XzYB4Shokiq_DBZT4ExmT3IDLHJnB3o	
125	SMHI LinkedIn	June 2025	https://www.linkedin.com/posts/smhi-science-rnd_copernicus-unitednations-earlywarningsforall-activity-7335599061099499520-qne4?utm_source=share&utm_medium=member_desktop&rcm=ACoAABa4XzYB4Shokiq_DBZT4ExmT3IDLHJnB3o	
126	Alabama Water Institute Podcast	April 2025	https://open.spotify.com/show/6SJn3X1I2vISCqkgL5D7ZB	
127	LinkedIn	July 24 2025	https://www.linkedin.com/posts/nikoletta-ropero-szyma%C3%B1ska-312884149_frontiers-characterizing-adaptation-responses-activity-7354047412283367425-UzHV?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
128	LinkedIn	July 7 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_climateservices-farmorfallow-participatoryapproaches-activity-7347930546263453697-C8By?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	1059 Impressions; 481 members reached

D6.3 – Communication and Dissemination Activities

129	LinkedIn	July 1 2025	https://www.linkedin.com/posts/thinknaturally_geoeng-cenn-%E1%83%9B%E1%83%90-%E1%83%93%E1%83%94%E1%83%9A%E1%83%A4%E1%83%A2%E1%83%98%E1%83%A1-%E1%83%AC%E1%83%A7%E1%83%9A%E1%83%98%E1%83%A1-%E1%83%92%E1%83%90%E1%83%9C%E1%83%90%E1%83%97%E1%83%9A%E1%83%94%E1%83%91%E1%83%98%E1%83%A1-ugcPost-7345856537556324352-KNpV?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
130	LinkedIn	June 16 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_are-you-at-the-european-climate-change-and-activity-7340298428821696512-gNB6?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	825 impressions; 412 members reached
131	LinkedIn	May 2 2025	https://www.linkedin.com/posts/ilias-pechliivanidis-b0347a19_hybrid-approaches-enhance-hydrological-model-activity-7323986889185673216-mCd?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
132	LinkedIn	April 15 2025	https://www.linkedin.com/posts/rebeccaemerton_esotc2024-esotc2024-ugcPost-7317854676450758656-7_MA?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
133	LinkedIn	April 14 2025	https://www.linkedin.com/posts/clint-climate-intelligence_drought-freshwaterecosystems-integrateddroughtmanagement-activity-7317459598200758272-L8v4?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
134	LinkedIn	March 21 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_agua-sostenibilidad-confianza-activity-7308807308594081793-YjxV?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	342 Impressions; 161 members reached
135	LinkedIn	March 11 2025	https://www.linkedin.com/posts/sumiran-rastogi-797633169_seriousgames-climateservices-icisk-ugcPost-7305233535529840641-5lwx?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost

D6.3 – Communication and Dissemination Activities

136	LinkedIn	February 18 2025	https://www.linkedin.com/posts/world-meteorological-organization_earlywarningsforall-stateofclimate-ugcPost-7297528970445541377-lvDg?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	Repost
137	LinkedIn	January 31 2025	https://www.linkedin.com/posts/i-cisk-human-centred-climate-services-240a34232_icisk-climateservices-cocreation-activity-7291107640867237889-031d?utm_source=share&utm_medium=member_desktop&rcm=ACoAADosZ1ABMwUDTKJOzQGBYwpahhkuxBvYs8s	740 impressions; 432 members reached
138	cordopolis.eldiario.es	August 17, 2025	https://cordopolis.eldiario.es/cordoba-hoy/provincia/norte-cordoba-abona-agua-embotellada-no-fiamos_1_12535180.html	
139	solienses.blogspot.com	March 18, 2025	https://solienses.blogspot.com/2025/03/solo-un-15-de-la-poblacion-de-los.html	
140	cordopolis.eldiario.es	July 26, 2024	https://cordopolis.eldiario.es/cordoba-hoy/sociedad/estudio-analiza-habitos-grado-confianza-agua-grifo-norte-cordoba-ano-potable_1_11546000.html	
141	project presentation ITC Workshop	September 18, 2024	https://blog.52north.org/2025/01/07/visualizing-complex-weather-and-climate-data-at-52north/	
142	52°North blog post	January 27, 2025	https://blog.52north.org/2025/02/25/public-release-of-the-deliverable-d5-1-i-cisk-platform-technical-specification/	
143	project presentation 52°North Shareholders Assembly	March 10, 2025	https://blog.52north.org/2025/03/11/public-release-of-d5-2-climate-data-front-back%e2%80%90end-components/	
144	52°North blog post	February 25, 2025	https://52north.org/news/the-co-designed-climate-services-receive-major-update-prototypes-online/	
145	52°North blog post	March 11, 2025	https://blog.52north.org/2025/06/02/the-future-of-the-climate-is-now/	

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146	52°North News	April 28, 2025	https://youtu.be/ibxri8lrLpo?si=gzjluTIY-mUU_fzE	
147	ideas-science.com	September 15, 2025	https://ideas-science.com/2025/09/15/ideas-science-team-reaches-hackathon-finals-with-thermaform-your-city/	
148	LinkedIn repost	September 18, 2025	https://www.linkedin.com/feed/update/urn:li:activity:7374363123841155072	52°North has 821 LI followers
149	fosstodon post	September 18, 2025	https://fosstodon.org/@52North/115224524219711031	
150	Bluesky post	September 18, 2025	https://bsky.app/profile/52north.org/post/3lz3zawogw22b	
151	52°North News	September 2025	https://52north.org/news/open-online-course-on-co-creation-of-human-centered-climate-services/	

Printed Materials

Type of the material (flyer/poster/factsheet)	Link to the online version	Places of dissemination (training/conference/online)	# disseminated
Spanish version of the project flyer	https://icisk.eu/wp-content/uploads/2022/11/folleto-__CISK_ES_DEF.pdf	Andalucia Living Lab workshop, October 25, 2022	60
52°North Annual Report 2021	https://52north.org/delivery/annual_report/52North_Annual_Report_2021_FINAL_2022-11-03.pdf	Online versions have also been distributed via email to all Multiactor platform partners.	30
52°North Annual Report 2022	https://52north.org/delivery/annual_report/52%20North_Annual_Report_2022.pdf	Online versions have also been distributed via email to all Multiactor platform partners.	20
52°North Annual Report 2023	https://52north.org/delivery/annual_report/52%20North_Annual_Report_2023.pdf	Online versions have also been distributed via email to all Multiactor platform partners.	20
Policy brief #1	<u>Activating Global Climate Data through Co-Creating Local Climate Services: Early Warning Systems Used by All</u> https://icisk.eu/resources/	Drought Resilience+10, WMO, Geneva, 25-29 September.	250

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LL Factsheet	https://icisk.eu/wp-content/uploads/2025/04/Impacto-del-episodio-de-no-potabilidad-del-agua-de-grifo-en-Los-Pedroches.pdf	<ul style="list-style-type: none"> • https://icisk.eu/living-labs/living-lab-details-es/ • https://icisk.eu/living-labs/living-lab-details-es/ • https://www.linkedin.com/posts/lucia-de-stefano-07706333_agua-sostenibilidad-confianza-activity-7308764475770265601-518C/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAby6psB1HeqFuxLY0tZyQ7tB-WyAbr8tzA 	
Policy Brief	https://icisk.eu/wp-content/uploads/2025/06/Joint-Policy-Brief-ICISK_2025_PRINT.pdf	7 th European Climate Change Adaptation Conference (ECCA), June 16-18, 2025, Rimini, Italy	300 (hard copies)
Policy Brief	https://icisk.eu/wp-content/uploads/2025/06/D6.6-I-CISK-Policy-Brief-3.pdf	7 th European Climate Change Adaptation Conference (ECCA), June 16-18, 2025, Rimini, Italy	200 (hard copies)
Flyer	https://icisk.eu/wp-content/uploads/2025/09/The-I-CISK-Co-creation-framework-and-lessons-learned_PRINT.pdf	7 th European Climate Change Adaptation Conference (ECCA), June 16-18, 2025, Rimini, Italy	200 (hard copies)
IDEAS - Thermaform your city flyer	https://city.zcan.eu/thermaform-your-city/	7 th European Climate Change Adaptation Conference (ECCA), June 16-18, 2025, Rimini, Italy	40
IDEAS - Sensor Hub	https://city.zcan.eu/cityzcan/	7 th European Climate Change Adaptation Conference (ECCA), June 16-18, 2025, Rimini, Italy	20



I-CISK

HUMAN CENTRED CLIMATE SERVICES

Colophon:

This report has been prepared by the H2020 Research Project “Innovating Climate services through Integrating Scientific and local Knowledge (I-CISK)”. This research project is a part of the European Union’s Horizon 2020 Framework Programme call, “Building a low-carbon, climate resilient future: Research and innovation in support of the European Green Deal (H2020-LC-GD-2020)”, and has been developed in response to the call topic “Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation (LC-GD-9-2-2020)”. This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101037293.

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