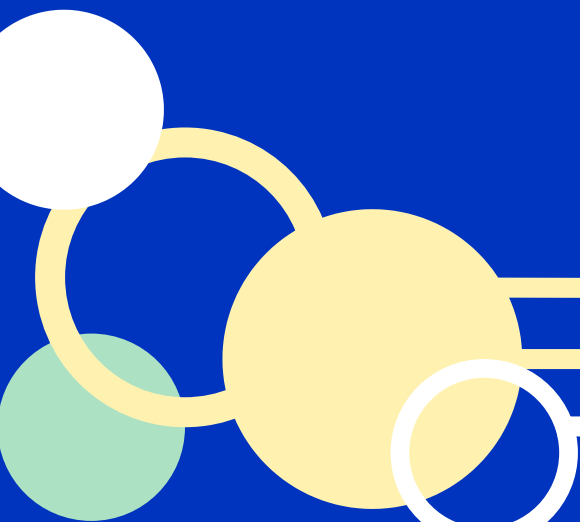


Climateurope2 FESTIVAL

Uniting science, services, and standards
for a climate resilient future

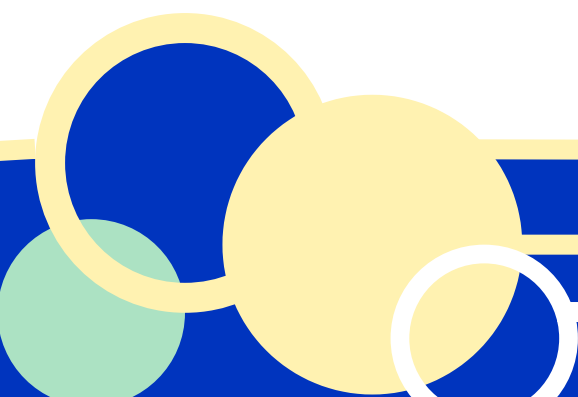
March 11-13 2024, Venice

Summary



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Climateurope2 FESTIVAL

Uniting science, services, and standards for a climate resilient future

The Climateurope2 Festival, which took place in Venice, Italy, from March 11 to 13, 2024, was an innovative event that differed from traditional scientific conferences by incorporating artistic, capacity-building and participatory activities. It included a combination of plenary sessions and interactive formats such as World Cafés. In addition, a marketplace allowed visitors to network and learn about other projects and initiatives.

The festival served as an ideal platform to foster discussion and knowledge sharing among people from various sectors related to climate services. With a large attendance, many participants stayed for the entire event.

The central themes of the festival revolve around themes, particularly selected to encourage the mingling of different types of audiences. The collected input will be invaluable in expanding the community network and identifying experiences to inform standardization recommendations. In the following pages, you'll find takeaway messages from the different sessions of the festival.





- | | |
|---|---|
| Jaroslav Mysiak
Euro-Mediterranean
Centre on Climate Change
(IT) | Veronica Grasso
World Meteorological
Organization (CH) |
| Carlo Cacciamani
Italian Meteorological Service
(IT) | Daniela Jacob
GERICS (DE) |
| Francisco Doblaz-Reyes
Barcelona Supercomputing
Center (ES) | Asun Lera St. Clair
DNV (NO) |
| Carlo Buontempo
European Centre for Medium-
Range Weather Forecasts (UK) | |

Takeaway messages

- The common thread throughout the session was the value chain established from the production of climate data, specifically from C3S and from the new technologies employed to develop Destination Earth's Digital Twin, all the way to the regional and local-scale utilisation of such data.
- The innovation brought from Destination Earth is also technological, aiming to inform the future generation of climate services that will be based on the digital twin technology and approach. The digital twin will create a new way to interact with climate data, allowing to pose "what if" questions and facilitating the relationship between the climate model and decision-makers.
- National coordination and local action are crucial to effectively meet user needs and improve interaction. The digital twin technology will have to be scaled to regional and local levels to maximise the effectiveness of risk reduction actions, benefiting sectors such as early warning systems and agricultural practices. The future of risk management depends on adopting innovative solutions that combine local data and advanced technologies to protect communities and territories.



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EU MISSION ADAPTATION
 Transformative change in regions with local authorities
 A CALL FOR ACTION!

Agora → a Horizon Europe initiative
 USING DIGITAL TOOLS
 Citizens and communities engagement
 Learning, Communication, Consultation
 Principles
 Participatory Process
 Technical choices
 Social Justice & Equity
 Guidance

Climate risk analysis tool
 DROUGHT
 Risk assessment
 Framework
 Cascading fund
 Climax Project
 Accessing damages from a physical to an economical point of view
 A portal with all the data to adaptation

Nature-based solutions are not a gadget!
 Accelerating change
 FLOOD
 Transforming adaptation using natural-based solutions
 Arcadia project

Pyramid:
 75 member states
 150 communities and regions
 citizens, communities and regions
 PREPARE EUROPE FOR CLIMATE DISRUPTIONS
 ACCELERATE TRANSITION TO A RESILIENT FUTURE
 BUILD RESILIENCE

Day 1

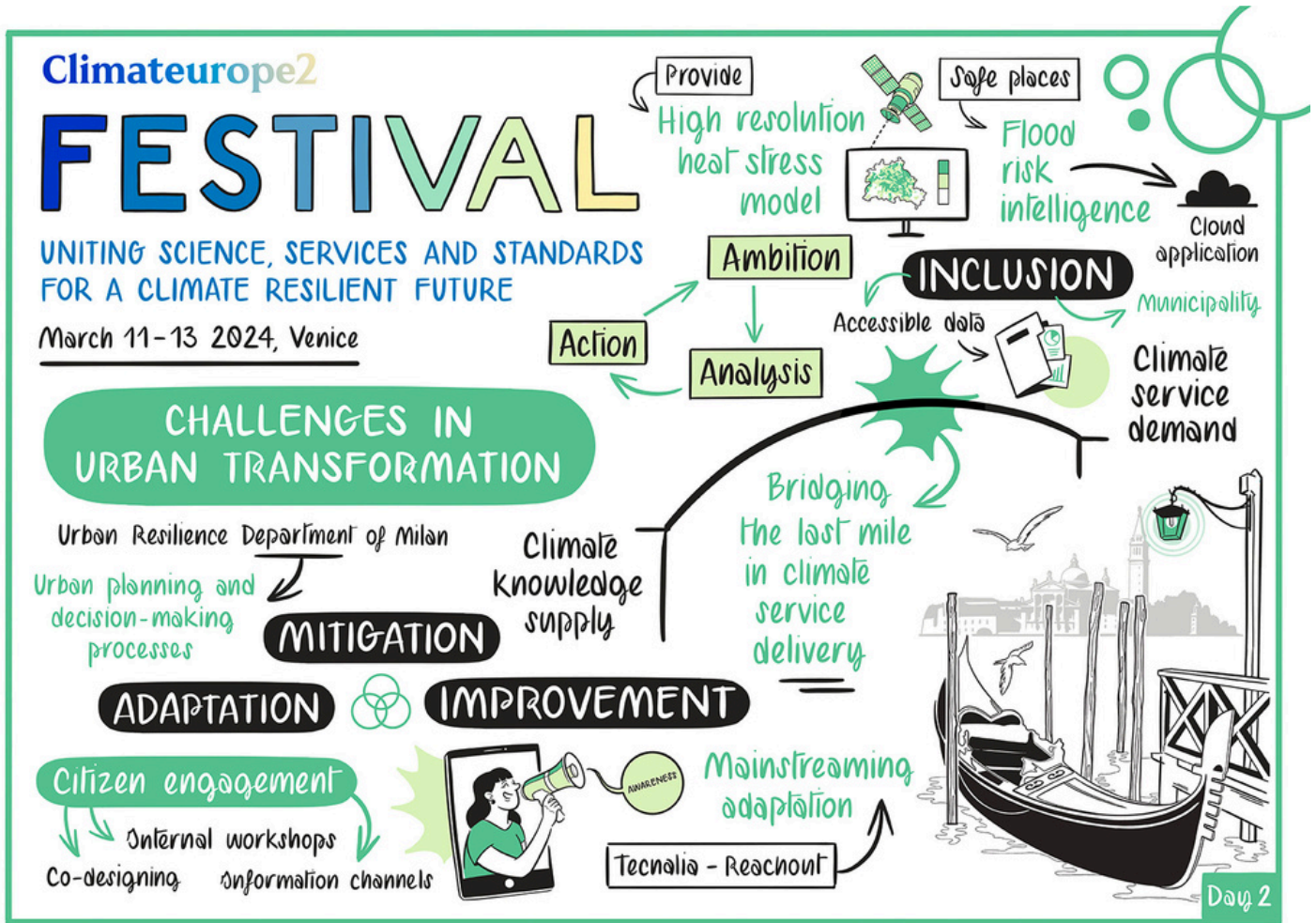
Anna Pirani Euro-Mediterranean Centre on Climate Change (IT)	Milana Vuckovic European Centre for Medium-Range Weather Forecasts (UK)
Philippe Tulkens European Commission (BE)	Dina Del Tosto Comune L'Aquila (IT)
Arianna Cecchi Attractiveness Research Territory of Emilia-Romagna (IT)	Cristina Loureiro Coelho Setúbal municipalitz (PT)
Michaela Bachmann International Institute for Applied Systems Analysis (AT)	Nicola Loglisci CIMA Research Foundation (IT)



Takeaway messages

- EU Mission Adaptation represents an opportunity to connect regional and local authorities with the best knowledge available in Europe, thus fighting fragmentation, especially in information, and bringing transformative change in the regions and local authorities. Testing and deploying concrete solutions through projects such as the ones presented during this session, CLIMAAX and ARCADIA, is one of its crucial ramifications.
- Local and national authorities, as well as financial institutions, often operate with codes and norms that are not prepared for the future, sometimes tampering with the design of adaptive solutions. It is crucial to bring these norms up to date. Standardisation of risk assessments and the use of climate data in these assessments are part of this challenge.
- Since the best incentive for investors, engineers, planners and designers is profit, projects must mention the costs of adaptation measures and the costs of possible damage caused by climate change. Adaptation requires a dynamic mindset and the willingness to bring change wherever needed, to build a resilient future successfully.

Challenges in urban transformation



Anna Pirani Euro-Mediterranean Centre on Climate Change (IT)	Milana Vuckovic European Centre for Medium-Range Weather Forecasts (UK)
Philippe Tulkens European Commission (BE)	Dina Del Tosto Comune L'Aquila (IT)
Arianna Cecchi Attractiveness Research Territory of Emilia-Romagna (IT)	Cristina Loureiro Coelho Setúbal municipalitz (PT)
Michaela Bachmann International Institute for Applied Systems Analysis (AT)	Nicola Loglisci CIMA Research Foundation (IT)

Takeaway messages

- Climate services, tailored to the identified risk, must support business and scientific decisions, especially locally. It is important to look at the municipal administration as a partner for co-designing resilient and sustainable pathways, but it is also crucial to mobilise citizens to co-design their needs and provide innovative tools for their engagement. Citizens' awareness and participation must be a priority for sustainable and resilient urban planning and therefore projects must be based on a citizen-first approach.
- As local-scale authorities are on the frontline of adaptation, it is important to notice that municipality/regional administration often does not have the internal capacity, knowledge, or experience to tackle climate change issues effectively. Liaison figures are fundamental to bridge the gap between science and policy.
- The creation of standards for climate adaptation, also in the context of infrastructure, is already in the making. Those involved in the EU Mission Adaptation must become familiar with these standards. Climateurope2 is the local authorities' way of having a voice and making a difference in the creation of these standards.



Water management transformation challenges

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Life Climax Po → Climate smart water resources management
 Scott → Seasonal, sub-seasonal and weekly forecast → 12 → Aspect: Downscaling and extreme events

ENGINEERING vs GOVERNANCE (scales)
 We have to imagine future pathways and be clever at communicating them!

WATER MANAGEMENT TRANSFORMATION CHALLENGES

Water is a top adaptation priority
 Why are we so slow at delivering our projects?
 Why are so many projects still in the drawer?
 Mediterranean water
 Imbalance between north and south
 We need to change our CULTURAL AND POLITICAL STRATEGIES
 Po river
 Drought or scarcity?
 WITHDRAWAL
 MALADAPTATION

Day 2

Veronica Casartelli Euro-Mediterranean Centre on Climate Change (IT)	Paolo Leoni Po River Basin Authority (IT)
Carlo Giupponi Ca' Foscari University of Venice (IT)	Cinzia Alessandrini Agenzia prevenzione ambiente energia (IT)
Nikos Skondras Global Water Partnership - Mediterranean (GR)	Aleksandra Krzic Republic Hydrometeorological Service of Serbia (RS)
Francesco Tornatore Po River Basin Authority (IT)	

Takeaway messages

- Climate services can play a crucial role in supporting the reduction of adverse impacts associated with water-related disasters and water resource management decisions.
- Strong cooperation and collaboration among scientists, public authorities, decision-makers, the private sector, and citizens is needed.
- There is a need for more comprehensive Early Warning Systems.
- The tools we develop should be more flexible and modular to ensure their sustainability and use over time.
- Both engineering and governance should be improved. We must increase our knowledge and understanding of the systems we deal with and improve, adapt and transform our governance systems.
- We need to be able to imagine the future under uncertainties and the pathways towards a better future, as well as to be able to communicate them!



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PARTICIPATORY DEEP DIVES WITH CLIMATE SERVICE USERS

EVALUATION
Not being naive → **EQUITY** (Key principles)
INCLUSION (Resources) → **TRANSPARENCY**
ACCURACY → **TRUST** (Traceability of the source)
Users of the centre
Question the question! → **ACCOUNTABILITY** (Does it limit innovation?)

Aspect survey
Data from countries with larger population

Coordination in standardisation

90% see value in using climate information → **CONFIDENCE AND QUALITY OF THE INFORMATION**

Day 3

- | | |
|---|--|
| Eelco Kruizinga
DNV (NO) | Isadora Jimenez
Lobelia Earth SL (ES) |
| Sam Grainger
University of Leeds (UK) | Grit Martinez
Ecologic Institute (DE) |
| Jorge Paz
Tecnalia (ES) | Andreas Villwock
Helmholtz Centre
Hereon (DE) |



Takeaway messages

- Climate services must be forged through robust user engagement, assuring user's narratives are central in constructing the services and their usability for vulnerabilities and opportunities.
- It is of utmost importance to ensure climate services are comparable to ensure their value and demonstrate their quality.
- This comparability is achieved through standardisation of key components with a focus on the robust integration of all stakeholders' views in selecting and evaluating the appropriate climate data, integration of locally relevant knowledge and information, transparency, and thorough evaluation of results.
- Accountability, capacity building and accessibility, including free access for those without ability to pay, are key criteria for equitable climate services.

Communicating climate knowledge: Bridging the gap



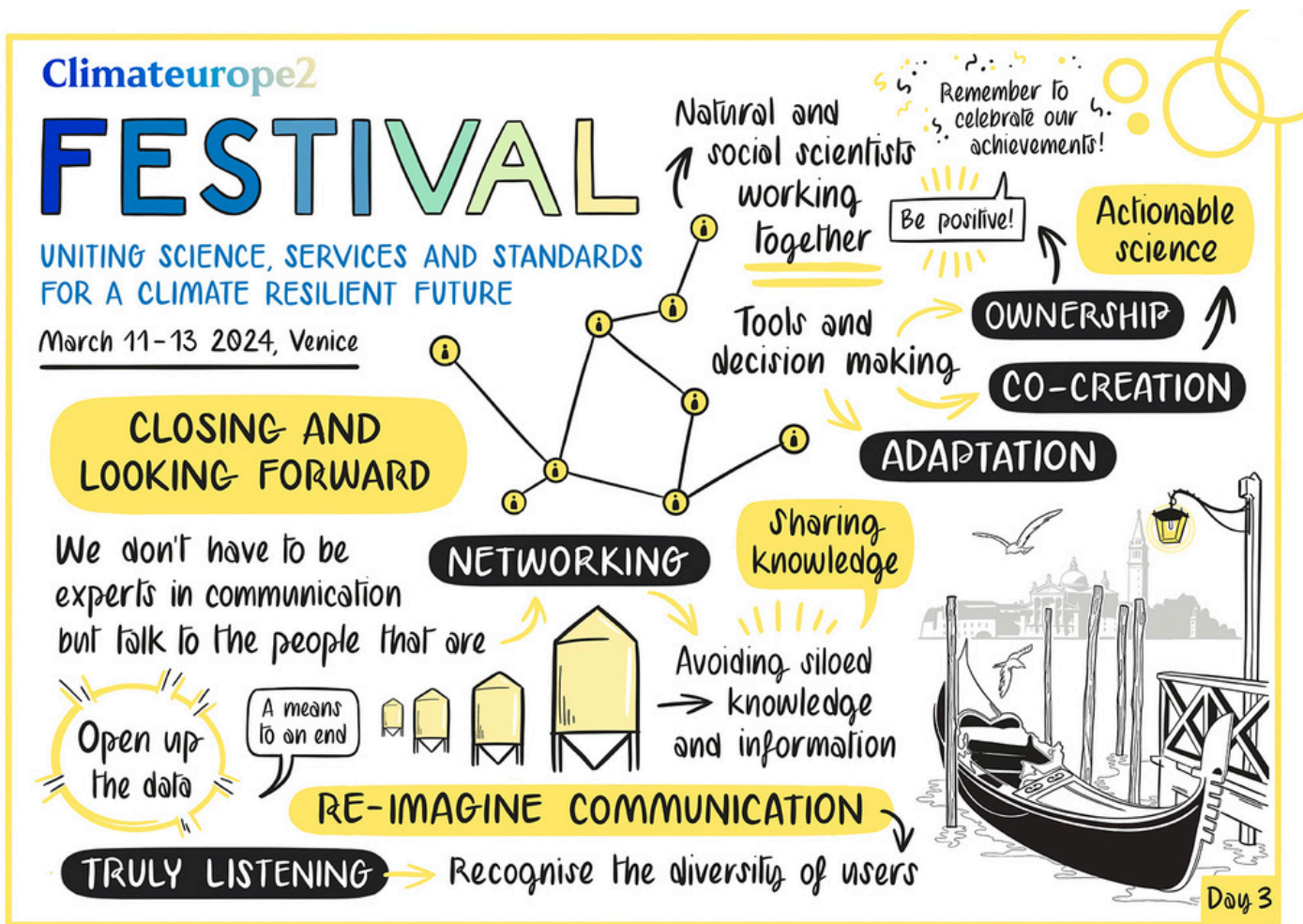
- Mauro Buonocore**
Euro-Mediterranean
Centre on Climate
Change (IT)
- Bart van den Hurk**
Deltares (NL)
- Kaelin DeLong**
Vrije Universiteit (NL)
- Angela Morelli**
Infodesign Lab (NO)
- Vera Penêda**
European Journalism
Centre (NL)
- Vladimir Djurdjevic**
University of Belgrade (RS)



Takeaway messages

- To effectively communicate climate science, it is essential to involve through participatory processes scientists and communication professionals. Together, they can identify the right words develop a shared strategy and content.
- In climate communication, certain words like "uncertainty" stand out for their relevance in decision-making processes. One of the biggest challenges for effective climate communication to choose the best way to communicate uncertainty, which should not be hidden nor feared, but embraced as a fundamental element of scientific research.
- The collaboration between science and journalism relies on a shared search for common ground and engaging stories. Solutions can lead to a constructive narrative about climate science's achievements and contributions to public life and socio-economic systems.
- Scientists don't need to be communication experts, but they should be open to collaborating with those who are. They should be willing to share and explain the data they produce, using the expertise of communicators, like journalists and artists, that can help build and circulate an effective message.

Closing and looking forward



Mirjana Volarev Center for the Promotion of Science (RS)	Roger Street Euro-Mediterranean Centre on Climate Change (IT)
Thomas Koetz Climate Knowledge and Innovation Community (NL)	Dionisio Perez Blanco University of Salamanca (ES)
Elena Lopez Gunn ICATALIST S.L. (ES)	Francisco Doblaseres Barcelona Supercomputing Center (ES)

Takeaway messages

- Our first Festival was closed with the announcement of the next Festival, which will be held in Belgrade. To engage the general public in this underrepresented European region, CPN plans to use a very important tool - art. This second Climateurope2 Festival we will give voice to our community while attracting new and diverse members, and promoting climate services - all with the goal to move closer to an equitable climate services community of Climateurope2.
- Our distinguished speakers discussed the importance of communicating climate change, the value of open data and knowledge, the significance of trust, the importance of collaboration in climate services, and the need for further transformation towards usable and used climate services.
- Closing the first Festival was a huge success. We welcomed participants from different countries and backgrounds, representing different sectors to share their perspectives, ideas and exchanging knowledge.



Other initiatives present at the festival:

- Agenzia Meteo Italia
- AGORA
- ARCADIA
- ASPECT
- C3S
- CLIMAAX
- CLIMACQUILA
- CLIMAX-PO
- COALESCE
- Connecting Europe Facility
- DESIRMED
- DestinE
- EJC
- ESABCC
- GEMWET
- Global State of Climate Services
- GWP-MED
- I-CHANGE
- InfoDesign
- IPCC
- MAGICA
- MEDECC
- MIP4Adapt
- NATURANCE
- PATH2RESILIENCE
- PEERS
- PIISA
- PROVIDE
- REACHOUT
- SAFERPLACES
- TALANOA
- TRANSCEND
- Venezia2021



Some links of interest



Revisit the sessions from the festival in our YouTube playlist:

bit.ly/CE2Festival_Sessions

View the interviews conducted with festival participants and organizers:

https://bit.ly/CE2Festival_Interviews

Visit the page on the festival on the Climateurope2 website:

bit.ly/CE2Festival

More about Climateurope2:

Join the Climateurope2 network!

bit.ly/CE2_join_us

Climateurope2 Network informative flyer

bit.ly/CE2network_flyer

Key Messages on standardisation of climate services:

bit.ly_CE2_9KeyMessages

Climateurope2 platform

<https://ce2-platform-beta.maris.nl/>

And follow us on social media!



@climateurope2



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