

KICK-OFF WEBINAR

Second Open Call

4th of April 2025



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CLIMAAX
climate ready regions

Agenda

TIME	SPEAKER	TOPIC
12:00-12:05	Davide Michielin (CMCC)	Welcome
12:05-12:15	Frederiek Sperna Weiland and Dana Stuparu (Deltares)	Introduction of the project
12:15-12:25	Erika Meléndez (UPC)	FSTP project schedule and procedures
12:25-12:35	Michaela Bachmann (IIASA)	Overview of the Framework
12:35-12:45	Christopher Polster (ECMWF)	Support mechanisms and the Handbook
12:45-12:55	Fulvio Biddau (CMCC)	Community of Practice
12:55-13:00	Davide Michielin	Q&A



Housekeeping



This session is recorded



Raise your hand to ask a question during
dedicated Q&A moment or write in the
chat



CLIMAAX

*CLIM*ate risk and vulnerability Assessment framework and toolbox

Frederiek Sperna Weiland (Deltares)

Project coordinator

4th of April 2025



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ADAPTATION TO CLIMATE CHANGE



EU Mission on Adaptation

Aims to support EU regions, cities and local authorities in their efforts to build resilience against the impacts of climate change

By 2030 support for at least 150 European regions and communities

CLIMAAX one of the ways

➡ Improved understanding of climate risks - now and in the future



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CLIMAAX objectives



Bring existing tools and services beyond state-of-the-art by improving accessibility and tailoring to the local contexts

CRA standardization and connection to European policies

Exploiting options for a sustainable service



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CLIMAAX - Key elements

Dana Stuparu (Deltares)
Project manager

4th of April 2025



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CLIMAAX in the first two years

Project started January 2023 – runs until December 2026

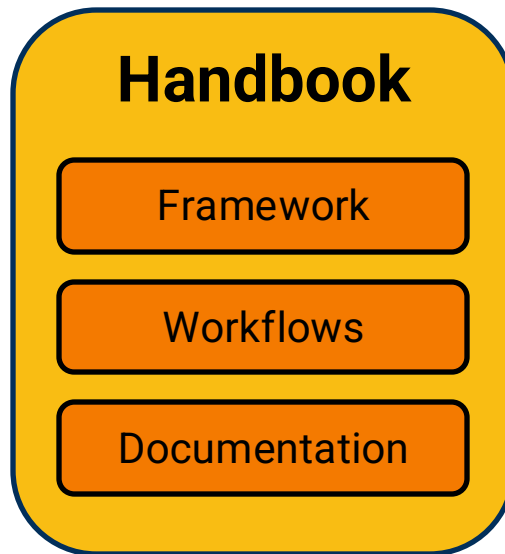
- Development of multi-hazard CRA Handbook – Framework & Toolbox
- Pilot applications to test the CRA workflows: *Zilina, Finland, Catalunya, Setubal, Latvia*
- First regions batch (37 regions) started on the 1° of October 2024 & submitted their first deliberable end of March



CLIMAAX Handbook

Website: handbook.climaax.eu

- **Climate Risk Assessment (CRA)**
- Created by CRA experts
- Conceptual and technical guidance
- Experience from pilot regions
- Active Community of Practice (COP)



CLIMAAX Framework and substeps

Norms & principles

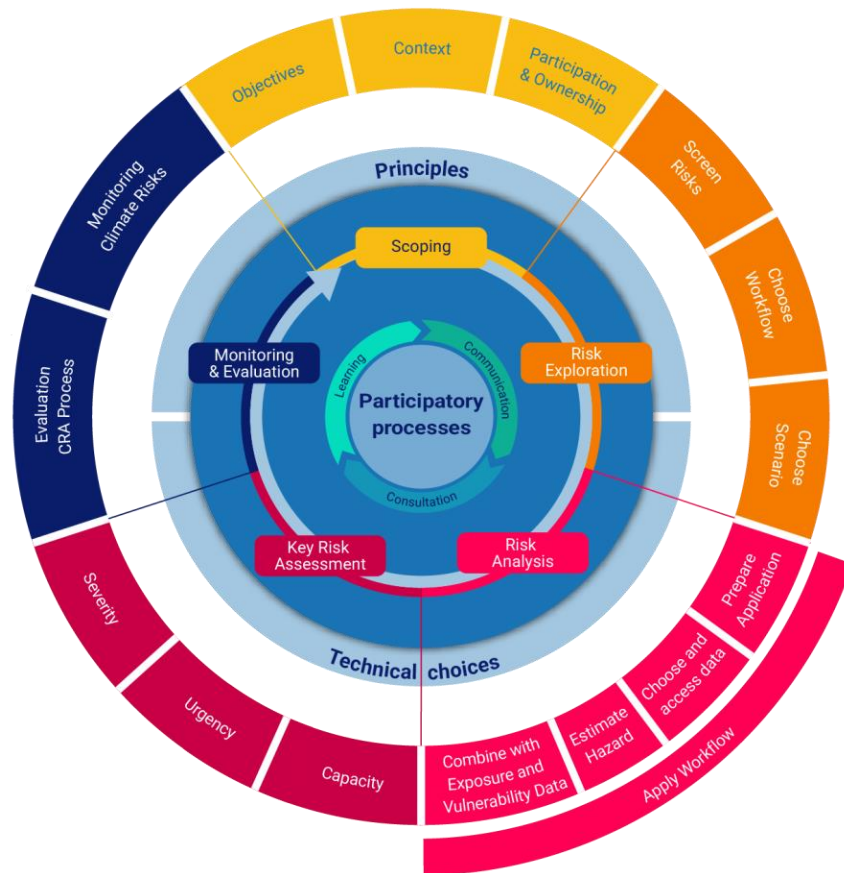
- Inventory of experience, best practices
- Consultation in regions & sectors

Practical guidance

- Quality assurance
- Comparability for multi-risks
- Guiding questions

Follow-up

- uptake into DRM and climate adaptation strategy



About us

The CLIMAAX project
Funding opportunities

CRA Steps

What is the CLIMAAX Framework?
Before you start
Risk Exploration
CRA Datasets
Risk Analysis
Key Risk Assessment
Monitoring and Evaluation
Connect CLIMAAX with Climate Risk Management

Risk workflows

How to use risk workflows

RIVER & COASTAL FLOODS

HEAVY RAINFALL

HEATWAVES

DROUGHTS

FIRE

SNOW

WIND

Resources

Coding resources

Glossary

Risk Exploration



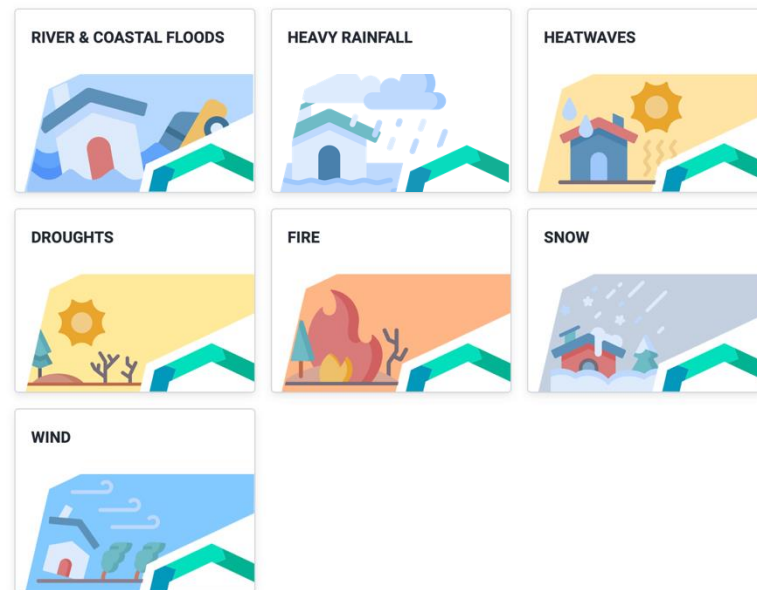
Carrying out the Risk Exploration step kicks off a comprehensive process that starts with identifying hazards and risks that are most apparent or of significant concern to key stakeholders and the wider public. Leveraging current knowledge, including insights from experts and stakeholders identified in the scoping phase, allows a first identification of impacted sectors (including activities, supply chains, processes, and infrastructure) and geographic areas at risk (such as ecosystems, landscapes, and communities). It is useful for stakeholders to consider past and ongoing impacts on different sectors, areas and vulnerable groups, and connect them to specific hazards and risks to make "risk" more tangible at this early stage of the CRA process. A deeper dive into the system aspects may concretize affected entities (key systems, elements, sectors, communities, social groups, sub-regions), functions or processes that hold significant value in the local context (e.g. stakeholder interests, community priorities or public agenda) and a priori reveal (transboundary) connections or dependencies. These considerations are key for exploring risk in more depth and to choose Risk Workflows. From this step, potential risks can be narrowed down and prioritized by broadly exploring hazards, exposures

Guiding questions

- How is the scoping phase applied? Which parts of the scoping phase are relevant for the workflow and scenario selection?
- How does the existing stakeholder knowledge come into play?

CLIMAAX Workflows

- Implementation of **Risk Analysis**
- Risk = Hazard × Exposure × Vulnerability
- Grouped by hazard
- **Starting point**, building blocks, examples
- **To be adapted to the local context**



Project support

- **Service desk** for JupyterHub, Workflows and Framework
- Forum (public)
- Drop-in sessions
- Explanatory videos

Support

Support is offered by the CLIMAAX project for climate risk assessments following the Framework and utilizing the workflows in this Handbook.

Public and exclusive support

The Handbook with the Framework description, workflows, technical documentation and supporting pages are **public** and open to everyone. You can reach out to us with questions and [contribute](#) via the Forum and GitHub, independent of your relationship with the CLIMAAX project.

The [service desk](#) and [JupyterHub](#) are **exclusively** offered to our project partners and participating regions that receive financial support through the CLIMAAX project (i.e., selected regions of the CLIMAAX open calls).



Financial Support for Third Parties

Schedule and Procedures

Erika Meléndez & Gisela Vilalta
CRAHI-UPC

4th of April 2025



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CLIMAAX FSTP 2nd Open Call SELECTED PROJECTS

37 Projects from 19 countries

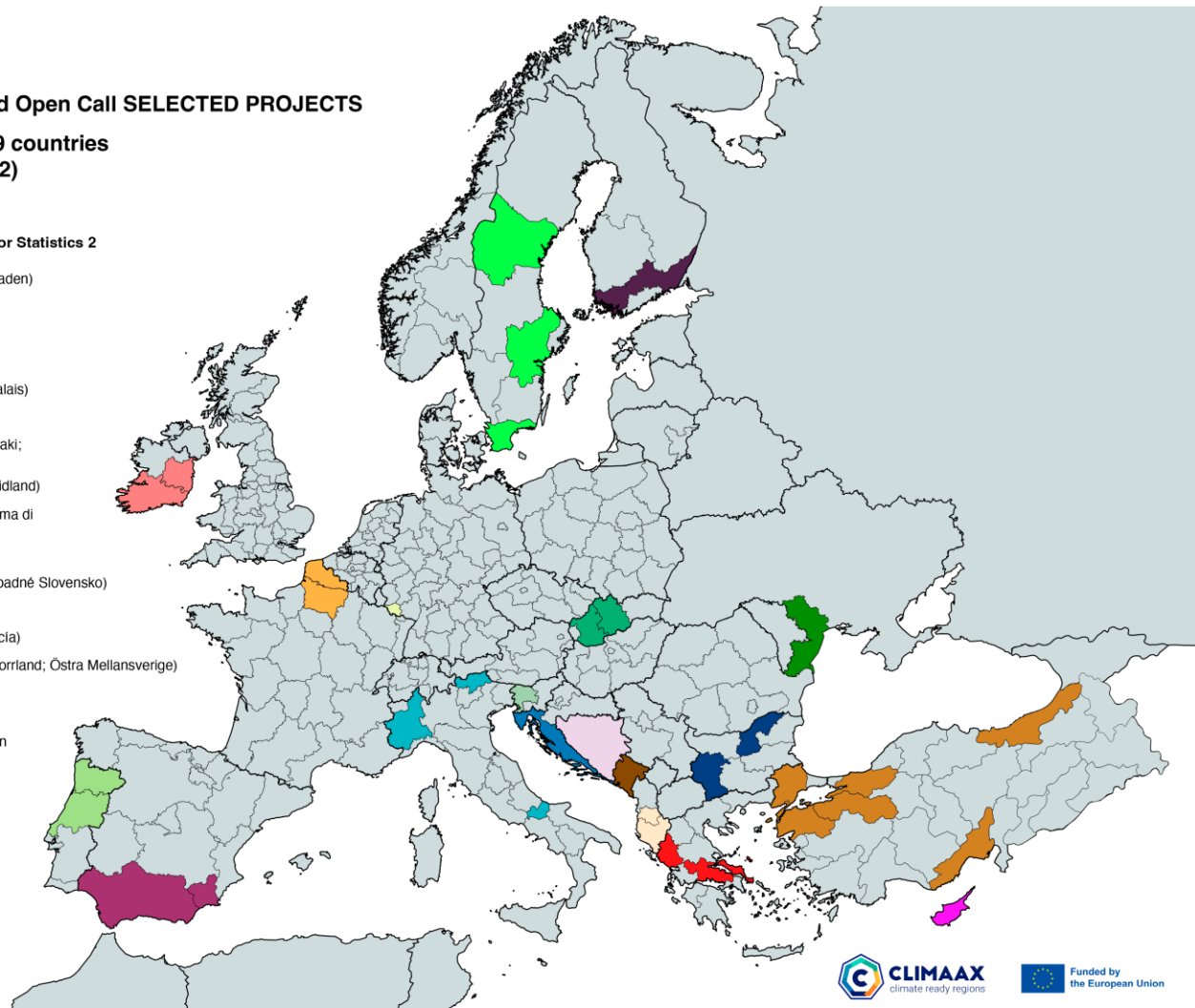
33 Regions (NUTS 2)

Nomenclature of Territorial Units for Statistics 2

- Bulgaria (Yugoiztochen; Yugozapaden)
- Croatia (Jadranska Hrvatska)
- Cyprus (Kýpros)
- Finland (Etelä-Suomi)
- France (Picardie; Nord-Pas de Calais)
- Germany (Saarland)
- Greece (Anatoliki Makedonia, Thraki; Sterea Elláda)
- Ireland (Southern; Eastern and Midland)
- Italy (Piemonte; Provincia Autonoma di Bolzano-Bozen; Molise)
- Portugal (Norte; Centro)
- Slovakia (Stredné Slovensko; Západné Slovensko)
- Slovenia (Zahodna Slovenija)
- Spain (Región de Murcia; Andalucía)
- Sweden (Sydsverige; Mellersta Norrland; Östra Mellansverige)

Associated countries

- Albania (Central Albania; Southern Albania)
- Bosnia Herzegovina
- Montenegro
- Türkiye (Marmara Region; Adana Subregion; Trabzon Subregion)
- Ukraine (Odessa)



Project planning and timeline

**PHASE 1: Common
Methodology - Multi-risk
climate assessment**

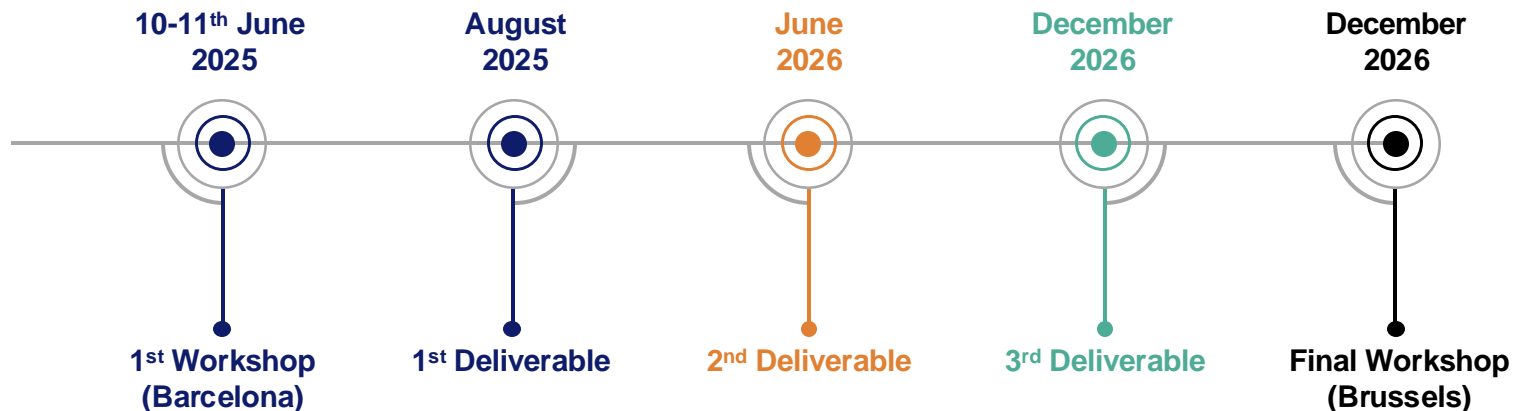
M1 - M6: Mar. 2024 – Aug. 2025

**PHASE 2: Refined
Regional/Local Multi-Risk
Assesment**

M7 - M16: Sep. 2025 – Jun. 2026

**PHASE 3: Adaptation
strategies and improved Risk
Management Plans**

M17 - M22: Jul. 2026 – Dec. 2026



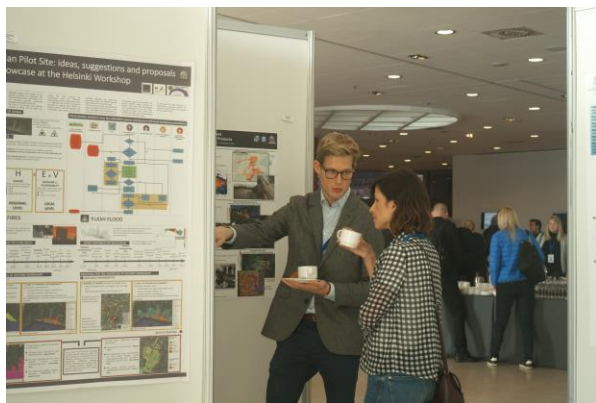
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Expected live meetings

**1° Workshop (Barcelona, ES):
10-11th June 2025**

Pilot sites and FSTP beneficiaries to
present experiences, challenges.



**Final Workshop (Brussels, BE):
December 2026**

Beneficiaries to present all Phases
final results .



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Deliverables review

PHASE 1: Common Methodology - Multi-risk climate assessment

M6: August 2025

PHASE 2: Refined Regional/Local Multi-Risk Assessment

M16: June 2026

PHASE 3: Adaptation strategies and improved Risk Management Plans

M22: December 2026

Deliverable 1. Implementation of the CLIMAAX common methodology for multi-risk assessment and analysis of the results

Deliverable 2. Refined regional/local high-resolution analysis and risk assessment and comparison of results

Deliverable 3. Contribution to local adaptation strategies and improved risk management plans



Deliverables review

**PHASE 1: Common
Methodology - Multi-risk
climate assessment**

M6: August 2025

**PHASE 2: Refined
Regional/Local Multi-Risk
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M16: June 2026

**PHASE 3: Adaptation
strategies and improved Risk
Management Plans**

M22: December 2026

Deliverable 1. Implementation of the CLIMAAX common methodology for multi-risk assessment and analysis of the results

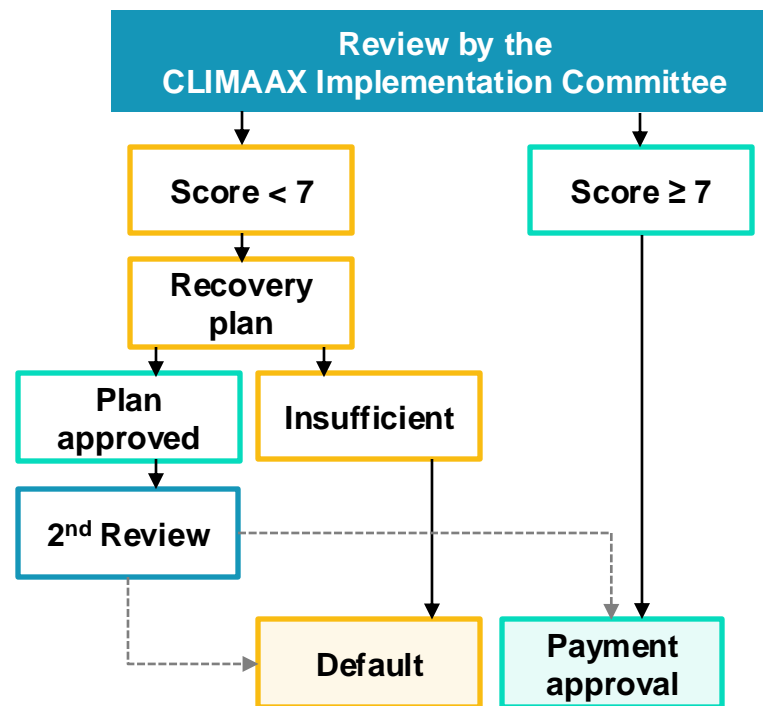
Deliverable 2. Refined regional/local high-resolution analysis and risk assessment and comparison of results

Deliverable 3. Contribution to local adaptation strategies and improved risk management plans

Information on how to submit the deliverables and guidelines to be shared in the next few weeks

Deliverables review

- Beneficiaries submit the Deliverables to the **CLIMAAX Implementation Committee**.
- The evaluation will be done based on the following criteria included in the SGA:
 - **Deliverable quality - 40%**
 - **Performance indicators - 50%**
 - **Deadline Compliance - 10%**
- Each criterion will be scored from 0 to 10.
- The **threshold** to continue with the next phase is **7 points**.
- If the Deliverable does not reach the threshold, a recovery plan will be ask.



Payments

- The payments will follow a lump sum scheme.

PAYMENT MILESTONES	DELIVERABLE	DATE	% TOTAL GRANT
Phase 1 CLIMAAX methodology	Multi-risk climate assessment	M6	30%
Phase 2 Refined local high-resolution risk assessment	Refined regional/local multi-risk assessment	M16	40%
Phase 3 Exploration of local adaptation strategies. and improved risk management plans	Adaptation and improved risk management report	M22	15%
Final payment	Final payment (delayed payment mechanism)	Est. November 2027	15%
TOTAL			100%

- Following the rules of the Horizon Europe program, a delayed payment mechanism will be applied to the 15% of the financial support amount awarded to each sub-project, which will be paid to the beneficiaries once the whole CLIMAAX project is completed.
- This should happen within 9 months after the end of the CLIMAAX project, expected on the 28th of February 2027.



Framing the Climate Risk Assessment Process

An introduction to the CLIMAAX Climate Risk Assessment Framework

Michaela Bachmann
IIASA

4th of April 2025

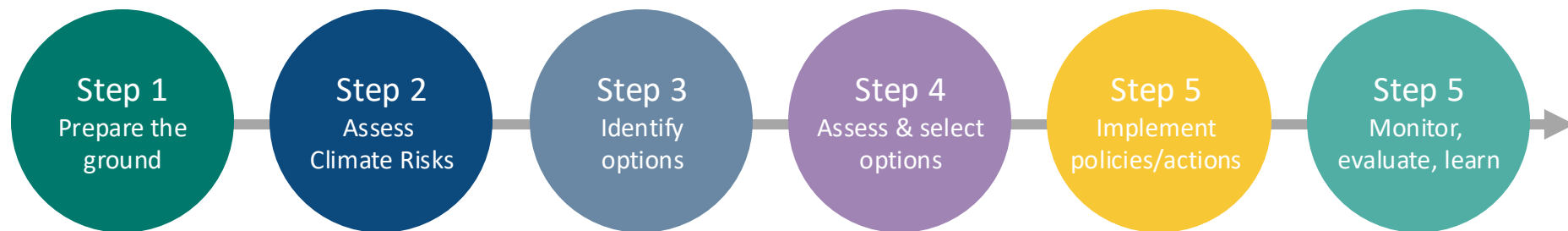


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Towards Climate Resilience



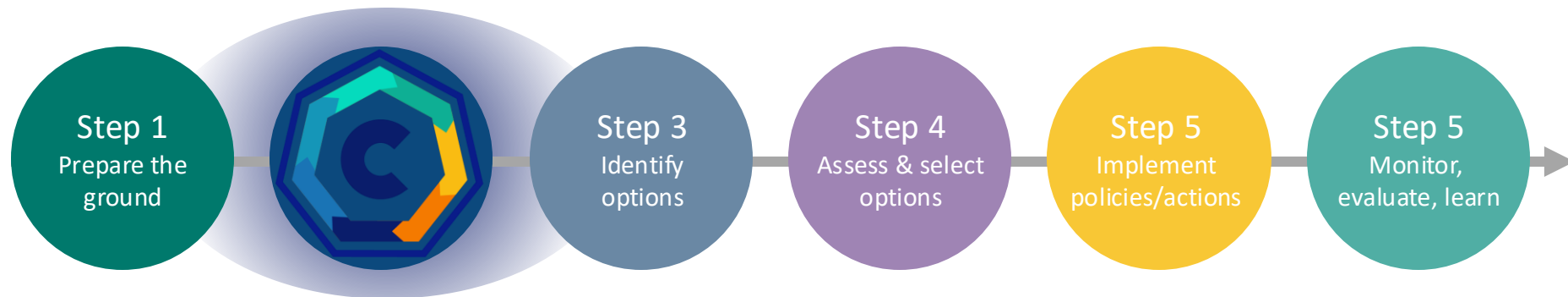
Source: Regional Adaptation Support Tool (EEA)



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Towards Climate Resilience



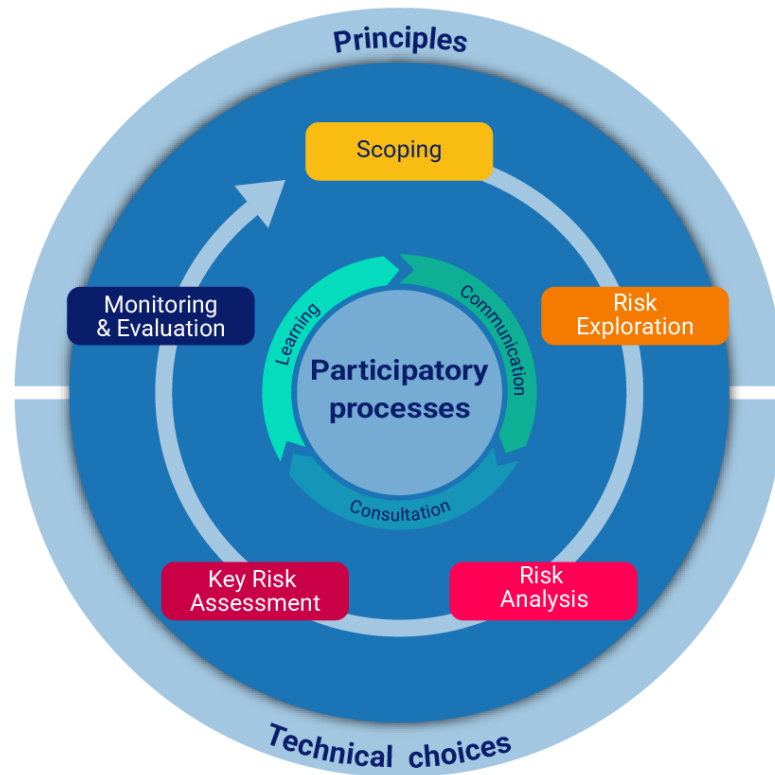
Source: Regional Adaptation Support Tool (EEA)



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The Climate Risk Assessment Framework



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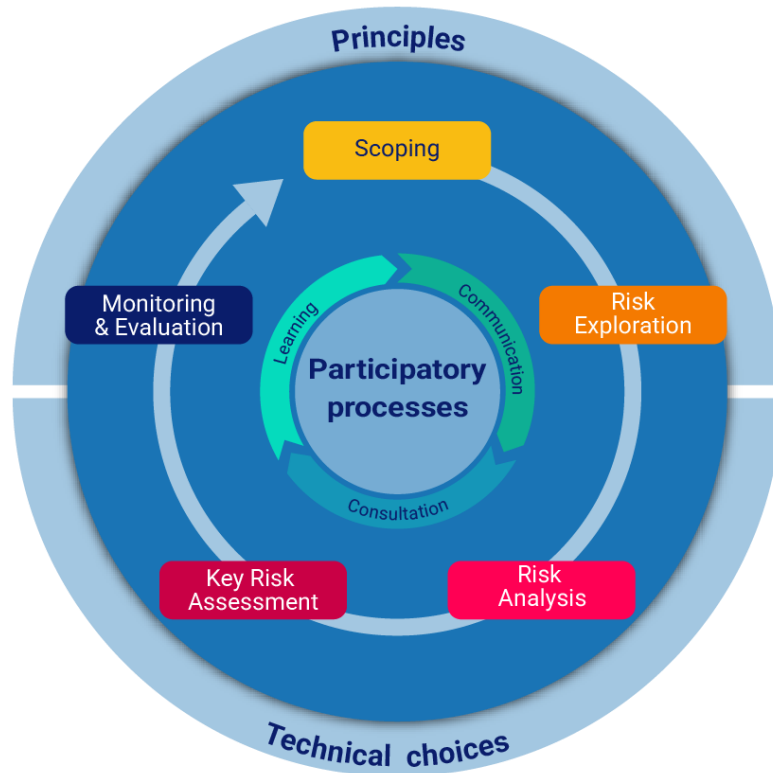
The Climate Risk Assessment Framework

Conceptual background

1

Principles

- Social justice, equity, inclusivity (**Just Resilience**)
- Quality, rigour, and transparency
- Precautionary approach



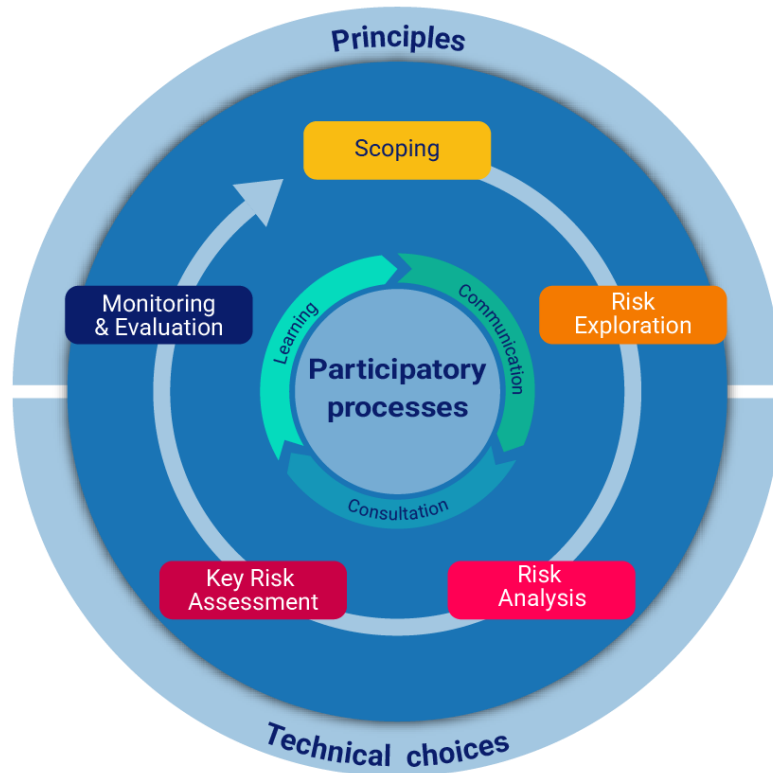
The Climate Risk Assessment Framework

Conceptual background

2

Technical Choices

- Climate change scenarios
- Climate models
- Choice of time horizon
- Integration of local data



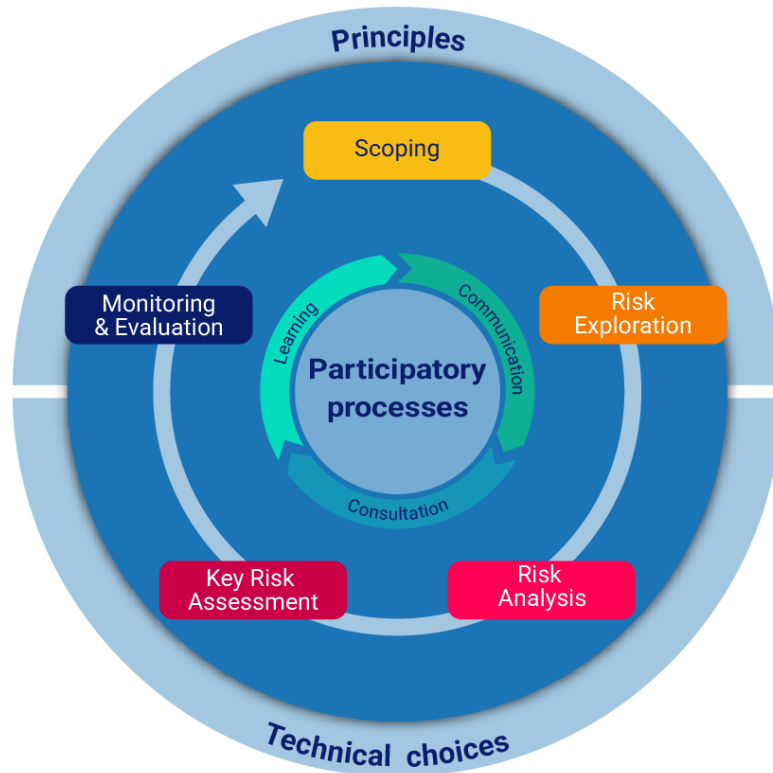
The Climate Risk Assessment Framework

Conceptual background

3

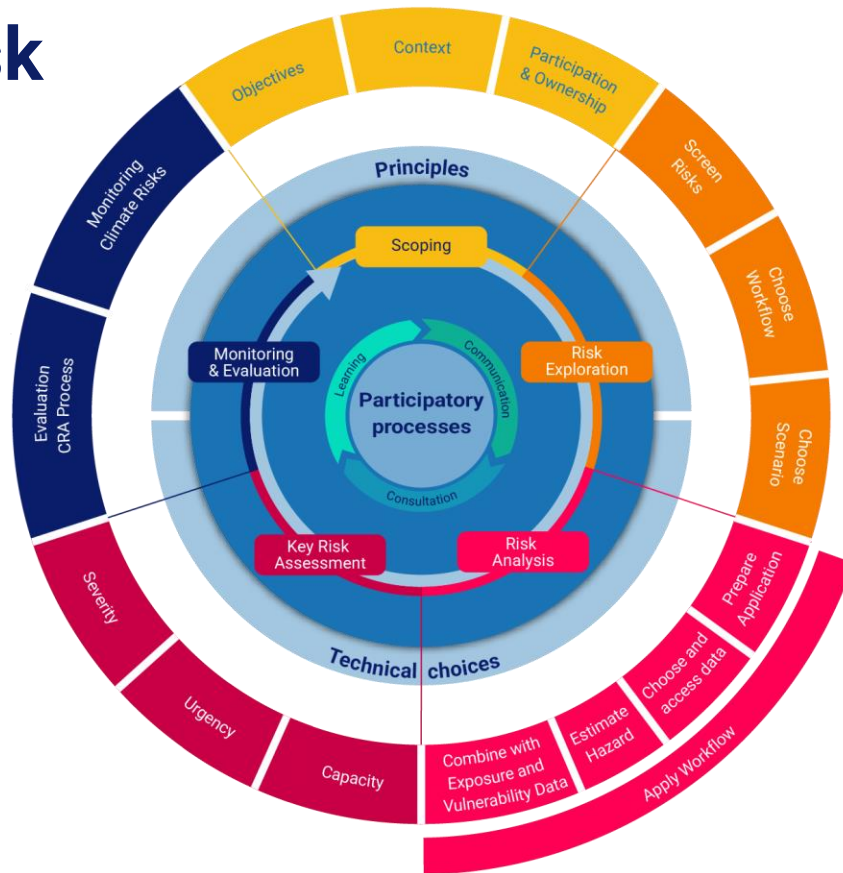
Participatory Processes

- Learning, communication, consultation
- Stakeholders, experts, priority groups



The Climate Risk Assessment Framework

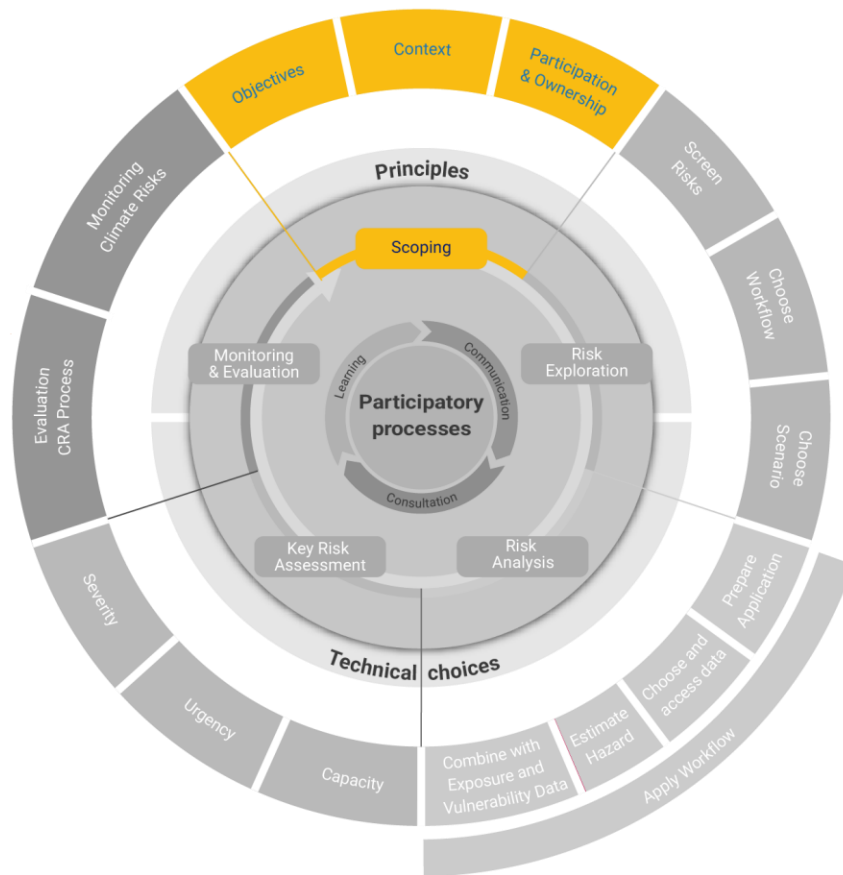
Operational steps



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Scoping



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Risk Exploration



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Risk Analysis

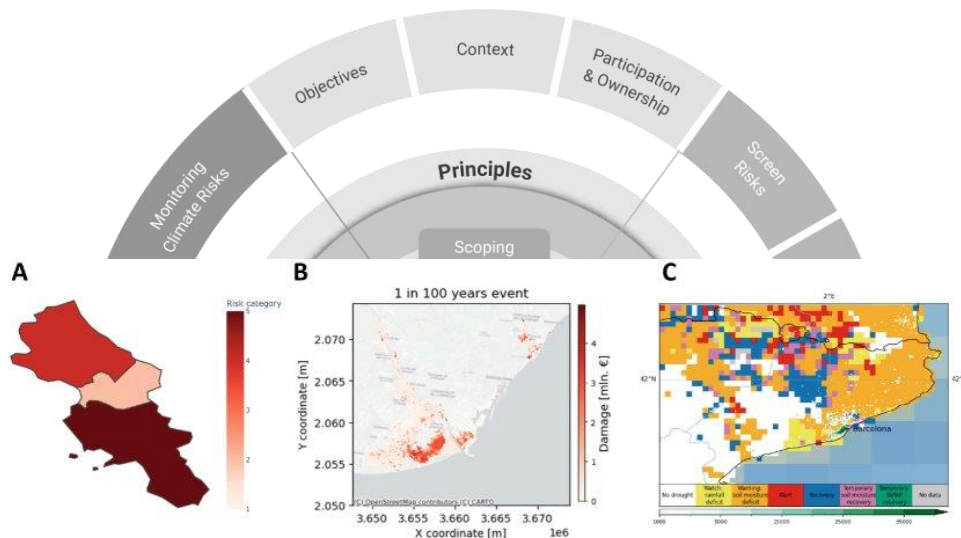


Fig. 7 Examples of the different outputs from the three risk assessment approaches with A drought risk indexing, B coastal flood damage, and C drought exposed population. Credit: CLIMAAX consortium. #



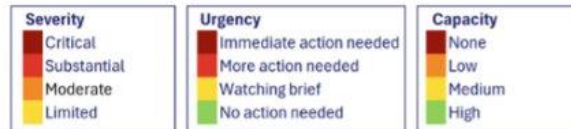
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Key Risk Assessment



Risk Workflow	Severity	Urgency	Capacity		Risk Priority
			Baseline CRM	Opportunities	
River flooding	Substantial	Immediate action needed	Low	High	1
Coastal flooding	Substantial	Watching brief	Low	High	4
Heavy rainfall	Substantial	Immediate action needed	Low	High	1
Heatwaves	Substantial	Immediate action needed	Low	High	2
Drought	Substantial	Immediate action needed	Low	High	2
Fire	Substantial	Immediate action needed	Low	High	3
Snow	Substantial	Watching brief	Low	High	4
Wind	Substantial	Immediate action needed	Low	High	3



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Monitoring & Evaluation

Funding opportunities

How to start

CRA steps

What is the CLIMAAX Framework?

Before you start

Scoping

Risk Exploration

Risk Analysis

a) Indicators for Climate Risk Monitoring

Workflow nonspecific indicators

Frequency, intensity, spatial distribution, and duration of climate events; public awareness and engagement; institutional capacity.

Workflow specific indicators

b) Indicators for the Evaluation of Climate Risk Assessment Process

Performance Indicator	Examples
Efficacy	Efficient use of resources, e.g. time, staff, cost
Usefulness	Raised awareness, improved understanding of risk (Public awareness and engagement, institutional capacity, funding and investment)
Impact	Applicability for Risk Assessment and CRM (number of times used, acceptance by experts and stakeholder, translation of results into CRM)

Resources

SNOW

WIND

Drought Risk

- Losses and damages to agriculture (crops, livestock)
- Availability of tap water
- Extent of agricultural areas and people affected

Heatwave Risk

- Health impacts (hospitalisations and fatalities)





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Step 1
Prepare the
ground



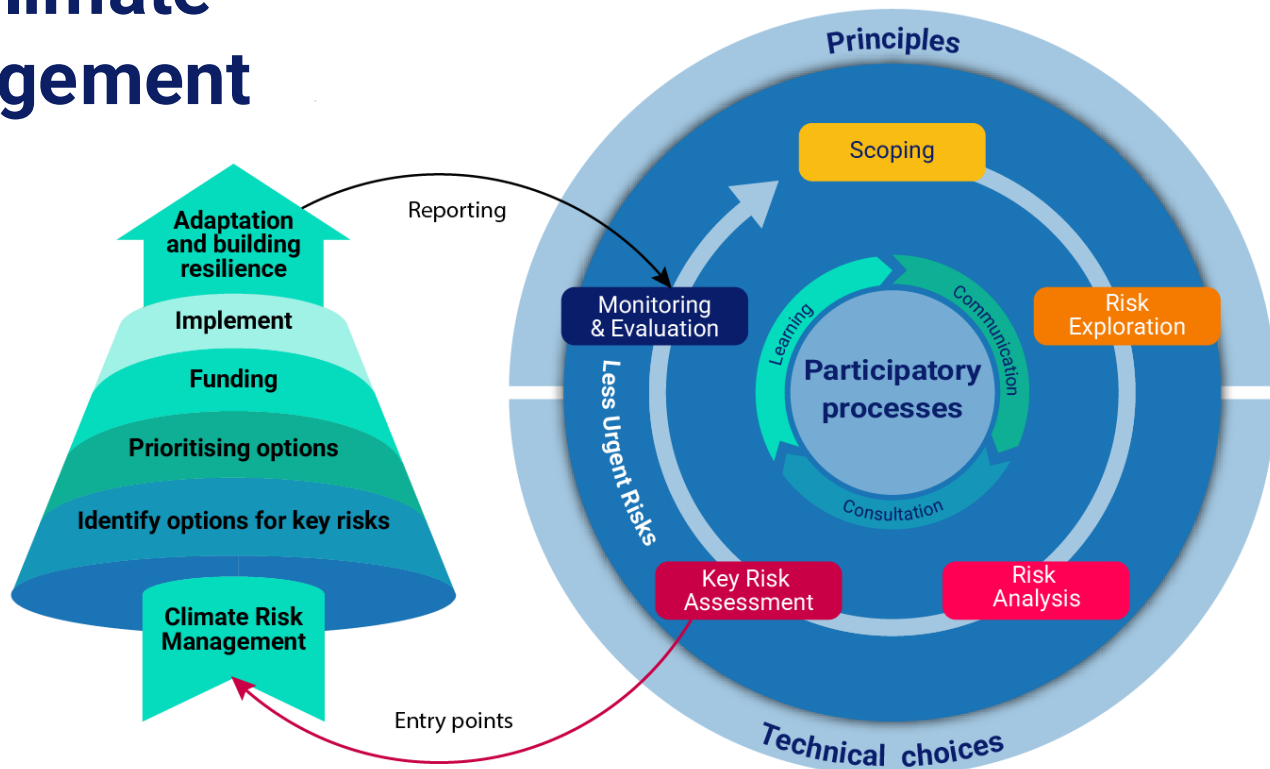
Step 3
Identify
options



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Towards Climate Risk Management



CLIMAAX Handbook

Christopher Polster, Fredrik Wetterhall
ECMWF

Handbook webinar
4 April 2025



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First stop for all CRA support

Open access!

- Framework
- Workflows
- Datasets
- Support information
- technical documentation
- Links to external resources

The screenshot displays the CLIMAAX handbook interface. On the left is a navigation menu with sections: About us, CRA steps, Risk workflows, Resources, and Join the community. The 'Risk Exploration' section is highlighted. The main content area features a large circular diagram titled 'Risk Exploration' which illustrates the process from 'Participatory processes' through 'Screening' to 'Technical choices'. Below the diagram, a text block explains that Risk Exploration starts with a broad screening of risks. A video player for 'CLIMAAX Framework | Risk Exploration' is embedded. To the right, a 'Guiding questions' sidebar lists key considerations for the screening phase. A 'Tip' box at the bottom provides advice on relying on factual evidence.

Risk Exploration

Risk Exploration starts with a broad screening of the risks (their underlying hazards, exposures and vulnerabilities) that are most apparent or of significant concern to key stakeholders and the wider public. A preliminary, rapid analysis of sectors (including activities, supply chains, processes, and infrastructure) and geographic areas at risk (such as ecosystems, landscapes, and communities) can be conducted based on insights from experts and stakeholders.

Guiding questions

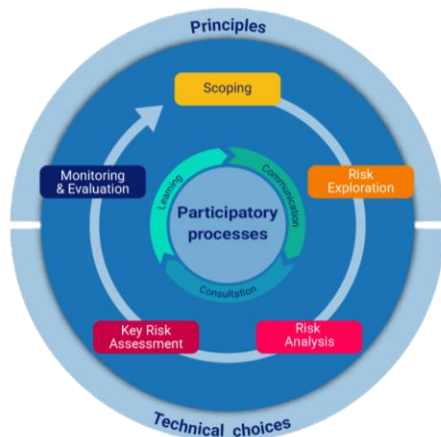
- How is the scoping phase applied? Which parts of the scoping phase are relevant for the workflow and scenario selection?
- How does the existing stakeholder knowledge come into play?

Tip

At this stage it's important to rely as much as possible on factual evidence regarding climate hazards, impacts and risks if available. The focus should especially lie on those hazards that are most likely to result in severe consequences for the region.

CLIMAAX Framework and guiding questions

Step-by-step through the CLIMAAX Framework



Summary videos



Risk Exploration starts with a broad screening of the risks (their underlying hazards, exposures and vulnerabilities) that are most apparent or of significant concern to key stakeholders and the wider public. A preliminary, rapid analysis of sectors (including activities, supply chains, processes, and infrastructure) and geographic areas at risk (such as ecosystems, landscapes, and communities) can be conducted based on insights from experts and stakeholders.

A deeper dive into the system aspects may highlight affected entities (key systems, elements, sectors, communities, social groups, sub-regions), functions or processes that hold significant value in the local context (e.g. stakeholder interests, community priorities or public agenda). This can reveal (transboundary) connections or dependencies which might be important for evaluating the respective risk outcome. The following subsections will now delve deeper into the screening of risks as well as the selection of workflows and climate scenarios.

Tip

At this stage it's important to rely as much as possible on factual evidence regarding climate hazards, impacts and risks if available. The focus should especially lie on those hazards that are most likely to result in severe consequences for the region.

Guiding questions

- How is the scoping phase applied? Which parts of the scoping phase are relevant for the workflow and scenario selection?
- How does the existing stakeholder knowledge come into play?

Guiding questions

Supporting information

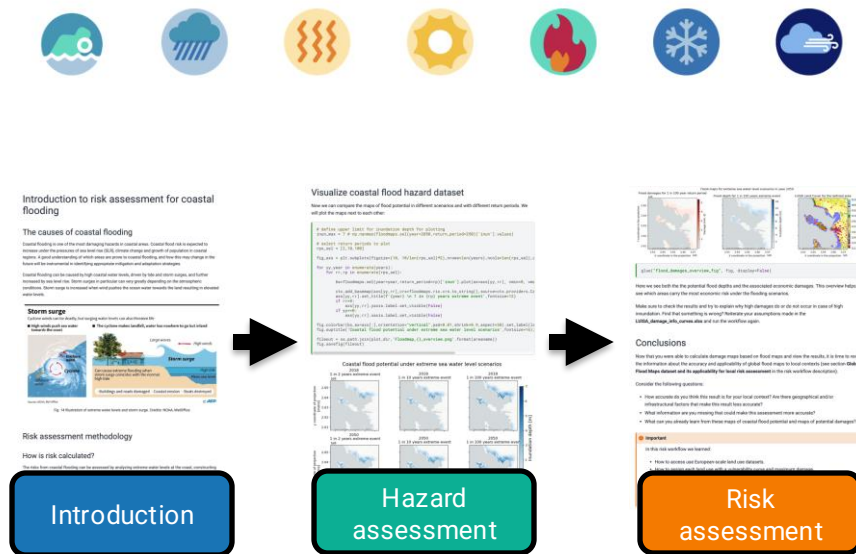


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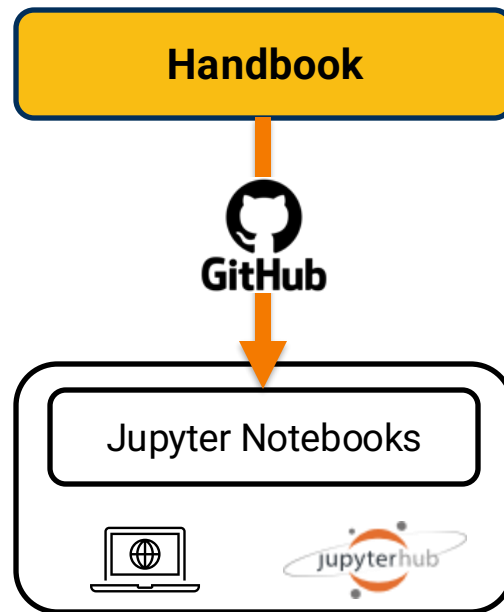
CLIMAAX Workflows

- Framework step 3: **Risk Analysis**
- Handbook: best place to **view** workflows
- Minimal set of pages per workflow:
 - Introduction
 - Hazard assessment
 - Risk assessment
- Supplementary information on datasets in framework and resources sections
- Our approach: “standardized flexibility”



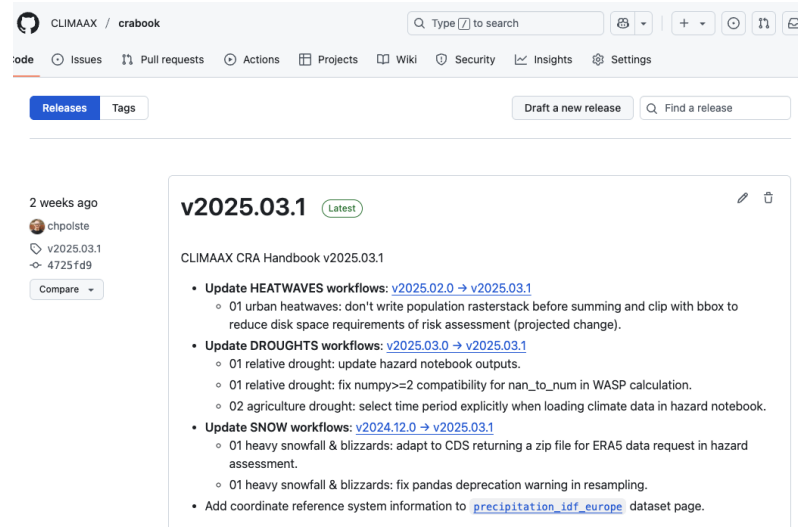
CLIMAAX Workflows: Handbook → GitHub → Jupyter

- Download workflows via **GitHub**
- Links in the Handbook:
 - A workflow from the CLIMAAX [Handbook](#) and [DROUGHTS](#) GitHub repository.
 - See our [how to use risk workflows](#) page for information on how to run this notebook.
- Interact with and execute notebooks in a **Python/Jupyter environment**
- Set-up instructions in the Handbook or use our JupyterHub



Ongoing Handbook development

- We continue to develop the Handbook – and you are part of the process!
- Follow our development: **release notes on GitHub**
- Bug fixes
- Clarifications
- New developments based on feedback and user requirements
- Take up of your developments



The screenshot shows the GitHub interface for the CLIMAAX / crabook repository. The 'Releases' tab is selected. The latest release, v2025.03.1, is highlighted with a 'Latest' badge. The release notes detail updates for HEATWAVES, DROUGHTS, and SNOW workflows, along with a new coordinate reference system information page.

CLIMAAX / crabook

Releases Tags

Draft a new release Find a release

2 weeks ago
chpolste
v2025.03.1
4725fd9
Compare

v2025.03.1 Latest

CLIMAAX CRA Handbook v2025.03.1

- **Update HEATWAVES workflows:** [v2025.02.0 → v2025.03.1](#)
 - 01 urban heatwaves: don't write population rasterstack before summing and clip with bbox to reduce disk space requirements of risk assessment (projected change).
- **Update DROUGHTS workflows:** [v2025.03.0 → v2025.03.1](#)
 - 01 relative drought: update hazard notebook outputs.
 - 01 relative drought: fix numpy>=2 compatibility for nan_to_num in WASP calculation.
 - 02 agriculture drought: select time period explicitly when loading climate data in hazard notebook.
- **Update SNOW workflows:** [v2024.12.0 → v2025.03.1](#)
 - 01 heavy snowfall & blizzards: adapt to CDS returning a zip file for ERA5 data request in hazard assessment.
 - 01 heavy snowfall & blizzards: fix pandas deprecation warning in resampling.
- Add coordinate reference system information to [precipitation_idf_europe](#) dataset page.

github.com/CLIMAAX/crabook/releases



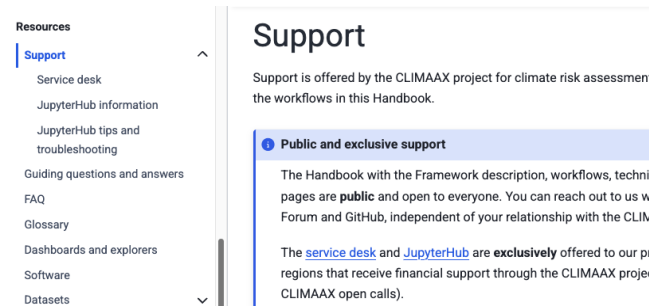
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Support Basics

We are here to support you! (and learn from you)

- Up-to-date information and links:
support section of the Handbook
- Let us know who is working in your team!
- **ECMWF account** to access support functions:
 - Service Desk
 - JupyterHub



The screenshot shows a web interface for the CLIMAAX project. On the left is a 'Resources' sidebar with a 'Support' link highlighted. The main content area is titled 'Support' and contains text about the support offered by the CLIMAAX project. A section titled 'Public and exclusive support' explains that the Handbook is public, while the Service Desk and JupyterHub are exclusive to certain regions.

Resources

- Support**
- Service desk
- JupyterHub information
- JupyterHub tips and troubleshooting
- Guiding questions and answers
- FAQ
- Glossary
- Dashboards and explorers
- Software
- Datasets

Support

Support is offered by the CLIMAAX project for climate risk assessment the workflows in this Handbook.

1 Public and exclusive support

The Handbook with the Framework description, workflows, technical pages are **public** and open to everyone. You can reach out to us via Forum and GitHub, independent of your relationship with the CLIM.


The [service desk](#) and [JupyterHub](#) are **exclusively** offered to our pilot regions that receive financial support through the CLIMAAX project (CLIMAAX open calls).



Service Desk

Questions? Problems? Access?

- Use our contact form at ECMWF (or open an issue on GitHub)
- Please don't contact Handbook authors directly
- First response in 3 working days
- **Drop-in sessions** every Monday: talk to us and other regions



Title

Description

Aa B I ...

Attachment (optional)

Drag and drop files, paste screenshots, or browse

Please specify the impact of your issue (optional)

None

For urgent operational issues needing immediate 24/7 assistance choose impact 1

Which service is your request related to? (optional)

☐ None

☐ CAMS / C3S

☐ Energy Hub

☐ Health Hub

☒ CLIMAAX

☐ Other



Resources

Support

Service desk

JupyterHub information

JupyterHub tips and
troubleshooting

Drop-in sessions

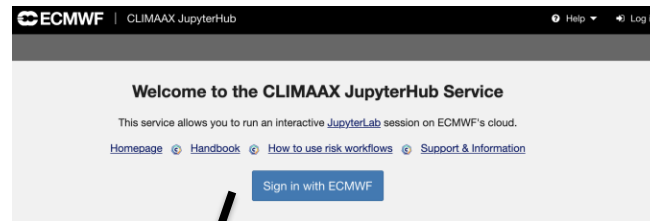
Drop-in sessions organized by the CLIMAAX support team. Calls and members of our [Community of Practice](#). Start alternating weekly between 11:00 and 15:00 CEST (Cen

- 7 April 2025: 15:00 CEST (13:00 UTC)
- 14 April 2025: 11:00 CEST (09:00 UTC)
- 21 April 2025: no session

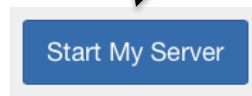


CLIMAAX JupyterHub

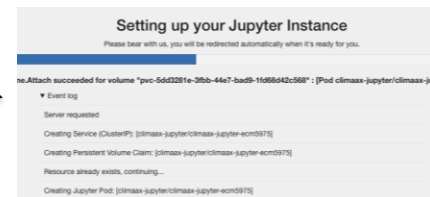
- Run workflow notebooks on our infrastructure (if you want to)
- Preconfigured software environment
- **Extra steps for access**
 1. ECMWF account
 2. 2-factor authentication
 3. **Service desk request**
- See Jupyter pages in Handbook for details and help



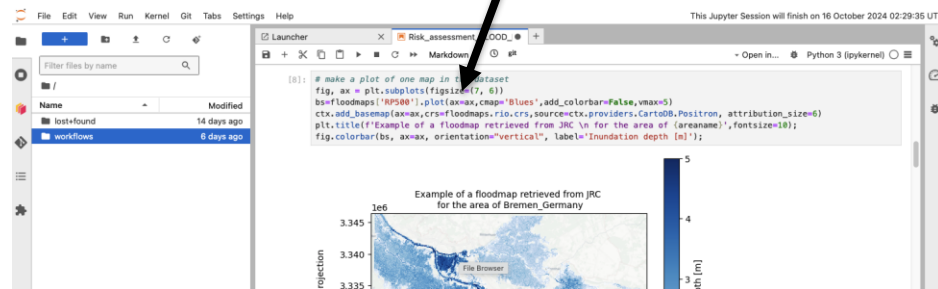
sign in



start a session



run workflows



CLIMAAX Community of practice

Fulvio Biddau
CMCC

4th of April 2025



The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864.
This publication was funded by the European Union. Its contents are the sole responsibility of the author(s)
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CLIMAAX
climate ready regions

CLIMAAX Community of practice

- Space for **collaboration and knowledge exchange** between practitioners across regions and sectors interested in climate risk assessment (CRA).
- It aims to **foster learning, co-design, review and improve the climate risk assessment (CRA)** practice at local and regional levels.



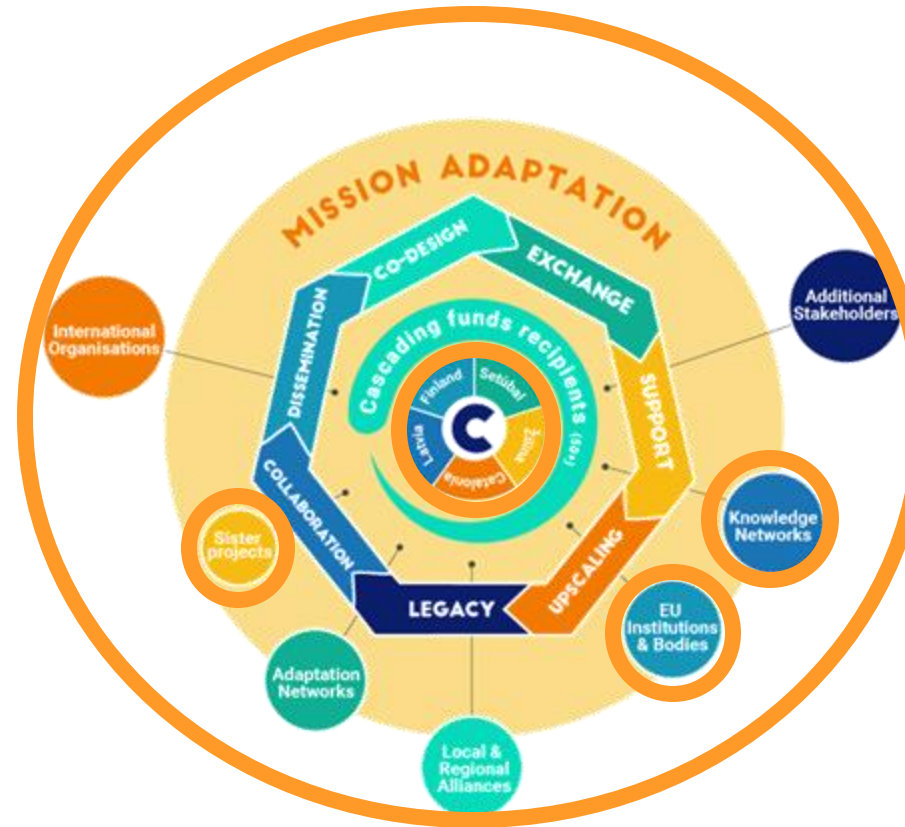
Composition of the CLIMAAX CoP

Phase 1

- CLIMAAX scientific partners and pilot regions
- Eu institutions and bodies (JRC, EEA)
- Mission adaptation sister projects (e.g., Pathway2Resilience) and other experts

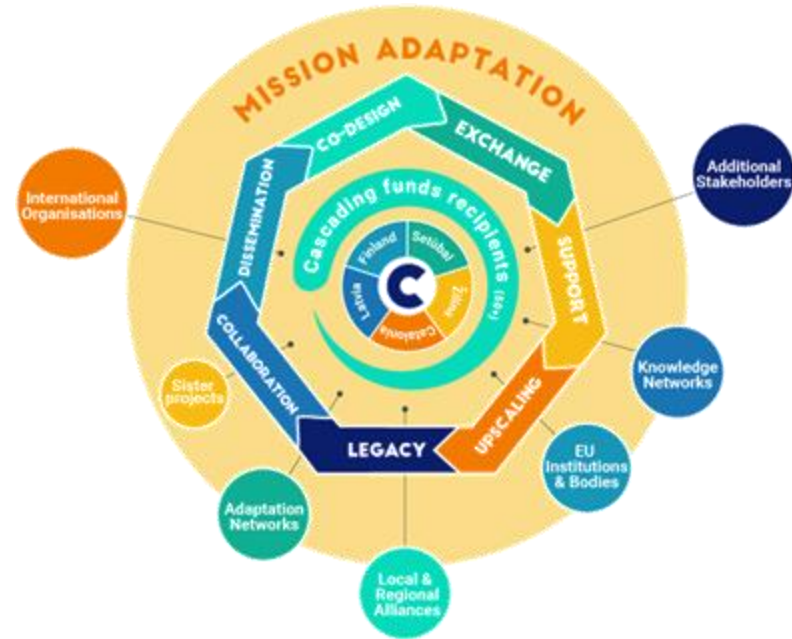
Phase 2

- Cascading funds recipients
- Regions interested in CLIMAAX CRA framework and tools
- Research and Thematic knowledge networks
- National adaptation networks
- Local and Regional Government Alliances
- Additional stakeholders and interested parties



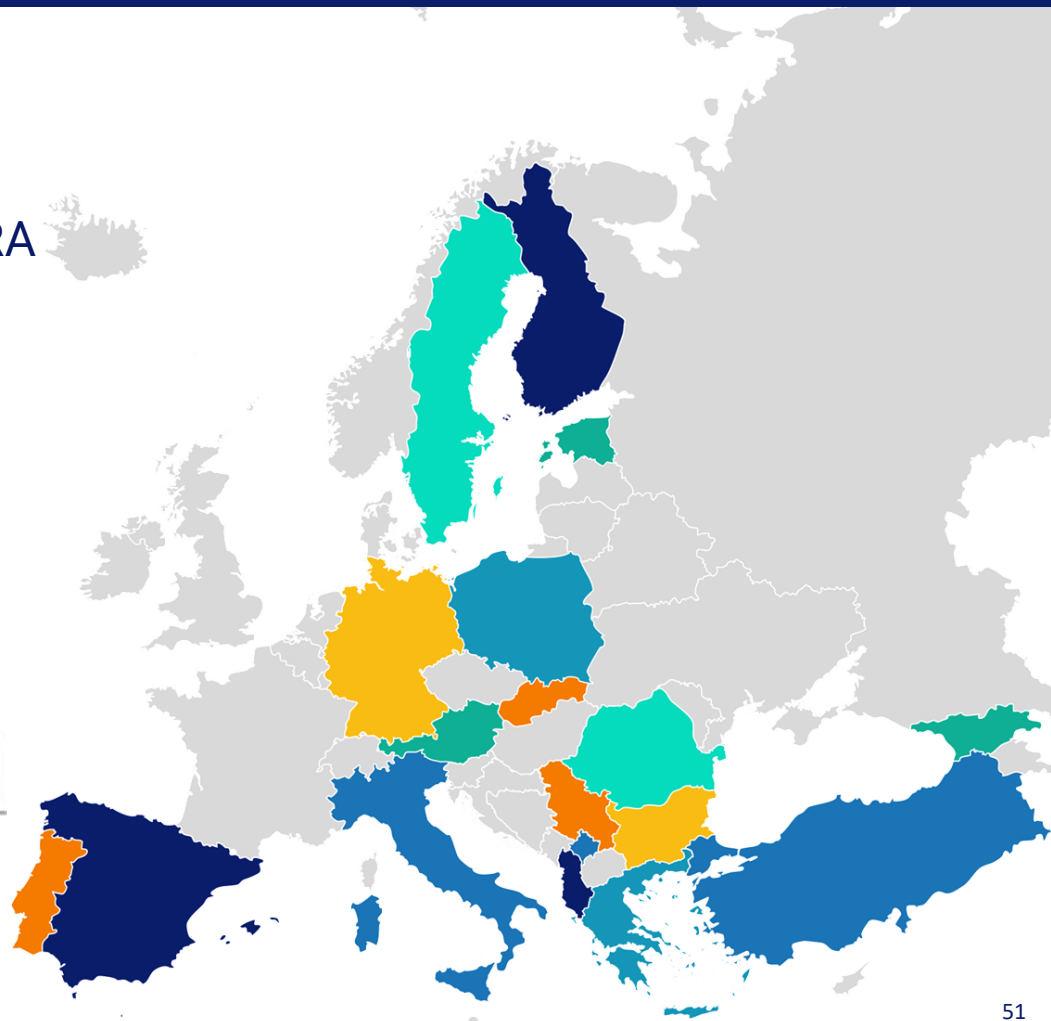
Benefits of the CLIMAAX Cop

- **Engage and connect** with peers to share insights and learn from each other's experience
- **Receive advice** from fellow practitioners
- **Share your knowledge** contributing to the identification of best practices, bottlenecks etc.
- **Contribute** to inform CLIMAAX activities and shape its outcomes
- **Collaborate** with groups of peers in areas of shared interest and specific applications
- **Participate** in webinars, workshops, or other events that respond to your interests and needs



COP activities

- Survey on current practices of CRA

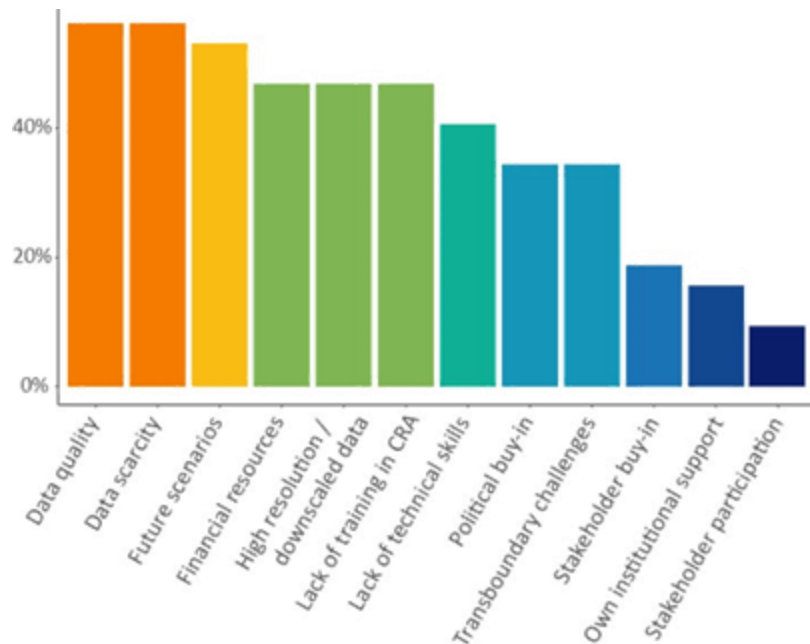


COP activities

- Survey on current practices of CRA (**STILL OPEN**)

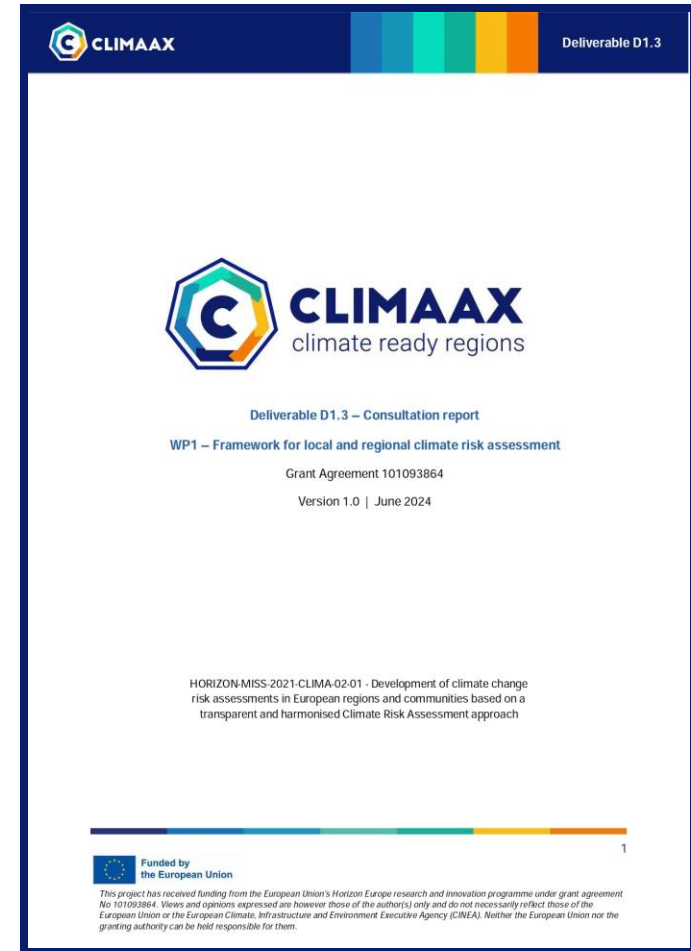
Take part
to our suRvey
!! Scan this !!

MAJOR CHALLENGES



COP activities

- Survey on current practices of CRA
- Consultation for CRA framework



COP activities

- Survey on current practices of CRA
- Consultation for CRA framework
- Survey on Investing in Climate Risk Assessments and Services

Take part
to our suRvey
!! Scan this !!



COP activities

- Survey on current practices of CRA
- Consultation for CRA framework
- Survey on Investing in Climate Risk Assessments and Services
- Thematic webinars and workshops (available on *YouTube!*)

23 NOVEMBER
13:00-15:15 (CET)

ONLINE EVENT

Empowering
regions for climate
resilience

CLIMAAX
InfoDay



CLIMAAX
climate ready regions

WEBINAR 4.7.24
HANDBOOK
OVERVIEW

10:00-11:00 CEST

Expansion activities

1. Thematic **webinars** and workshops promoting discussion among regions, scientific experts, and other stakeholders
2. Surveys and **consultations** on current practices, challenges, and refinements of CLIMAAX outcomes
3. A dedicated **online space** for knowledge sharing and peer collaboration
4. **Capacity building** and peer-to-peer collaboration activities



AL AT BE BG CY DE DK EE ES FI FR GB GR HR HU IT MK NL PL PT RO RS SE SK TR UA XK



CLIMAAX COMMunity of practice



Which topics should we focus on upcoming activities? (up to 3)



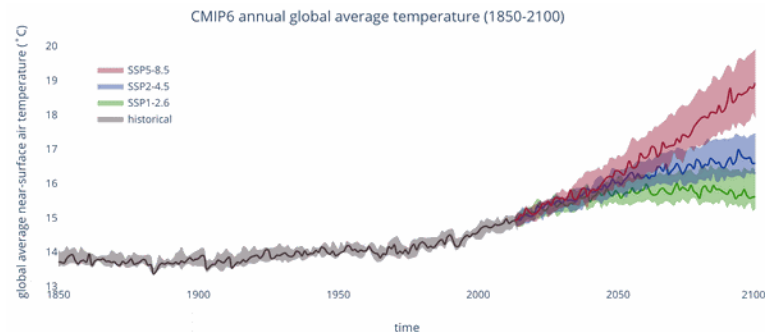
Upcoming event

Navigating future scenarios April 16th 10.30-12 am CET

Join us to explore:

- How climate scenarios are generated
- How to assess regional biases and uncertainties
- How to select the most suitable models, SSPs, or RCPs

..and contribute to the co-design of the CLIMAAX workflow!



!! Scan this !!

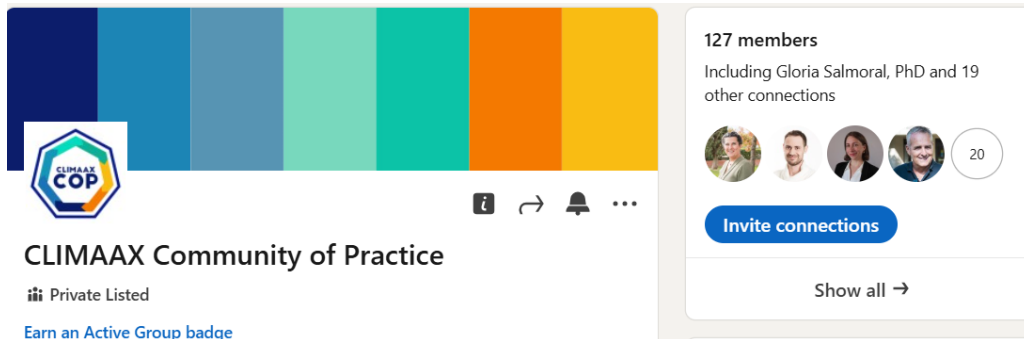


How to engage in the Community of practice

- Join our LinkedIn group
- Take our surveys
- Subscribe to the CoP to receive communication of further updates



<https://www.climaax.eu/community-of-practice/>



cop@climaax.eu

Q&A SESSION

4th of April 2025



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CLIMAAX
climate ready regions

10-11 June | 2025

CosmoCaixa
Science Museum

CLIMAX Barcelona Workshop





CLIMAAX
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www.climaax.eu

Thanks!



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