Intra-ACP Climate Services and Related Applications Programme

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Pavillon Francophonie

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Innovating Climate Services: Building Capacity for the Future

ClimSA

INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME

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OUTLINE OF CONTENT

01 Objectives of side event

02 ClimSA Capacity Buidling Strategy

03 Implemented Action Plan

04 Innovative Climate Services: path forward

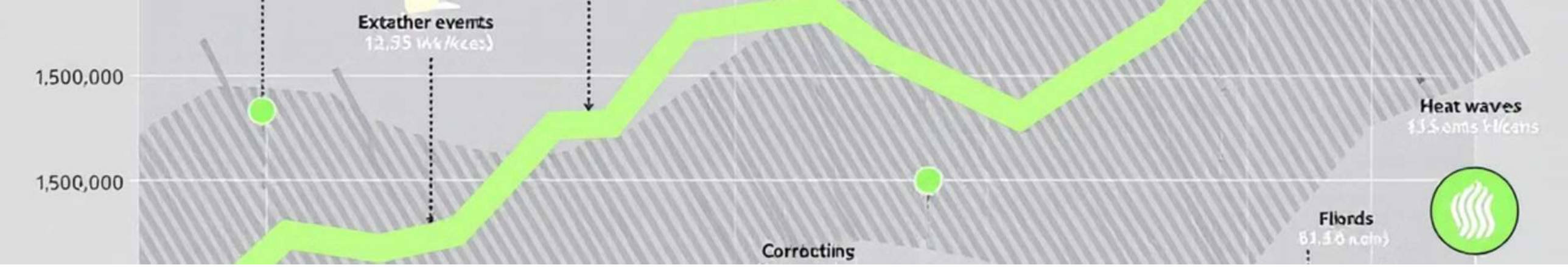
05 Discussion & Recommendations

Objectives of the side event:

- **Raising awareness for the need of domestic capacity for sustainable climate action**
- **Discuss the innovative solutions to build domestic capacity**
- **Make recommendations to promote capacity building**

02

ClimSA Capacity Building Strategy



The Need for Climate Services: Challenges and Opportunities

1 Increasing Demand for Actionable Climate Information

As the impacts of climate change become more severe, there is a growing need for reliable, tailored climate services to support decision-making across sectors.

2 Bridging the Gap Between Science – Practice – Policy

Effective climate services require bridging the divide between climate science and the practical needs of end-users, such as policymakers, businesses, and communities.

3 Addressing Complex, Interdisciplinary Challenges

Developing climate services involves navigating a web of interconnected social, economic, and environmental factors, necessitating a holistic, interdisciplinary approach.

Challenges Facing the Climate Services Industry

1 Data Fragmentation

Climate data is often dispersed across multiple sources, making it challenging to integrate and derive meaningful insights. Overcoming this fragmentation is crucial for providing comprehensive and coherent climate services.

2 Limited Accessibility

Many climate services are not easily accessible or user-friendly, particularly for non-technical stakeholders. Improving the usability and accessibility of climate information is essential for widespread adoption and informed decision-making.

3 Skill Gaps

The climate services industry faces a shortage of professionals with the necessary interdisciplinary skills, including data science, climate science, and communication. Bridging these skill gaps is crucial for driving innovation and meeting the growing demand for climate-smart solutions.

4 Lack of Collaboration

Effective climate services often require cross-sectoral collaboration, but silos and a lack of coordination can hinder progress. Fostering stronger partnerships and knowledge-sharing is key to unlocking the full potential of climate services.

The Need for Climate-Smart Solutions

Increasing Extreme Weather Events

The frequency and intensity of extreme weather events, such as heatwaves, droughts, and floods, are on the rise, posing significant threats to communities and economies worldwide. Climate services are essential in providing the data, insights, and tools needed to mitigate these risks and build resilience.

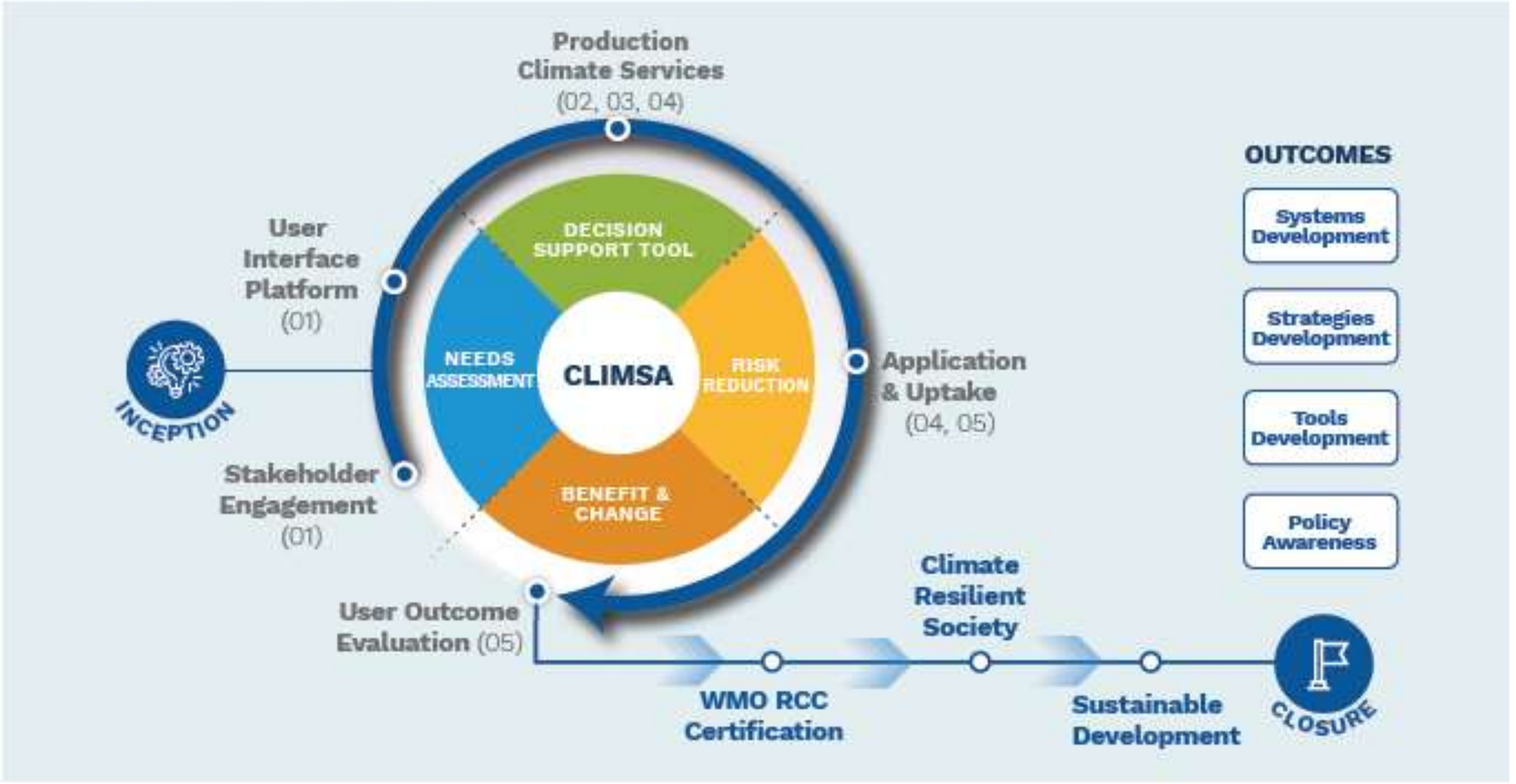
Growing Demand for Actionable Information

Policymakers, businesses, and communities are increasingly seeking climate-related information that is tailored, relevant, and actionable. Climate services must evolve to deliver more granular, user-friendly data and decision-support tools to meet this growing demand.

Transitioning to a Low-Carbon Economy

The global shift towards a low-carbon economy is driving the need for climate services that can support sustainable decision-making, emissions monitoring, and the development of climate-friendly technologies and strategies.

FIGURE 1: Therory of Change



DELIVERY LEVEL

SD

- Global Support trainers
- Regional Training of Trainers
- National Training of Experts
- Local Training Users

Current Status

- Lack of Capacity & Equipment
- Dependance to external expertise
- Weak sustainable governance
- Most vulnerable

CROSS CUTTING PRINCIPLES

- Balance Gender Approach
- User Centered service development

Strategic Objectives

1. Update Stakeholder Requirement
2. Infra & Tech & Tools Development
3. Improve CIS & Applications
4. Communication & Service Delivery
5. Climate Intelligence & Innovation & KM
6. Management & Leadership

- Investing cost effectiveness information system

Strategic Mechanisms

MOVE EXPERTISE GLOBALLY TO END USERS (MERGE)

1. Categorise & Specify Skill transfer contents
2. Better learning environment
5. Climate Intelligence & Innovation & KM

- User Centered service development

MEETING USERS REQUIREMENT

Criteria of CIS

C.R.S./ SDG

Emerging Technologies Transforming the Sector

Earth Observation

Advancements in satellite technology and remote sensing are revolutionizing the collection and analysis of climate data, providing more comprehensive and accurate information for climate services.

Big Data and Analytics

The ability to process and interpret vast amounts of climate data using sophisticated analytics and machine learning algorithms is enabling more precise forecasting, risk assessment, and decision-support tools.

Cloud Computing

Cloud-based platforms are making it easier to store, access, and share climate data and services, facilitating collaboration and the development of innovative climate applications.

Mobile and Web-based Solutions

User-friendly mobile apps and web-based platforms are bringing climate information and services directly to the fingertips of stakeholders, improving accessibility and engagement.

Leveraging Innovative Technologies

Earth Observation

Satellite data and remote sensing technologies can provide invaluable insights into climate patterns and environmental dynamics to inform climate services.

Advanced Analytics

Applying cutting-edge data analytics, machine learning, and artificial intelligence can enhance the accuracy and usability of climate services.

User-Centric Platforms

Developing intuitive, user-friendly platforms and mobile applications can improve the accessibility and uptake of climate services by diverse end-users.

Cloud-based Solutions

Cloud computing and cloud-based tools can facilitate the scalability, flexibility, and cost-effectiveness of climate service delivery.

Embedding Climate Services within Decision-making Processes

1

Identify Decision Needs

Understanding the specific information requirements and decision-making contexts of various stakeholders is crucial for designing climate services that are tailored and actionable.

2

Integrate into Workflows

Embedding climate services seamlessly into the existing workflows and decision-making processes of end-users can ensure their regular use and promote evidence-based decision-making.

3

Iterative Improvement

Continuously evaluating the impact and relevance of climate services, and adapting them based on user feedback, can lead to more effective and sustainable decision-support tools.

FIGURE 7: Meeting Users Requirements

03

IMPLEMENTED ACTION PLAN

Showcasing Best Practices and Success Stories

1

Innovative Applications

- Development of ClimSA station;
- Climate services for Renewable Energy;
- SEB tool development .

2

Effective Partnerships

Synergy with EU Horizon programme: NOA, Neurali AI, ECMWF

Universities for Master programme: ICPAC, AGRHYMET, CAPC

3

Capacity-Building Initiatives

Foundational training (ICPAC)

Pre-RCOF trainings

Job-training at ACMAD.

The Path Forward: Roadmap for Climate Services Innovation

Enhance Data Integration	Improve data interoperability, standardisation, and accessibility to provide a more comprehensive and cohesive view of climate information.
Advance Analytical Capabilities	Leverage emerging technologies, such as artificial intelligence and machine learning, to enable more accurate forecasting, risk assessment, and decision-support tools.
Foster Collaborative Ecosystems	Facilitate stronger partnerships and knowledge-sharing among public, private, and civil society actors to drive innovative climate solutions.
Invest in Capacity Building	Develop interdisciplinary training programs and upskill the climate services workforce to ensure the availability of the necessary expertise.
Enhance User Engagement	Improve the usability and accessibility of climate services to better meet the needs of a diverse range of stakeholders.

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Thank you for your attention

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