

The 4th China-ASEAN Meteorological Cooperation Forum, 17-18 September 2025

Regional Association (RA) II (Asia)

Working Group on Weather, Climate, Hydrological, Marine and Related Environmental Services and Applications (RA II WG Services) Operating Plan

Dr YANG Shunan (Chair RA II WG Services), CMA

Jochen Luther (Technical Coordinator – Services), WMO RAP



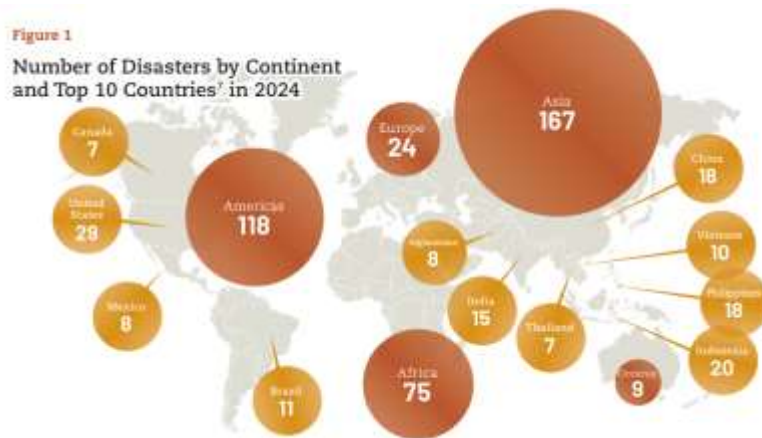
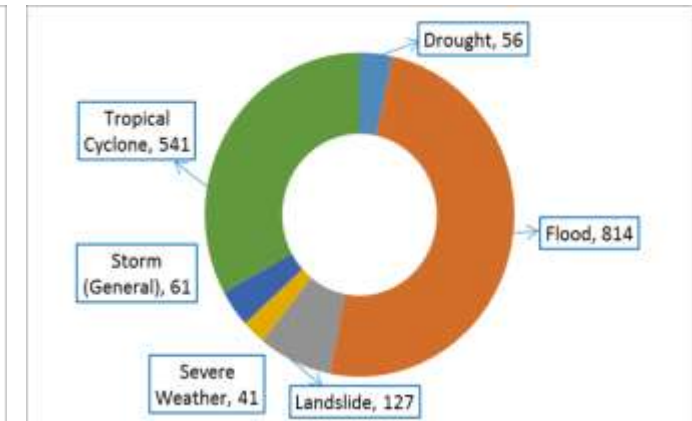
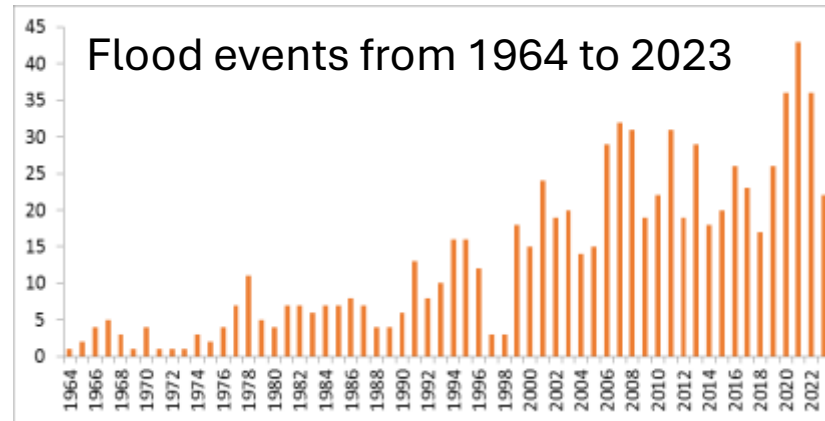
WORLD
METEOROLOGICAL
ORGANIZATION



Contents

1. Background
2. Overview of RA II Working Group on Services
3. Operating Plan of RA II WG Services

- Extreme weather, climate, and hydrological-related events are increasing in frequency and intensity across the globe.
- Asia remains one of the most disaster-prone regions, characterized by the highest number of severe weather events, with particularly significant impacts.

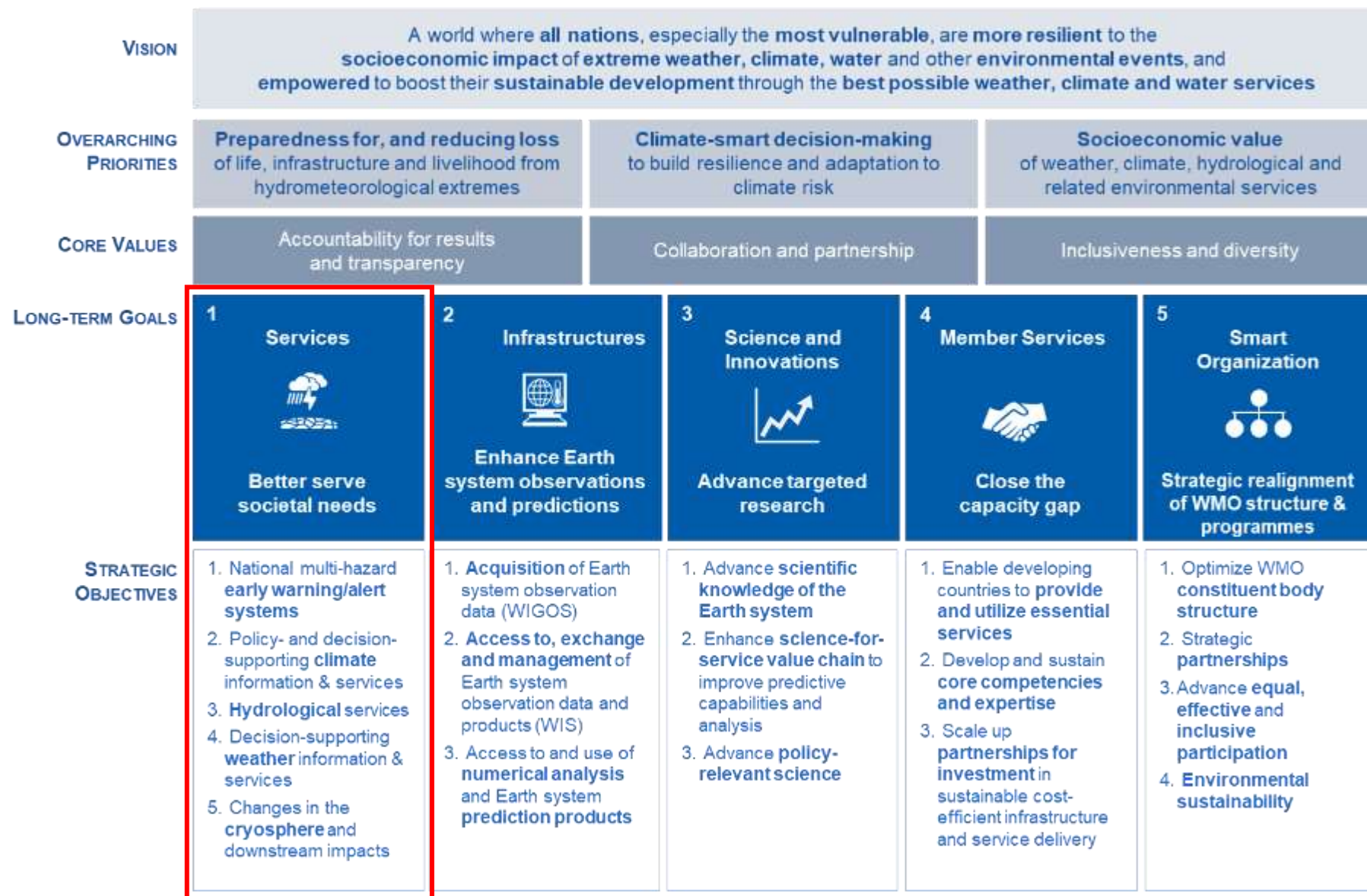


- **The year 2024 was marked as 'a Hot and Stormy Year'**
 - ✓ Globally, nearly 400 natural disasters occurred, with Asia accounting for 42.5% of these events.
 - ✓ These disasters resulted in 9,820 fatalities and affected 113.2 million people in Asia, the highest among all continents. The economic losses reached US\$32.2 billion, ranking second only to the Americas.

Contents

1. Background
2. Overview of RA II Working Group on Services
3. Operating Plan of RA II WG Services

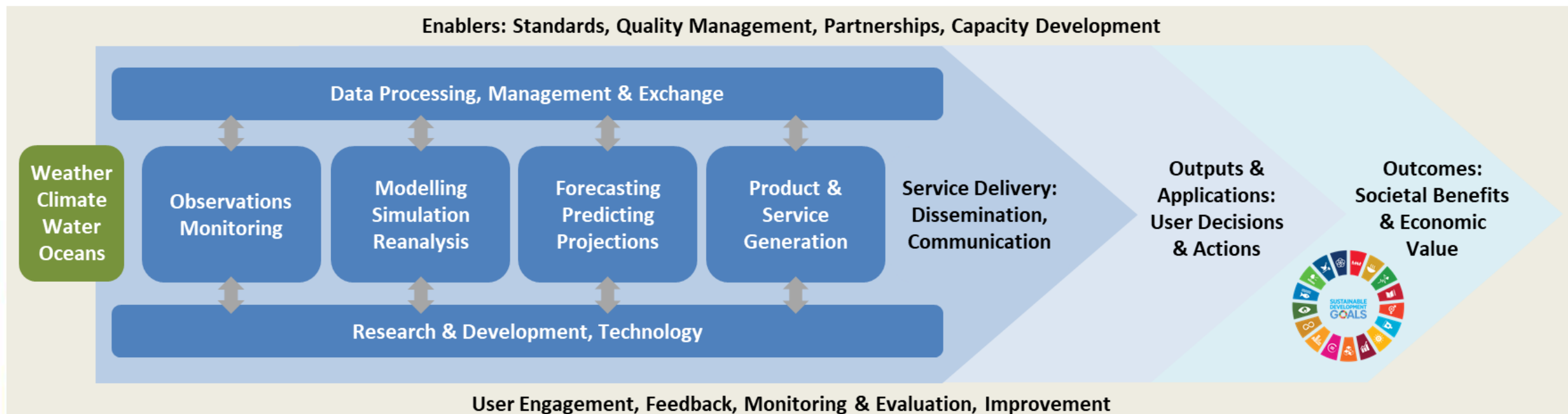
WMO Vision, Mission, Objectives and Strategy



Governance	Congress			
	Executive Council (EC)		Hydrological Assembly	
Purpose	Observations, Exchange, Standards	Operations, Applications	Research	Capacity Development
Long-term Goal	2	1	3	4
Body	Technical Commission: Infrastructure	Technical Commission: Services	Research Board	6 Regional Associations, EC/CDP
	Expanded World Weather Watch (WWW) Programme Space Programme	Weather, Climate, Hydrological, Marine and Related Environmental Services Programme Tropical Cyclone Programme	World Weather Research Programme World Climate Research Programme Global Atmosphere Watch	Cross-cutting: Regional Programme Capacity Development Programme (incl. ETR & VCP Programmes)
Vision & mission implemented through Major programmes & systems				

WMO & the HydroMet Value Chain

Our Mandate: Facilitate worldwide **cooperation** to advance the delivery and use of high-quality, authoritative weather, climate, hydrological and related environmental **services** by its **Members** to improve the well-being of all, through the **exchange of data, information products, standardization, applications, research, and training.**



Regional Partners



Bilateral Cooperation

Extrabudgetary projects

Management Group (MG)

President

Dr Ayman Salem GHULAM (Saudi Arabia)

Vice-president

Dr Sahibzad KHAN (Pakistan)



RA II Task Team
on EW4All

Members

Dr Abdulla Ahmed AL MANDOUS (PR of United Arab Emirates with WMO and President of WMO)

Dr Mrutyunjay MOHAPATRA (PR of India with WMO and Third Vice-President of WMO)

Dr CHEN Zhenlin (PR of China with WMO)

Mr Ryoichi Nomura (PR of Japan with WMO)

Dr CHANG Dong-Eon (PR of Republic of Korea with WMO)

Dr Mamoru Miyamoto (Regional Hydrological Adviser (RHA))

International Advisors' network (INTAD)

Regional Network
of WMO
Operational
Centres (WIPPS,
RWC/RIC, RTC),
including Capacity
Development

WG Infrastructure

C: Mr SATO Yoshiaki (Japan)

VCs: Dr GUO Jianxia (China)

Dr. K. N. MOHAN (India)

Expert Teams/FPs

- ET-WIN
- ET-WIM
- ET-WIS
- ET-WIPPS
- ET-SOA
- ET-HM (TBD)

WG Services

C: Dr YANG Shunan (China)

VCs: Dr Rajendra KUMAR Jenamani (India)

Dr Farnaz Pourasghar
TOLOMBECHI (Iran, I.R.)

Expert Teams/FPs

- ET-DRR
- ET-CS
- ET-HS
- ET-AGR
- ET-MS
- ET-AVI
- JET - cryosphere and high mountain services (TBD)

CP or WG Hydrology

C: Dr Hyeonjun KIM (Republic of Korea)

To be discussed

CP Research and Innovation

C: Dr V.S. PRASAD (India)

VCs: Dr Mai Van Khiem (Viet Nam)
Dr Ebrahim As'adi Oskouei (Iran, I.R.)
Dr ZHOU Kanghui (China)

To be discussed

What is WG Services and what do we do?

Regional Association (RA) II (Asia) Working Group on Weather, Climate, Water and Related Environmental Services and Applications (RA II WG Services)

Who do we serve?

- **Serves 35 Members in Regional Associations II**
- **Under the guidance of the RA II MG, and in collaboration with other WG(s) and CP(s) and the relevant bodies of SERCOM**

Who do we do?

- **Implement and Monitor Regional Service Initiatives:** Follow up on resolutions and decisions of WMO or RA II; update and implement the RA II Operating Plan/Work Programme related to services and applications
- **Strengthen service delivery capabilities through capacity development:** implementation of the regional subprogrammes, and facilitate the formalization and auditing of regional specialized meteorological centers.
- **Facilitate Cooperation and Knowledge Exchange** among Members, SERCOM, and other working groups.
- **Report and Advise on Regional Progress:** Provide regular feedback to the RA II Management Group and SERCOM on regional requirements and activities and propose expert nominations and substructures to effectively fulfill mandated responsibilities.

RA II Priorities (2025–2027)

RA II-18(I)/Doc. 4.2

According to RA II 18(1), the RA II Priorities comprise **five goals and fourteen priorities**, of which **four goals and eleven priorities** are related to services

Under Goal 1: Better serve societal needs: delivering authoritative, accessible, user-oriented and fit-for-purpose information and services——**5 priorities**

Under Goal 3: Advance targeted research: Leveraging leadership in science to improve understanding of the Earth system for enhanced services——**2 priorities**

Under Goal 4: Close the capacity gap on services – Enhancing service delivery capacity of developing countries to ensure availability of essential information and services needed by governments, economic sectors and citizens——**2 priorities**

Priorities: the RA II Operating Plan 2025-2027, and alignments, e.g. with the SERCOM Work Programme 2024-2027

Regional Flagships

Cg-19 requested **Regional Associations:**

With the assistance of the regional offices to ensure that **focused** actions on the implementation of the EW4All falling within their terms of reference are **prioritized** in their respective work plans for the next financial period.

It is suggested that the RA II Operating Plan be considered as the **primary platform** for all regional technical agendas within WMO RA II to be carried out under RA II to avoid inconsistency in planning and procedures.



PPE for Smart Meteorological Services in Mega-Cities



19th Asian Games Hangzhou 2022



GMAS-A



Third Pole Regional Climate Centre



WIPPS Pilot Projects



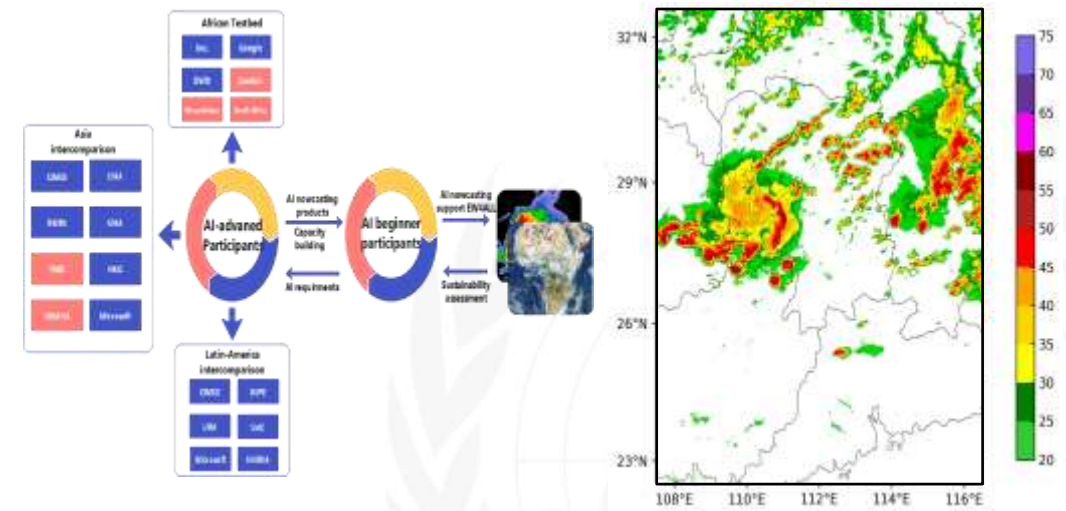
Multi-model Integrated Forecasting and Application (MMIFA)

- The MMIFA, led by the **CMA and HKO**, aims to enhance the **visualization** and accessibility of WIPPS data products to address the challenges faced by the WMO RA II (Asia) due to severe meteorological disasters.



AI for nowcasting pilot project (AINPP)

- The AINPP aims to assess the skill of **AI-based nowcasting** products. Nearly **20 participants** including RA II members.



For details, see [WIPPS Newsletter No.1 2024\(1\) 2.3](#)

Contents

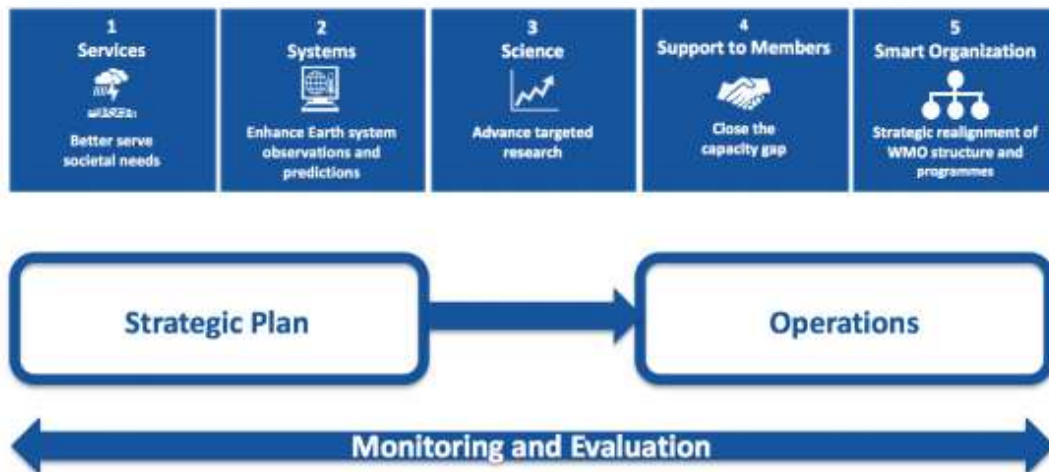
1. Background
2. Overview of RA II Working Group on Services
3. Operating Plan of RA II WG Services

The RA II Operating Plan (OP, = Work Programme) 2025-2027, priorities in the Services domain, and alignments, e.g. with the SERCOM Work Programme 2024-2027 and WMO EW4All Roadmap

RA II Operating Plan

WMO STRATEGIC PLAN 2020-30

Long-Term Goals



Categories of activities:

- **Implementation Projects (IP)**
– Request by Congress/EC
- **Demonstration Projects (DP)** - Capacity Development
- **Pilot Projects (PP)** – Innovation and Try-outs

A primary platform of all regional activities under WMO

- RA II Operating Plan has considered the WMO Strategic Plan and **regional priorities**, and identifies the tasks requested by the Eighteenth and Nineteenth World Meteorological **Congress** (Cg-18 and Cg-19), the sessions of the **Executive Council** after seventy-second (EC-72) to the regional associations.
- It is a **living document** updated from time to time by RA II WG/CP and approved by RA II Management Group.
- It is **aligned and synergistic** with the WMO Annual Operating Plan through interactions with INFCOM, SERCOM and the Research Board.

RA II Operating Plan 2025–2027

- The RA II Operating Plan 2025-2027, alongside the regional priorities, was updated and approved at RA II-18(I) through [Resolution 4.2/1 \(RA II-18\(I\)\)](#)
- The projects and activities were updated following consultations with the various subsidiary bodies of the previous intersessional period

RA II-18(I)/Doc. 4.2, APPROVED, p. 7

Annex II to draft Resolution 4.2(1)/2 (RA II-18(I))

RA II Operating Plan (Work Programme) 2025–2027

(Only available in English)

WG Infrastructure		WG Services		Hydrology-focused		Research and Innovation-focused		Joint activities (Services and Infrastructure)	
No.	WMO LTG/ SO	Cg/EC Res/Dec	RA II Priorities	Key Result Areas or Projects	Deliverables	Key Performance Indicators (KPIs)	Related Activities and Timeline	Resources	
IMPLEMENTATION PROJECTS (IP) – REQUEST by CONGRESS/EXECUTIVE COUNCIL									
RA II-18-I-IP-1	LTG-2/ SO 2.1	Cg-19 Resolution n 2 (Cg-19) Resolution n 21 (Cg-19) EC-76 Resolution n 19 (EC-76) Resolution n 22 (EC-76)	6	Enhance the operation of the Regional WIGOS Centres (RWCs) to improve data and metadata availability and quality, including supporting GBON implementation	- WIGOS-related National Focal Points (NFPs) trained - Global Basic Observing Network (GBON) compliance monitoring supported by RWCs - GBON implementation supported - Technical support to Members provided (long-term) on data collection and exchange - Station metadata updated on	- Number of RA II Members actively interacting with the RWC they are affiliated to - Number of WIGOS-related NFPs trained - Number of stations with updated metadata - Percentage and number of incident tickets issued (in the WIGOS Data Quality Monitoring System (WDQMS) Incident Management System) and resolved by collaboration between RWCs and NFPs	- Conduct audit for RWC-Beijing and RWC-Tokyo (2026–2027) - WIGOS Metadata management by RWCs in support of their affiliated Members (2025–2027) - Data availability and quality incident management by RWCs (2025–2027) - Support Members on OSCAR/Surface machine-to-machine interface by RWCs (2025–2027)	RWCs	

RA II Operating Plan(Services domain)

- **Implementation Projects (*REQUEST BY CONGRESS/EC*): 9 Key Concerns**
 1. Strengthen Multi-Hazard Early Warning/Alert Systems and Services: Global Multi-hazard Alert System for Asia (GMAS-A)
 2. Enhance Impact-based Forecast and Warning Services (IBFWS)
 3. Climate services delivery of RA II and regional mechanisms improved
 4. Improve Agricultural Meteorological Services
 5. Promote Cooperation in Hydrology and Water Resources and Ensure Coordination among the Hydrology Substructures in RA II (*Joint-Hydrology*)
 6. Improve water resources assessment and management, including forecasting and warning (Dynamic Water resources Assessment Tool (DWAT), Global Hydrological Status and Outlook System (HydroSOS), Associated Programme on Flood Management (APFM), International Drought Management Programme (IDMP)) (*Joint-Hydrology*)
 7. Enhance hydrological services through new technologies (AI, ML, Satellite/remote sensing) and capacity development (*Joint-Hydrology*)
 8. Improve Meteorological Services for Aviation
 9. Improve Marine and Coastal Services

RA II Operating Plan(Services domain)(Cont'd)

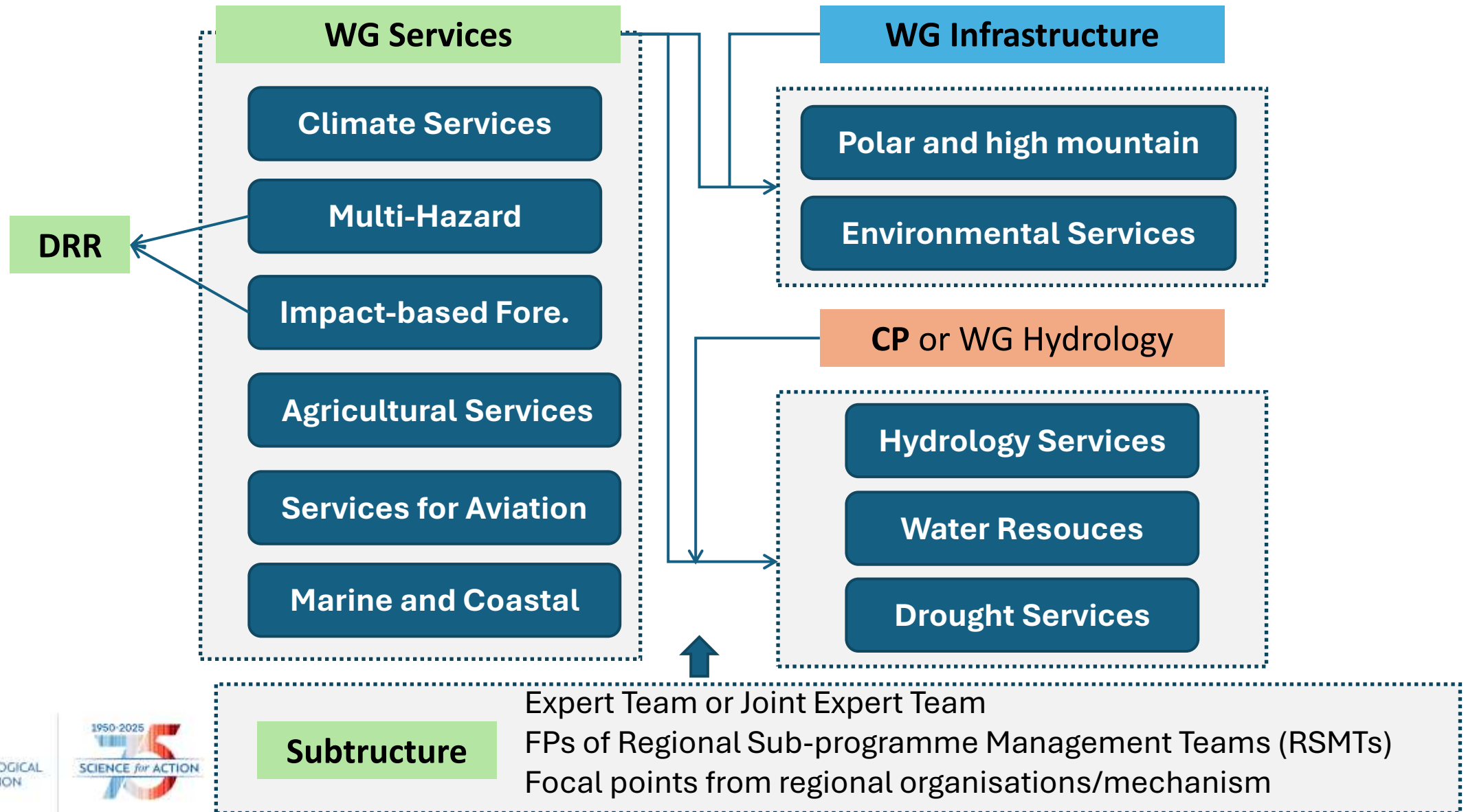
- **Demonstration Projects** (*CAPACITY DEVELOPMENT*)

1. Promote polar and high mountain activities; Address Global and Regional Impacts of Changes in the Cryosphere; and High-level Ambitions on Cryosphere (Joint)
2. Improve Observations and Services for Environmental Needs, Including Air Quality, and Sand and Dust Storms (Joint)
3. Improve drought observations and service (Joint)

- **PILOT PROJECTS (PP)** (*INNOVATION AND TRY-OUTS*)

1. Providing capacity development support to Members in RA II through the Centre on Urban Multi-hazard Early Warning established in Shanghai, China
2. Pilot heat health warnings in urban areas
3. Pilot flood hazard maps (Joint)
4. Utilization of Clean Energy Services for clean energy transition

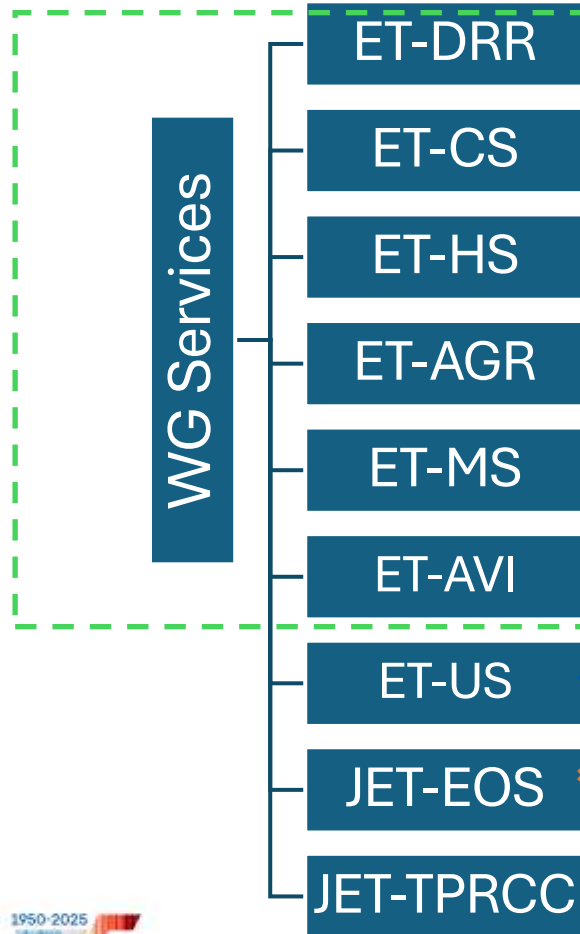
RA II Operating Plan(Services domain)(Key Fields)



Substructure under the RA II WG Services

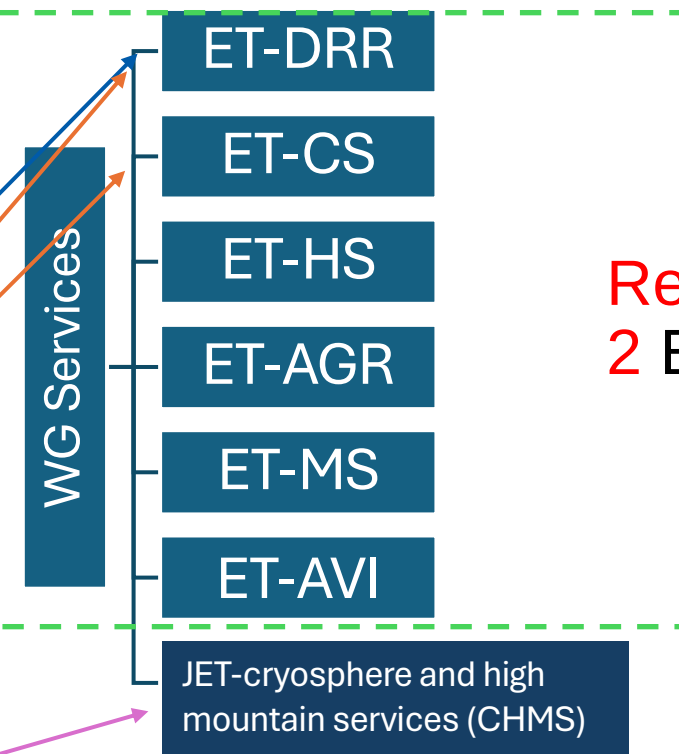
Previous substructure

(7 ETs & 2 JETs)



New substructure

(6 ETs & 1 JET)



Reduced by
2 ETs

+ RSMTs

+ Focal Points from sectors and regional organisations/mechanisms (e.g. TyC, PTC, RIMES, SAHF, etc.)

Resolution 4.3 (RA II-18) on EW4All

RA II decides to:

- 1) Use the [WMO Road Map for the EW4All Initiative](#), the [Action Plan for infrastructure components contributing to EW4All](#), and [SERCOM's Work Plan](#) to inform and strengthen implementation of related activities at the regional, sub-regional, and national level;
 - RA II Working Groups/Expert Teams/Coordination Panel Hydrology incorporated EW4All activities into the updated RA II Operating Plan (= Work Programme), forming **a singular, comprehensive** document for guiding regional activities
- 2) Establish the **RA II Task Team on EW4All** (TT-EW4All), comprising representatives from the various working bodies of RA II with ToR provided in the Annex to the resolution

6 of first 30 EW4All roll-out countries are in Asia

Central Asia – Tajikistan

South Asia – Bangladesh, Maldives and Nepal

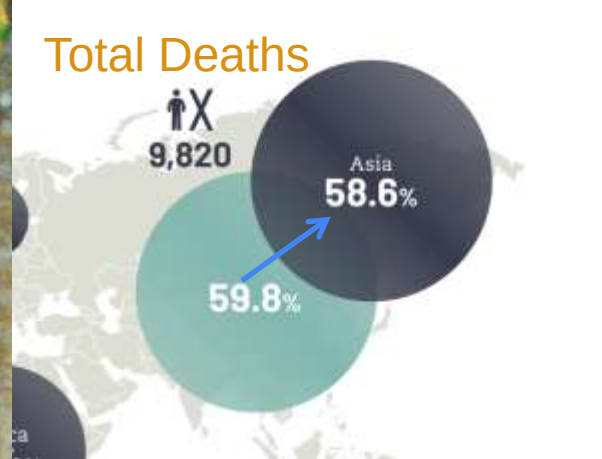
South-East Asia – Cambodia and Lao PDR



Implementation Status in Asia



Country	1 st National EW4All Consultation/Launch	EW4All Roadmap endorsed	Implementation
Bangladesh	17 – 18 Nov 2023	Near final	In-progress
Cambodia	4 Oct 2023	Near final	In-progress
Lao PDR	21 Sep 2023	21 Nov 2023	In-progress
Maldives	4 – 5 Jul 2023	15 Jan 2024	In-progress
Nepal	21 – 22 Sep 2023	In-progress	In-progress
Tajikistan	29 – 30 Aug 2023	15 Jul 2024	In-progress



Early warning systems work.

We need your support so they can **work for everyone**

شكراً

谢谢

Thank you

Спасибо

wmo.int

RA II Operating Plan 2025–2027

Alignment

- Work Programmes (Operating Plans) of the technical commissions (TCs), Research Board, and regional associations (RAs) follow the WMO Strategic/Operating Plan
- Need for alignment/complementarity: TCs focus on normative work, RAs on implementation
- Typically structured in “Why” (Congress or EC requests), “What” (key result areas/outputs), “How” (activities), “When” (year of the delivery during the intersessional period), and “Who” (responsible RA WG/ET, support from the TCs and partners, resources)
- Align with and contribute to other plans, such as the WMO EW4All Roadmap

Partnerships

Partnerships between Members, development partners, multilateral organizations and international finance institutions are critical in mobilizing/allocating funds to support EW4All implementation, particularly **beyond** the initial 6 RA II Members



+ regional organisations & mechanisms



Early Warnings for All (EW4All) is a groundbreaking initiative that aims to protect everyone everywhere by 2027



- Announced by UN Secretary General Antonio Guterres on **23 March 2022** (World Meteorological Day), **launched at COP27** that year as part of his **Acceleration Agenda**
- Aligns with the priorities of the **Paris Agreement**
- Supports key provisions of the **Sendai Framework for Disaster Risk Reduction 2015-2030**, particularly **Target G** on availability and accessibility of multi-hazard early warning systems
- Contributes directly to the UN's **Sustainable Development Goals** (SDGs), on poverty, hunger, health, water, clean energy, climate action and sustainable cities
- **NOT a new, standalone programme or project! Rather a campaign and new, coordinated way of working** → EW4All builds on existing or previous initiatives and partnerships, e.g. 6 Early Warning Conferences

Planning & Programmatic Approach

Global Level

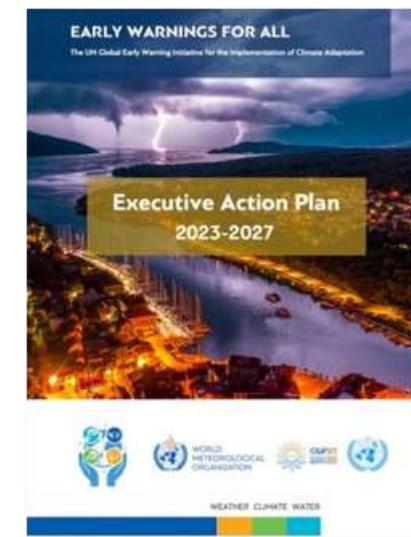
- High-level [Executive Action Plan](#) published at COP27 in 2022
- **Advisory Panel** & technical-level **inter-pillar coordination mechanism**
- Pillar-wise and cross-cutting **programmatic framework and M&E**
- [Global Dashboard](#) on country progress, Early Warning **Maturity Index**, Progress Reports at COPs, [Global Observatory for EWS Investments](#)
- **Communication & resource mobilization strategies**

Regional Level

- **Regional inter-pillar coordination mechanism, incl. regional organisations**
- **Complementarity with existing regional strategies, plans and initiatives** – for example, **ASEAN EW4All Roadmap aligned with AADMER** under development; **Weather Ready Pacific (WRP) Programme** a key implementation vehicle for EW4All, Continental **Africa EW4All Roadmap**

National Level

- **Roll out initially in 30 countries** → [Toolkit](#) to support national-level implementation & [Programmatic Framework](#), comprehensive Resource Packages (e.g. for [Pillar 2](#))
 - **Catalytic Phase** (Assessments, Kick-off workshops, Roadmap development)
 - **Sustained Action Phase** (Implementation of EW4All Roadmaps, Coordination, Governance Strengthening, Maintenance, Monitoring & Evaluation, Reporting)



ToR of the RA II WG Services

Under the guidance of the RA II MG, and in collaboration with other WG(s) and CP(s) and the relevant bodies of SERCOM,

- (1) **Follow up on the resolutions, decisions, and recommendations of Cg, EC, RA II, and RA II MG**, addressing services- and applications-related matters (LTGs 1, 3, and 4), for the activities to be undertaken at a regional level;
- (2) **Identify and regularly monitor critical gaps and needs for new and improved services** and analyse related capabilities among Members, particularly for developing Members, to implement the EW4All initiative in the region, including the implementation of the regional aspects of the SERCOM Work Programme and support Members as needed through **capacity-development activities** (LTG 4), that are included in the RA II Operating Plan (OP)/Work Programme;
- (3) **Draft and update on a regular basis the RA II OP/Work Programme** of the relevant components pertaining to services and applications for the approval by the RA II MG, monitor the regional service systems developments, brief the progress to RA II MG on a regular basis;
- (4) **Design and propose a sub-structure**, including ETs/JETs and FPs, their ToR, suggested composition and expected deliverables, as necessary, to implement agreed activities in RA II OP/Work Programme, as necessary, for RA II MG's approval;
- (5) **Oversee the implementation of the regional subprogrammes of the WMO Severe Weather Forecasting Programme (SWFP)** in RA II in the period 2025–2027, via their Regional Subprogramme Management Teams (RSMTs), maintaining close communication with the National SWFP FPs of concerned RA II Members, while seeking the formalization of the SWFP regional centres in RA II through their application for a role as WIPPS Designated Centres, namely Regional Specialized Meteorological Centres for Severe Weather Forecasting (RSMC-SWF);
- (6) Provide feedback, through the RA II representative on the **SERCOM MG**, to SERCOM on RA II Members' requirements and needs on weather, climate, hydrological, marine, and related environmental services and applications, including providing inputs to the proposed work plan of the Commission;
- (7) **Collaborate with RA II Members, SERCOM, and other bodies**, as necessary, to support, monitor, and regularly review and audit relevant **regional centres** established by WMO bodies, ensuring that the services and functions being delivered by them continue to respond to the needs of the region and are in compliance with WMO standards and guidelines;
- (8) Identify experts who serve on both SERCOM and the RA II WG Services to assist with the sharing of **regional priorities** and requirements and the implementation of technical priorities and associated capacity-development activities;
- (10) Propose and monitor **RA II demonstration and pilot projects, workshops and forums** related to services, and share information on these, with the support of Members;
- (11) Facilitate the **sharing of knowledge, experience and technology** related to services among RA II Members;
- (12) Submit **annual reports** to the RA II MG, according to the RA II Operating Plan/Work Programme and share the report with Members and the SERCOM MG.

RA II Priorities (2025–2027)

RA II-18(I)/Doc. 4.2

According to RA II 18(1), the RA II Priorities comprise **five goals and fourteen priorities**, of which **four goals and eleven priorities** are related to services

Under Goal 1: Better serve societal needs: delivering authoritative, accessible, user-oriented and fit-for-purpose information and services

- (1) Promote **Impact-based Forecast and Warning Services** (IBFWS); Strengthen Multi-Hazard Early Warning Services (MHEWS); Promote the Multi-Hazard Alert System for Asia (MHAS-A) based on the Global Multi-Hazard Alert System for Asia (GMAS-A).
- (2) Improve the provision of climate information and services and contribution to the Global Framework for **Climate Services** (GFCS); Strengthen the Regional Climate (Outlook) Forums (RC(O)Fs); Develop annual State of the Climate in Asia reports; Improve agricultural meteorological services; Establish more RCCs as planned.
- (3) Improve **hydrological services**; Implement the Global Hydrological Status and Outlook System (HydroSOS) in RA II; Promote the Meteorology, Climate and Hydrology (MCH) database management system; Enhance Members' capability to forecast flash floods and urban floods/inundation.
- (4) Increase collaboration with partners and stakeholders in the **aviation and marine** sectors and improve the provision of meteorological information services by Members for these sectors.
- (5) Operationalize the **Third Pole Regional Climate Centre** (TPRCC) Network; Strengthen observations and services in polar and high mountain areas.

Under Goal 3: Advance targeted research: Leveraging leadership in science to improve understanding of the Earth system for enhanced services

- (9) Promote linkages between **science and services** through research in NMHSs and new partnerships with academia; Improve observations and services for **environmental and energy** needs, including air quality, and sand and dust storms (SDS); Implement the multiregional monsoon observation experiment [China].
- (10) Embrace the integration of new technologies across the value chain to harness the benefits of **Artificial Intelligence (AI)** advancements.

Under Goal 4: Close the capacity gap on weather, climate, hydrological and related environmental services – Enhancing service delivery capacity of developing countries to ensure availability of essential information and services needed by governments, economic sectors and citizens

- (11) Develop and deliver **training** courses to align with and serve all regional priorities; Enhance capacities of regional centres, including Regional Training Centres (RTCs); Strengthen cooperation among all WMO centres.
- (12) Increase the utilization of social media; Raise awareness of the community including through partnerships between NMHSs and the media; Promote science at regional/ national level.

Under Goal 5: Strategic realignment of WMO structure and programmes for effective policy- and decision-making and implementation.

- (13) Monitor, evaluate and report regional activities; Evaluate and enhance socioeconomic value of weather, climate, and water services.
- (14) Strengthen and expand regional partnerships; Promote interregional coordination and cooperation; Share good practices of cooperation and collaboration with the private and academic sectors and identify issues for leveraging cooperation and collaboration between sectors.

**Priorities: the RA II Operating Plan 2025-2027, and alignments,
e.g. with the SERCOM Work Programme 2024-2027**

Updates to the RA II Operating Plan (OP) 2025-2027

No.	WMO LTG/ Strategic Objective	Cg/EC Res/Dec	RA II Priorities	Key Result Areas or Projects	Deliverables	KPIs	Related Activities and Timeline	Resources (new)
IMPLEMENTATION PROJECTS (IP) – REQUEST by CONGRESS/EXECUTIVE COUNCIL								
RA II-18-I-IP-X								e.g. RA II ET-DRR, SERCOM SC-DRR CREWS Projects, external projects, in-kind contributions Partners (e.g. TyC, RIMES, ADPC, etc.)
RA II-18-I-IP-X	Hydrology-related							
RA II-18-S-IP-X								
RA II-18-S-IP-X	Hydrology-related							
RA II-18-CPR-IP-X	Can also be I, S or Hydrology-related							
RA II-18-CPH-IP-X								
RA II-18-J-IP-X	Joint btw I & S							
DEMONSTRATION PROJECTS (DP) – CAPACITY DEVELOPMENT								
RA II-18-J-DP-X								
PILOT PROJECTS (PP) – INNOVATION AND TRY-OUTS								
RA II-18-J-PP-X								

Main responsibility for ETs

- To coordinate the activities of Regional Centers related, try to establish a bridge between Members and Centers.
- Lead tasks assigned to RA II by Cg, EC or RA II resolutions/decisions (implementation "projects") and implement demonstration and pilot "projects" established/endorsed by RA II.
- Facilitate the implementation of Services related initiatives/normative work (usually led by SERCOM and other bodies) such as EW4All/GMAS, IBFWS, CAP, CHE, SWFP, CIFI, FFGS, etc.
- Identify gaps or needs from Members especially in capacity development and provide proposals to be taken up by SERCOM and other WMO bodies, track and report progress
- Support related regional events and mechanism, e.g. RCCs/RCOFs, conferences
- Serve as a regional focal points in their areas for related SERCOM subsidiary bodies
- Review project proposals

Access

- **Conducted in 51 countries**, predominantly LDCs, LLDCs and SIDS
- A standardized methodology along the elements of the hydrometeorological value cycle
- A maturity score produced on a scale of 1-5, gaps identified
- **All results and data available** on [Early Warnings for All Dashboard](#) (see *MHEWS Capacity*)



Membership of the WG Services

- A chair and Vice-chair/s
- The leaders of ETs and FPs
- A representative on the SERCOM Management Group (normally selected from Chair or Vice-chair)
- Experts from RA II Members who are serving in working structures of SERCOM (as ex-officio members)
- Additional representatives from RA II Members who are engaged in services at the national level.



We are all in this together

- EW4All requires further **political, technological and financial** commitment from relevant stakeholders, including the UN, NGOs, civil society, academia, and the private sector.
- EW4All measures must be integrated into **national policies, strategies, and planning**. The power of **mass communication must be harnessed to reach everyone, everywhere --> “Media saving lives” campaign**
- **Civil society must be involved**. Their role in the initiative is guided by the application of the Principles for Locally Led Adaptation, as outlined in the EW4All Executive Action Plan.