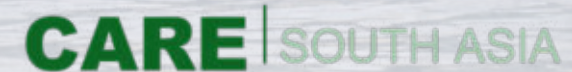


PLANNING WORKSHOP ON Impact-Based Forecasting and Climate Services

21–24 January 2025 | Bangkok, Thailand

Workshop Objectives





SAHF Overview

South Asia Hydromet Forum (SAHF)

SAHF have the overarching objective to reinforce national activities leading to a more sustainable program of building state-of-the-art meteorological and hydrological services across the region through a structured and staggered approach.

SAHF countries include; Afghanistan, Bangladesh, Bhutan, India, Maldives, Myanmar, Nepal, Pakistan, and Sri Lanka.

Works under guidance of Executive Council (EC) and technical coordination through five working groups: CE, NWP, IBF, OBN, Hydrology

RIMES serves as technical secretariat of SAHF, coordinate activities of WGs and bring together various stakeholders in the South Asia region to enhance regional collaboration and address hydrological and meteorological challenges that are unique to the region.



3rd SAHF Executive Council

**Bangkok, Thailand
30th November 2023**

EC Declarations

- **Resolve** to expand and deepen SAHF to enhance the capability of all SAHF members to *meet the needs of each country to make better decisions to minimize the adverse impact of weather-, water- and climate- related hazards* and maximize the social and economic benefit of improved services.
- **Resolve** to achieve the above by continuing to strengthen each link in the hydro met value chain - observation and monitoring, modelling and analytics, *impact-based forecasts, tailored services and integrated services to create user-oriented decision support systems* relevant to national needs.
- **Resolve** to establish operational centres of expertise hosted by SAHF members to develop and share skills in tailored and integrated services including, but not limited to, applications of mountain meteorology, marine and coastal services, *and impact-based multi-hazard early warning systems and services*.
- **Recognize** the importance of *decision support systems (DSS)* that enable a wide range of data and information to be shared and exchanged between producers and users of digital services.
- **Recognize** the need for *sustained capacity building* of members for project implementation in respect of all 4 thematic areas and trans-thematic areas of SAHF.
- **Appreciate** the support extended by UK Government and UKMET Office through *WISER program* to support the implementation of regional IBF priorities.



February 6-8 2024 Colombo Sri Lanka

SAHF IV

Colombo, Sri Lanka
6th – 8th February 2024



Declaration from SAHF IV (Colombo, Feb 2024)

Reinforce people-oriented, impact-based, multi-hazard early warning/decision-support systems and services, through co-production.

Key Action items:

- 1.COPs:** To define CoPs adopting a collective “whole-of-society” approach, between users and NMHSs to facilitate the co-production of products and services that help communities and decision makers to make more informed decisions.
- 2.IBF Toolkit/ program:** RIMES, Met Office UK and IBF WG to develop a toolkit to support the design, development and implementation of IBFEWS in the region under SAHF and pilot its deployment.
- 3.Tailored Messaging strategies:** understand community responses to early warning messages, including by vulnerable communities, by estimating risk behavior and establishing threshold limits based on perception and education levels.
- 4.Catalog success stories:** on communicating uncertainty and decision-making in disaster management.
- 5.Regional center for DSS development:** create a regional collaboration platform to share best practices, prototype, train and further the development of digital solutions for decision making.

SAHF IV Commitments

- ***Deepen collaboration*** and ***increase regional synergies*** and economies of scale for better hydrometeorological and ***early warning services*** to enhance resilience and socioeconomic benefits in the region;
- Create a shared vision for enhancing a regional observation network to support weather, water, and climate services;
- Create mechanisms, based on science, to ***strengthen regional forecasting***, data analytics, and scenario planning;
- Develop effective last-mile communication mechanisms to enable people, including stakeholders, to take ***informed decisions***;
- Help the region collectively to undertake actions for climate resilience by strengthening the hydromet services' contribution to public services, in an effective and efficient manner;
- Enhance ***opportunities for sharing experiences and lessons learned*** towards mainstreaming weather, water and climate services that contribute to the achievement of Sustainable Development Goals.

SAHF IV Key Recommendations

Session 12: Dealing with forecast uncertainty in an IBF approach, and the role of DSS

- RIMES and the Met Office to work together with the SAHF IBF working group on addressing the key priorities of the working group.
- The Met Office, in conjunction with RIMES and IBF working group members, should work to develop a toolkit to support the design, development and implementation of IBFEWS in the region, under SAHF.
- The toolkit should address the working group priorities, especially around sustainability, and include capacity development materials, case studies, best practice, resources, and troubleshooting guides. RIMES and nominated national focal persons would be trained and upskilled in the use and application of the toolkit, ensuring longer term sustainability.
- To enable the training and upskilling in the use and application of the toolkit the following proposal was agreed as a potential way forward;
- Training and capacity development is required for users in the concept of forecast uncertainty to help improve their ability to take appropriate action based on forecasts and early warnings.

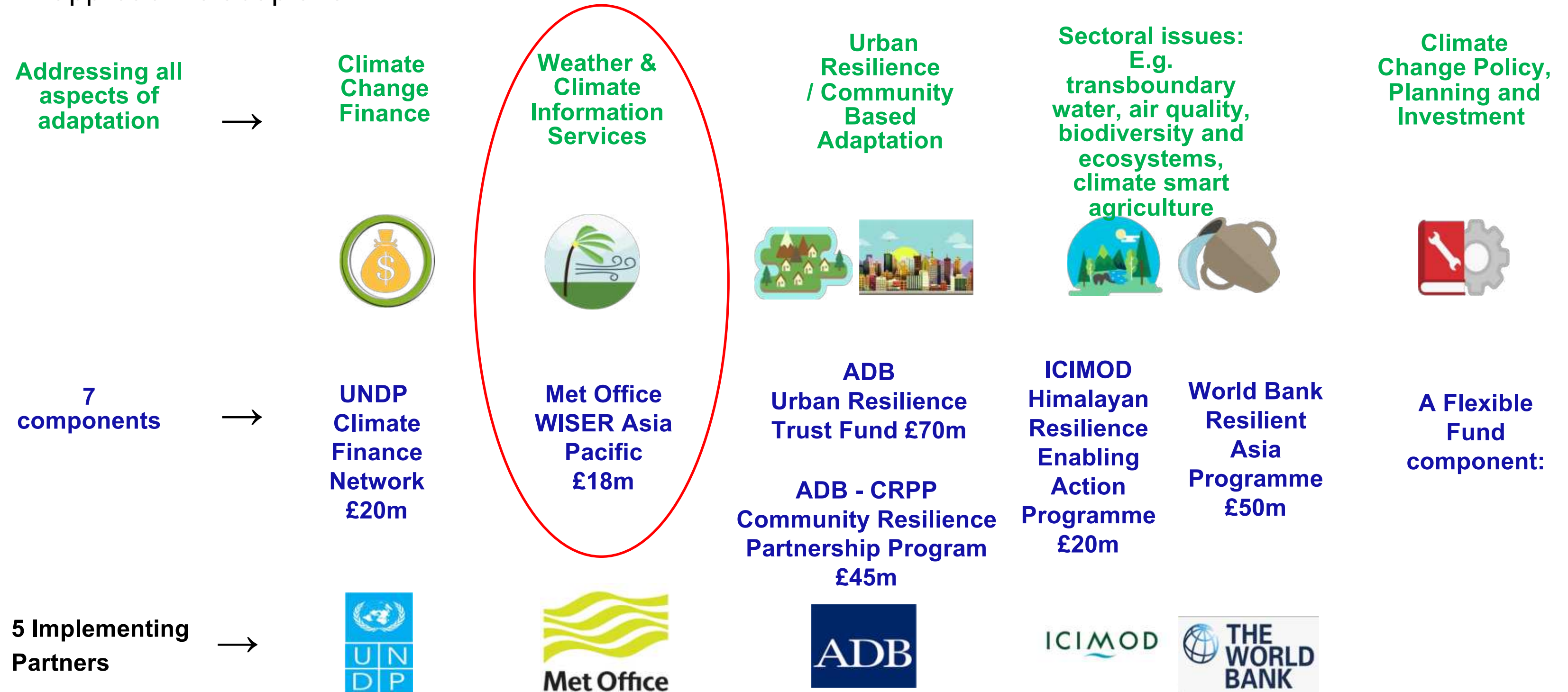
WISER Asia Pacific

Introduction to WISER Asia Pacific



Climate Action for a Resilient Asia (CARA)

CARA is a seven-year (2022-2029), £274m initiative to help build the resilience of economies and vulnerable communities to climate change, improve the natural environment, and promote low carbon growth, across South Asia, South-East Asia, and the Pacific. Seven components and five Implementing Partners: a holistic approach to adaptation.



WISER Asia Pacific

Objective

To improve quality, access, and use of Weather and Climate Information Services (WCIS) to strengthen the resilience of vulnerable people

Principles

Delivering transformational change in WCIS through:

1. Regional Approach
1. Co-production of new and/or improved services
1. Gender equity and social inclusion (GESI) first approach
1. Promoting partnerships

Themes



Improve capability of providers to disseminate WCIS



Support regional coordination, cooperation and capacity



Improve generation and communication of IBF to vulnerable communities and sectors



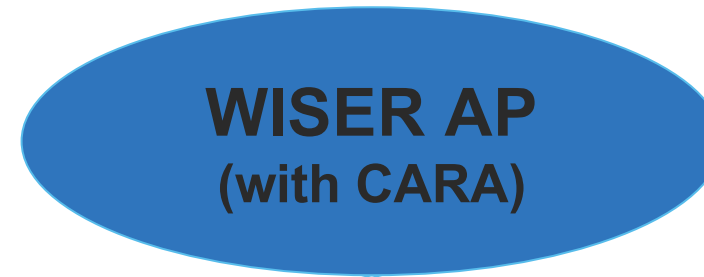
Enhance integration of WCIS into adaptation and policy

WISER Asia Pacific Themes

WISER

Weather and Climate Information Services

Informed from +
additional scoping



Programme Outline

Regional collaboration

Pan-regional (e.g. UN ESCAP DRR and EW4ALL)
WISER AP & CARA partners

Sub regions

South Asia

Southeast Asia

Pacific Islands

WISER AP partnerships

South Asia Hydromet
Forum (SAHF)

ASEAN e.g. AHA
Centre, ASMC

Secretariat of the
Pacific Regional
Environment
Programme (SPREP)

Regional projects

Delivering weather & climate information for the most vulnerable

Short term priorities

Working with CARA
partners

Working with WISER
AP partners

Quick start projects



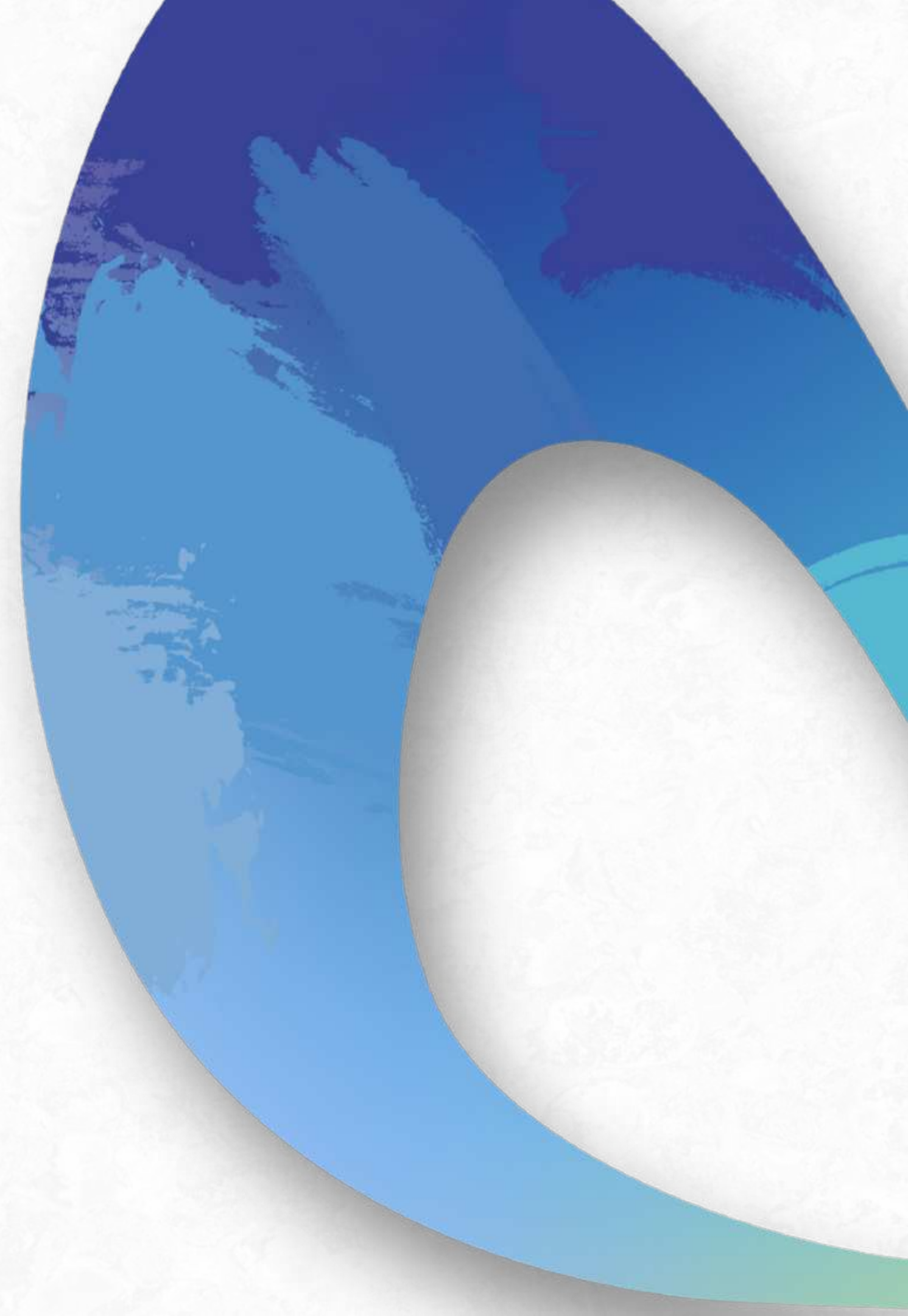
Workshop Overview

Aims and Objectives

IBF Workshop Aim

To develop a workplan* detailing WISER Asia Pacific support to the IBF working group, in addressing key priorities for enhancement of IBF EWS in the SAHF region, informed by strategic direction from the SAHF EC and outcomes of SAHF IV.

*Detailed for initial 2 years of WISER Asia Pacific support to IBF priorities under SAHF, but with an outlook to year 5.

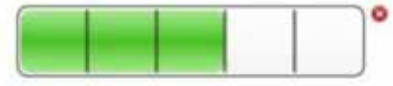


IBF Workshop Objectives

To meet the overall workshop aim, the workshop will aim to...

- Take stock of IBFEWS in the SAHF region, considering current status, and development needs, opportunities and priorities of the region and member countries.
- Translate priorities into a clear implementation plan(s) to enable allocation of partner / programme resources over 2025-28, with an outlook to the end of WISER Asia Pacific (early 2030s).
- Agree roles of SAHF IBF WG members, SAHF member countries, regional and international partners in supporting delivery of the IBF implementation plans.
- Share the toolkit approach (proposed at SAHF IV) and initiate further development of this approach to support the design, development, implementation and sustainability of enhanced IBFEWS in the region, under SAHF.
- Ensure IBF priorities align with, and where relevant, support the objectives of other SAHF working groups, including; NWP, capacity development and climate services*.

Workshop Overview



Progress

-
-
-



-
-
-
-

Planning



-
-
-
-

Expertise in the room

Global/Regional Organizations: UKMO, RIMES, World Bank, WMO, WFP, ICIMOD, IWMI, UNESCAP, ADPC, RCCC, INCOIS, NCMWRF, IITM, JAMSTEC, University of Salford, FCDO, FAO

NMHSs: AMD, BMD, NCHM, DHM, DMH, IMD, PMD, MMS, DoM

User Sectors: Ministry of Aviation Pakistan, Ministry of Defense Bangladesh, DoI Sri Lanka, MALI Myanmar, NDRRMA Nepal



Any questions?