

# CARE COMPONENT 1

**CARE** | SOUTH ASIA



## 3<sup>rd</sup> REGIONAL WORKSHOP



24 - 27 February 2025

Bangkok, Thailand | Livestreaming via Zoom



## 1. About CARE Component 1

**The Climate Adaptation and Resilience (CARE) for South Asia Project**, a 5-year initiative from 2020 to 2025, enhances institutional capacities toward integrating climate and sectoral information in decision-making and to contribute to an enabling environment for climate-resilient policies and investments in the region.

**Implemented by the Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES), with support from the World Bank, CARE Component 1 promotes evidence-based climate-smart decision-making.** Component 1's work includes the:

- development of digital systems that host climate and sectoral data, process these data, automate requisite analysis, and produce customized information products for different users – from the region, to the countries, to sub-national locations;
- capacity enhancement of stakeholders to make use of these digital systems, the tools imbedded therein/associated therewith, and the data and information products in these systems/tools; and
- capacity enhancement of National Meteorological and Hydrometeorological Services (NMHSs) in South Asia, for improved weather/climate services.

CARE Component 1 adopted a co-development process with stakeholder institutions in the region vis-à-vis the following digital systems:

- **regional Resilience Data and Analytics Services (RDAS)**, a regional system comprised of 3 distinct but inter-connected pillars: data, analytics, and predictive tools. RDAS makes available climate and sectoral data and information, and tools that enable stakeholders to use data from various sources (either imbedded in RDAS or custom data from stakeholders themselves) and instantly analyze such data to infer relationships between climate and socio-economic parameters to generate potential societal impacts of particular weather/climate events;
- **South Asia Hydromet Forum (SAHF) Knowledge Hub (KHub)**, catering to the various knowledge/information requirements of NMHSs;
- **decision support systems (DSSs) and DSS-support tools**, which have been customized for various recipient government institutions in Bangladesh, Nepal, and Pakistan. These include:
  - **Bangladesh**
    - Kiosk Monitoring Application, Farmers Database, and Mobile Application in support of the Bangladesh Agro-Meteorological Information Service (BAMIS) for the Department of Agricultural Extension (DAE)



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- National Livestock Advisory System (NLAS) for the Department of Livestock Services (DLS)
- DSS for the Flood Forecasting and Warning Center (FFWC)

## ▪ Nepal

- Agriculture Advisory System (ADVISE), for the Ministry of Agriculture and Livestock Development
- National Vehicular and Transport Gateway (NAVIGATE), for the Department of Roads (DoR)
- Satark, for the National Disaster Risk Reduction and Management Authority (NDRRMA)

## ▪ Pakistan

- ADVISE, for Balochistan Agriculture and Cooperatives Department (BACD)
- ADVISE, for Punjab Agriculture Department (PAD)
- Climate-Informed Planning and Development System (CLIM-PLANNED) for the Ministry of Planning, Development, and Special Initiatives (MoPDSI)

Nearing the project end-term, CARE Component 1 continues to closely engage with partner government institutions to enhance capacities at operationalizing, managing, using, and sustaining the digital systems/tools and their information products post-CARE.

## 2. Objective of, and expected outputs from, the 3rd Regional Workshop of CARE Component 1

The 3rd Regional Workshop for CARE Component 1 is the final regional workshop for the project. This final regional workshop is targeted to share outputs from CARE Component 1 thus far, advocate for sustainability of capacities developed among partner government institutions, explore mechanisms for replication of good practices, and take forward lessons learnt from the project.

### The following activities are convened, back-to-back, in this 3rd Regional Workshop:

- **Regional Sectoral Focal Points (SFPs) Meeting**, to interface with the designated SFPs from partner government institutions in Bangladesh, Nepal, and Pakistan, and other countries in SAR on CARE Component 1's contributions thus far, and



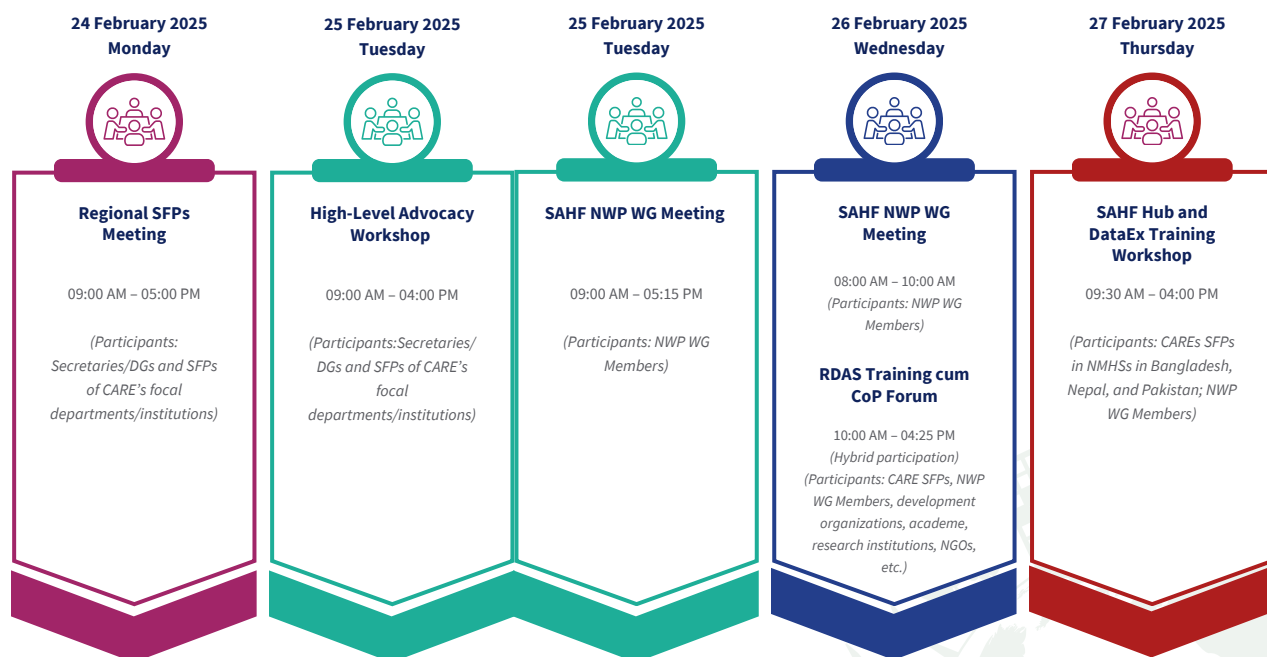
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explore ways forward for sustaining and strengthening the CARE Component 1-facilitated capacities of partner government institutions;

- **High-Level Advocacy Workshop**, to strengthen champions of climate-informed planning and decision-making in government systems in Bangladesh, Nepal, and Pakistan, who can influence system enhancements to promote sustained capacity enhancements in climate resilience post-CARE;
- **RDAS Training cum Community of Practice (CoP) Forum**, to capacitate stakeholders in SAR to use the RDAS and draw from expertise, knowledge, and skills in the region to further refine/evolve its modules;
- **SAHF Numerical Weather Prediction Working Group (NWP WG) Meeting**, to provide an opportunity for the NWP WG to turn strategic directives into actionable outcomes through regional collaboration and adaption of innovative solutions.
- **SAHF KHub and Data Exchange (DataEx) Training Workshop**, to enhance NMHSs' capacity to acquire, access, visualize, and analyze forecast data through these platforms, to upgrade forecasting processes.

### 3. Schedule of Activities and Participants

The inclusive activities of the 3rd Regional Workshop of CARE Component 1 are scheduled, as below. The participants are indicated.



## 4. Agenda

**Day 1: 24 February 2025**

Regional Sectoral Focal Points (SFPs) Meeting	
Bangkok, Thailand   09:00 AM – 05:00 PM (Bangkok Time, UTC+7)	
Opening Session	
09:00 AM – 09:10 AM	Welcome Remarks and Insights from CARE Component 1 Implementation <i>Mr. A.R. Subbiah, Director General, RIMES</i>
09:10 AM – 09:20 AM	Message from the World Bank <i>Mr. Bilal Khalid, CARE Co-TTL, World Bank</i>
09:20 AM – 09:35 AM	Introductions and Acknowledgement of Participants <i>Facilitation: Mr. Raihanul Haque Khan, Country Program Lead – Bangladesh, RIMES</i>
09:35 AM – 09:45 AM	Overview of the CARE Component 1 Regional Workshop and Its Activities <i>Ms. Kousalya Kumar, Training Coordinator, SAHF-CARE, RIMES</i>
	A succinct PowerPoint presentation will provide the participants an overall perspective of the target outcomes from CARE Component 1's 3 <sup>rd</sup> Regional Workshop.
CARE Component 1 Progress, Achievements, and Feedback	
09:45 AM – 10:05 AM	CARE Component 1's Progress, Achievements, and Challenges Ahead <i>Ms. Ruby Rose Policarpio, Project Director, CARE, RIMES</i>
	CARE Component 1's progress and achievements, thus far, will be summed up. The anticipated challenges vis-à-vis the institutionalization/sustainability of the digital tools will be highlighted, so that these can be addressed in the course of the regional workshop.
10:05 AM – 10:30 AM	Morning Refreshments and Photo Session
10:30 AM – 11:50 AM	Implementation Progress: Bangladesh
	<ul style="list-style-type: none"> <li>Progress and Achievements <i>Mr. Raihanul Haque Khan, Country Program Lead – Bangladesh, RIMES</i></li> <li>Demonstration of Tools and DSSs <i>Ms. Shahana Khatun, Deputy Chief (Policy Planning), DAE</i> <i>Dr. Mohammad Shahadat Hossain, Upazila Livestock Officer, DLS</i> <i>Mr. Sarder Udoy Raihan, Executive Engineer, FFWC</i> <i>Mr. Mobinur Rahman Saim, Senior System Developer, RIMES</i> <i>Mr. Sajib Hassan, Full Stack Developer, RIMES</i></li> <li>Comments/Feedback <i>Relevant Ministries/Departments</i></li> </ul>



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- Comments/Feedback  
*Mr. Mohammad Rafiqul Islam/Mr. Debashish Paul Shuvra, Country Leads for CARE, Bangladesh, World Bank*

- Discussion

The Country Program Lead – Bangladesh will encapsulate, via PowerPoint presentation, the progress and achievements of CARE Component 1 in Bangladesh. Focal staff from DAE, DLS and FFWC, together with key RIMES/CARE staff from Bangladesh, will demonstrate live the CARE-developed tools supporting BAMIS, the NLAS, and FFWC DSS. Relevant officials from DAE, DLS, and FFWC and/or their supervising ministries, will provide comments/feedback, and will be followed by comments/feedback from World Bank. The plenary will be invited to participate in the discussions subsequently.

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## 11:50 AM – 01:10 PM Implementation Progress: Nepal

- Progress and Achievements  
*Ms. Puja Shakya, Country Program Lead – Nepal, RIMES*
- Demonstration of DSSs  
*Mr. Bishnu Hari Devkota, Senior Agriculture Extension Officer, MoALD*  
*Mr. Vijay Kumar Mahto, Unit Chief of HMIS ICT, DoR*  
*Mr. Rajendra Sharma, Undersecretary, Technical, NDRRMA*  
*Mr. Niraj Shakya, Senior Developer, RIMES*  
*Mr. Sujal Manandhar, IT Expert, RIMES*  
*Mr. Kaylin Khanal, Full Stack Developer, RIMES*
- Comments/Feedback  
*Relevant Ministries/Departments*
- Comments/Feedback  
*Ms. Carina Fonseca Ferreira/Mr. Basanta Poudel, Country Leads for CARE, Nepal, World Bank*
- Discussion

The progress and achievements of CARE Component 1 in Nepal will be summed up by the Country Program Lead – Nepal. The ADVISE, NAVIGATE, and Satark will then be demonstrated live by focal staff from MoALD, DoR, and NDRRMA, together with relevant RIMES/CARE staff in Nepal. Feedback/comments from MoALD, DOR, and NDRRMA and/or their supervising ministries and from World Bank, will follow. Feedback/comments/questions from the plenary will then be accommodated.

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## 1:10 PM – 02:10 PM Lunch

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## 02:10 PM – 03:30 PM Implementation Progress: Pakistan

- Progress and Achievements  
*Ms. Amber Masud, Country Program Lead – Pakistan, RIMES*



- Demonstration of DSSs  
*Mr. Juma Khan Tareen, Director, Balochistan Agriculture Research Institute (BARI)*  
*Mr. Sohail Iqbal, Plant Pathologist, BARI*  
*Ms. Mehvish Asghar, Assistant Chief and Agriculture Specialist, MoPDSI*  
*Dr. Muhammad Nawaz, Senior Scientist, Agronomic Research Institute - Faisalabad*  
*Dr. Ishfaq Ahmad, Climate Impacts – Agriculture Expert, RIMES*  
*Dr. Muhammad Sabir, Clean and Green Transport Expert, RIMES*  
*Mr. Prometheus Peter Lazo, System Development Specialist, RIMES*  
*Mr. Tayyab Jan, Full Stack Developer, RIMES*
- Comments/Feedback  
*Relevant Ministries/Departments*
- Comments/Feedback  
*Mr. Bilal Khalid, Country Lead for CARE, Pakistan, and Co-TTL, CARE, World Bank*
- Discussion

RIMES Country Program Lead – Pakistan will set the stage by presenting the progress and achievements of CARE Component 1 in Pakistan. The CARE-developed DSSs for Pakistan, namely, ADVISE and CLIM-PLANNED, will be demonstrated live by focal staff from BACD, PAD, and MoPDSI. The live demonstration of the DSSs will be followed by feedback/comments from relevant officials of BACD, PAD, and MoPDSI and/or supervising units/institutions and the World Bank. The session will also accommodate key feedback/comments/questions from the plenary.

03:30 PM – 04:00 PM Implementation Progress: SAHF

- Dr. Anshul Agarwal  
*Lead for SAHF, RIMES*
- Comments/Feedback  
*Ms. Melanie Simone Kappes, TTL for SAHF, World Bank*
- Discussion

RIMES Lead for SAHF, through a PowerPoint presentation, will cover the progress, achievements, and outcomes thus far in SAHF. The World Bank's Co-TTL for SAHF will provide comments/feedback on the SAHF progress, achievements, and outcomes. The plenary's feedback/comments/questions will be accommodated following the presentation.

04:00 PM – 04:15 PM Afternoon Refreshments

## Way Forward

04:15 PM – 04:30 PM Synthesis of Discussions/Feedback from the Plenary, Handholding Support for



DSSs, and other Salient Take Away Points

*RIMES*

Building on the prior sessions, RIMES will underscore salient points/agreements/matters to be addressed onwards, within CARE's timeline and beyond. RIMES, as necessary, will highlight critical roles/responsibilities vis-à-vis matters that need to be addressed.

04:30 PM – 04:40 PM Remarks from World Bank

*Mr. Bilal Khalid, Co-TTL, CARE, World Bank*

04:40 PM – 05:00 PM Concluding Remarks and Vote of Thanks

*Mr. A.R. Subbiah, Director General, RIMES*

## Day 2: 25 February 2025

### High-Level Advocacy Workshop

Bangkok, Thailand | 09:00 AM – 04:00 PM (Bangkok Time, UTC+7)

*(Parallel with SAHF NWP WG Meeting)*

### Application of Climate Information and Sustainability of Development Interventions: Snapshots from South Asia and Neighboring Regions

09:00 AM – 09:15 AM Highlights/Take-Away Points from the SFPs Meeting

*Ms. J. Elaine Layug, Data Analysis Expert and M&E Specialist, CARE, RIMES*

Salient/critical points from Day 1 will be parked in the plenary. These salient/critical points will be taken forward in subsequent sessions, particularly as part of the workshop on institutional actions to strengthen the sustainability and replicability of CARE-supported interventions.

09:15 AM – 10:00 AM Case Studies: Benefits from the Application of Climate Information in Plans and Decisions and Sustaining Development Interventions

*Mr. Raihanul Haque Khan, Country Program Lead – Bangladesh, RIMES; and Ms. Ruby Rose Policarpio, Project Director, CARE, RIMES*

Case studies/snapshots from RIMES' work in Bangladesh, Myanmar, Sri Lanka, and other countries, highlighting the socio-economic benefits of the application of weather/climate information in sectoral plans and decisions. This will include the benefits from:

- application of heat wave alerts by livestock farmers in Bangladesh (an outcome under CARE Component 1);
- application of severe weather warnings to safeguard harvested crops in Myanmar's Dry Zone;
- application of seasonal outlook in managing crops and reservoirs in Sri Lanka thus circumventing hazards and turning them into opportunities

This session will set the stage for the panel discussion that will follow by flagging



this question: if the benefits from the application of weather/climate information in sectoral plans and decisions are immense and unequivocal, what hinders countries from maximizing efforts/investments for sectoral applications of weather/climate information?

10:00 AM – 10:15 AM Morning Refreshments

10:15 AM – 11:30 AM Sustaining Development Initiatives at Climate Resilience: A Panel Discussion

*Facilitation/moderation: RIMES*

*Panelists:*

*Mr. Nagaraja Rao Harshadeep, Global Lead (Disruptive Technology), Lead Environmental Specialist, World Bank on World Bank's global/regional experiences on implementing and sustaining development interventions on climate resilience. The discussion will highlight specific development interventions undertaken by the World Bank, the factors that has driven sustainability, and the World Bank's mechanisms to provide pragmatic support to sustain relevant climate resilience interventions.*

*Dr. Sanjay Srivastava, Chief, Disaster Risk Reduction, IDD, UNESCAP, on ESCAP's sustained support to climate resilience programs like the Monsoon Forums and other initiatives, and key take-aways/lessons learnt from ESCAP's engagements in Asia-Pacific on implementing/sustaining climate resilience.*

*Dr. Md. Sazzad Hossain, Superintending Engineer, Bangladesh Water Development Board (BWDB), on BWDB's experiences in partnering with development/technical institutions in implementing projects and integrating these into BWDB's regular operations.*

*Local Government Unit, Dumangas, Iloilo, Philippines, on the institutionalization of various climate resilience interventions that enabled Dumangas to build on, institutionalize, and maximize benefits from various projects from 2003 to date, and the way forward thereof.*

*Mr. Raihan Haque Khan, Country Program Lead – Bangladesh, RIMES, on the practical advantages and challenges of sustained/continuous support to government partners.*

The panel discussion will draw from global/regional/national/sub-national expertise and experiences of the panelists vis-à-vis the drivers, barriers, and way forward to sustainability of development interventions on climate resilience.

Panelists will be given 10 minutes each to expound on the topics/questions provided to them. The panelists are free to aid the discussions with PowerPoint or video presentations. At designated period, comments/questions from the plenary to the panelists, will be entertained.

At the end of the panel discussion, RIMES will provide analysis, from the panelists' insights on the sustainability drivers, barriers, and way forward of development interventions on climate resilience. This analysis, together with critical/salient points from Day 1, will form the foundation for the workshop on institutional actions to strengthen the sustainability and replicability of CARE Component 1



interventions.

## Metrics for Sustainable Application of Climate Information and Development Interventions: How Can CARE Make a Difference in the Long Term

11:30 AM - 12:00 NN Workshop: Institutional Actions to Strengthen the Sustainability and Replicability of Development Interventions in CARE Component 1: Nepal, Bangladesh, Pakistan, and other Counties in South Asia

*Facilitation/moderation: RIMES*

Participants will be grouped country-wise and will be provided a matrix of the drivers, barriers, and way forward vi-s-vis sustainability of development interventions per the earlier sessions. Country-wise working groups will respond to the following workshop guide:

- a) What are the most critical drivers and barriers to sustainability of CARE Component 1 interventions in your ministries/departments? Identify these from the matrix provided to you. Depending on the conditions in your ministries you can add/edit out drivers/barriers to customize the matrix.
- b) From the drivers/barriers you have confirmed, and gleaning from the panelists' expertise/experiences, identify:
  - How will you optimize the existing sustainability drivers to reap maximum results?
  - How do you address the barriers, so that the development interventions have lasting and profound impacts?
  - Per the above, identify actions that you will address immediately (within 1-2 months), in the course of this year, and those which need more time to address/implement.

After completing a) and b), identify key issues/concerns/matters that should be critically approached and where support is needed.

Key ministry/institutional officials are expected to discuss the takeaway points in the round table discussion that will follow.

12:00 NN - 01:00 PM Lunch

01:00 PM - 02:00 PM Workshop: Institutional Actions to Strengthen the Sustainability and Replicability of Development Interventions in CARE Component 1: Nepal, Bangladesh, Pakistan, and other Counties in South Asia (*continuation from the morning session*)

02:00 PM - 03:00 PM Round Table Discussion: Sustainability Priorities and Strategies for Climate Resilience in Bangladesh, Nepal, and Pakistan

*Discussants: Ministry/Department Officials from Bangladesh, Nepal, and Pakistan*

*Facilitation: RIMES*

Country teams will discuss priority actions and strategies required for the sustainability of CARE Component 1-supported interventions.

03:00 PM - 03:20 PM Afternoon Refreshments

03:20 PM - 03:50 PM Confirmation of Institutional Sustainability Priorities and Strategies for Climate Resilience



## Facilitation: RIMES

From country-wise discussions, RIMES will provide analysis of the actions that are most doable (within CARE's remaining implementation period); those that need inter-institutional commitments and actions; actions that may spillover beyond CARE's implementation period; and those which require institutional and policy changes and hence, may require sustained interventions until such changes are put in place.

## Closing Session

03:50 PM – 04:00 PM Remarks from World Bank

*Mr. Bilal Khalid, Co-TTL, CARE, World Bank*

## Day 2: 25 February 2025

### SAHF Numerical Weather Prediction Working Group (NWP WG) Meeting

Bangkok, Thailand | 09:00 AM – 05:15 PM (Bangkok Time, UTC+7)

*(Parallel with High-Level Advocacy Workshop)*

## Opening Session

09:00 PM – 09:10 AM Welcome Remarks

*Dr. K. J. Ramesh, Regional Program Advisor, RIMES*

09:10 AM – 09:30 PM Message from the World Bank and Insights from SAHF

*Dr. Alice Soares, Senior Hydromet Advisor, World Bank*

09:30 AM – 10:00 AM Introductions and Acknowledgement of Participants

*Facilitation: RIMES*

10:00 AM – 10:15 AM Refreshment and Group Photo

## Directions from SAHF-4 and Executive Council, and NWP WG Priorities

10:15 AM - 10:30 AM Directions from SAHF-4 and Executive Council

*Dr. Alice Soares, Senior Hydromet Advisor, World Bank; and Dr. Anshul Agarwal, Lead for SAHF, RIMES*

A briefing on key takeaways from the fourth SAHF Annual Conference and decisions made by the Executive Council regarding NWP priorities will be provided. The session will set the direction for subsequent discussions.

10:30 AM – 11:00 AM Review of NWP WG Priorities

*WG/NWP Co-Chairs followed by discussion*

The Co-Chairs will present the WG priorities, outlining ongoing initiatives, challenges, and opportunities. This will be followed by a discussion to refine focus areas for the coming years.



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## Regional NWP Strategy

11:00 AM – 11:30 AM

Overview of the Regional NWP Strategy 2025-2030

*Dr. Alice Soares, Senior Hydromet Advisor, World Bank*

An overview of the proposed NWP Strategy for 2025-2030, including its goals, objectives, and implementation framework, will be presented.

11:30 AM – 12:00 NN

Review, Discussion, and Finalization of the Regional NWP Strategy 2025 – 2030

*Facilitation: Dr. Alice Soares, Senior Hydromet Advisor, World Bank; and Dr. K. J. Ramesh, Regional Program Advisor, RIMES*

Participants will provide feedback on the draft strategy, ensuring alignment with national and regional priorities. The session will focus on refining the document before finalization.

12:00 NN – 12:30 PM

Overview of the Roadmap for the Implementation of the Regional NWP Strategy 2025-2030 and its proposed activities under CREWS-South Asia

*Dr. Alice Soares, Senior Hydromet Advisor, World Bank*

A presentation on the roadmap development for implementing the NWP strategy, including specific activities under the Climate Risk and Early Warning Systems (CREWS) initiative for South Asia, will be delivered.

12:30 PM – 01:30 PM

Lunch

## Development of the SAHF NWP Roadmap

01:30 PM – 03:15 PM

Development of the Roadmap

*Facilitation: Dr. Alice Soares, Senior Hydromet Advisor, World Bank; Dr. K. J. Ramesh, Regional Program Advisor, RIMES; and Dr. Anshul Agarwal, Lead for SAHF, RIMES*

A working session will be facilitated to define the steps/processes, as part of the roadmap, for implementing the NWP strategy. Participants will discuss milestones, institutional roles, collaboration mechanisms, and technical requirements.

03:15 PM – 03:30 PM

Afternoon Refreshments

## Development of Costed Action Plan Associated with the SAHF NWP Roadmap

03:30 PM – 05:00 PM

Development of Costed Action Plan Associated with the Roadmap

*Facilitation: Dr. Alice Soares, Senior Hydromet Advisor, World Bank; and Dr. Anshul Agarwal, Lead for SAHF, RIMES*

This session will focus on estimating/assessing costs for implementing actions to achieve milestones identified/proposed in the roadmap, identifying funding sources, and aligning activities with regional priorities.

05:00 PM – 05:15 PM

Summary of the Day

*NWP Co-Chairs*



**Day 3: 26 February 2025**

## SAHF Numerical Weather Prediction Working Group (NWP WG) Meeting

Bangkok, Thailand | 08:00 AM – 10:00 AM (Bangkok Time, UTC+7)

### Development of Costed Action Plan Associated with the SAHF NWP Roadmap

08:00 AM – 09:00 AM Development of Costed Action Plan Associated with the Roadmap (continued from Day 1)

*Dr. Alice Soares, Senior Hydromet Advisor, World Bank; and Dr. Anshul Agarwal, Lead for SAHF, RIMES*

Building on the completed work from the NWP WG meeting during the previous day, this session will finalize the financial and operational details of the action plan for NWP roadmap implementation.

09:00 AM – 09:45 AM Final Review and Adoption of the Regional NWP Strategy, Roadmap, and Costed Action Plan

*Facilitation: Dr. Alice Soares, Senior Hydromet Advisor, World Bank; and Dr. K. J. Ramesh, Regional Program Advisor, RIMES*

The roadmap and associated strategies for implementation, as an output from the meeting, will be reviewed by the plenary, to ensure consensus among stakeholders. The session will conclude with the formal adoption of the roadmap and its associated strategy and action plan.

### Closing Session

09:45 AM – 10:00 AM Remarks from World Bank

*Dr. Alice Soares, Senior Hydromet Advisor, World Bank*

Remarks from SAHF

*Co-Chairs, NWP WG*

**Day 3: 26 February 2025**

## RDAS Training cum Community of Practice (CoP) Forum

Bangkok, Thailand | 10:00 AM – 04:25 PM (Bangkok Time, UTC+7)

### Opening Session

10:00 AM – 10:10 AM Introductions and Acknowledgement of Participants

10:10 AM – 10:30 AM RDAS: Uniqueness, Capabilities, Highlights, and Way Forward; Overview of the Training; and Recap of System Development Progress and User Engagement

*By Ms. Ruby Rose Policarpio, Project Director, CARE, RIMES*

The features of RDAS will be presented via a PowerPoint presentation. This presentation will focus on the goal of RDAS, the novelty it brings, its



pioneering operational modules, and its future potential.

Subsequently, target outcomes from the training and the engagements undertaken with stakeholders on the co-development of RDAS modules will be discussed.

10:30 AM – 10:45 AM

Morning Refreshments

## RDAS Modules Utilization and Refinement

10:45 AM – 12:00 NN

Walkthrough of the complete RDAS modules and Hands-on Exercise of the Tools

- Data Modules
- Analytics Modules
- Predictive Tools Modules

*RIMES RDAS Team*

RDAS developers will demonstrate live the completed modules in RDAS. Participants, at a particular point in the session, will be asked to explore the modules via their own computers or the interactive screens provided in the plenary. As stakeholders do hands-on exercises, they will be requested to write down, on post-it notes, their feedback/recommendations for system enhancement/onward work and how best these enhancements/onward work can be done.

12:00 NN – 12:20 PM

Feedback and Salient Points on Digital Systems Development

*Mr. Nagaraja Rao Harshadeep, Global Lead (Disruptive Technology), Lead Environmental Specialist, World Bank*

The World Bank's Global Lead for Disruptive Technology will provide his feedback on the completed RDAS modules and recommendations for enhancing RDAS' utility.

12:20 PM – 01:20 PM

Lunch

Prior to breaking for lunch, participants will be requested to pin their written feedback/comments flip charts/boards provided in the plenary.

01:20 AM – 01:40 PM

Feedback and Recommendation Sharing

*Participants*

A representative from the participants will be tasked to provide a summary of the feedback/comments posted and lead the plenary on the prioritization of the said feedback/comments.

01:40 PM – 03:30 PM

Expert Working Group Session: RDAS Modules Refinement and Utilization

*Facilitation: RIMES*

Participants will be grouped per the RDAS tool of relevance/interest to them. Participants will work with developers to implement module enhancements that can be done immediately (within the working session) and plan for those which need more time to implement.

03:30 PM – 04:00 PM

Presentation of Refinements, Targets, and Strategies to Maximize System



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## Utilization

A representative from each group will identify module enhancements they have completed and plans for onward work.

## Closing Session

04:00 PM – 04:15 PM

Synthesis and Way Forward

*RIMES*

RIMES will sum up key take away and way forward points, for broader adoption/agreement with the plenary.

04:15 PM – 04:25 PM

Vote of Thanks

*RIMES*

04:25 PM – onwards

Afternoon Refreshment

## Day 4: 27 February 2025

### SKHub and DataEx Training Workshop

Bangkok, Thailand | 09:30 AM – 4:00 PM (Bangkok Time, UTC+7)

## Opening Session

09:30 AM – 09:40 AM

Acknowledgement of Participants

09:40 AM – 10:30 AM

Introduction to SKHub: Features and Salience

*Mr. Surajan Shrestha, Web Developer-SKHub, RIMES*

The presentation will introduce the SKHub, highlighting its core features and role in enhancing meteorological and hydrological services across South Asia. The session will also include an introduction and demonstration of the newly developed Learning Management System (LMS) as a key addition to SKHub.

10:30 AM – 10:50 AM

Morning Refreshment

10:50 AM – 12:00 NN

Introduction to DataEx Platform

*Mr. Nazmul Ahasan, Country IT Lead, RIMES*

The presentation will cover the DataEx platform's role in data exchange and regional collaboration, focusing on its tools for accessing high-resolution forecast data and supporting operational hydromet systems

## Interactive Tools Demonstration

12:00 NN – 01:00 PM

Interactive Demonstration: Tools for Forecasting and Visualization

*Mr. Nazmul Ahasan, RIMES*

The session will provide participants with a hands-on experience exploring forecasting tools and data visualization within DataEx, allowing them to practice interpreting forecast models.



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01:00 PM – 02:00 PM	Lunch
02:00 PM – 02:30 PM	<p>Monsoon 2023 Verification</p> <p><i>RIMES Team/NWP WG Members</i></p> <p>During the session the facilitators will present the key outcomes of the Monsoon 2023 Verification. The discussion will outline proposals for sharing the verification results and identify the support required for Monsoon 2024.</p>
02:30 PM – 03:30 PM	<p>Interactive Demonstration: Accessing and Analyzing Data for Regional Applications</p> <p><i>Mr. Nazmul Ahasan, RIMES</i></p> <p>Participants will be guided through accessing real-time data, analyzing it using platform tools, and applying insights for decision-making.</p>
03:30 PM – 03:45 PM	Afternoon Refreshments
03:45 PM – 04:30 PM	<p>Hands-on Session on DataEx and SKHub and Feedback/Recommendations for Enhancing Systems Utility</p> <p><i>Facilitation: RIMES SAHF Team</i></p> <p>Participants will independently explore SKHub and DataEx, followed by a structured feedback session on user experience and potential system improvements. The session will be facilitated by the SAHF team.</p>
04:30 PM – 04:45 PM	<p>Addressing Challenges in Data Sharing and Regional Collaboration, Data Utilization, and Capacity Building</p> <p><i>Facilitation: RIMES SAHF Team</i></p> <p>The SAHF team will facilitate a discussion on challenges in regional data sharing, data quality, and capacity building, with participants sharing insights on overcoming barriers and improving collaboration.</p>
<b>Closing Session</b>	
04:45 PM – 05:00 PM	<p>Closing Remarks</p> <p><i>RIMES</i></p>



## 5. Organizer and Key Contact

### **Regional Integrated Multi-Hazard Early Warning System**

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# CARE COMPONENT 1

**CARE** | SOUTH ASIA

