

## CARE COMPONENT 1: CONTRIBUTIONS TO RIMES TRIPPLE M EARLY WARNING SYSTEM

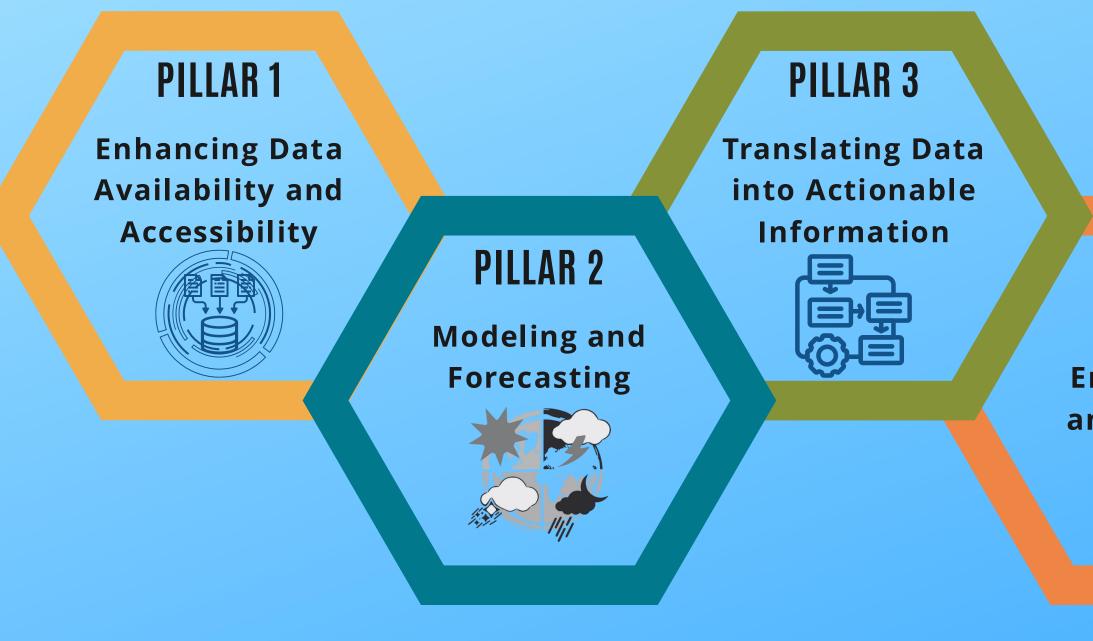


### RUBY ROSE POLICARPIO LEAD, Societal Applications and Director, CARE Component 1, RIMES





# Five Pillars of the Early Warning/Climate Information Value Chain



### PILLAR 5

Research and Development

### PILLAR 4

Societal Engagements and Feedback



### Integration of hydro-meteorological and sectoral data: the core of impact-based forecasting and climate services





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### Societal Engagements and Feedback

Capacity building of stakeholders in application of multi-hazard, multi-scales decision guidance information and obtaining feedback for fine-tuning services to users' requirements





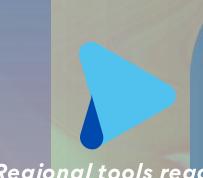


Connecting advances in science, technology, and innovations to users requirements for cost-effecient and efficient solutions

Global/regional data downscaled to national, provincial, and district levels and connected to DSSs, to readily support various DSSs analysis

# CARE SOUTH ASIA





Regional tools ready for national/sub-national customization

DSSS



BANGLADESH

Cutomized tools provide inovation perspectives for regional tools



National/Sub-national in-situ datasets assimmilated in RDAS for cutomizing tools





**PLANNING AND** 

DEVELOPMENT

### co-development process pursued with stakeholder institutions

WATER

TRANSPORT





Stand-alone data that can be downloaded, and on which stakeholders can have a number of analysis either on its own or paired with other data.

In this panel, stakeholders can also upload their data, sector-wise, after quality checks.

BBB

understand Easy to time-series analyses of sectoral climate and datasets to identify behaviour patterns, and <u>relationships</u> between sectoral climate and parameters

DATA

Dynamic regional data repository for climate and sectors

> About 228 climate and sectoral datasets/library of datasets available in RDAS

ANALYTICS

Analyses of time-series climate and sectoral datasets

> • 4 analytics tools developed and operational





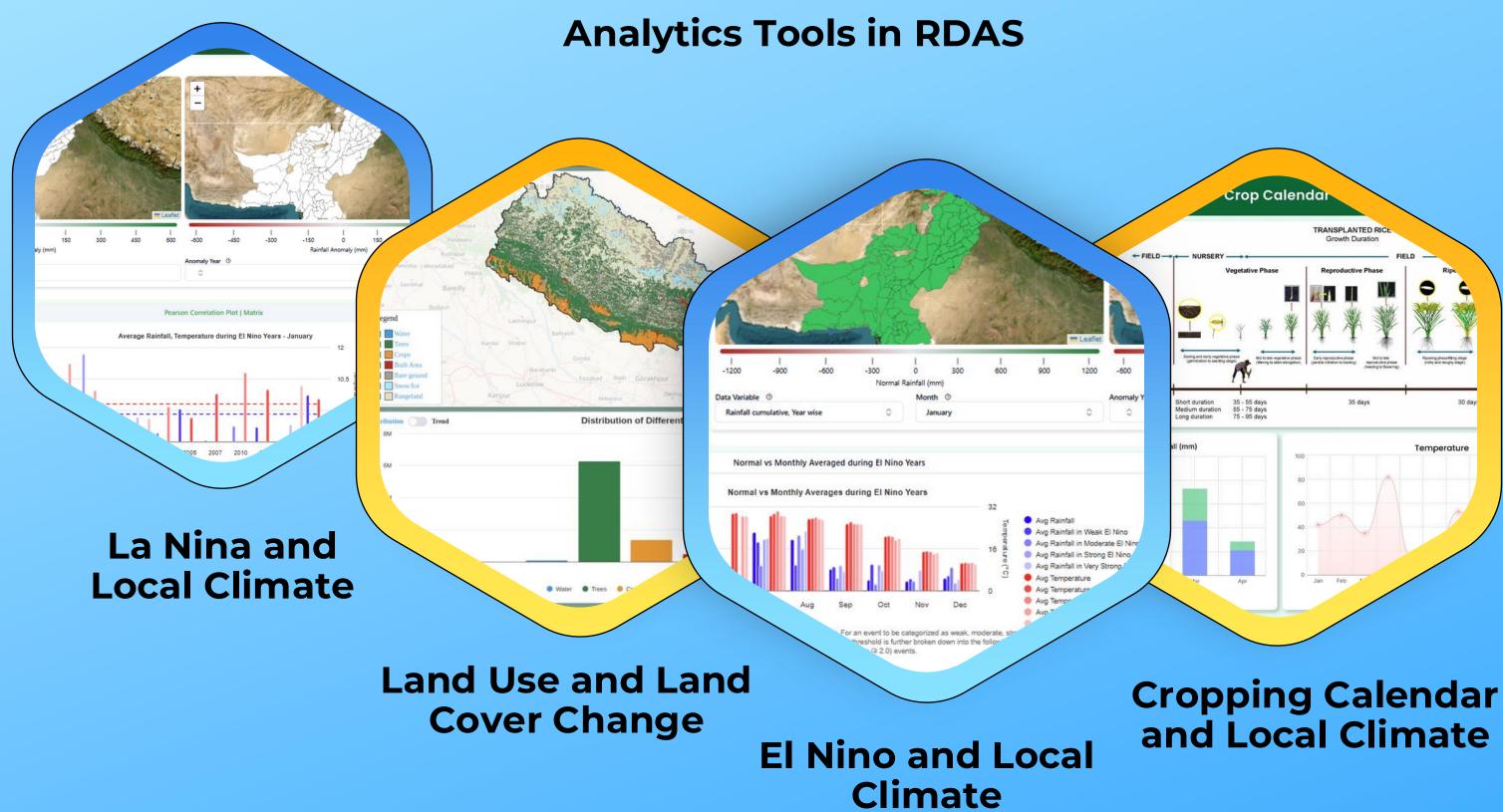
Analyses potential of impacts of anticipated weather/climate phenomena per assessment of historical sectoral impacts, forecast data, and other prevailing conditions



### PREDICTIVE TOOLS

Predictive climate impacts tools

> • 3 predictive tools developed and operational





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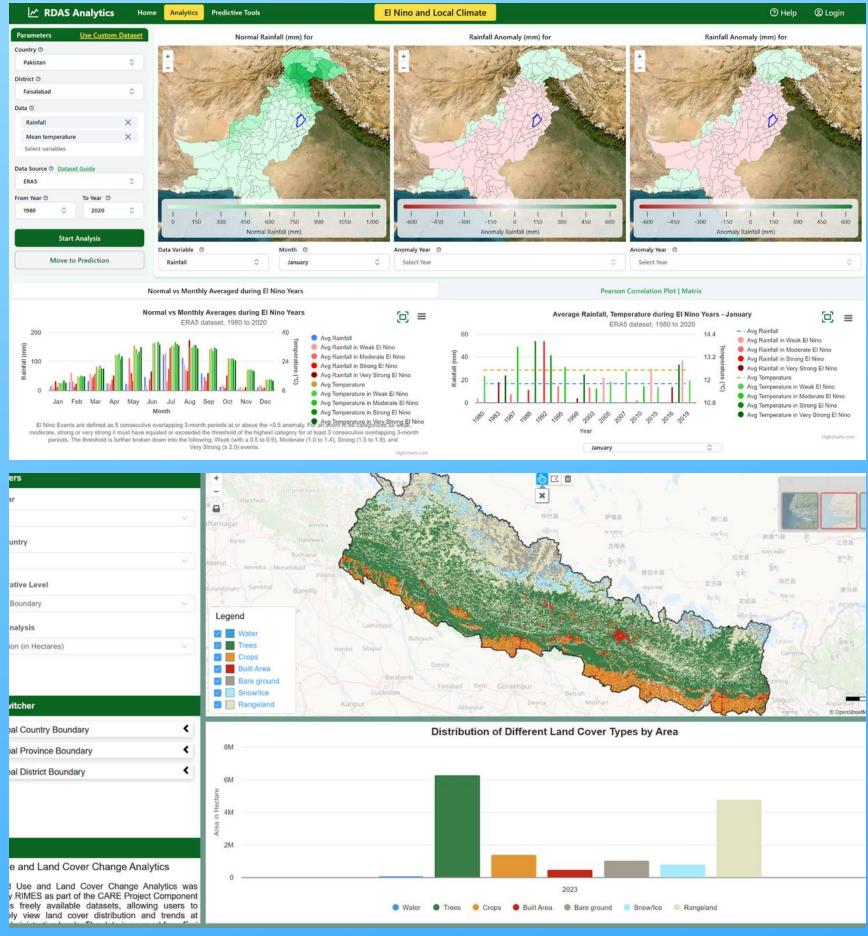
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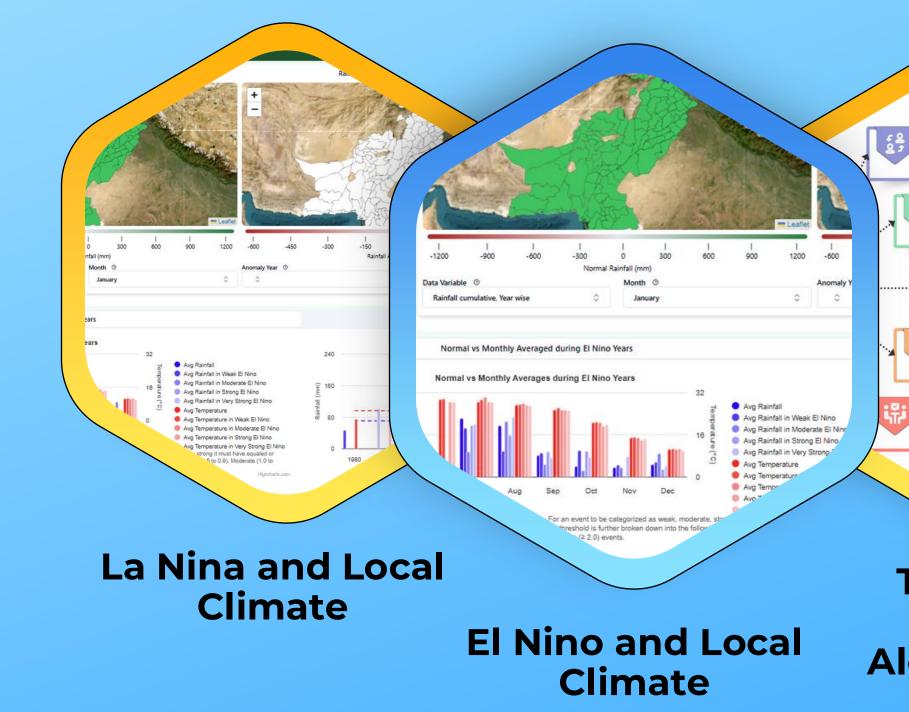
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### **Predictive Tools in RDAS**



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## Temperature Sensitivity Alerting System

### Sub-optimum, (below the optimum temperature) emperature range below the most ideal; while survival and prod ible, this entails (mild) stress and potentially lower productivi Unconducive Temperature is way below the optimum and sub-optimum ranges. Under this temperature category, severe stress is expected, and survival and productivity could be at stake. (11)

Sub-optimum, above the optimum temperature range below the most ideal; while survival and proc

### Optimum Temperature

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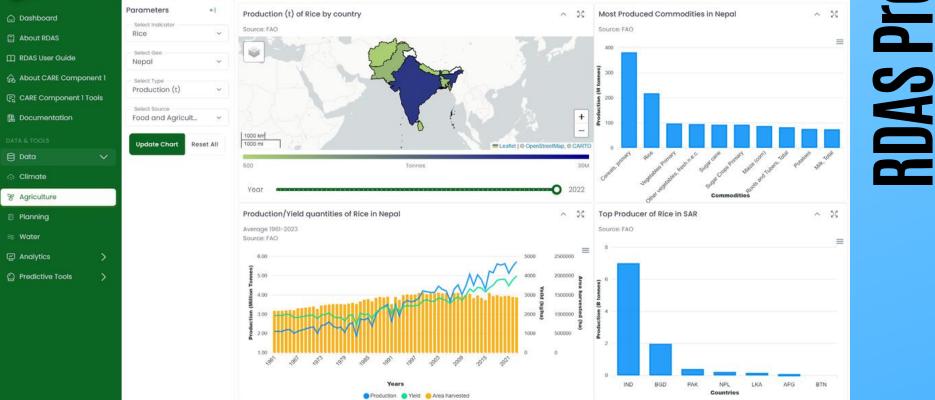
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The best temperature range for survival and productivity (in literature, this is refered to as "comfortable" range

nperature is way higher than the optimum and sub-optimum ranges

Inder this temperature category, severe stress is expected, and survival nd productivity could be at stake.





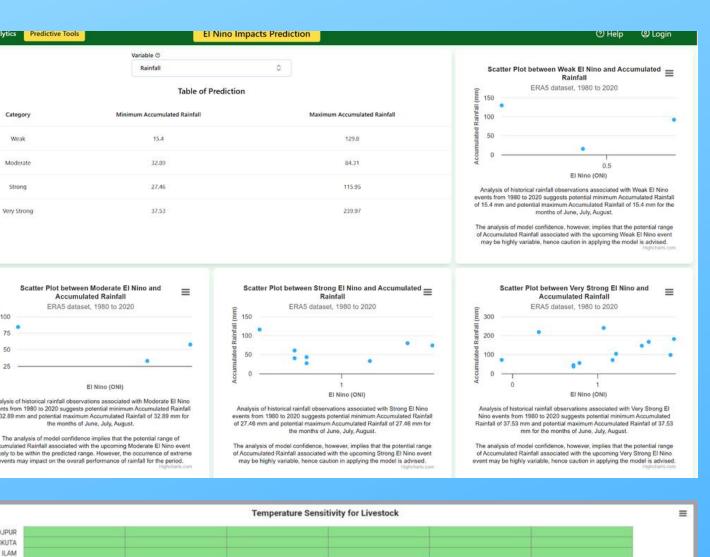
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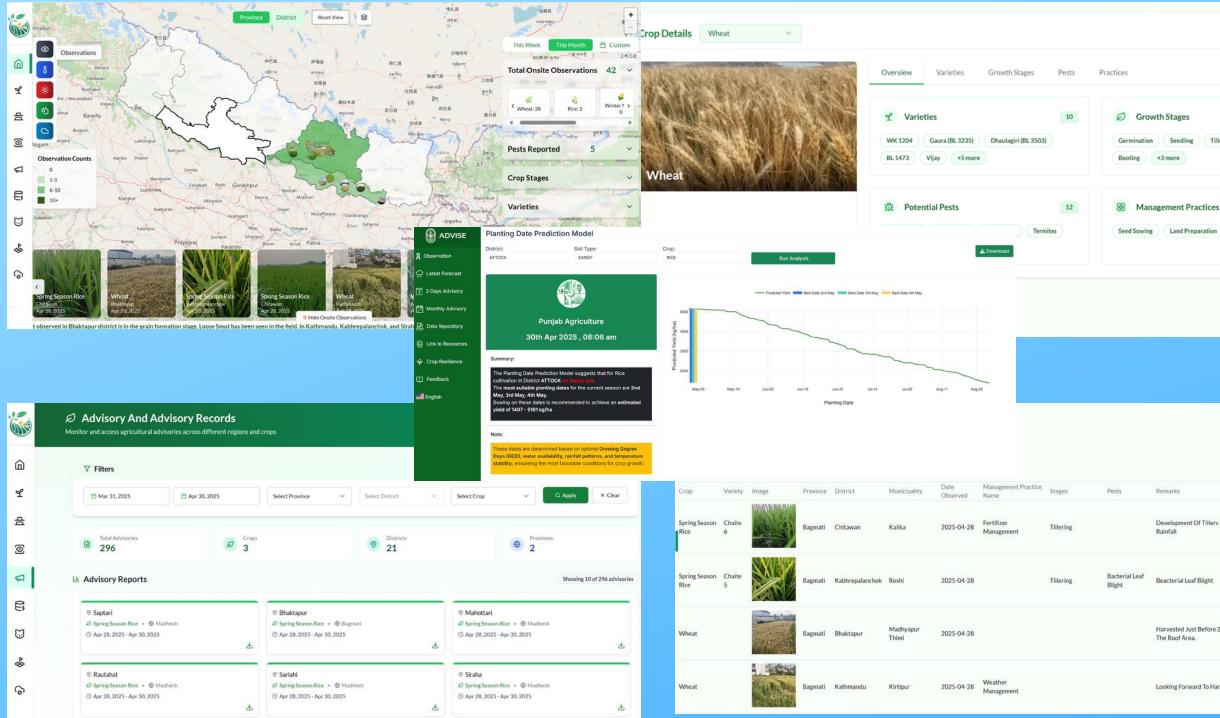






🔸 Min Temperature 🛛 🛶 Max Temperature 🛶 Lower Conducive Bound 🛶 Upper Conducive Bound

## **AGRO-ADVISORY SYSTEM** (ADVISE)



### DISTRICT QUETTA: 3-DAY SHORT-TERM ADVISORY FOR TOMATO CROP

2025-02-19 08:10:44



### Observed Crop Conditions

Following are the crop conditions observed in district Quetta

Crop Stage	Sowing	Crop Condition	Healthy
Crop activities	Planting	Crop Disease	Nil
Water Resources	Groundwater	Crop Pest	Nil
Soil Condition	Fertile	Crop Varieties	Nil

Tomato is mostly sowing stage in Quetta. The seeding is generally Healthy across the district and Groundwater is the main source of irrigation.

### **Three Days Forecast Weather Conditions**

Date	Max Temp(°C)	Min Temp(°C)	Rainfall(mm)	Humidity (%)
2025-02-19	14.87	-3.26	11.59	72.62
2025-02-20	12.59	-3.26	0.00	51.97
2025-02-21	18.11	0.40	2.93	58.81

### **Optimal Weather Conditions for Tomato at Germination**

For optimal Tomato growth at the Germination stage, the ideal conditions include temperatures between 19-21°C, daily rainfall of 25mm, and relative humidity levels of 65%. Adjust irrigation and fertilization to support crop growth under these conditions.

### **Crop Management Recommendations**

### Weather Management Measures

The temperature for the next 3 days is anticipated to be lower than the optimal weather conditions for Tomato at Germination. Temperatures <15°C may slow germination. Use row covers or soil warming techniques to maintain optimal temperatures.

### Irrigation Management Measures

Water is critical at this stage of Tomato growth to maximize Germination. The expected rainfall in the next three days is 4.84mm. However, the crop requires 25-35mm of irrigation water at this stage in Quetta. There is sufficient soil moisture at this stage, so irrigation is not needed. Disclaimer

This advisory is based on the best available data and forecasts. While every effort has been made to ensure accuracy, unforeseen/fast-forming conditions may result in variations. It is recommended to verify local conditions and analyze risks before implementing any actions.

Seedling Tillering Stem Elor

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Remarks nent Of Tillers la Great Due To Effec

Beacterial Leaf Blight

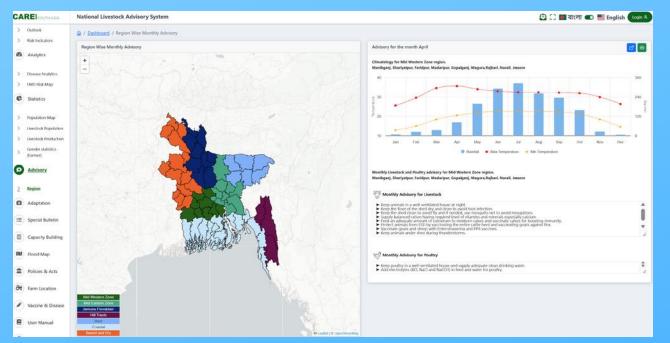
Harvested Just Before 2 Days And Safely Kept The Roof Area.

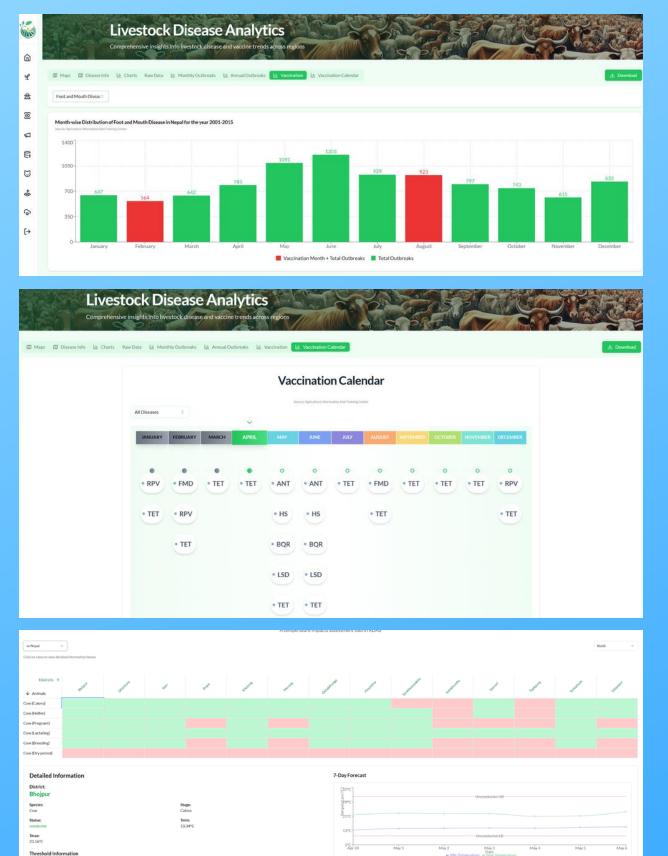
Looking Forward To Harvest

## **NLAS/TEMPS**

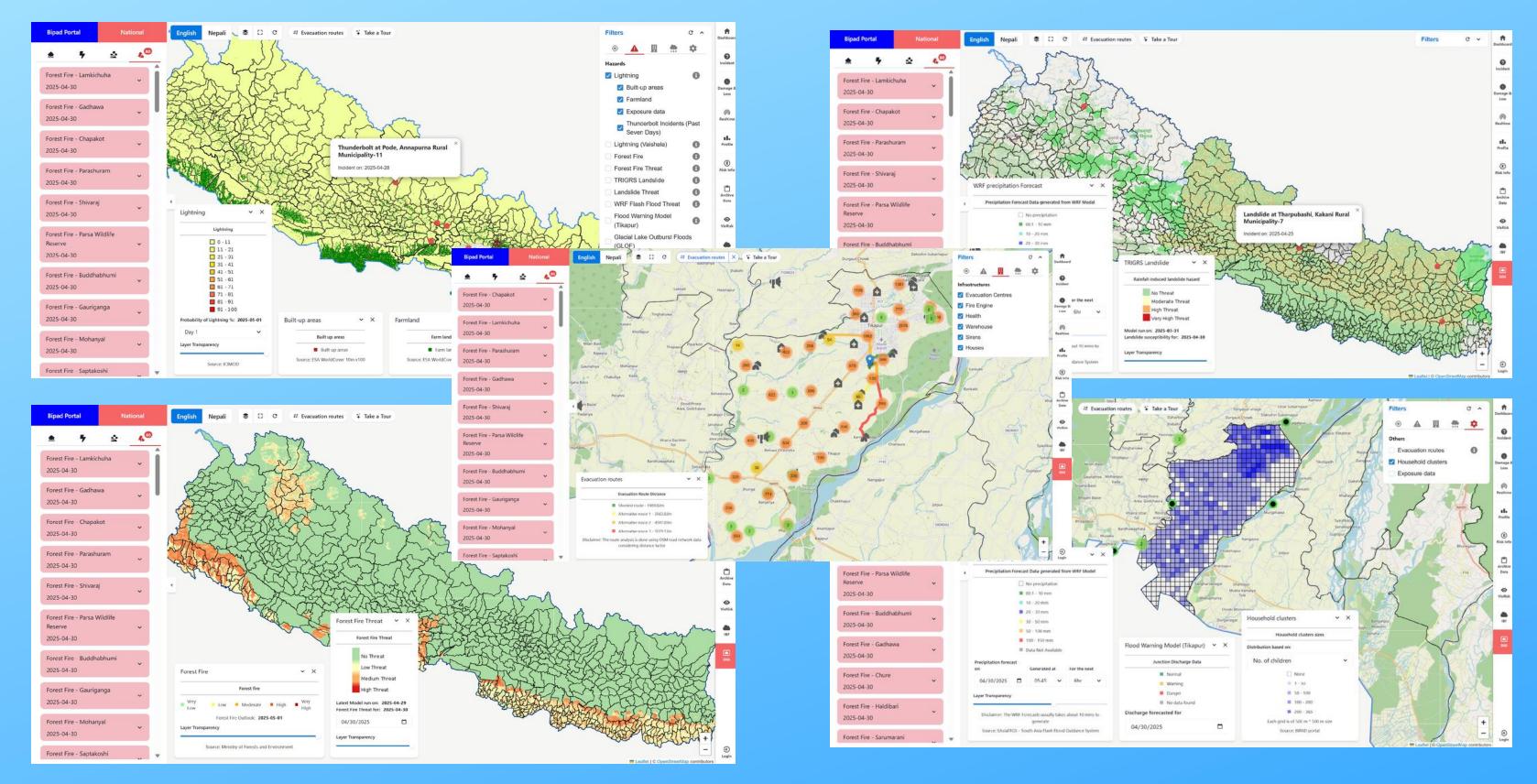




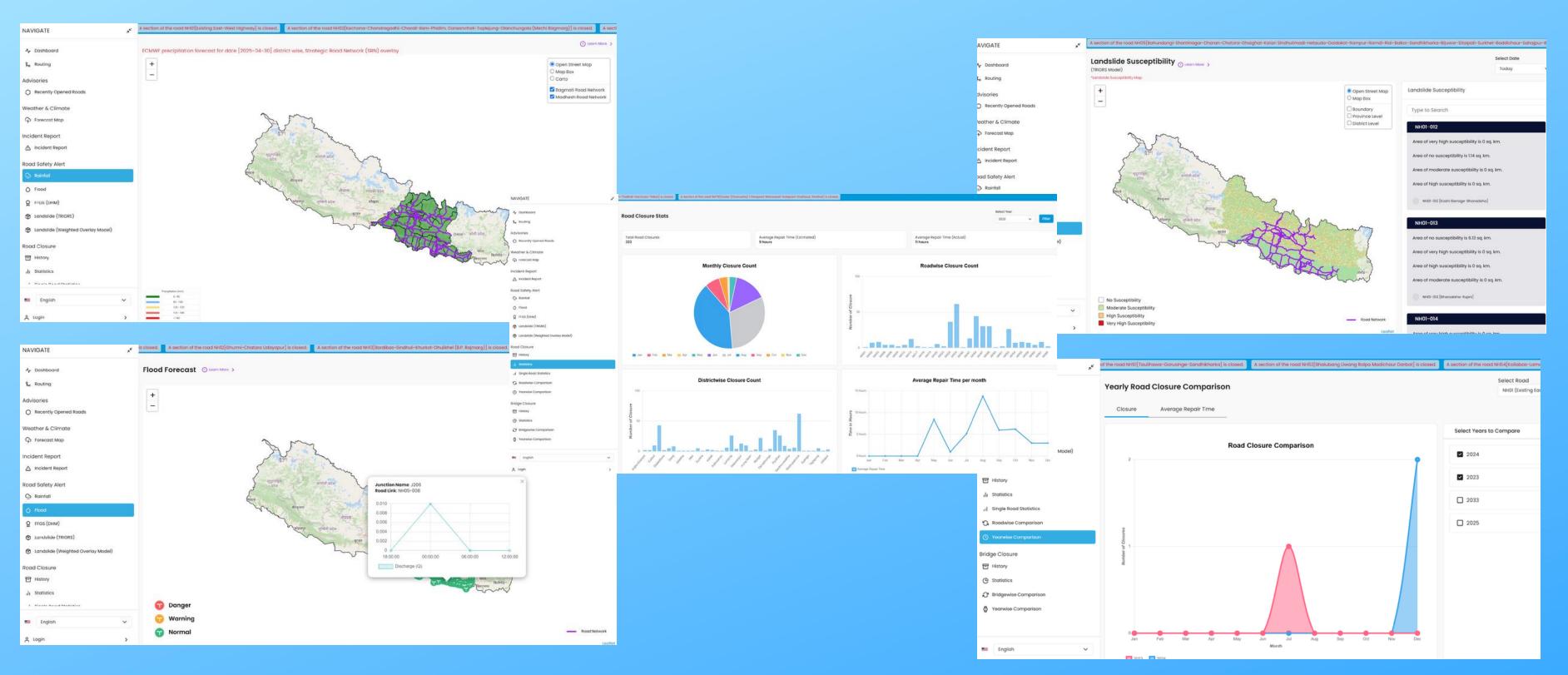




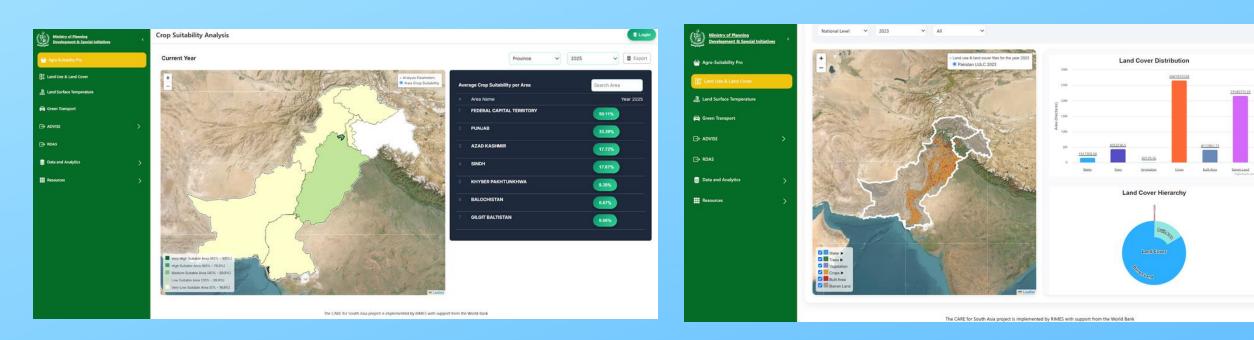
## **SATARK**



## NAVIGATE



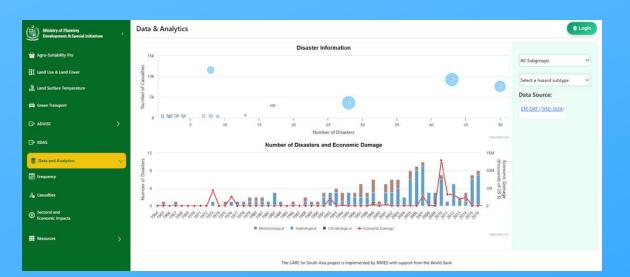
## **CLIM-PLANNED**



Ministry of Planning Development & Special Initiatives	Crop Suitability Analysis			Login     Login     Ministry of Planning     Development & Special Initis	National Level 🗸 2023 🗸	All Y	
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	Cowpea	55.00%	8	Rightlack same	A CONTRACTOR OF THE OWNER		Historical Trends
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	Wheat	49.00% 2.) Water: The following are the avera				A CONTRACTOR OF A CONTRACTOR OFTA CONT	
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	Sugarcane	39.00% Vegetative Growth, Flowering (Nov to Pod Formation (Jan to Feb): 397.12 m				The second s	2017 2018 2019 2020
	Apple	Seed Filling, Maturity (Mar to Apr): 30 35.00% To cultivate Chickpea, the following a	9.88 mm.		Water ►     Troes ►	A CONTRACTOR OF THE CASE	Water     Water     Worder     Worden     Groadleaf Forests     Groadleaf Forests     Preciduous-Broadleaf Forests     Preciduous-Broadleaf Forests     Preciduous-Broadleaf Forests     Preciduous-Broadleaf Forests
	Soyabean	29.00% requirements per crop cultivation sta Germination, Seedling (Oct): 157.20 m	je:		I II Vegetation I II Crops ►	The second second second	
	Rice	14.00% Vegetative Growth, Flowering (Nov to Pod Formation (Jan to Feb): 397/2 m	Dec): 122.87 mm		💴 Built Area		- cooperation
	Brassica	9.00% Seed Filling, Maturity (Mar to Apr): 30	9.88 mm.			- Leafer	
	Carama	9 00% The analysis finds that 85.61% of the					

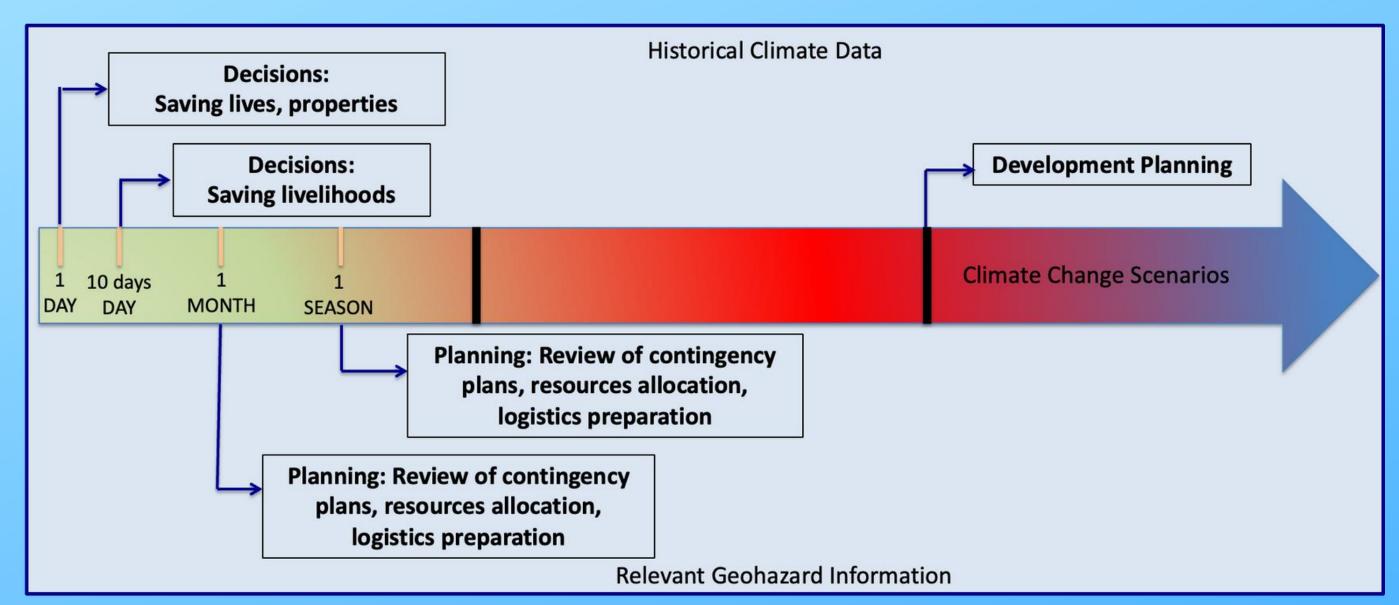
Ministry of Planning Development & Special Initiatives	Green Transport		•
🚔 Agro-Suitability Pro	Introduction Scenario Tool SWOT NDC Targets & Monitoring Analytics		
Land Use & Land Cover			
Land Surface Temperature	SWOT Analysis		
🖨 Green Transport	Select Category Alternative Fuel (e.g., biofuel or biodiesel) (SWOT Analysis)		
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🕞 RDAS	Strengths     Weaknesses     Locally manufactured environmentally     Locally manufactured environmentally		Threats <ul> <li>Regulatory Framework Awareness &amp;</li> </ul>
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Future targets/Indicators for NDCs

# Early Warning/Climate Information Application for Tripple Dividends



### **RISK MANAGEMENT**

Reducing casualties and immediate financial burdens from extreme weather events

### **RESOURCE MANAGEMENT AND OPTIMIZATION**

Resources are efficiently used while informed decisions are undertaken for development planning

### ENHANCED RESILIENCE

Disaster risks are strategically and tactically reduced, while economic benefits are stimulated



## RIMES MASTER PLAN 2026 - 2030: LEVERAGING RIMES TRIPPLE M EARLY WARNING CENTER FOR TRIPPLE DIVIDENDS











### **Economies of** Scale



Advanced Technologies





Regional Resilience Data and Analytics Service



national, provincial, and district levels and connected to DSSs, to readily support various DSSs analysis

Regional tools ready for national/sub-national customization

DSSS

AGRICULTURE

LIVESTOCK

DISASTER RISK MANAGEMENT



National/Sub-national in-situ datasets assimmilated in RDAS for cutomizing tools





Sustained **Backup Support** 



Common but Differentiated Services



Connectivity of the Climate/EW **Information Value** Chain





PLANNING AND DEVELOPMENT









Intergovernmental Mandate and Ownership

Global/regional data downscaled to national, provincial, and district levels and connected to DSSs, to readily support various DSSs analysis



Regional tools ready for national/sub-national customization



Cutomized tools provide novation perspectives for

National/Sub-national in-situ datasets assimmilated in RDAS for cutomizing tools



AGRICULTURE



1

LIVESTOCK

PILLAR 1

Enhancing Data Availability and Accessibility







# INSTITUTIONS

## SOCIETIES