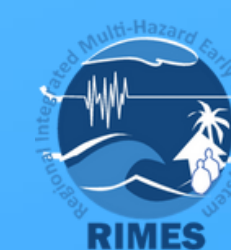




# **CARE COMPONENT 1: CONTRIBUTIONS TO RIMES TRIPPLE M EARLY WARNING SYSTEM**



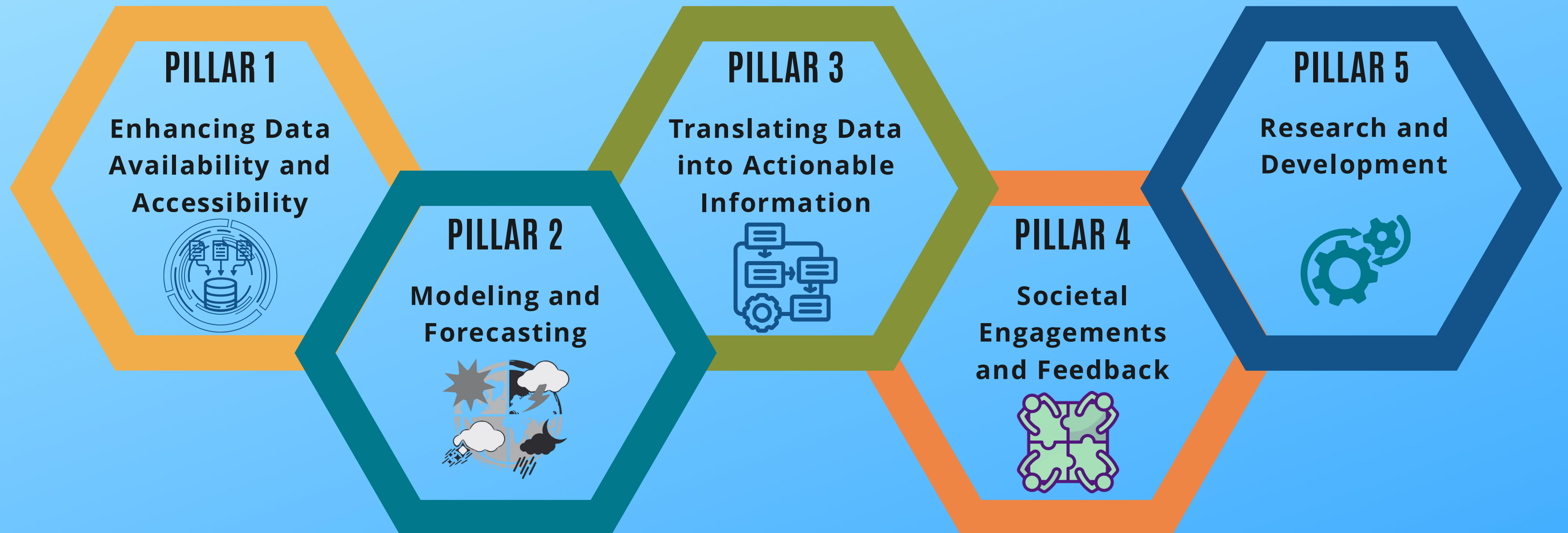
**RUBY ROSE POLICARPIO**  
**LEAD, Societal Applications**  
**and Director, CARE Component 1, RIMES**



**4th MINISTERIAL  
CONFERENCE**



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



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





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

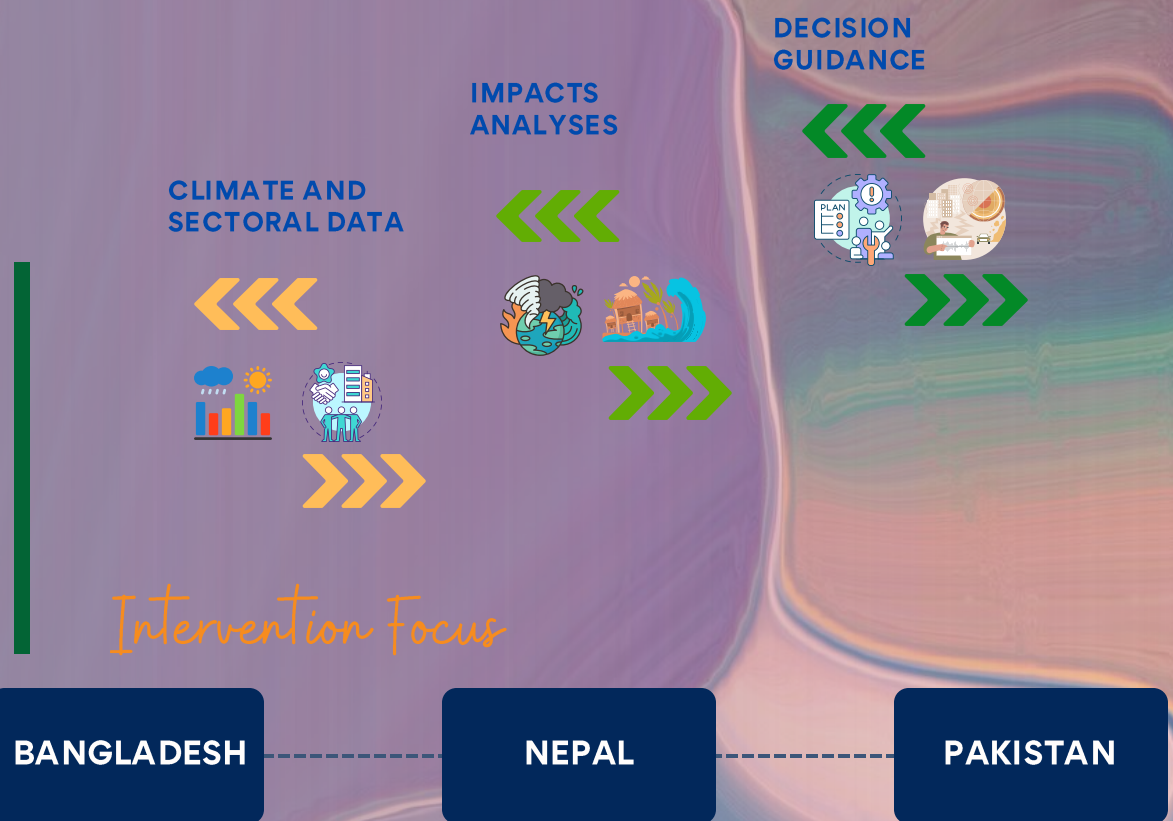


Regional tools ready for national/sub-national customization

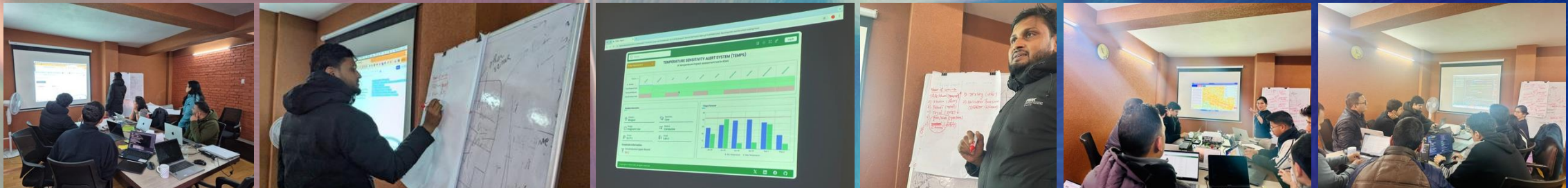
Customized tools provide innovation perspectives for regional tools

National/Sub-national in-situ datasets assimilated in RDAS for customizing tools

DSSs



co-development process pursued with stakeholder institutions







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.

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

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



## 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**



## PREDICTIVE TOOLS

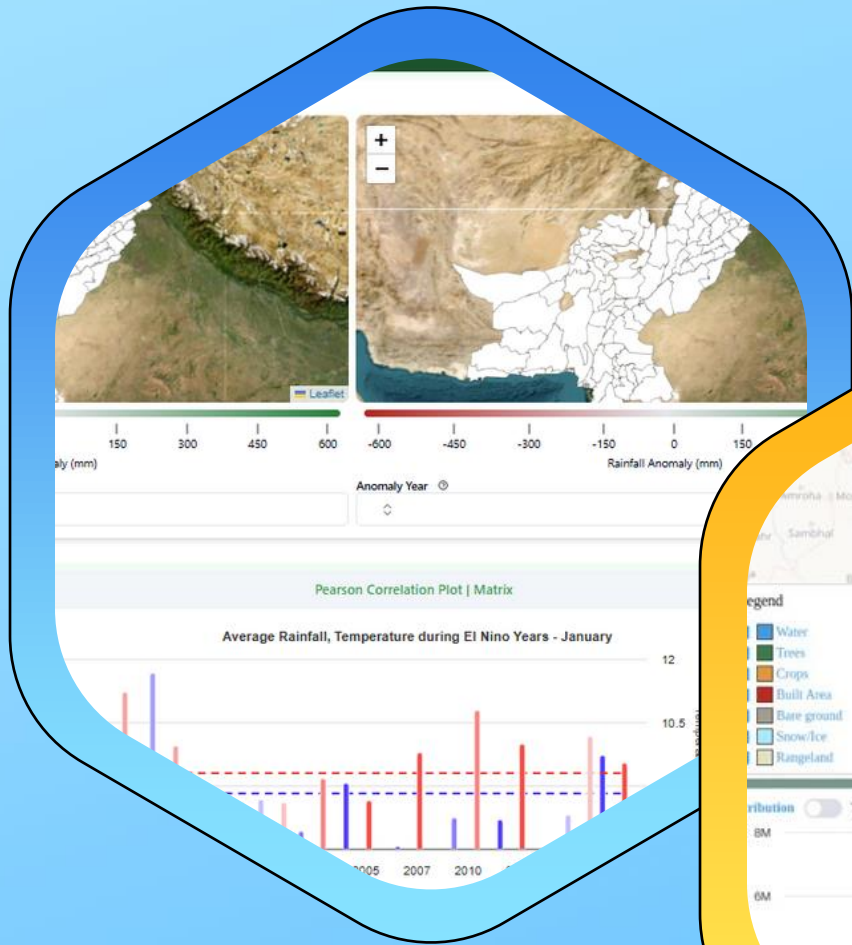
Predictive climate impacts tools

- **3 predictive tools developed and operational**

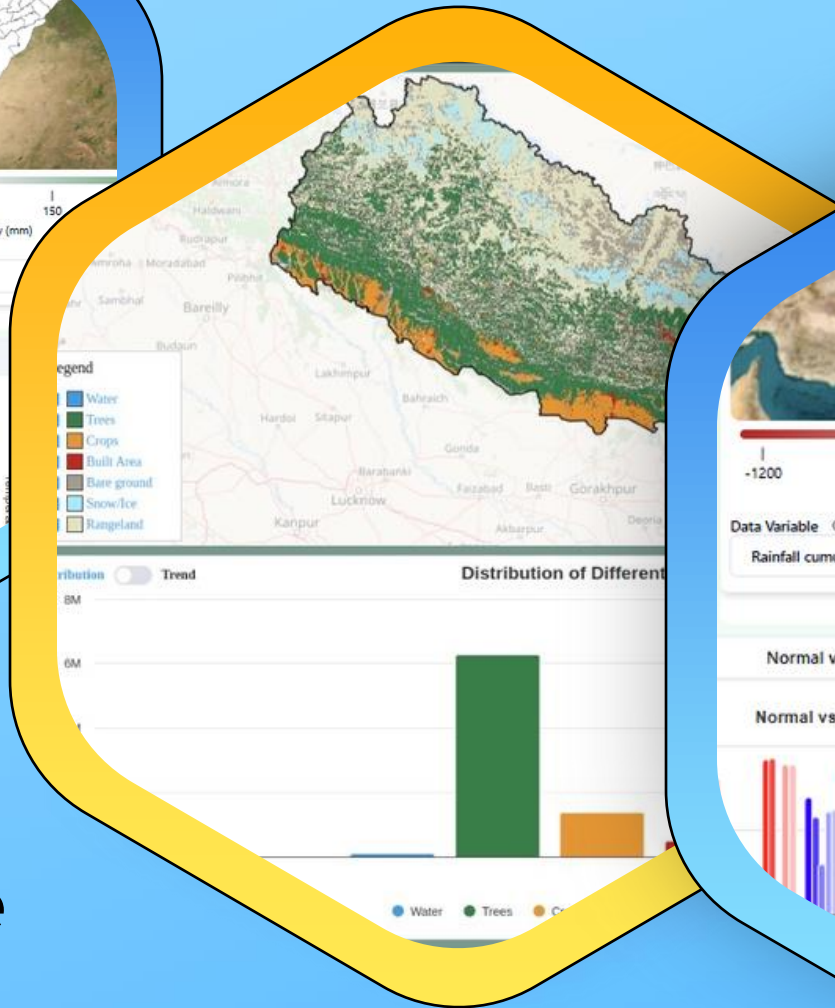




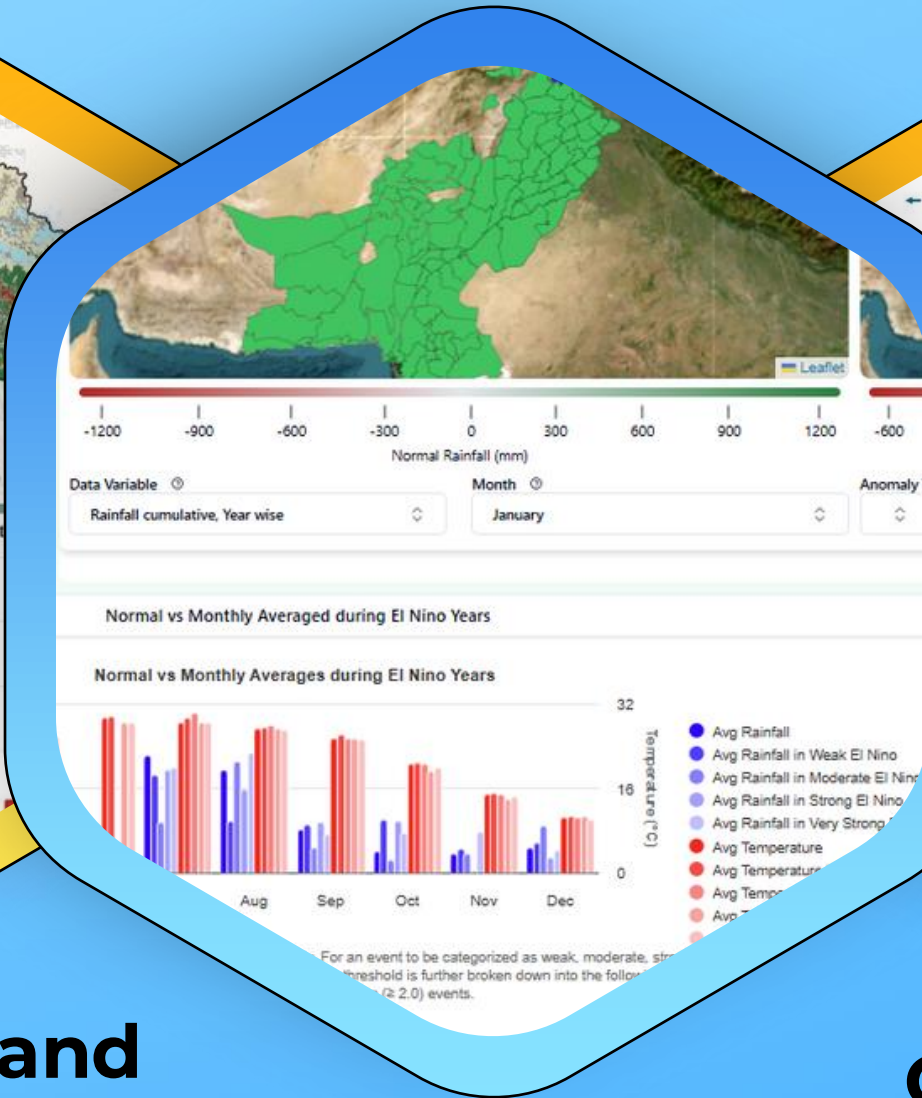
# Analytics Tools in RDAS



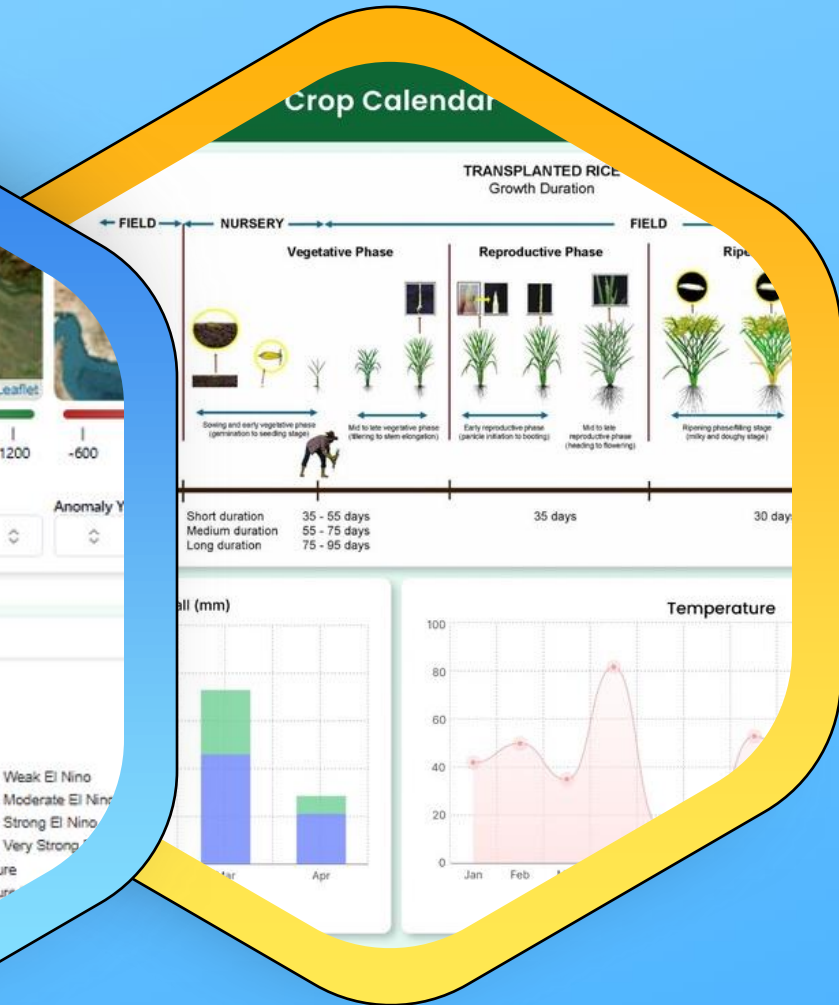
**La Nina and Local Climate**



**Land Use and Land Cover Change**

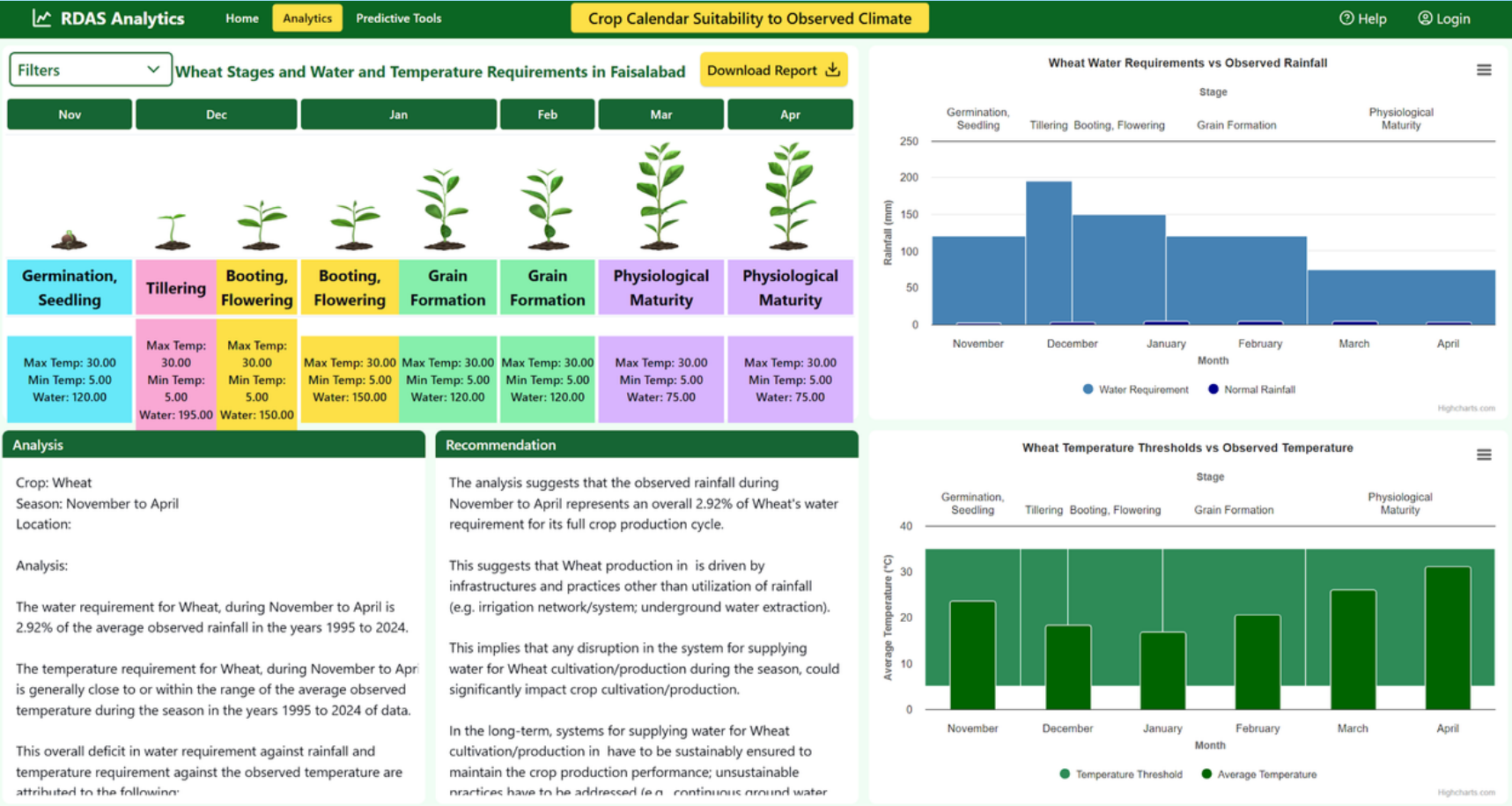


**El Nino and Local Climate**

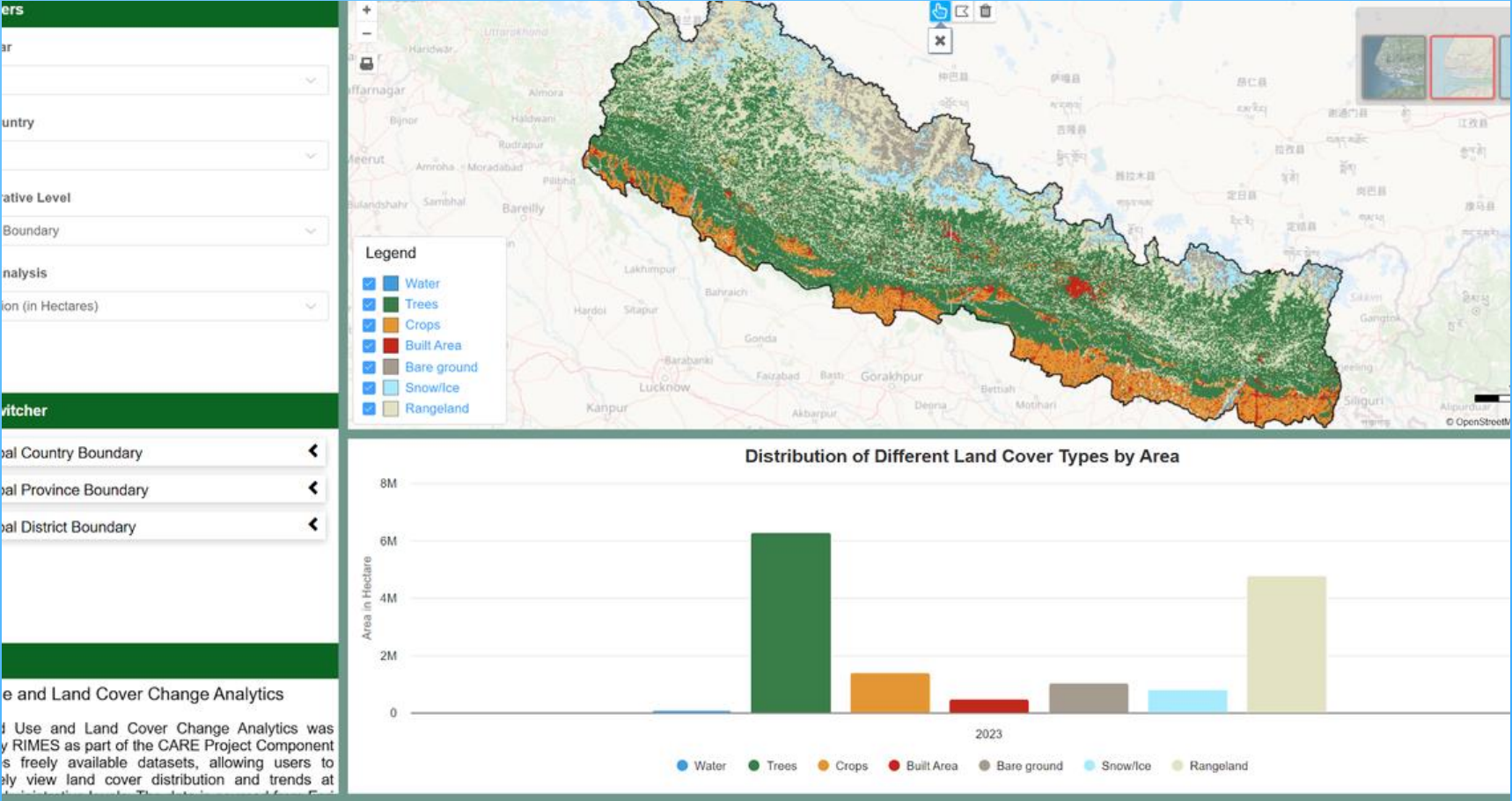
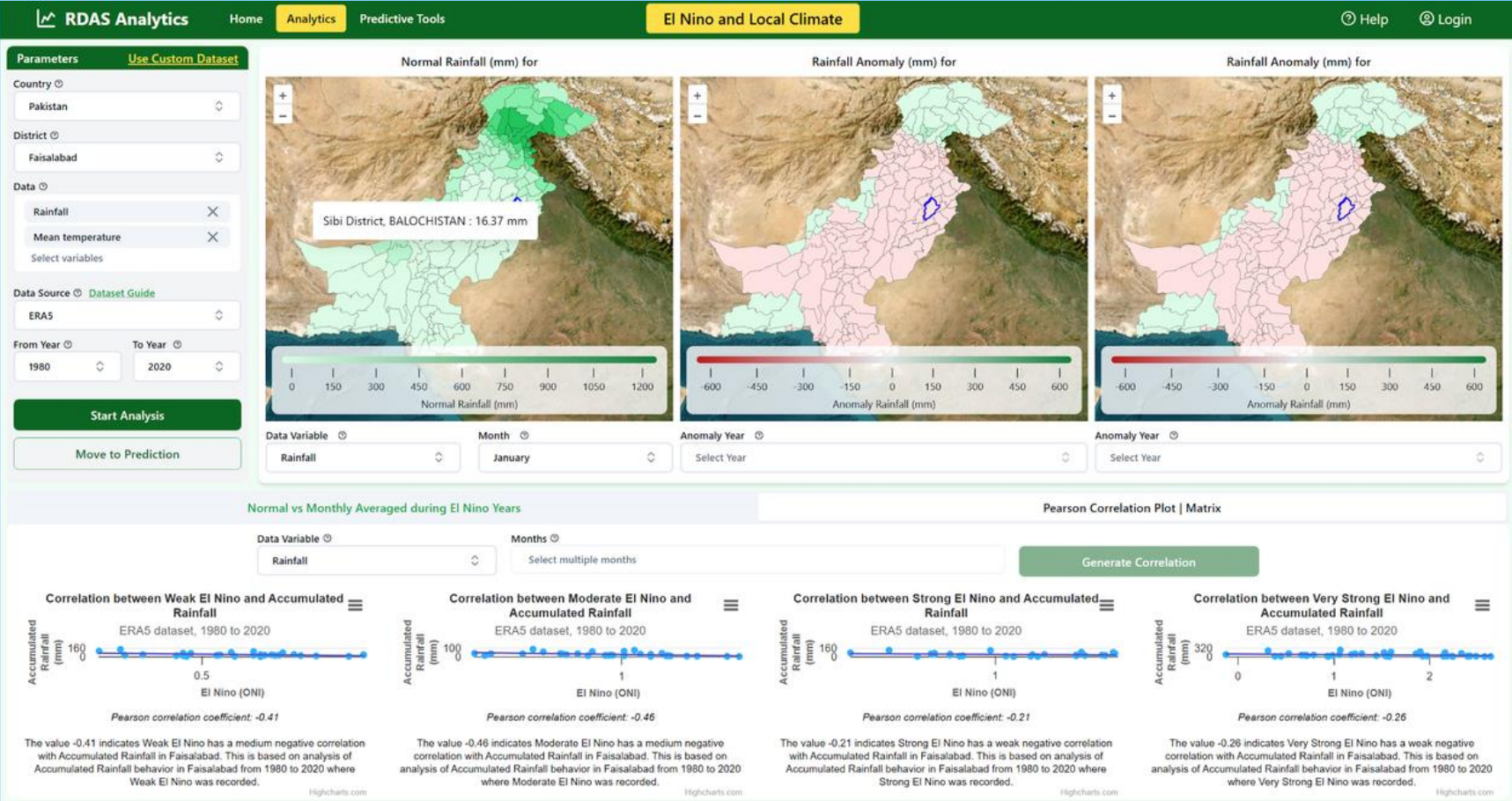
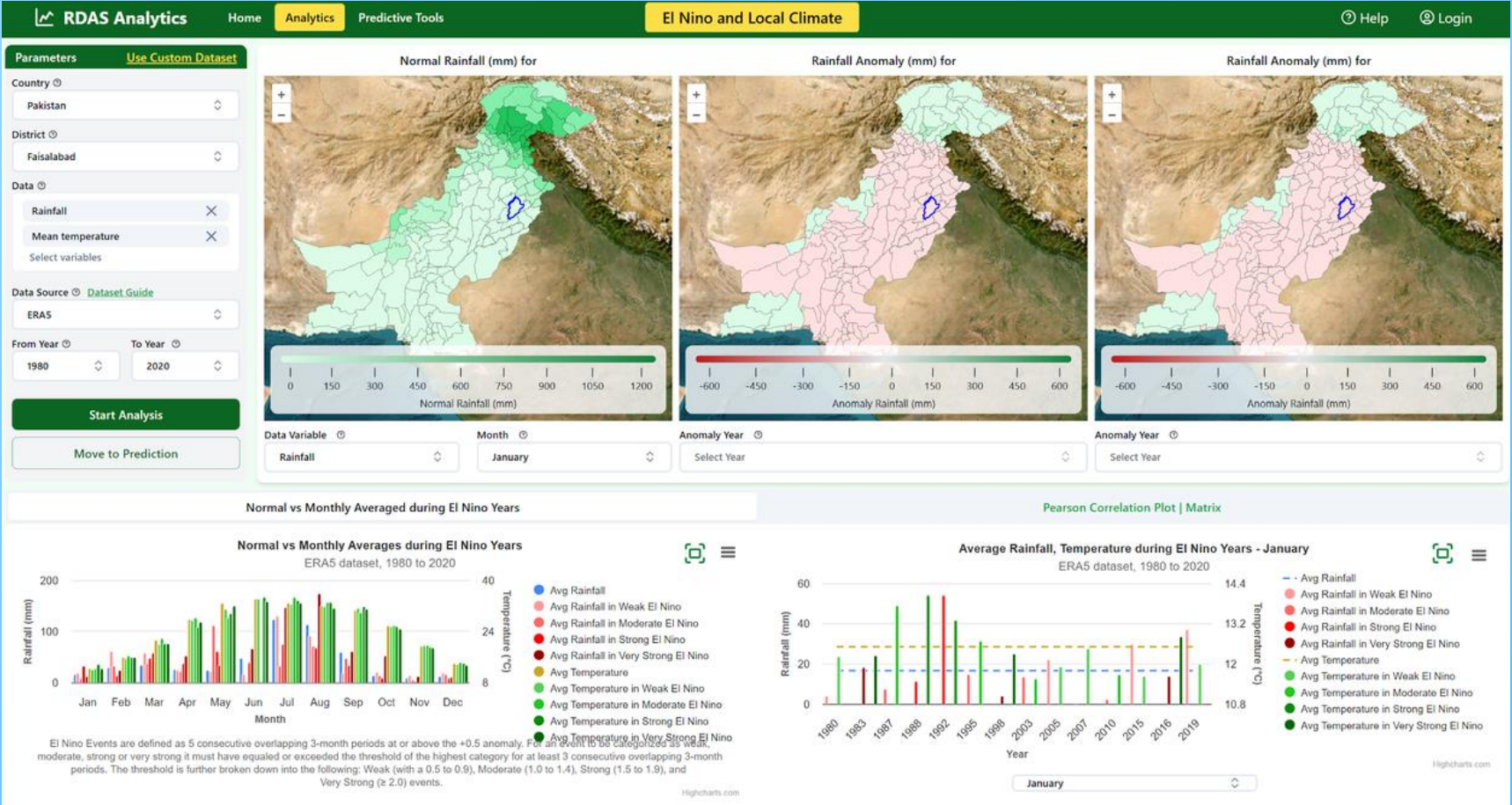


**Cropping Calendar and Local Climate**





RDAS Analytics Tools





# Predictive Tools in RDAS

?



La Nina and Local Climate

El Nino and Local Climate

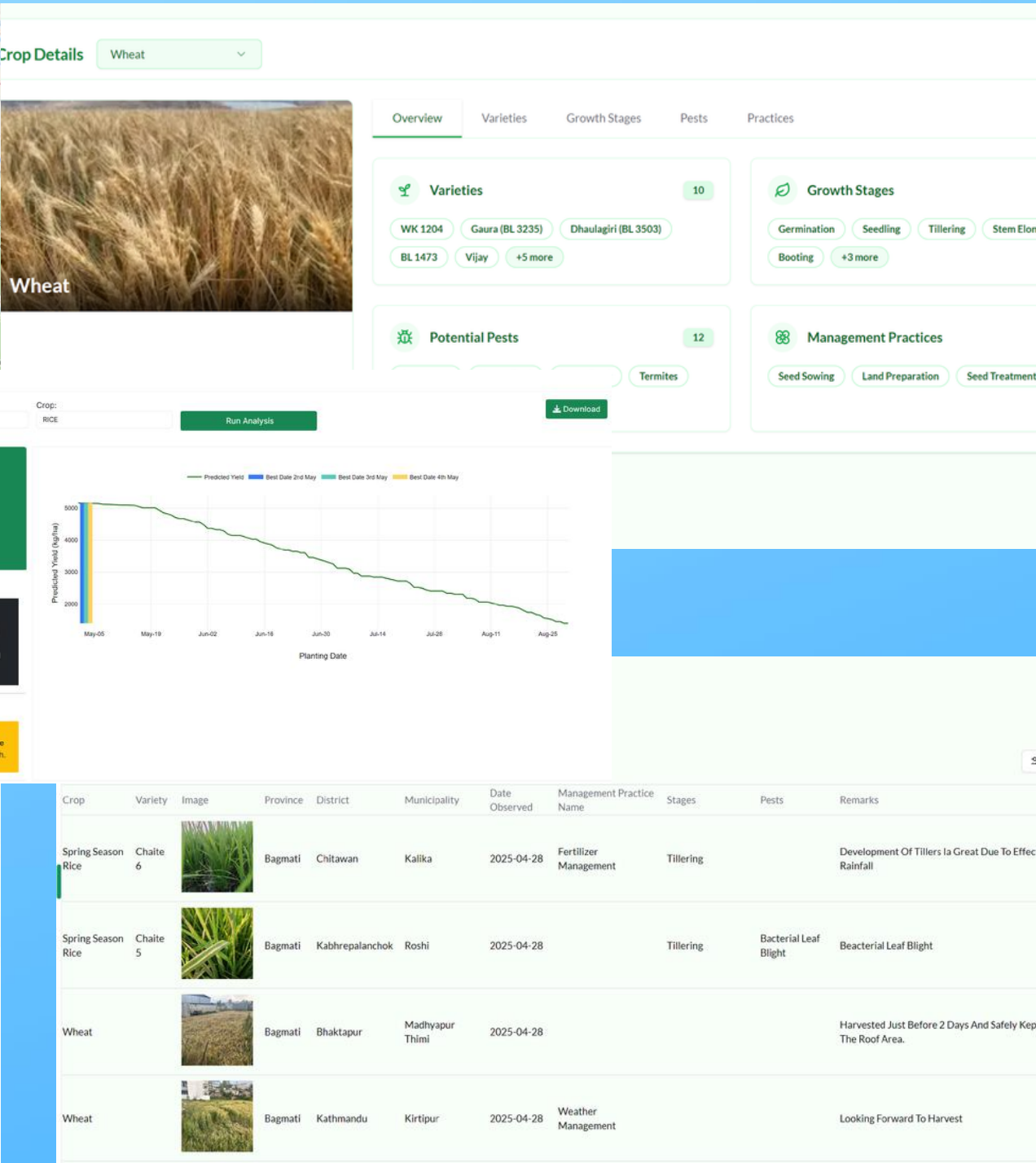
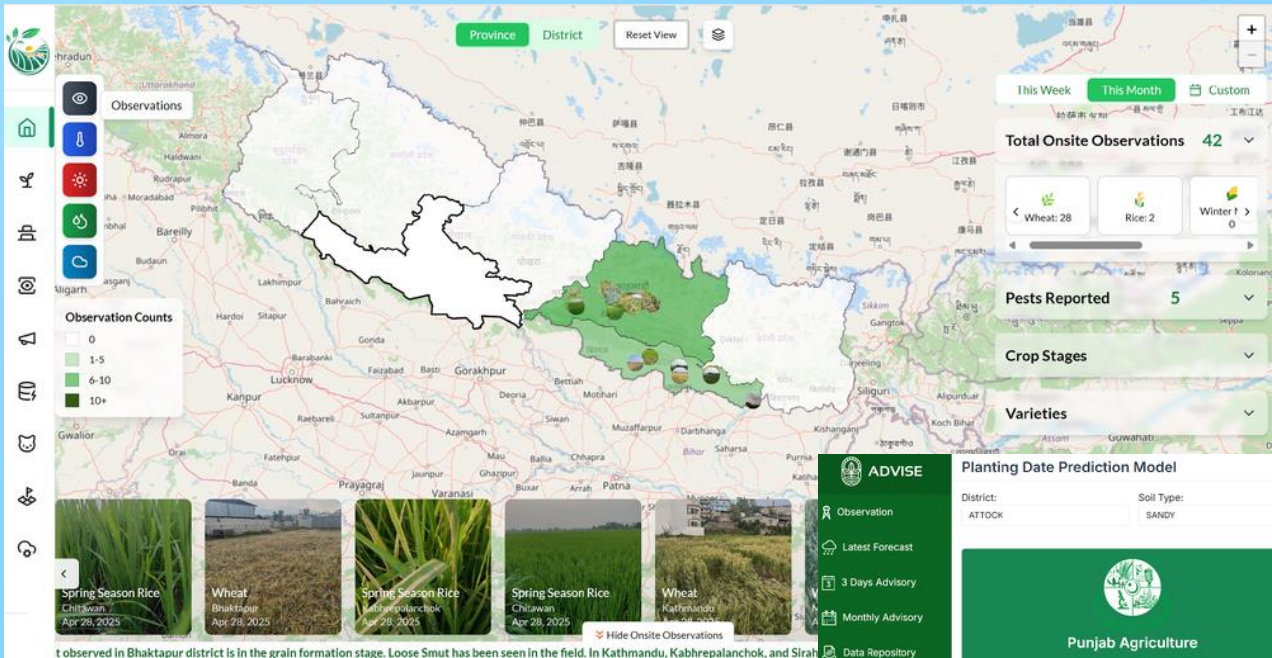
Temperature Sensitivity Alerting System







# 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

### Summary of crop condition

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

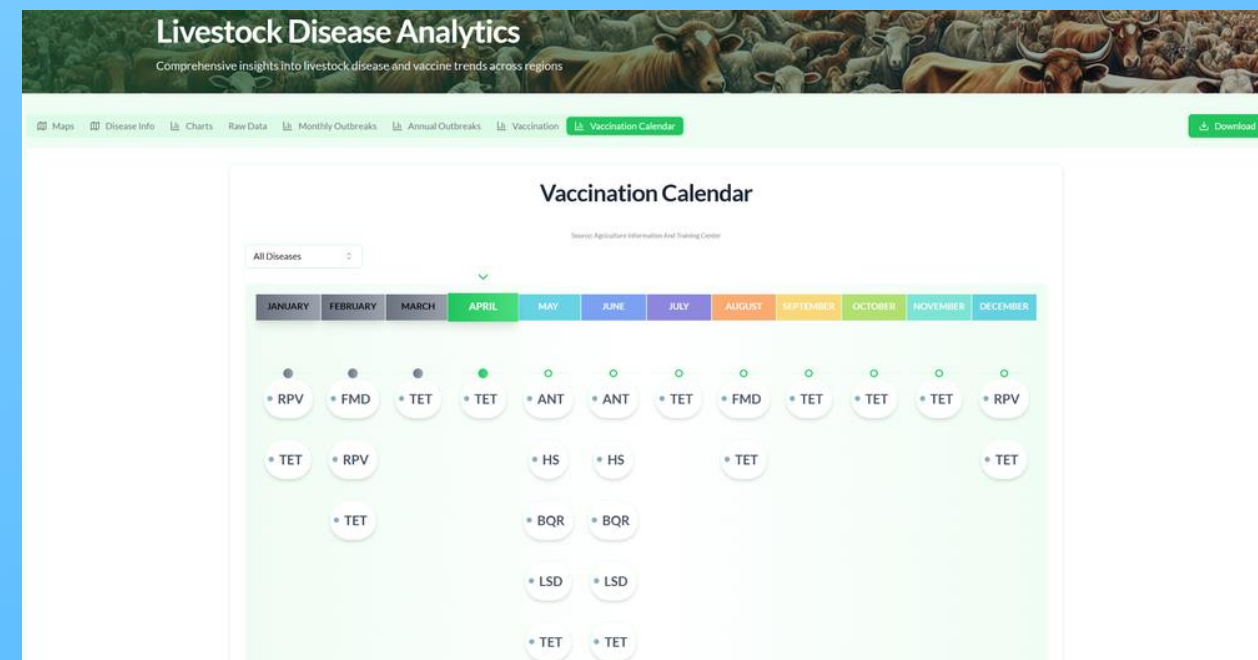
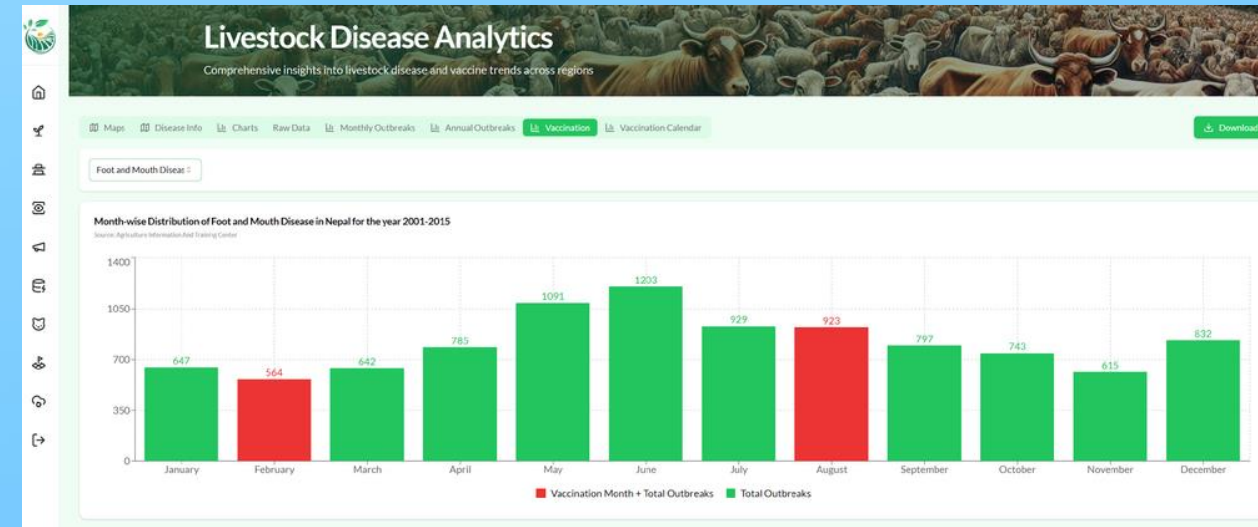
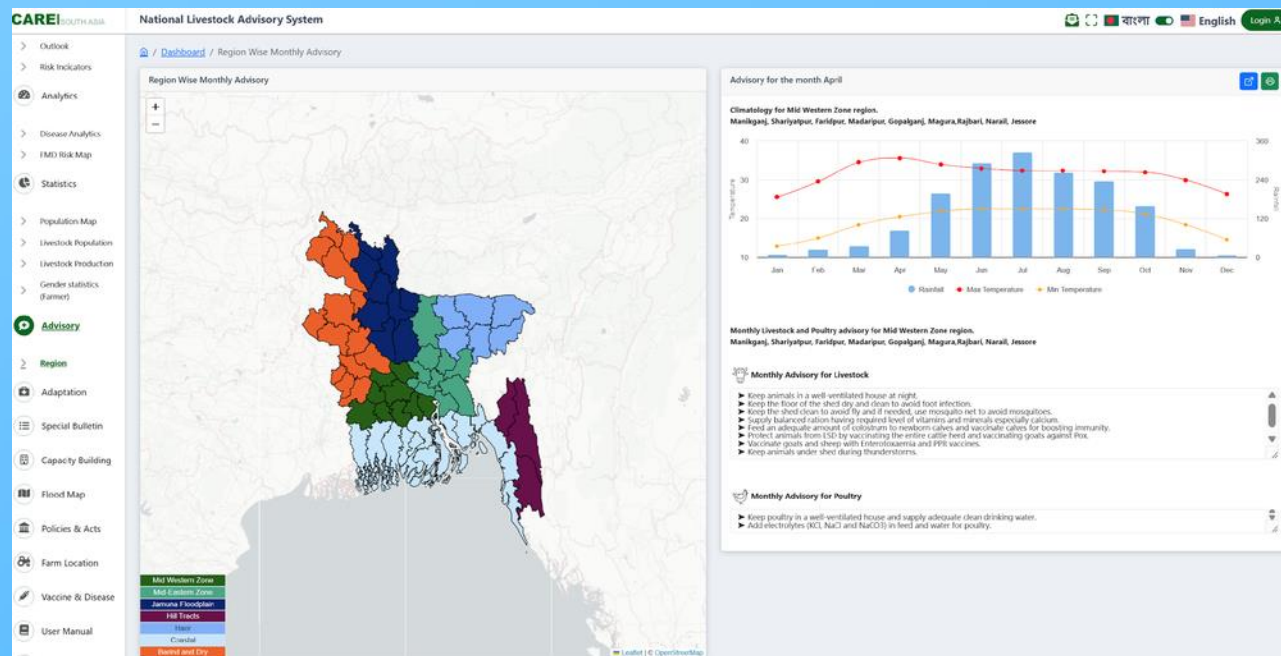
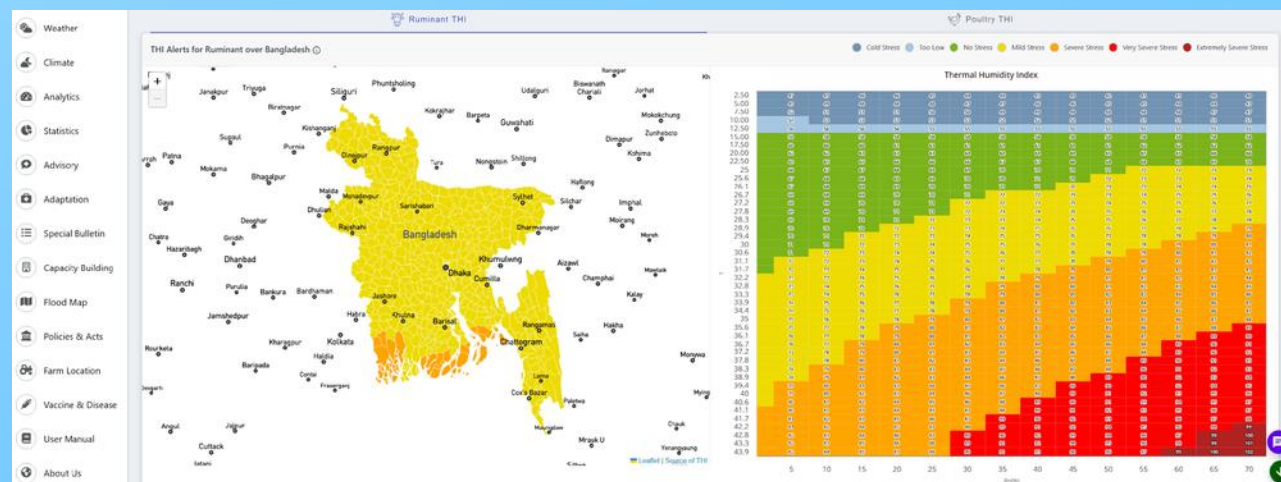
Water is critical at this stage of Tomato growth to maximize Germination. The expected rainfall in the next three days is 4.84mm. However, the crop requires 25-35mm of irrigation water at this stage in Quetta. There is sufficient soil moisture at this stage, so irrigation is not needed.

#### 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.

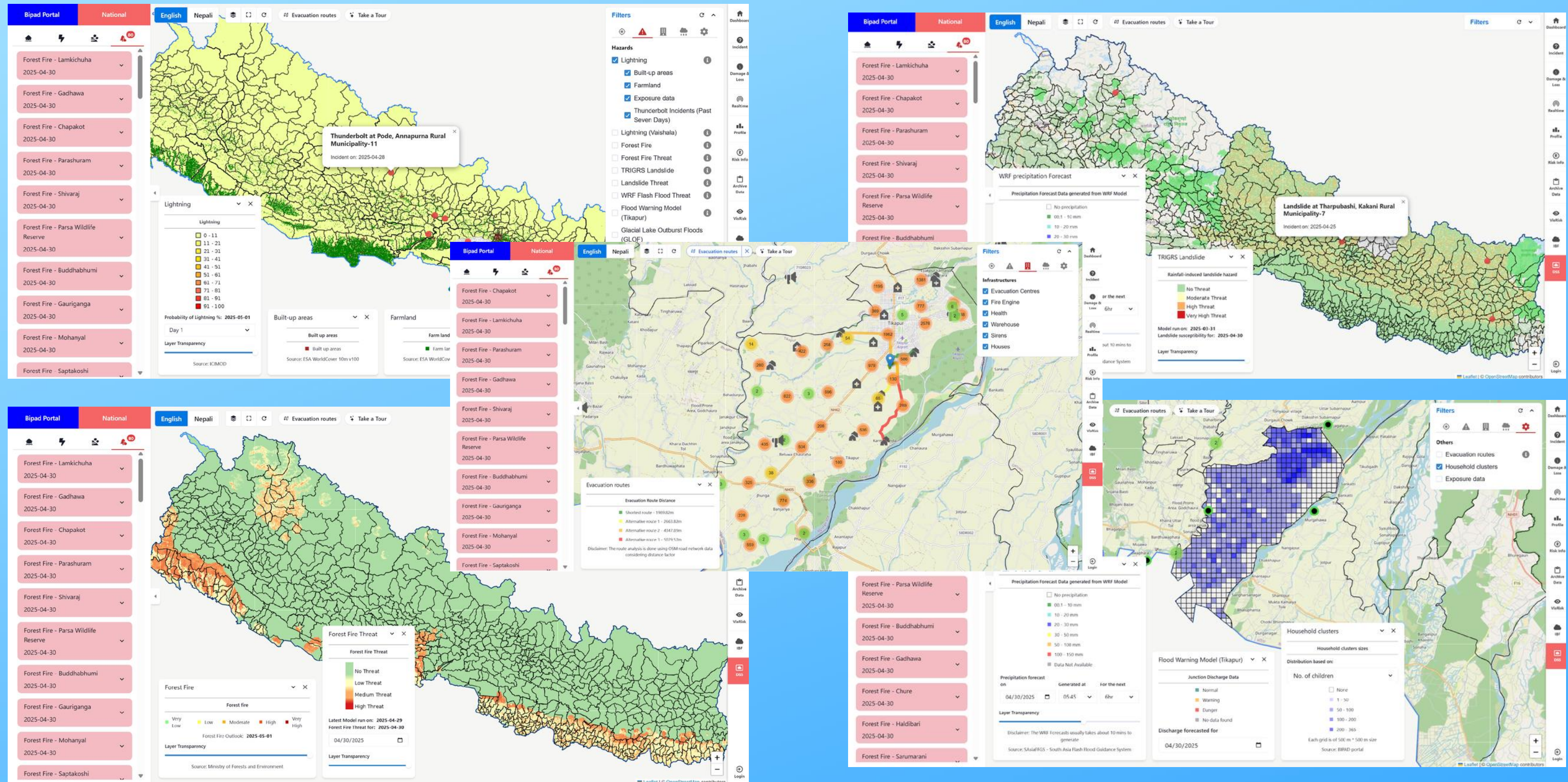


# NLAS/TEMPS



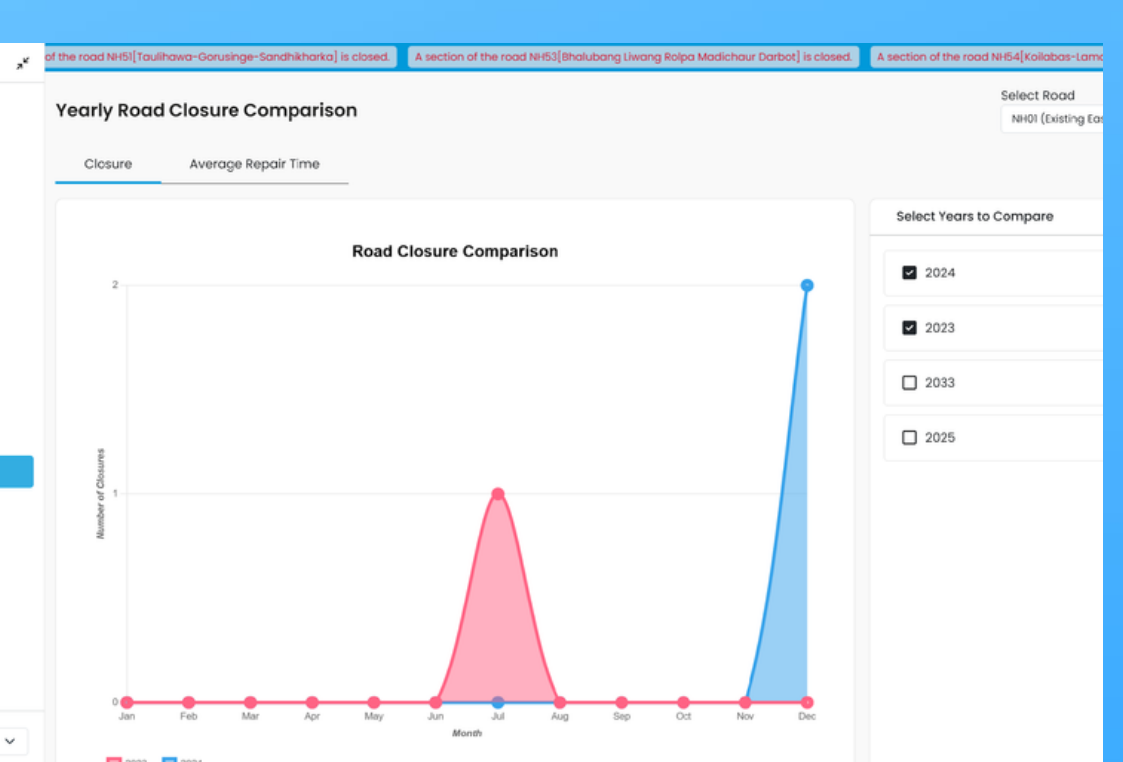
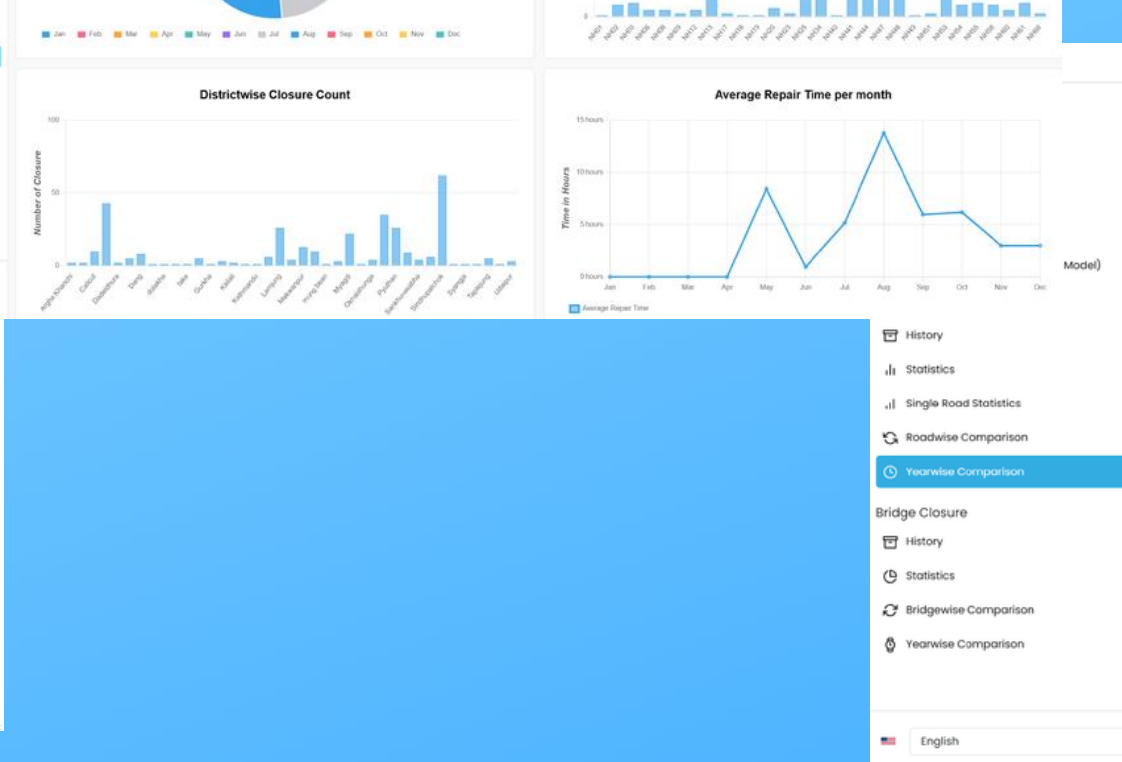
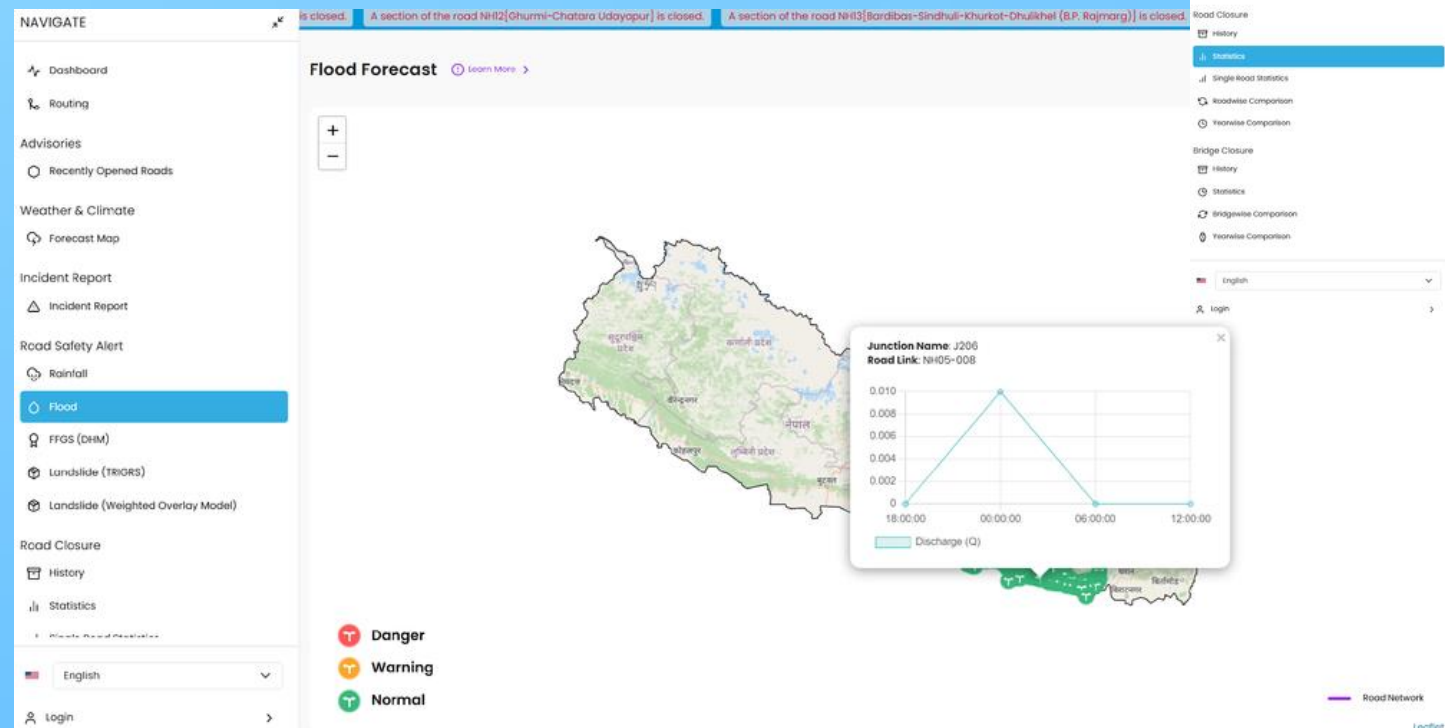
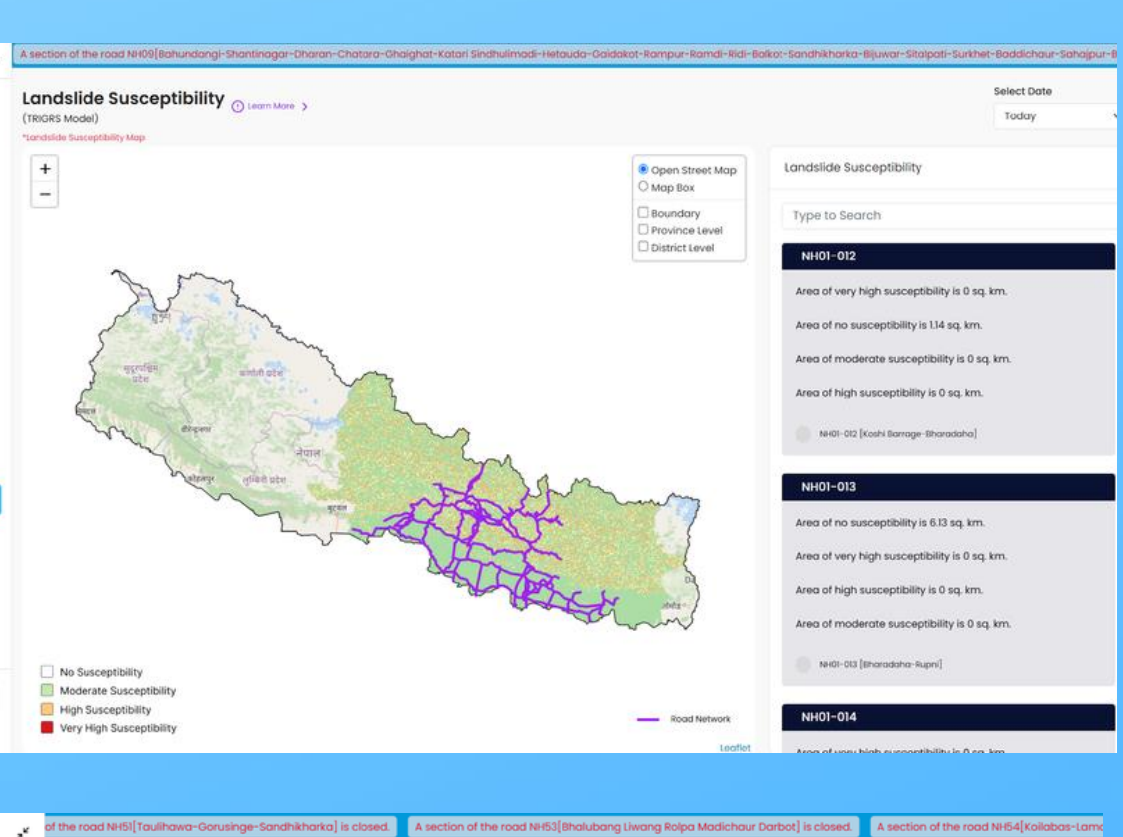
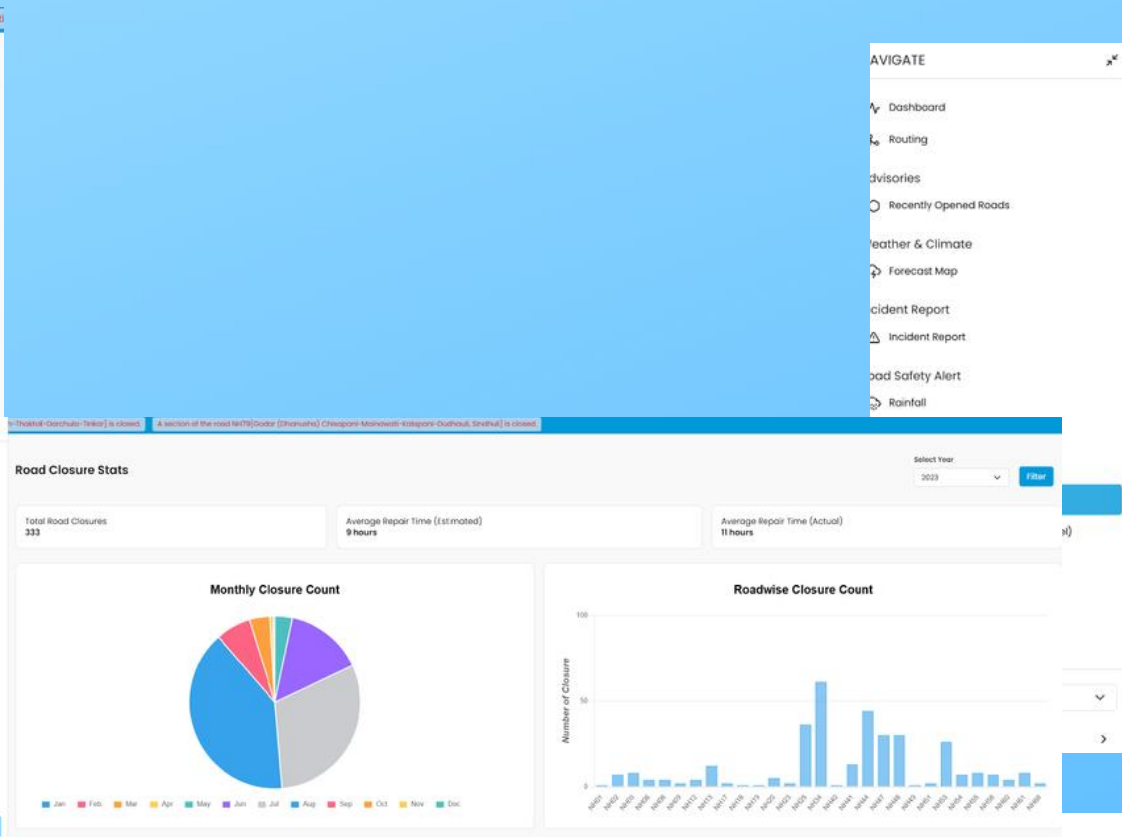
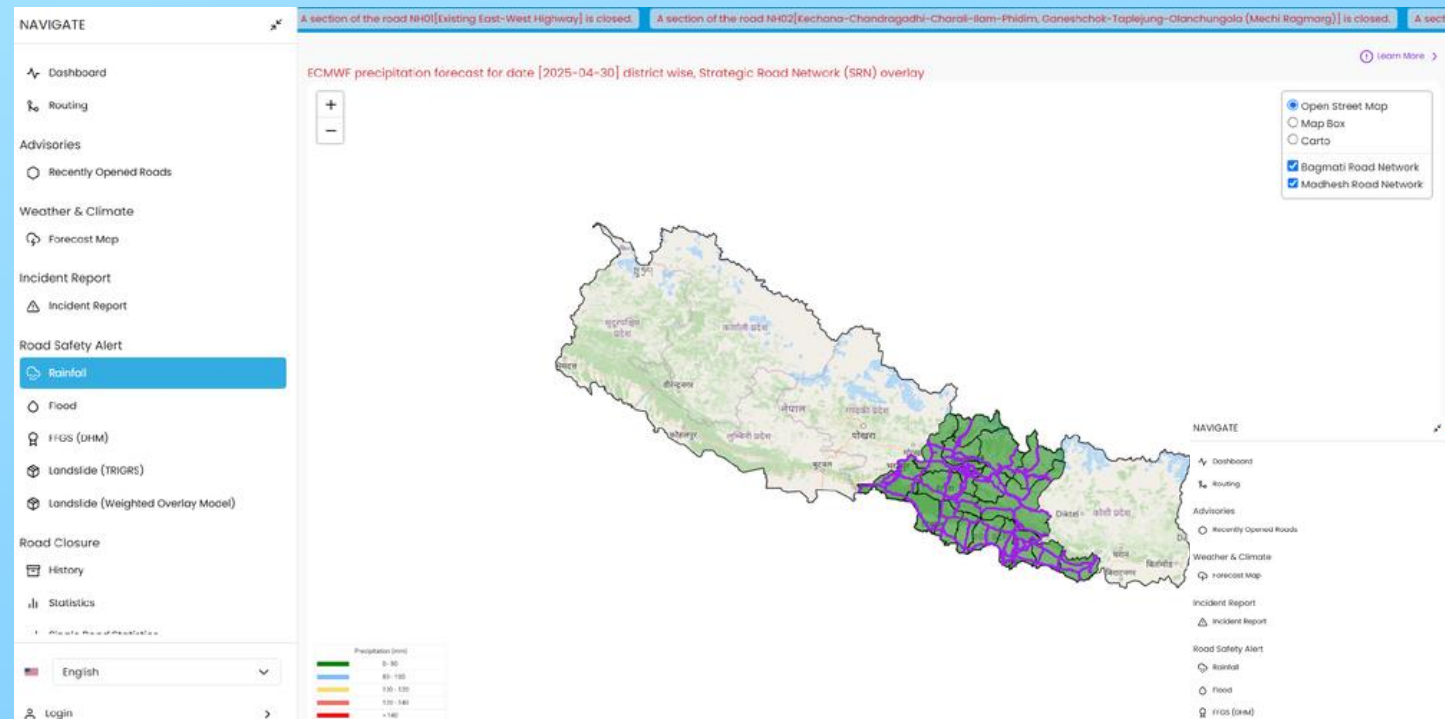


# SATARK



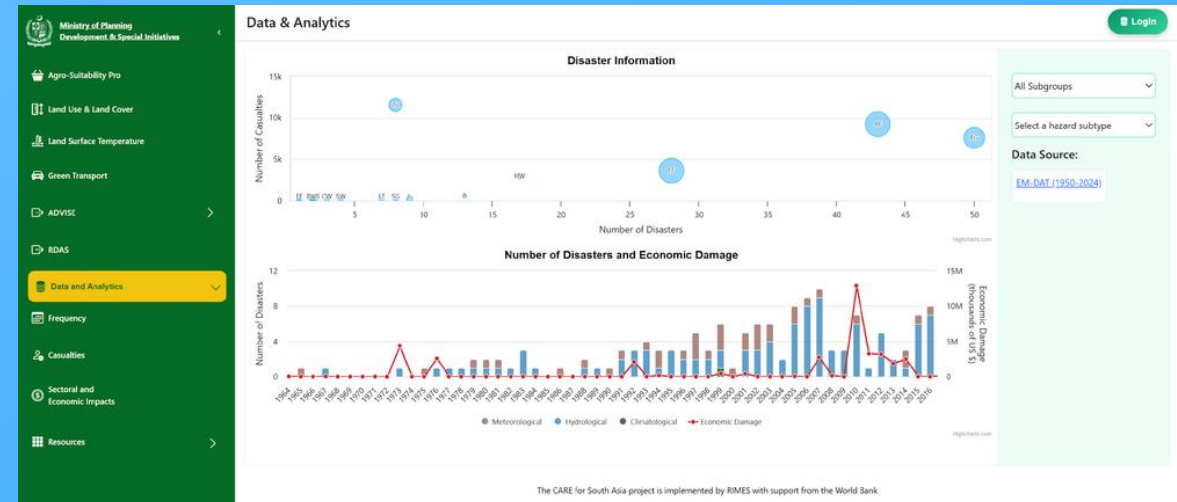
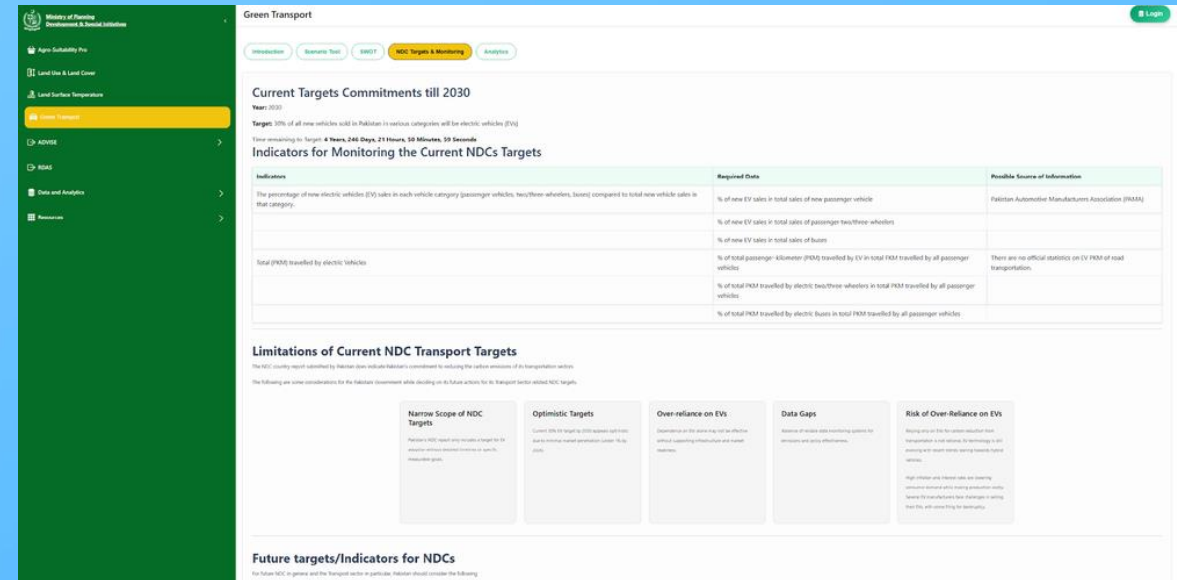
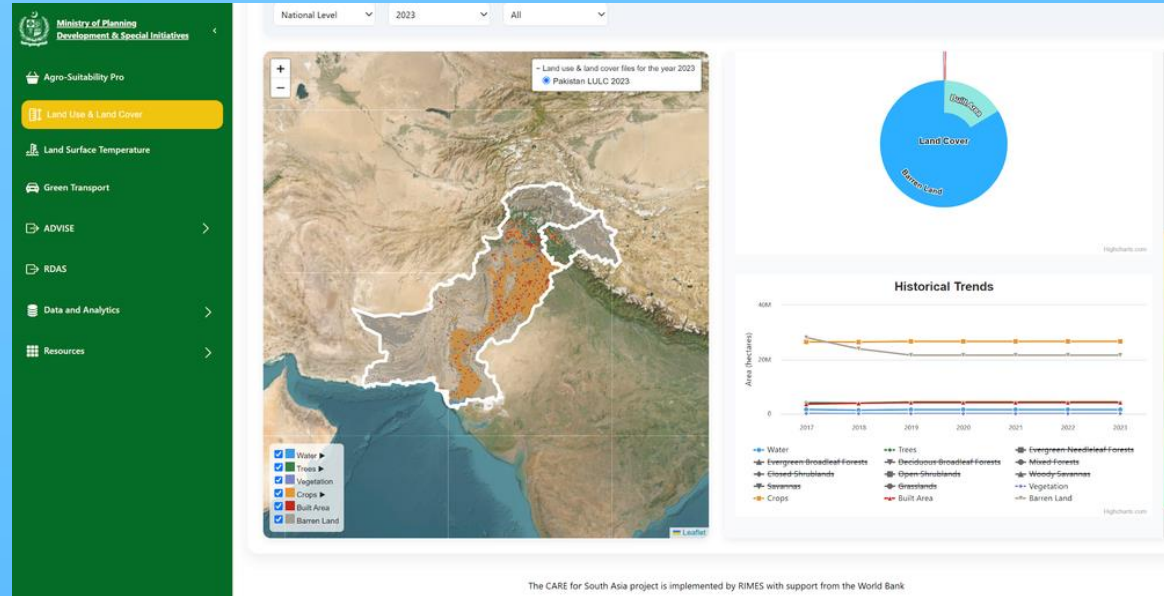
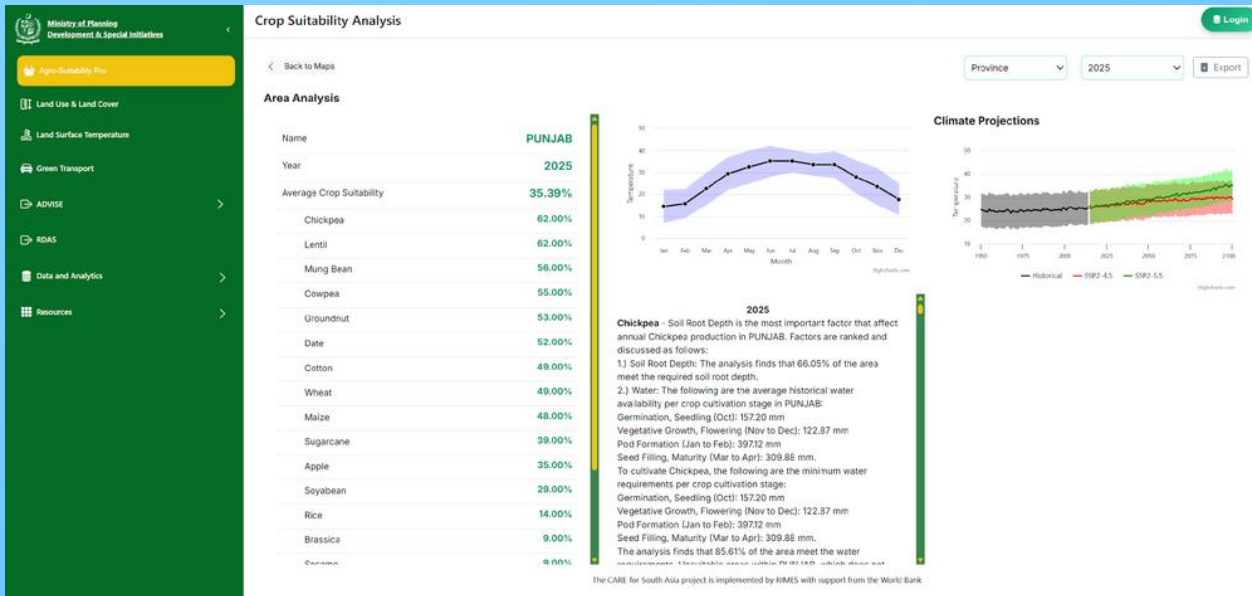
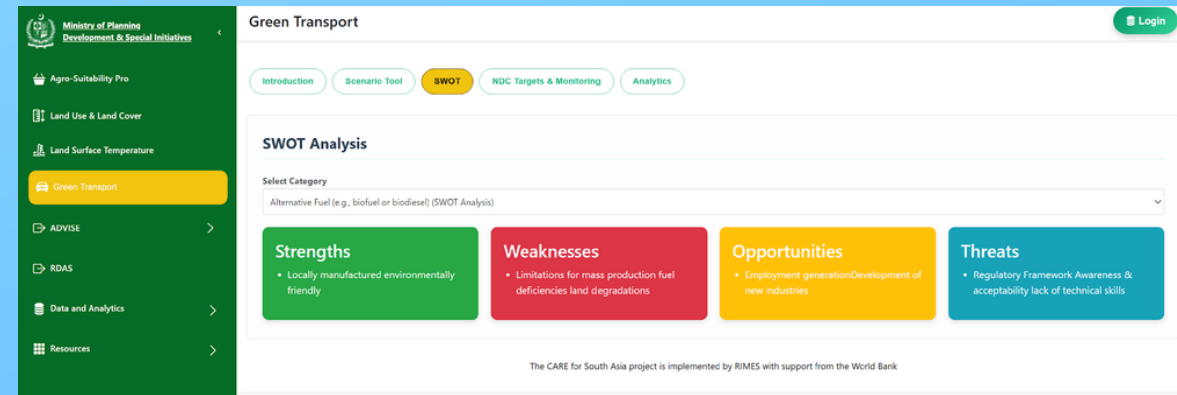
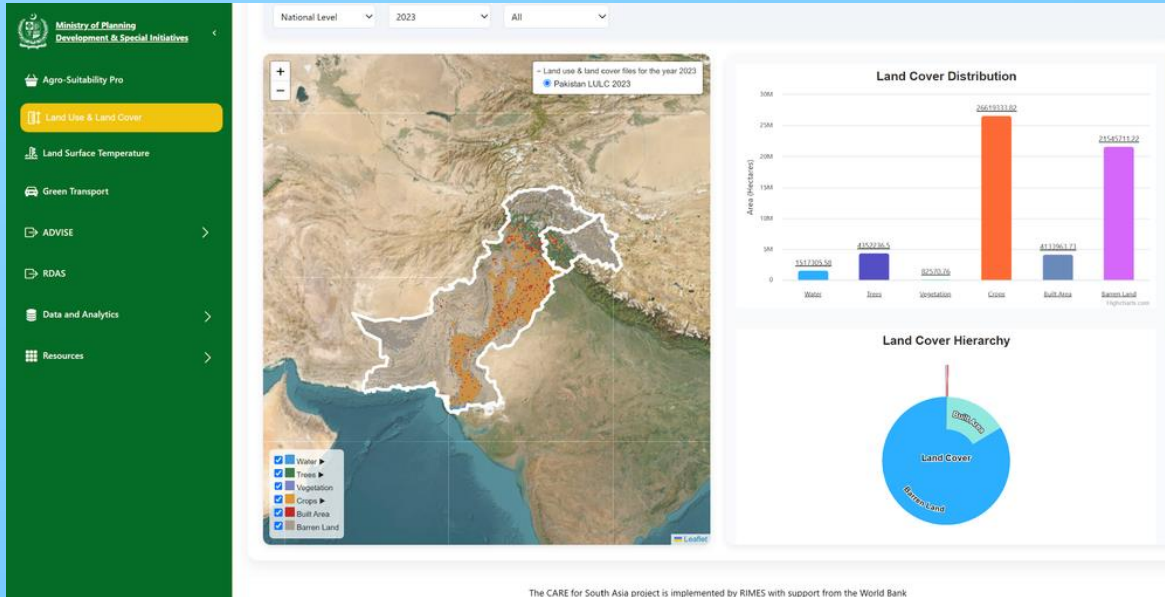
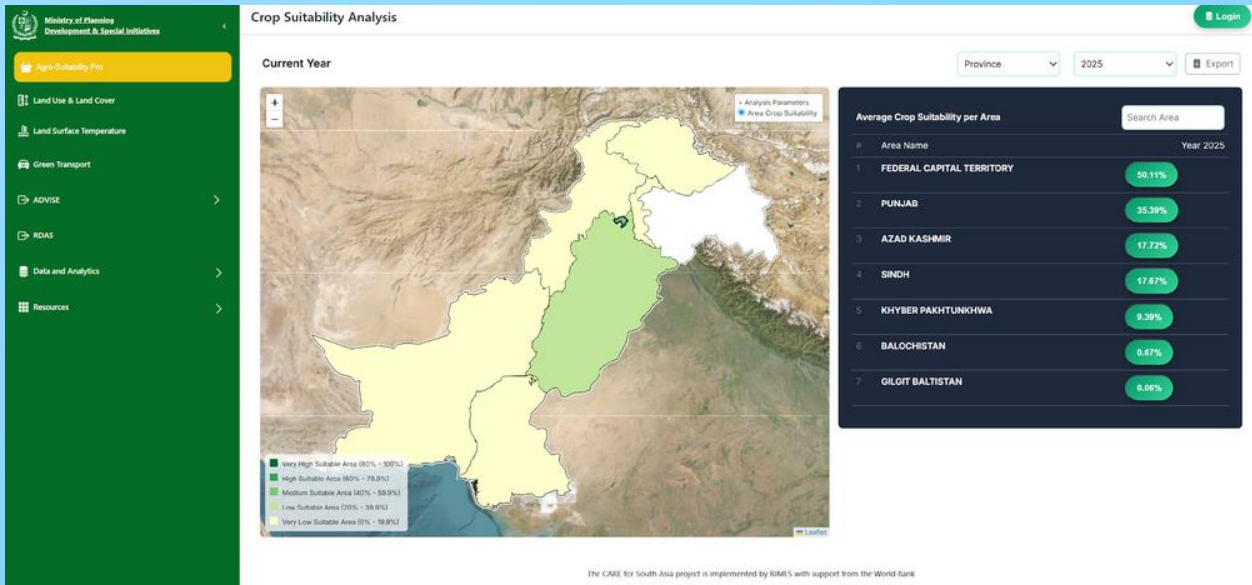


# NAVIGATE



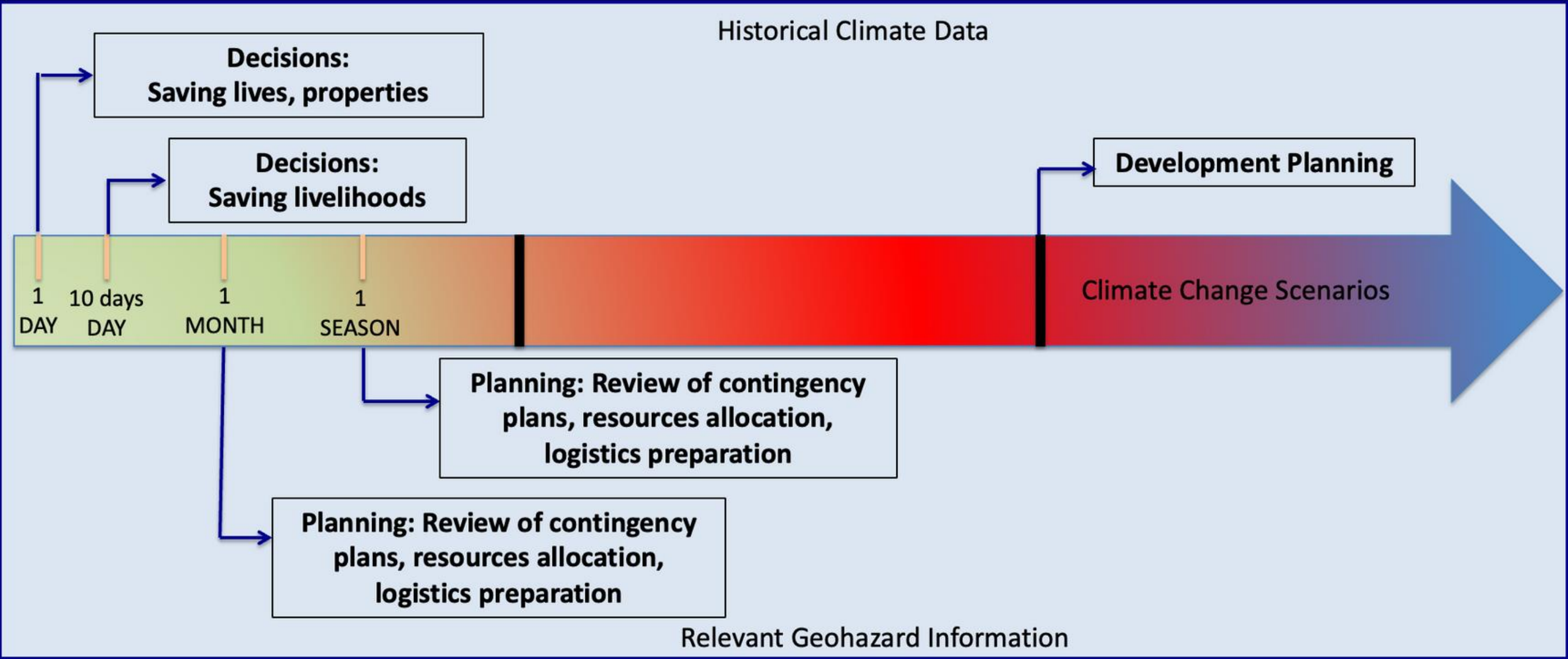


# CLIM-PLANNED





# 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***



**4th MINISTERIAL  
CONFERENCE**





**Economies of Scale**



**Advanced Technologies**



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



**Common but Differentiated Services**



**Sustained Backup Support**



**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*



*Customized tools provide innovation perspectives for regional tools*

*National/Sub-national in-situ datasets assimilated in RDAS for customizing tools*

**DSSs**



AGRICULTURE



DISASTER RISK MANAGEMENT



LIVESTOCK



PLANNING AND DEVELOPMENT



TRANSPORT



WATER





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



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AGRICULTURE



DISASTER RISK MANAGEMENT



LIVESTOCK



PLANNING AND DEVELOPMENT



TRANSPORT



WATER



PILLAR 1

Enhancing Data Availability and Accessibility



PILLAR 2  
Modeling and Forecasting



PILLAR 3

Translating Data into Actionable Information



PILLAR 4  
Societal Engagements and Feedback



PILLAR 5

Research and Development







**SCIENCE**



**INSTITUTIONS**



**SOCIETIES**