



Water Innovations for Climate Resilience

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Water, Climate Change and Resilience

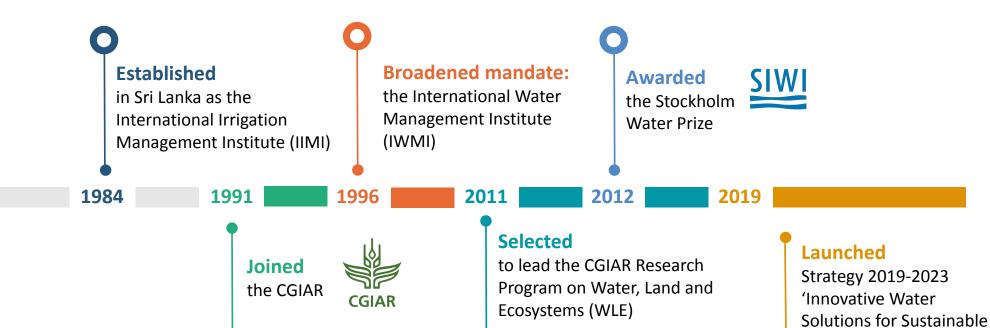
Innovative water solutions for sustainable development Food · Climate · Growth



IWMI Offices



History of IWMI







Development'

Our Research Centers



International Food Policy Research Institute (IFPRI)



Center for International Forestry Research (CIFOR)



International Center for Agricultural Research in the Dry Areas (ICARDA)



International Livestock Research Institute (ILRI)

Management Institute (IWMI)



International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)





The Alliance of Bioversity
International and the
International Center for
Tropical Agriculture (CIAT)



WorldFish

Africa Rice Center



International Institute of Tropical Agriculture (IITA)



INTERNATIONA POTATO CENTE

International Water

Management Institute

International Water

International Potato Center (CIP)



International Rice Research Institute (IRRI)



World Agroforestry (ICRAF)



International Maize and Wheat Improvement Center (CIMMYT)



Water, Climate Change and Resilience

The goal is to equip people and societies with the means to make the adjustments across systems, sectors, and scales that are needed to withstand, recover from, and anticipate the impacts of climate change.

Outcome

Improved climate change adaptation and mitigation with greater resilience to natural disasters and societal disruption through increased use of water-smart solutions

Key questions



How can farmers adapt to climate change?



How can water management help make development more resilient?



What are the best ways to increase preparedness for water-related disasters and reduce risks for vulnerable communities?



How can the dangers of water as a risk multiplier for conflict and migration in fragile communities be reduced?



AWARE

The AWARE Platform helps countries overcome the challenges and respond to extreme climate events in advance to protect people before disasters strike based on early warning to early action and finance.



Early Warning

This tool allows the users to monitor past and current climate and vegetation conditions, floods and drought severity to anticipate future conditions and early actions.



Early Action

This tool summarizes the actions to be measured for different stages of disasters using the Ealy Warning module to mitigate climate through proactive management measures.



Early Finance

Provides overview and reporting of early finance opportunities based on the actions taken by institutes.



Sectorial Climate Risks

Provides overview and reporting of climate risk indicators health related issues and price fluctuation of major crops to anticipate future condition based on the data collected.



Online Bulletin

This tool helps to disseminate drought related information to guide various users for timely early action and decision-making process.



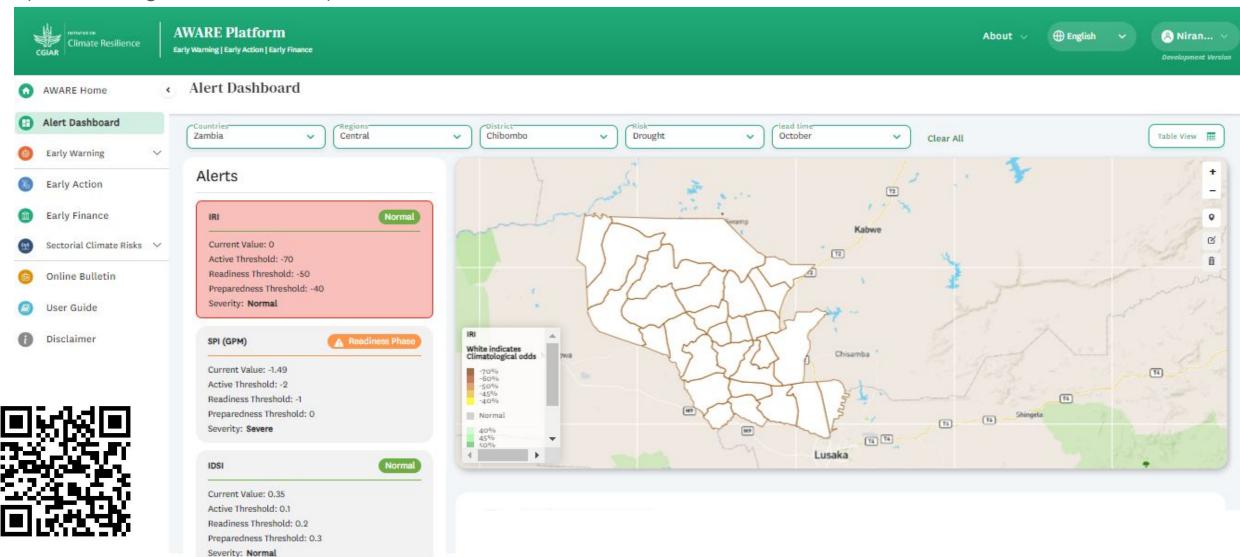
User Guide

The user guide provides the opportunity for users to step-wise procedure on the various knowledge products of AWARE for quick access and information sharing.



Alert Dashboard - Drought

The aware alert dashboard offers to monitor and display alerts or notifications related to various hazards (flood, drought and landslide).





Why Climate Smart Governance (CSG) Dashboard?



Country Overview

Welcome to the country overview summaries that provide an overview of key development indicators.

View More



Climate Outlook

This climate Outlook tool presents the projection or forecast of future climate conditions over a specified period, and it provides users with...

View More



Project Tracker

The project tracker allows users to monitor and track adaptation and mitigation projects, and the tool offers improved coordination and facilitation...

View More



Geo Intelligence Tools

This geo-intelligence tool offers various geospatial data and visualization capabilities for project preparation, monitoring and coordination among...

View More



Monitoring and Evaluation

The M&E tool enables users to monitor and evaluate projects effectively, supports timely decision-making on project performance, and...

View More



Development Indicators

The tool enables monitoring of Sustainable Development Indicators at the country and project level as well as the Sendai Framework for Disaster...

View More



Adaptation Catalog

This adaptation catalogue tool allows users to learn about experiences from countries on good adaptation practices that are implemented...

View More



Investment Portfolio Planning

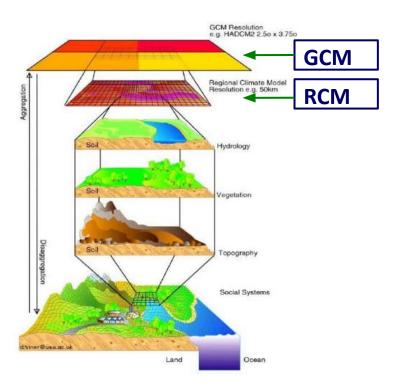
The investment portfolio planning tool assists users in strategically utilizing the CSG Dashboard knowledge products and information to prepare...

View More



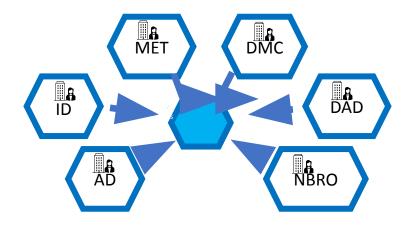
Capacity Strengthening for Climate Modelling and Early Warning of Disasters

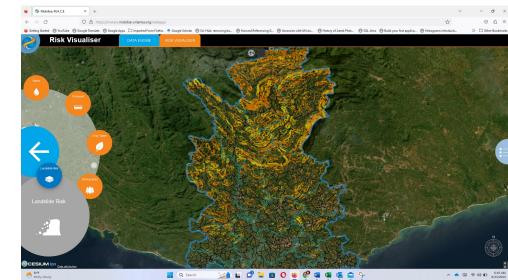
Guiding the met department in dynamical downscaling of climate scenarios



Source: Bergaoui 2022

Pilot climate information sharing and early warning platform for Matara district







IWMI Environmental Flow Tools

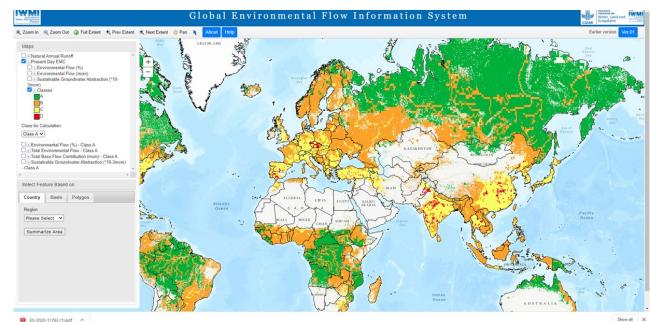
Online and offline software tools for quick desktop estimation of environmental flow (EF) requirements of rivers.



Used in estimating SDG indicator 6.4.2 for all countries!

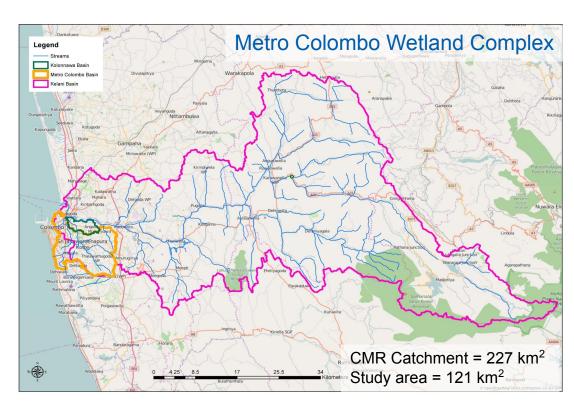






Sustainable Water Infrastructure & Ecosystems (SWIE) - Wetlands





Ongoing projects:

- 1. Increasing the Resilience of Biodiversity & Livelihoods in Colombo's Wetlands community engagement focused
- 2. Rights of Wetlands Operationalisation for Biodiversity & Community Resilience policy focused



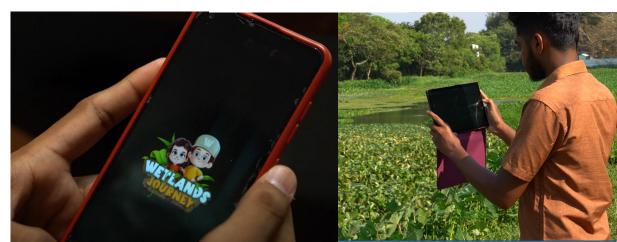


Increasing the Resilience of Biodiversity & Livelihoods in Colombo's Wetlands

Wetland Water Quality Monitoring Device: remote controlled device built with locally sourced materials to test basic parameters of water quality.

Wetland Monitoring App: Citizen Science tool to monitor various aspects of wetlands (water quality, level, birds, animals etc.) with a dashboard for anyone to obtain data.







Thank you.

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