## Promoting Climate Service and Anticipatory Action for Effective Drought Management

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Bangladesh's northwest region, experiences recurring severe droughts due to highly variable rainfall, high summer temperatures, and low soil moisture retention. These droughts occur approximately every 2.5 years, and the frequent disruptions in agricultural production threaten food security and livelihoods in the region. At present, only 2.5% of the population benefits from early drought warnings, leaving many vulnerable to its devastating impacts. The research contributes to addressing this critical gap by proposing the implementation of a comprehensive drought early warning system integrated with Bangladesh's National Adaptation Plan (NAP) 2023–2050. This plan aligns directly with Sustainable Development Goals (SDGs), particularly SDG 13 (Climate Action) and SDG 2 (Zero Hunger), by building resilient agricultural systems and enabling communities to anticipate and mitigate the impacts of droughts.



### **Result and current findings**





FGD and KII



This framework outlines the anticipatory actions( e.g. pre-financing) based on the forecast triggers (Preactivation and Activation) to minimize the potential damage of the forecasted drought condition



This model can be expanded to other drought-prone regions, offering a replicable solution for semi-arid areas worldwide and has the provision to integrate vulnerability and exposure data for impact forecasting



# More useful for informed decision making among the government stakeholders with evident loss minimization opportunity



# Important for farmers and other stakeholders to minimize crop failure with a significant lead-time (Up to 2 months ahead).

#### References

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