



# Drought Early Warning and Forecasting System: Improving resiliency of crops to drought through strengthened early warning within Ghana

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# The Challenge...

- Heavy reliance on agriculture for the national economy and for livelihoods
- Agriculture is predominantly rainfed making it extremely climate sensitive
- Situation of rising temperatures and decreases in mean annual rainfall in most of the country is expected to continue over the coming decades
- Deepening economic and livelihood vulnerability
- Increased land degradation and desertification
- Current information and early warning systems are insufficient to adequately prepare and cope with the extreme climate events

# CTCN Assistance: Headlines

- Initiated by the Water Resources Commission
- Technical assistance for planning and implementation by UNEP-DHI Partnership
- Starting now and running for 12 months
- Introduce, adjust and validate drought early warning and forecasting technologies to local conditions
- Create stronger collaboration among national and local institutions for drought management and climate resilience of crop production
- Design a roadmap to scale up deployment of technology with appropriate financing

# CTCN: Objectives and Intended Impacts

- Support farmers with timely and detailed information for them to plan and implement drought management actions to minimise drought impacts
- Enhance awareness and expertise to use spatially distributed drought issues
- Increase the accessibility of drought-related data on relevant near real-time satellite information
- Strengthen institutional coordination for disseminating and using drought early warning information
- **Impact 1:** Contribution to reduced crop losses and improved livelihood of farmers in Ghana
- **Impact 2:** Improved information provision on drought characteristics to help farmers proactively take adaptive measures
- **Impact 3:** Contribution to Sustainable Development Goals (3, 5, 6 and 13)

# CTCN: Technology Overview

System for supporting decision making by providing actionable information



- Based on freely available near real-time data
- To be adaptable to national and sub-national needs
- To cover different temporal scales (short to long planning horizons)
- To support existing planning methods

# CTCN Assistance: Planned Activities

- **Activity 1:** *National and regional consultation*
- **Activity 2:** *Technology specification:*
- **Activity 3:** *Technology established for local conditions*
- **Activity 4:** *Validation of the technology within an assigned area in Ghana*
- **Activity 5:** *Awareness and knowledge of the use and benefits of the technology*
- **Activity 6:** *Technical training of selected staff within key organizations*
- **Activity 7:** *Dissemination of results and recommendations for scaling up*
- **[Activity 8:** *Upscaling and linkage to national implementation]*





**Thank you!**

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