

Decision Support Systems and Agro-meteorological Forecasting for Farmers: Experience in Myanmar



Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES)

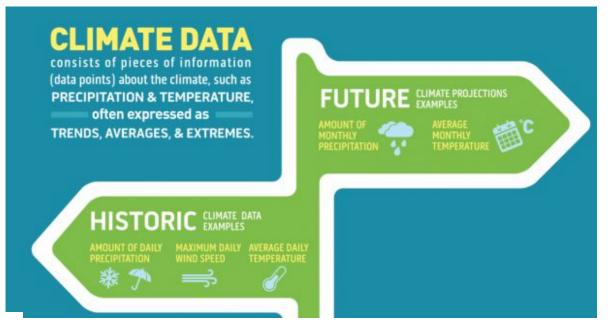
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The Challenge







TRANSLATION: Making weather and climate data more understandable



COLLABORATION: Ensuring weather and climate data meets the needs of users



GUIDANCE: Guiding weather and climate data users on **where to find and use** reliable data, and **understanding its limitations**



RIMES' Approach

SESAME

Development of decision-support system for translating forecast into crop-relevant information

Facilitating easy access of advisories through SMS, Facebook, and mobile application

Facilitating feedback

FARM SCHOOL

Enhancing farmers' receptivity and capacity in ingesting multi-timescale information into plans and decisions

Facilitating regular discussions between farmers, extension workers and DMH for feedback and further capacity development





FARMERS

Application of information for resource and risk management

76 - 100

SEASON

MONTH

3 DAYS

10 DAYS





Spell

Normal







Outcomes

Central Dry Zone of Myanmar during Cyclone Maaruthaa (Apr 2017)

Timely receipt of information and provision of advisories by DOA officials and extension workers, through SESAME, enabled farmers in the Central Dry Zone of Myanmar to i) save their harvested crops from being damaged, and ii) immediately prepare farm inputs and facilitate early planting of 3-month variety of sesame (planted in mid-April, instead of the usual mid-May and recorded good harvest in July - first good harvest in 7 years)

Monywa Township

DoA Monywa District Officer received forecasted rainfall by the end of May and early June. He analysed the potential impacts of the forecast based on different crops cultivated in the area and provided advisories (e.g., summer crop farmers not to irrigate, green gram and sesame farmers to prepare drainage/leakage canals) resulting to savings of over 2 million MMK (USD1,500) of irrigation and related costs, preservation of 87 acres of green gram valued at over 4.7 million MMK (USD 3,600), and increased production by 10% per acre of sesame in at least 24 acres of farms where canals were made





Thank you for your attention!

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