

Space-based information for enhanced risk management, food security and resilience

World Food Programme

Office for Climate Change, Environment and Disaster Risk Reduction



Climate risk is a significant challenge for food security – it is projected that by 2050, 10-20% more people could be at risk of hunger due to climate risks

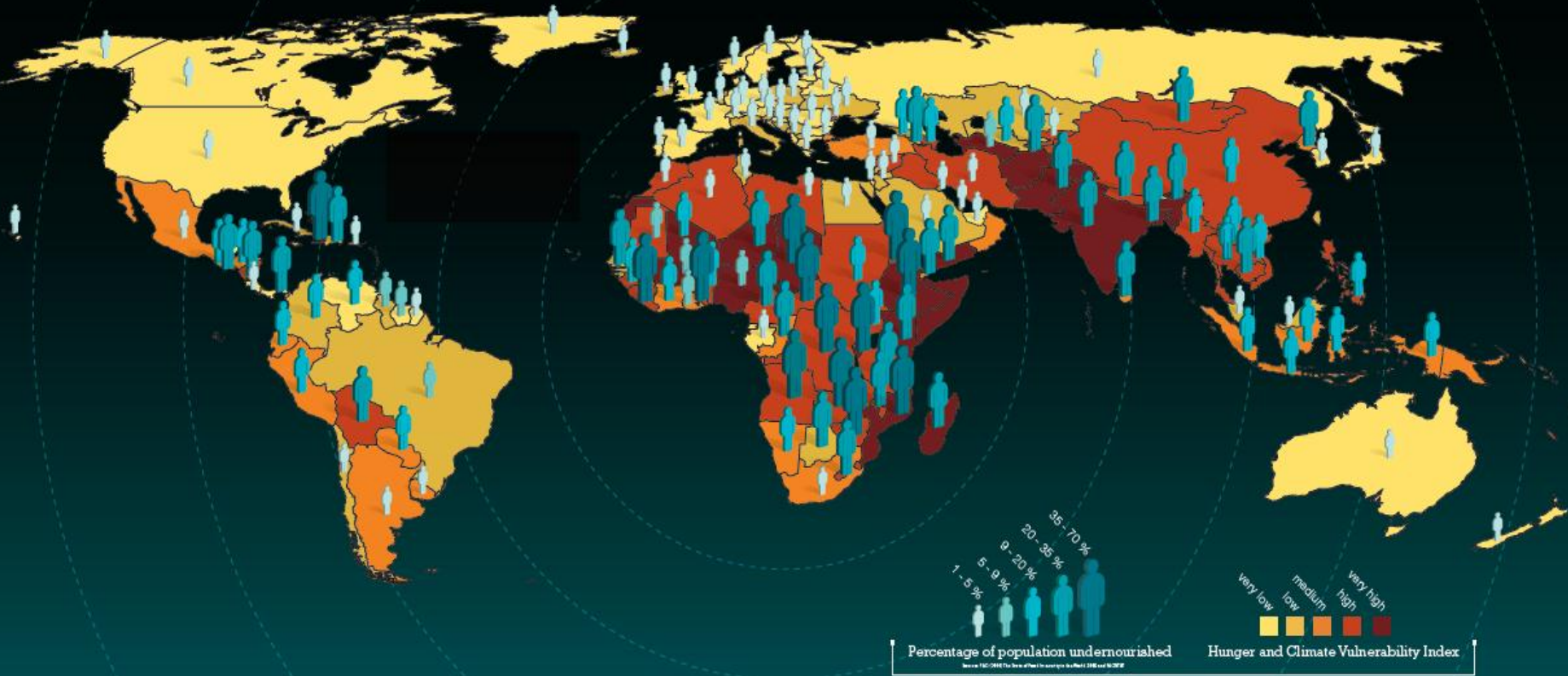


Space-based information is important for risk management and food security planning in the context of climate change

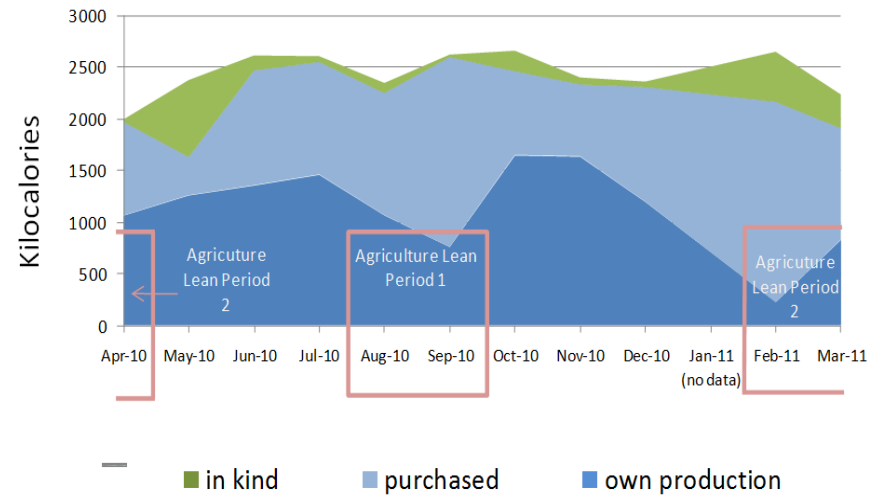
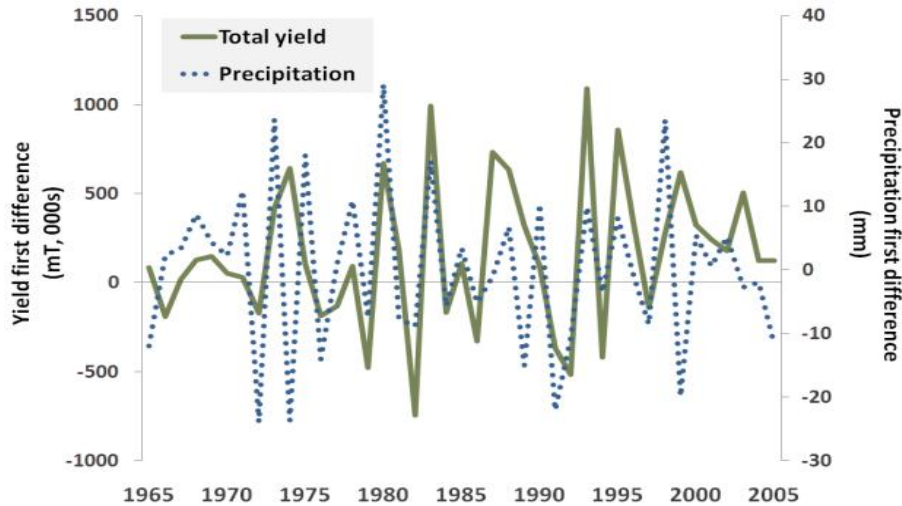
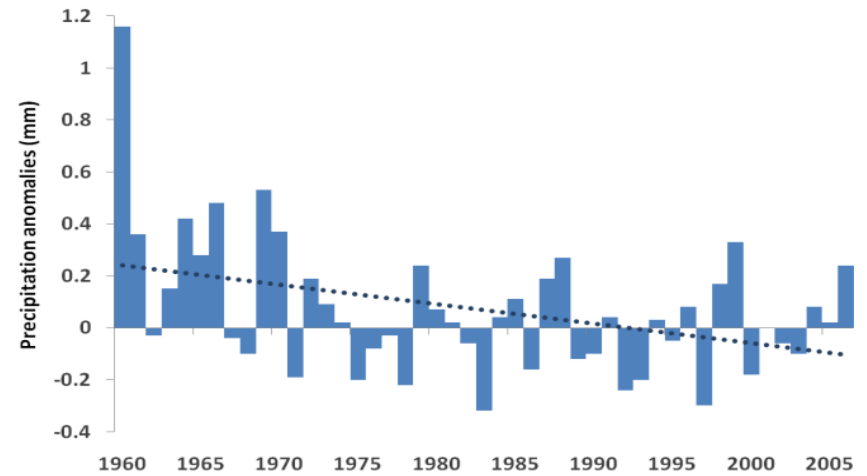
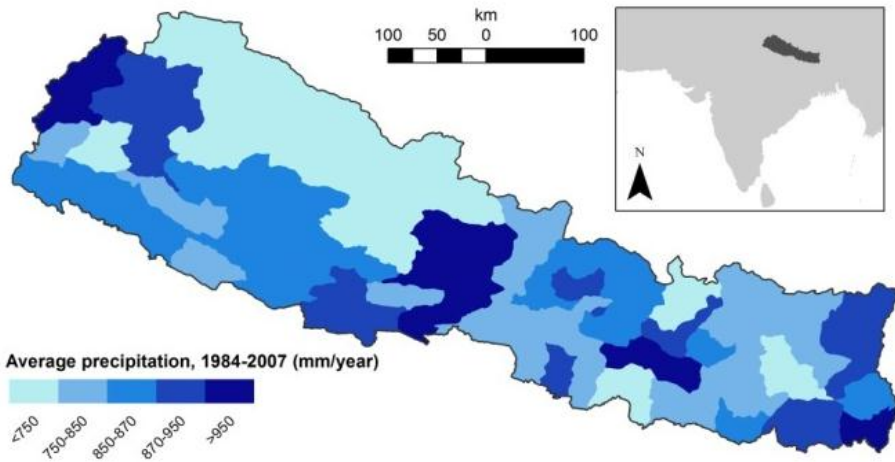


Space-based information provides data about climate-related trends and impacts

Food insecurity and climate change



Climate risk analysis: Collaboration between providers and users of climate information ensure that analyses and services prioritise the most vulnerable



Climate risk analysis: space data and vulnerability information help prioritise interventions

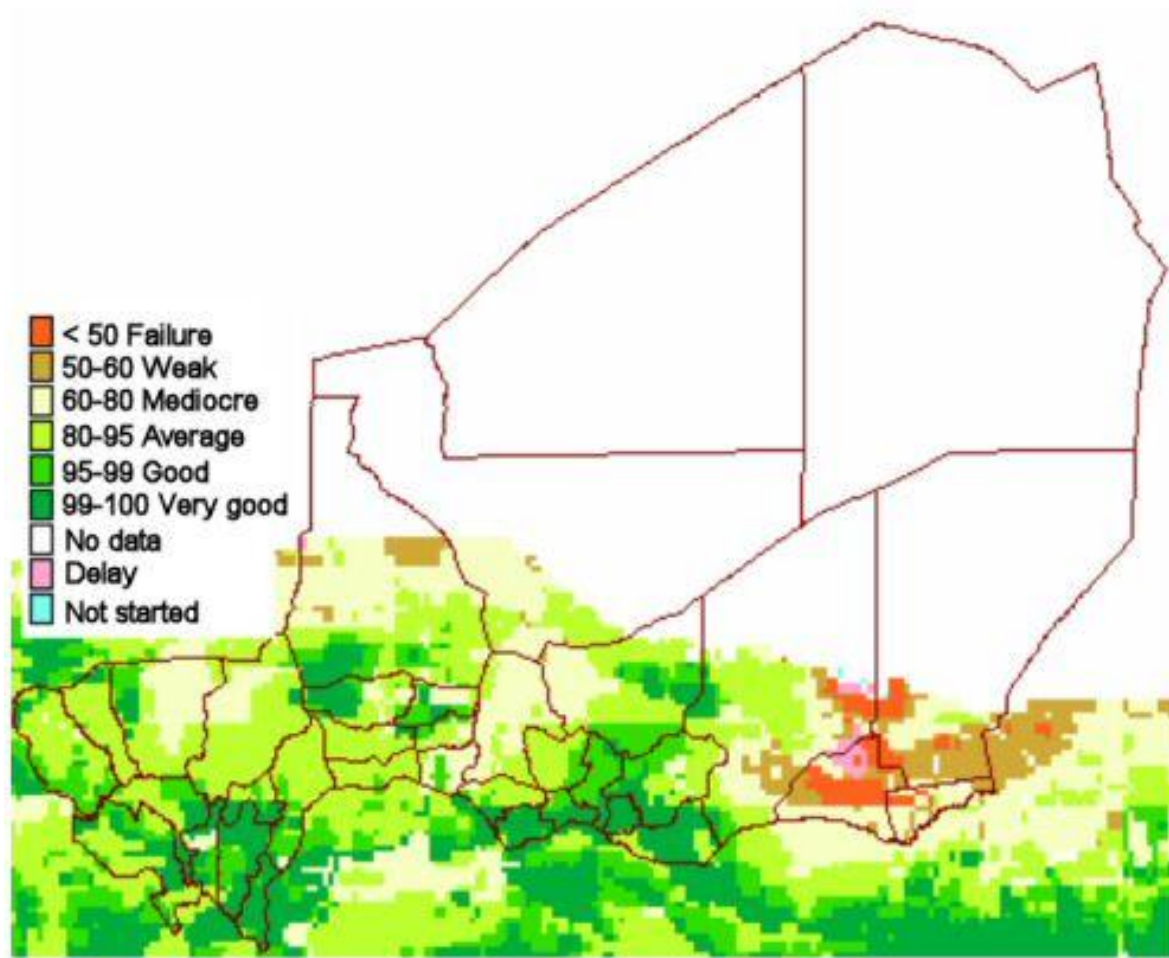


Enabling poor rural people
to overcome poverty

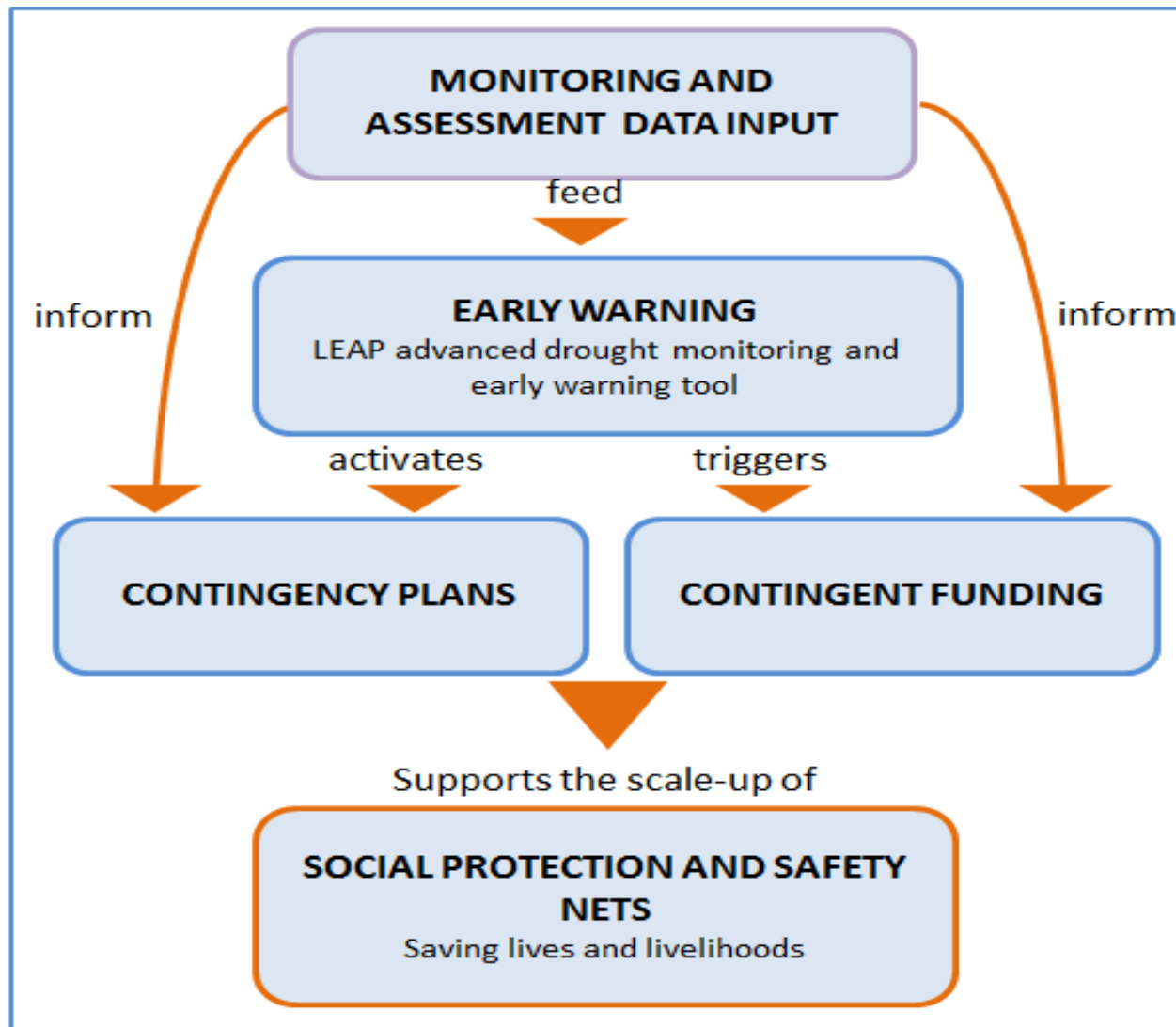


**World Food
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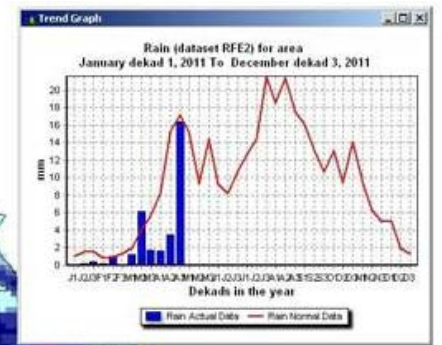
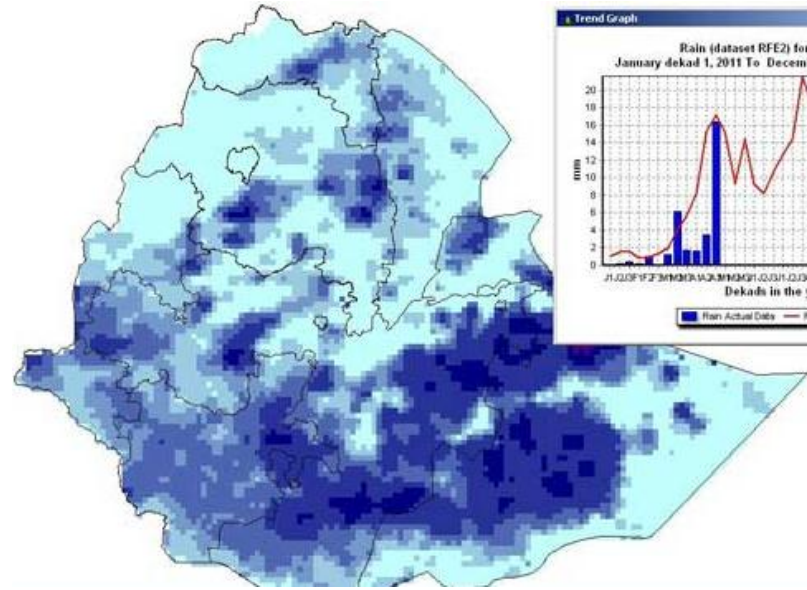
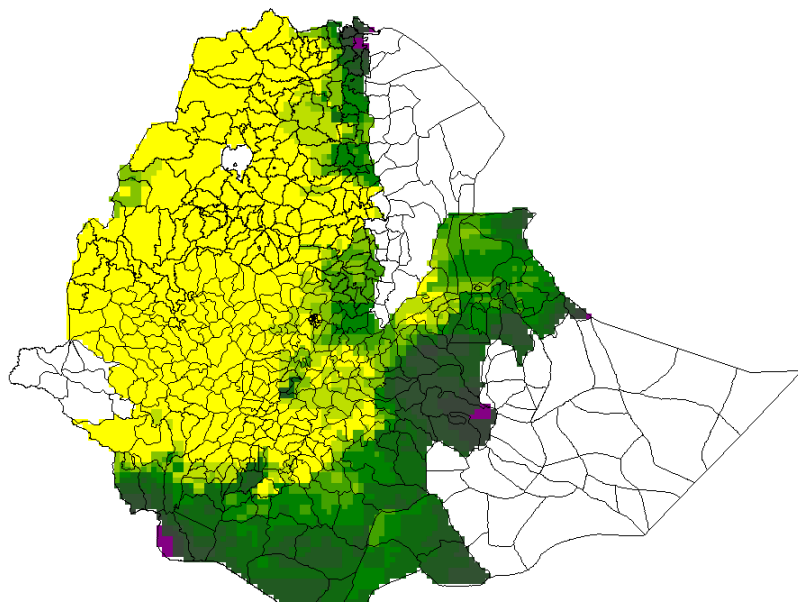
WRMF: IFAD and WFP are collaborating on a Weather Risk Management Facility to improve access to index-based insurance products and a range of other financial services for food security



WRMF: Hybrid satellite-derived and weather station data will be used to reconstruct climatology where weather station data are limited to inform weather indices



Index insurance: LEAP is an innovative operational model that integrates satellite-derived, weather station and food security data to manage risks



Index insurance: LEAP converts satellite-derived and weather station data into production estimate data to quantify the amount of resources needed to scale up the national social protection scheme

R4

- Risk taking (credit)
- Risk transfer (insurance)
- Risk reserves (savings)
- Risk reduction



**Index insurance at community level:
OA-WFP R4 Rural Resilience Initiative**

Thank you

Space for Agriculture and Food Security

Rome, Italy

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Office for Climate Change, Environment and Disaster Risk Reduction

