



CLIMATE-RISK MANAGEMENT

Climate-risk management

Africa is the most affected continent by the repercussions of climate change. Weather-related hazards, droughts, acute temperature variations, and extreme precipitation – all of these endanger agriculture and food security. Africa is also one of the regions that are less prepared for these weather-related risks: 2/3 of African countries have little or no capacity to manage these risks. Good climate-risk management depends on the quality – and sharing – of collected data, as well as on stakeholder involvement.

AAA proposes **4 types of solutions** for climate-risk management:

1. Developing observation and forecasting systems: Improve the weather and climate observation network (make more compact and modern); improve weather forecasting systems; develop agro-meteorological forecasting systems for crops and forages (process and analyse data – including satellite data – on weather and agriculture); develop earth-observation facilities (through remote sensing space systems, mapping, GIS, GPS and other geomatic applications);
2. Develop index-based agricultural insurance, an insurance product based on weather and satellite indicators;
3. Developing academic and continuous training programmes: Provide trainings in Geographic Information Systems, in agro-meteorology, in remote sensing space systems, in crop-and-forage monitoring systems, in WEB-GIS application for agro-meteorological information dissemination, etc.

Implementing these solutions requires the involvement of all stakeholders, namely, **scientists and engineers** (meteorologists, agronomists, and computer scientists), **institutions** (ministries, universities, agricultural research centres, insurance companies, etc.), and **the farmers** who have to be trained and supported.



2/3
of African
countries
lack efficient
climate-risk
management
systems



50 out of 54
countries assign
importance
to early-warning
and climate-risk
management systems
(INDC analysis)

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Launched upstream of COP22 organized in Morocco, the initiative for the Adaptation of African Agriculture (AAA) aims to reduce the vulnerability of Africa and its agriculture to climate change.