

Sovereign Disaster Risk Solutions A Specialized Agency of the African Union



Directions of research and innovation for The African Risk Capacity (ARC)



ARC's Structure

SPECIALIZED AGENCY OF THE AFRICAN UNION

ARC

Governed by Member States

Provides guidelines & oversight

Political engagement

Capacity building

Operational monitoring

WFP Support

REGULATED COMMERCIAL INSURANCE COMPANY

LTD

Owned by Member States and capital contributors

Risk pooling / insurance / asset management functions

Transfers risk to markets

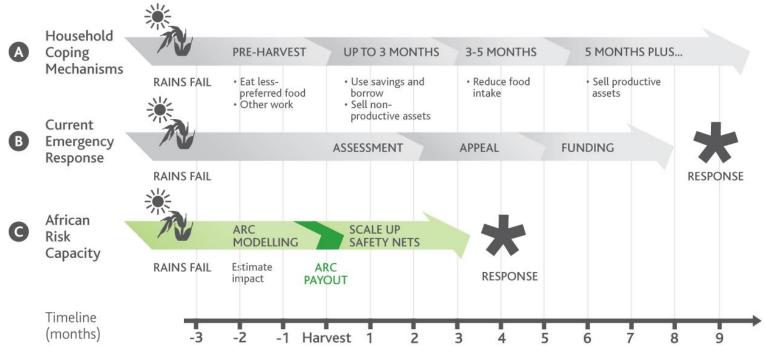
Established in Bermuda for the interim period

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Savings from Early Intervention

Uses *Africa RiskView* to estimate and trigger immediate resources to governments in the case of a disaster.



Source: Clarke/Hill, Cost-Benefit Analysis of the African Risk Capacity Facility,

Cost-effective contingency funding protects livelihoods and development gains



Africa RiskView: Quantifying the Risk

Africa RiskView (ARV) is the software application developed to underpin ARC Ltd's index-based drought insurance contracts Hazard

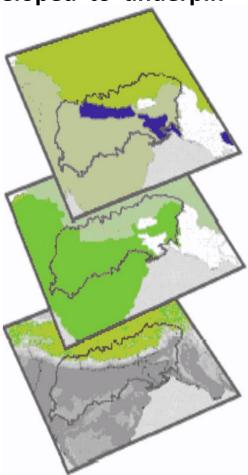
Satellite-based rainfall data for over 261,000 satellite pixels over Africa (0.1 dg x 0.1 dg or 10 x 10km sq. near the equator) updated every 10 days. Current focus is drought with a flood model in development.

Vulnerability

Who's at risk? Where are they? What are they growing or where do their herds graze?

Exposure

In today's procurement and logistic costs, how much will it cost to assist each potential person affected?





Research focus: improving Africa RiskView

SAFARI Research project

International collaboration with NDMA Kenya, Agrhymet, Imperial college of London, ILRI, WFP and ARC Objective: Improve the accuracy of the model

- 1. Toolkit and assessment of rainfall satellite (inc. CHIRP and CHIRPS with Colombia university)
- 2. Realtime evapotranspiration (better capture the impact of temperature)
- 3. Revisit the drought model (WRSI / VCI)

Robustness and sensitivity analysis

Multi Hazard, e.g. flood and excess rainfall



Innovation: Licencing for development

Maximizing the use of Africa RiskView: licencing the software to meso actors.

Crowd in the local insurance sector

Facilitate loans to the agriculture sector by providing a risk tool

Encouraging meso level index insurance

Challenges: marketing cost – training - education

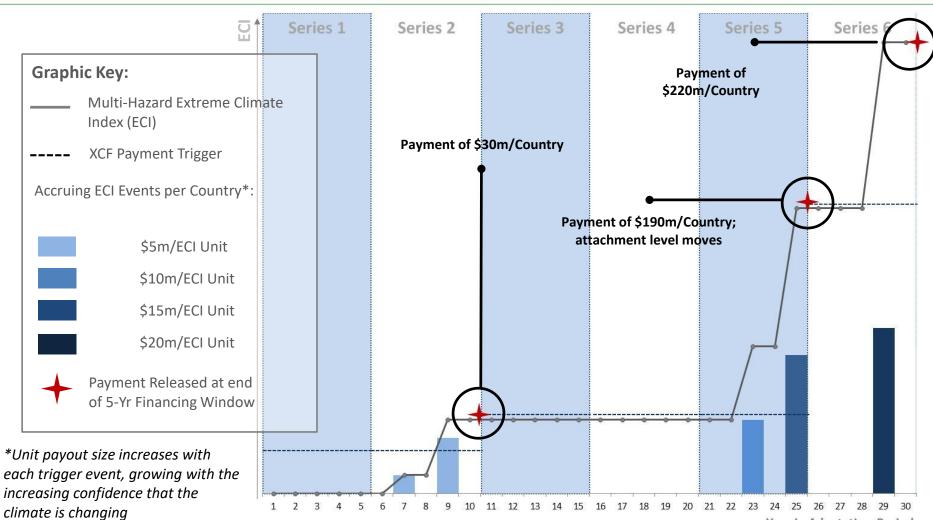


Innovation: The Extreme Climate Facility (XCF)

- The case of Niger
- If the frequency and intensity of extreme weather events increases
- Based on an objective, multi-hazard Extreme Climate Index (ECI) and focus on each climatological region of Africa



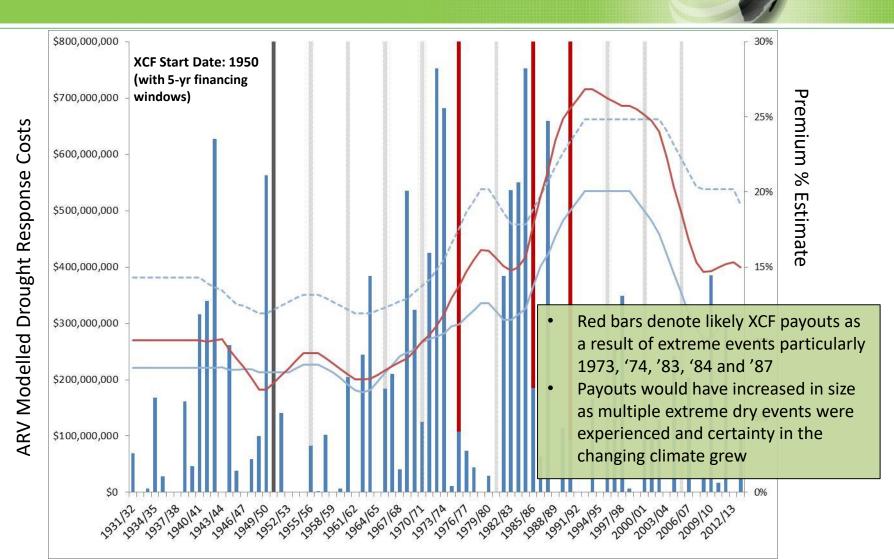
XCF Illustration



Year in Adaptation Period

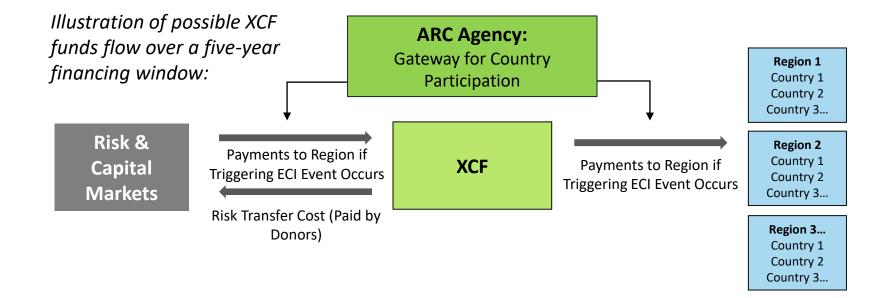


Niger





Mechanism





Eligibility



If triggered, XCF payments will be released to countries only with climate adaption plans approved by ARC Agency's Peer Review Mechanism (PRM)

- ARC Member States that are actively managing their weather risk
- With climate adaptation plans approved by ARC Agency Peer Review Mechanism
- The critical questions to be addressed:
 - What would be the most effective use of XCF funds?
 - How should they be prioritised to a) reduce household vulnerability, b) build meaningful, effective national resilience and c) lead to affordable ARC Ltd premiums?
- To be effective, XCF's climate adaptation plan standards should align with and build on on-going work in climate adaption and ARC will need to partner with existing initiatives



Thank You

Website: www.africanriskcapacity.org

Twitter: @ARCapacity