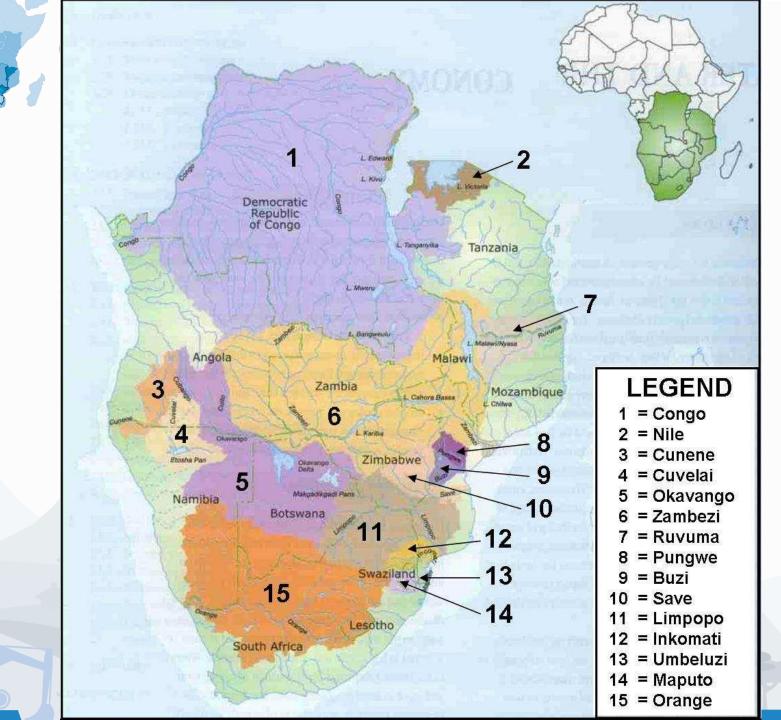
CRIDF Climate impacts on water in Southern Africa

Green Climate Fund workshop

20 September 2018

Charles Reeve, CRIDF Team Leader











High levels of water insecurity

CRIDF

Vulnerability to climate shocks

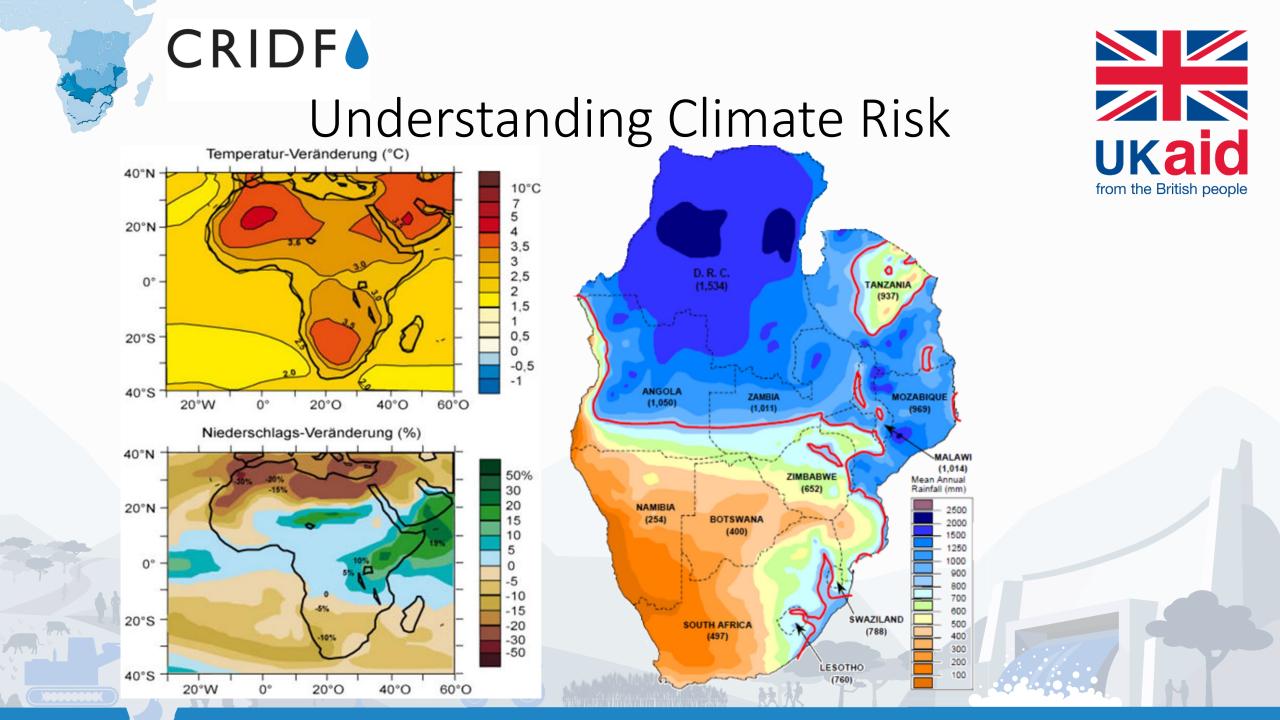


Tremendous temporal and spatial variability in available water resources exacerbated by impact of climate variability



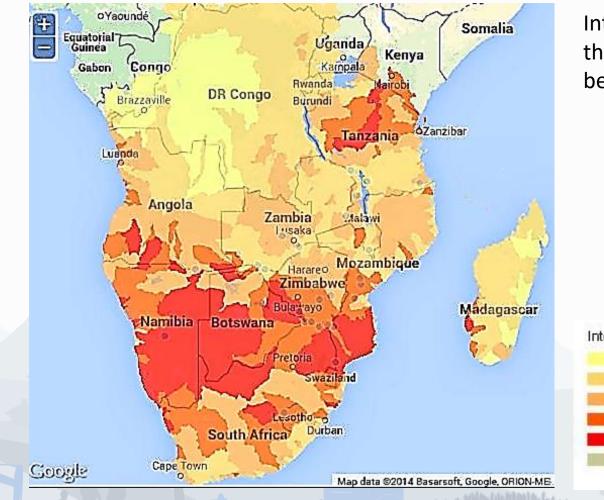
Major shared river basins – multi-country regional response to climate change challenging

Huge infrastructure investment backlog – impacts on disaster preparedness: call to action!



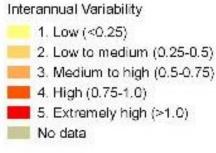
CRIDF Inter-annual Variability

CRIDF's Climate Vulnerability Mapping Tool



Inter-annual variability measures the variation in water supply between years.

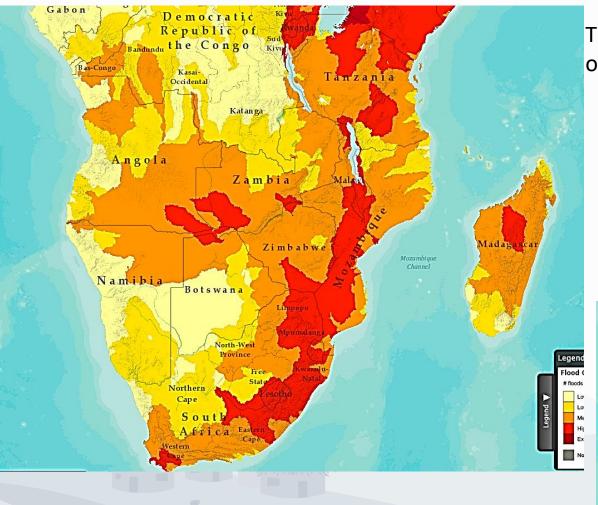




CRIDF

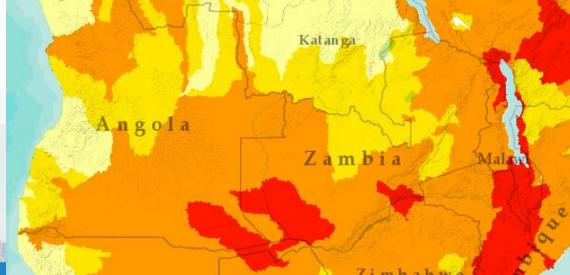
Flood Occurrence

CRIDF's Climate Vulnerability Mapping Tool



The probability that a flood will occur in a given year.



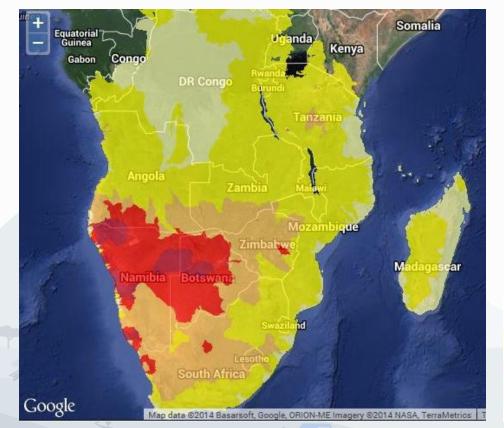




CRIDE Drought Severity

CRIDF's Climate Vulnerability Mapping Tool



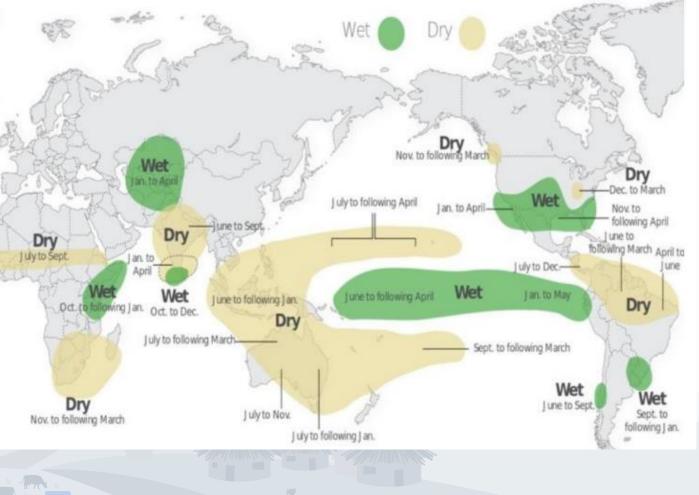


Drought is defined as a contiguous period when soil moisture remains below the 20th percentile. Length is measured in months, and dryness is the average number of percentage points by which soil moisture drops below the 20th percentile.



CRIDF 2015 drought impact





- Severe water rationing in Gaborone
- Hydropower plants closed in Tanzania
- Power production from the Zambezi curtailed
- Emergency feeding programmes in Zimbabwe

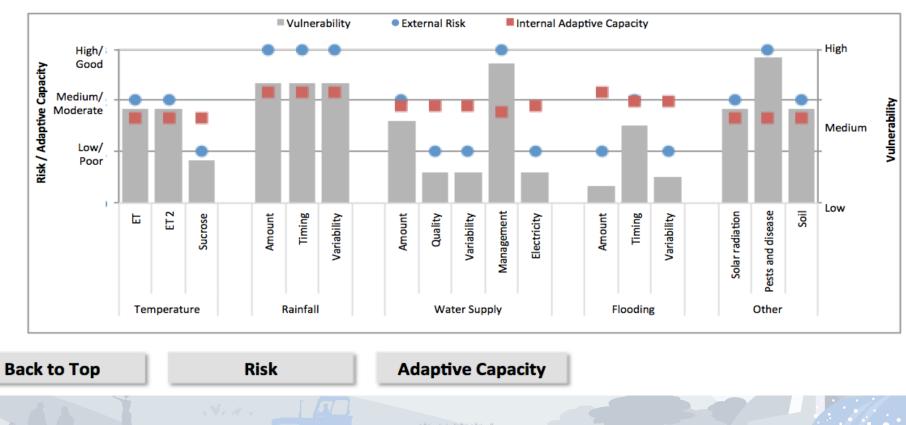
CRIDF Present day impacts of climate change







Detailed summary of current and future vulnerability



CURRENT VULNERABILITY





15-12

CRIDF

<u> </u>	
CLIMATE RISK	ADAPTATION / RESPONSE Backbone
In-season	Storage
Variability	Irrigation
Annual	Dams
Variability	
Drought	Large dams
Floods	Flood warning
	Levees
	Dams
Low flows	Storage releases
	Water management (tech, ration, leakage)
	Water Infrastructure is an adaptation backbone
	for agro based economies predominant in SADC



CRIDF Small scale water infrastructure solutions









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Thank You

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