

CRIDF 



Climate Resilient Infrastructure Development Facility

Contributing to transforming infrastructure delivery in Southern Africa

Stockholm World Water Week
26 August 2018

Charles Reeve, Team Leader



Water risks in SADC



High levels of water insecurity



Vulnerability to climate shocks



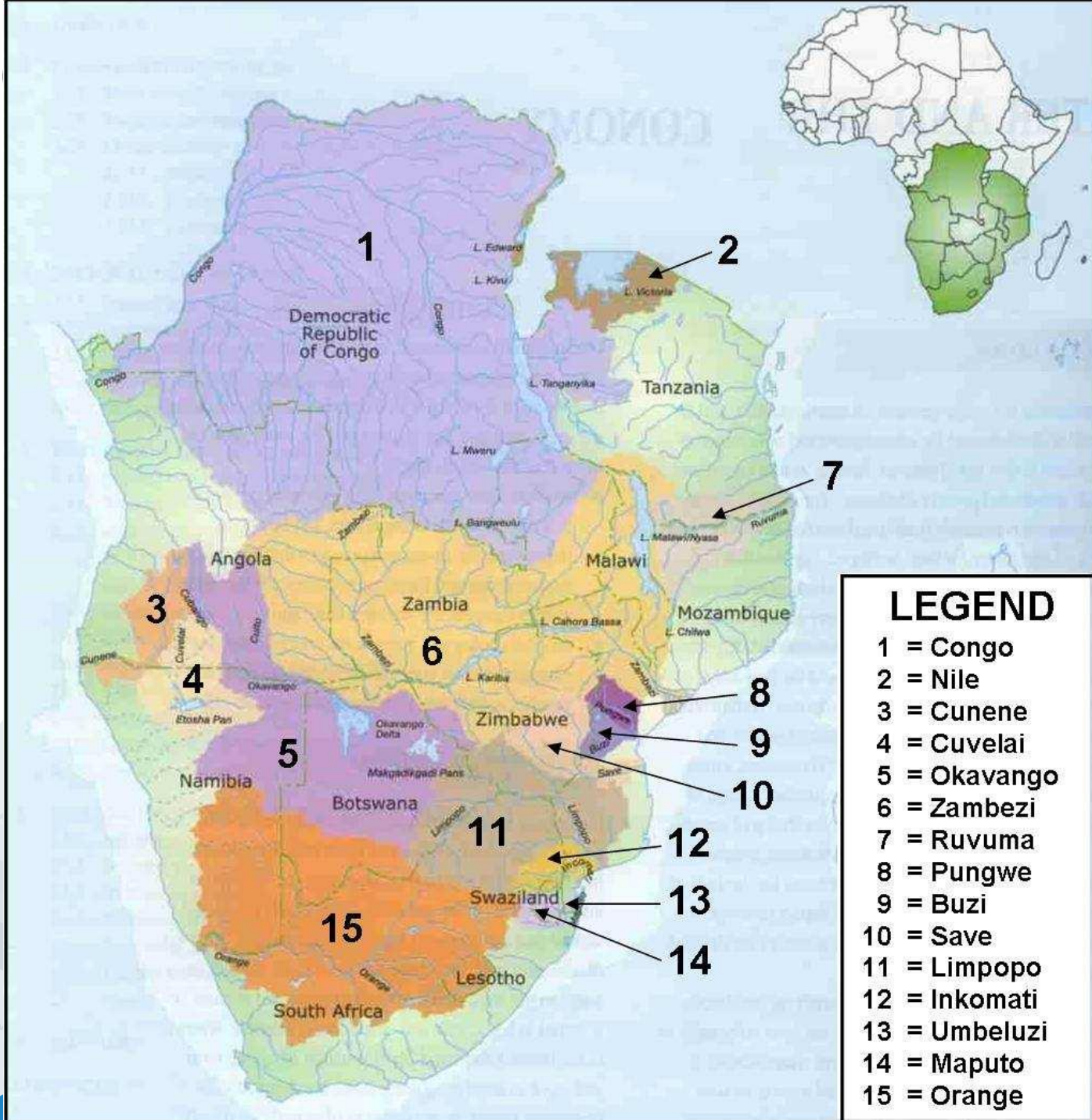
Tremendous temporal and spatial variability in available water resources exacerbated by impact of climate variability



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



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



LEGEND

- 1 = Congo
- 2 = Nile
- 3 = Cunene
- 4 = Cuvelai
- 5 = Okavango
- 6 = Zambezi
- 7 = Ruvuma
- 8 = Pungwe
- 9 = Buzi
- 10 = Save
- 11 = Limpopo
- 12 = Inkomati
- 13 = Umbeluzi
- 14 = Maputo
- 15 = Orange

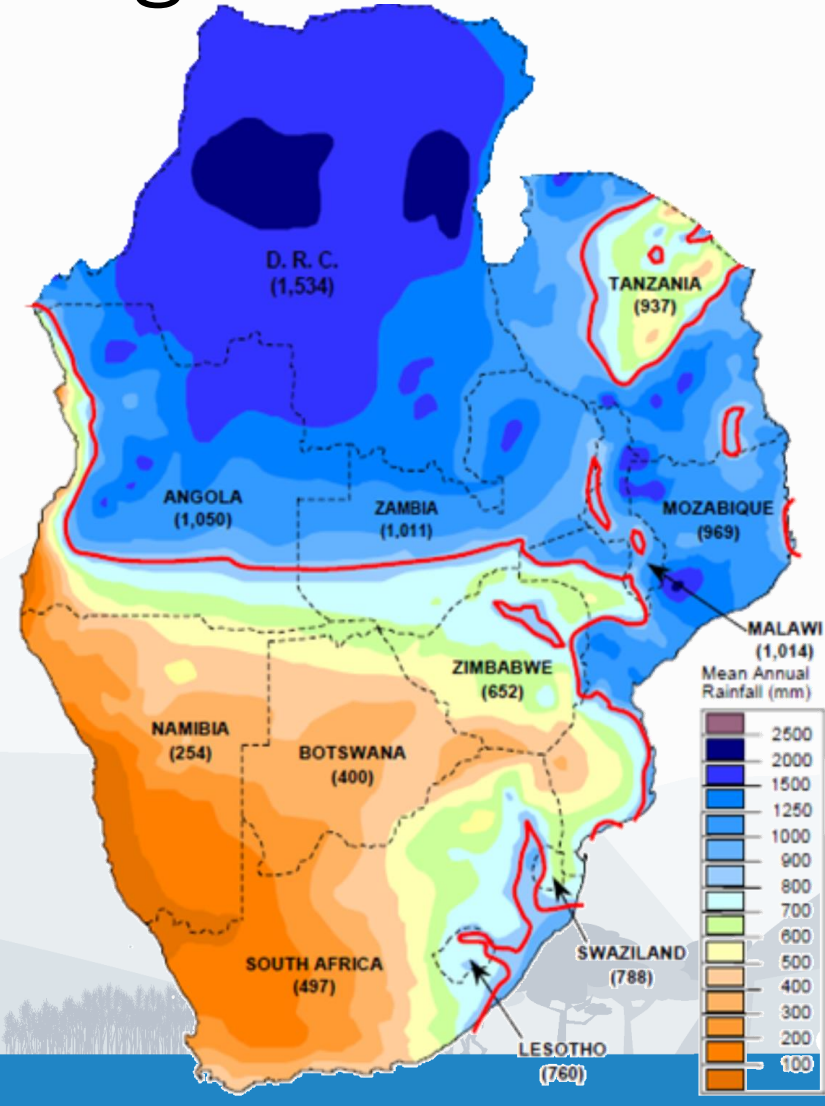
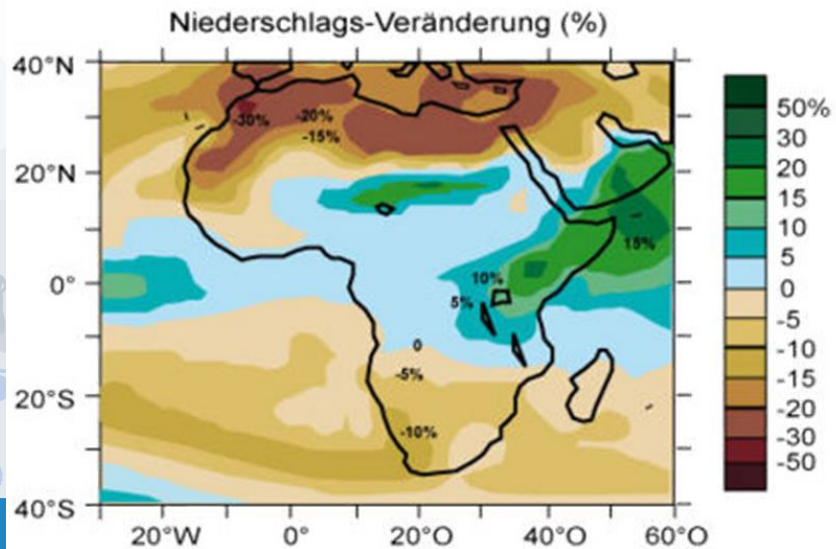
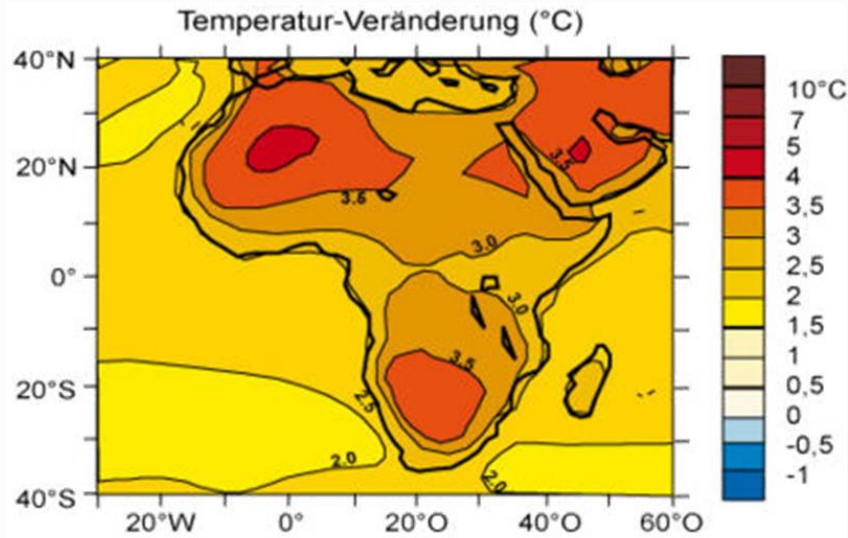


UKaid
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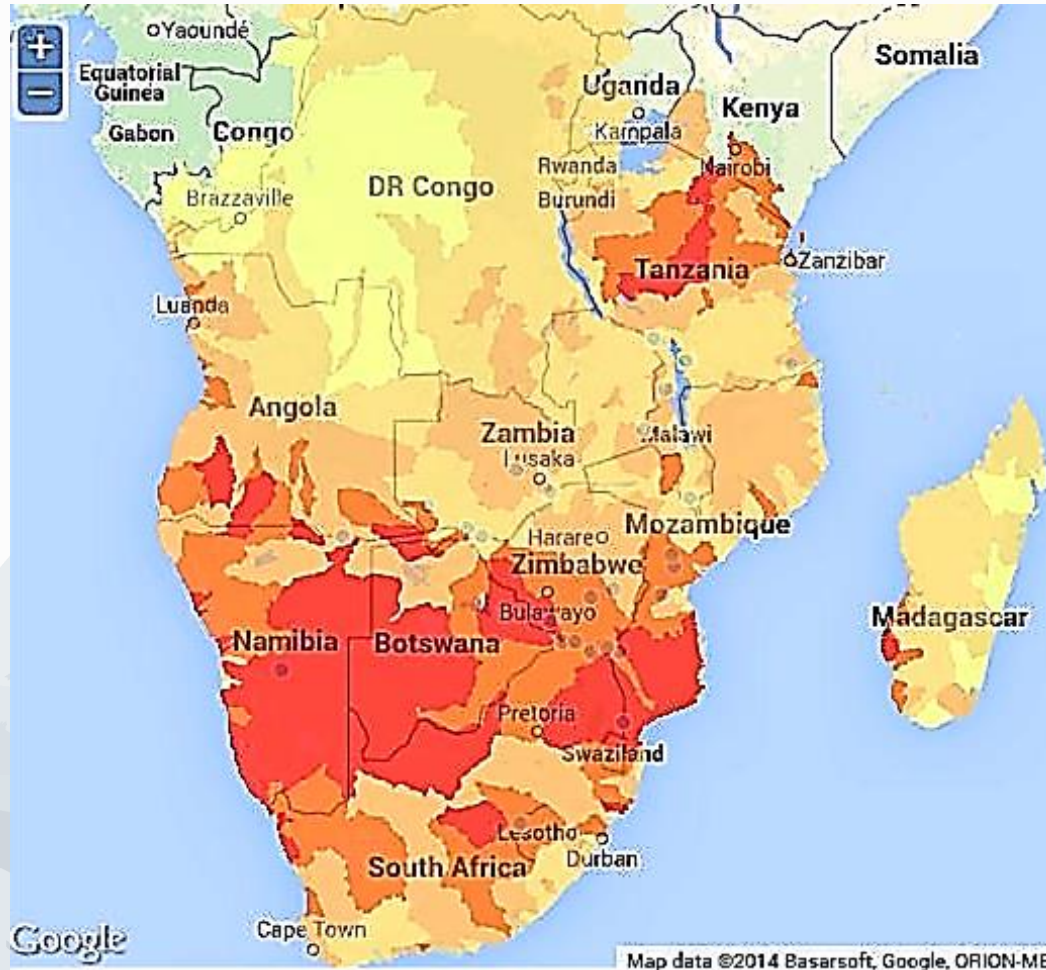


Understanding Climate Risk



Inter-annual Variability

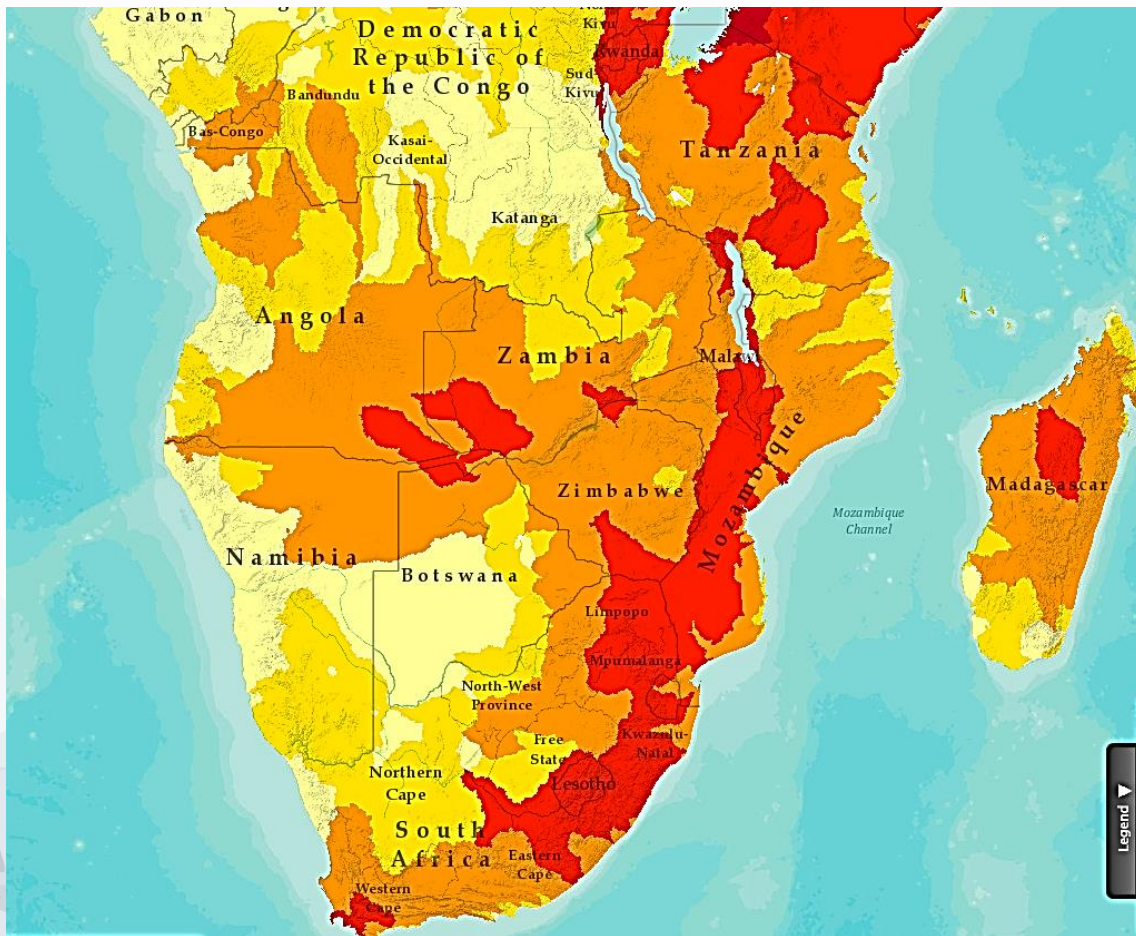
CRIDF's Climate Vulnerability Mapping Tool



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







Interannual Variability

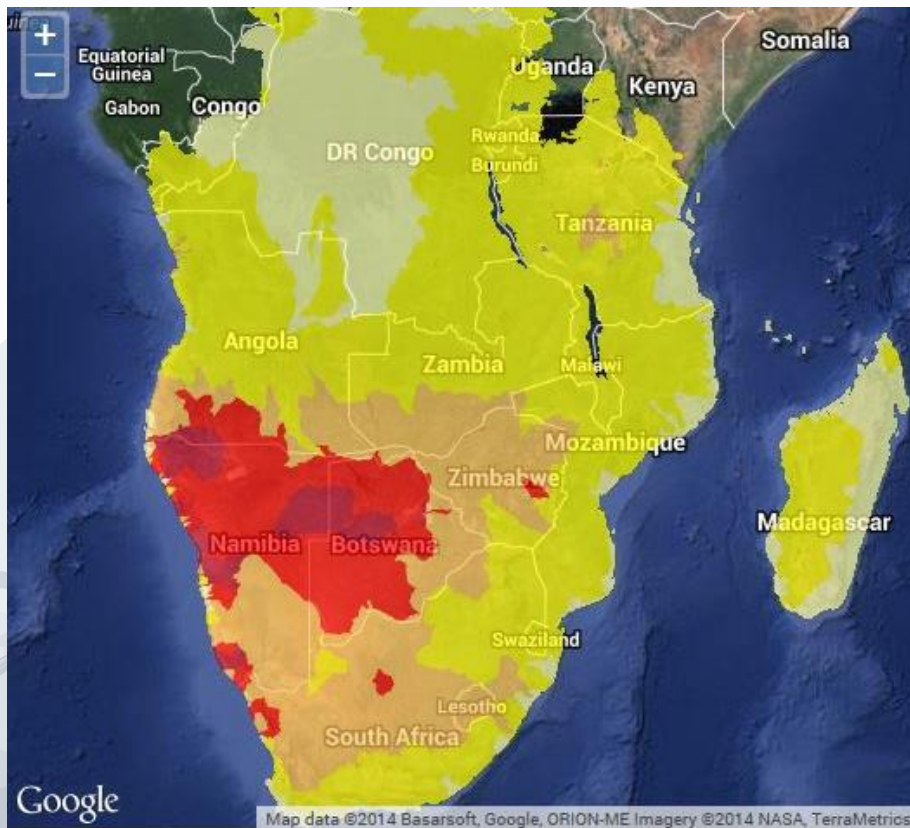
- 1. Low (<0.25)
- 2. Low to medium (0.25-0.5)
- 3. Medium to high (0.5-0.75)
- 4. High (0.75-1.0)
- 5. Extremely high (>1.0)
- No data



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

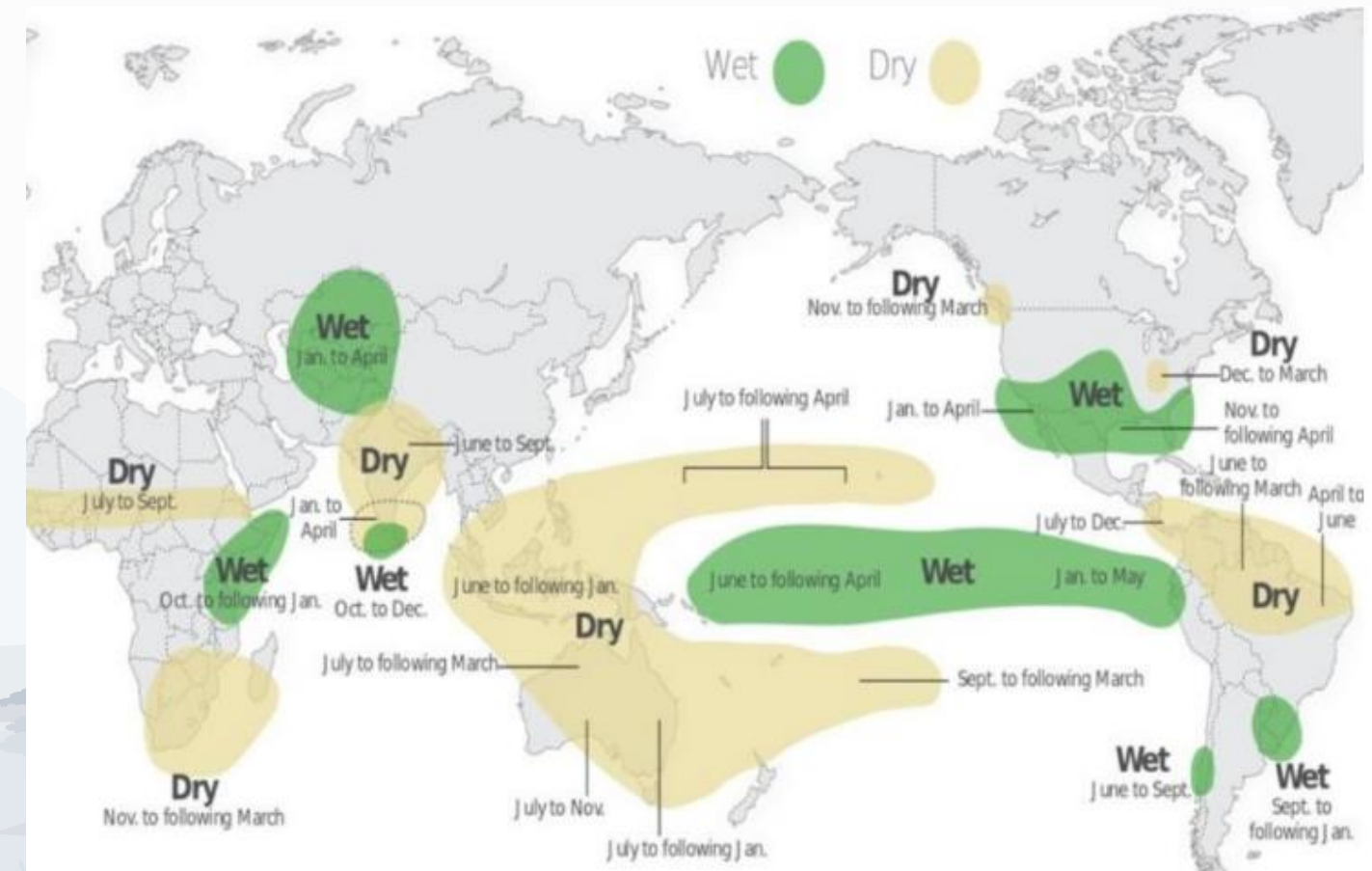
Flood Occurrence

- # floods 1985-2011
-  Low (0-1)
 -  Low to medium (2-3)
 -  Medium to high (4-9)
 -  High (10-27)
 -  Extremely high (>27)
 -  No data

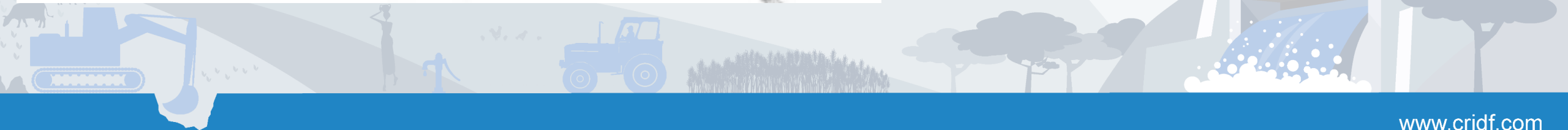


Drought is defined as a contiguous period when soil moisture remains below the 20th percentile. Length is measured in months, and dryness is the average number of percentage points by which soil moisture drops below the 20th percentile.





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



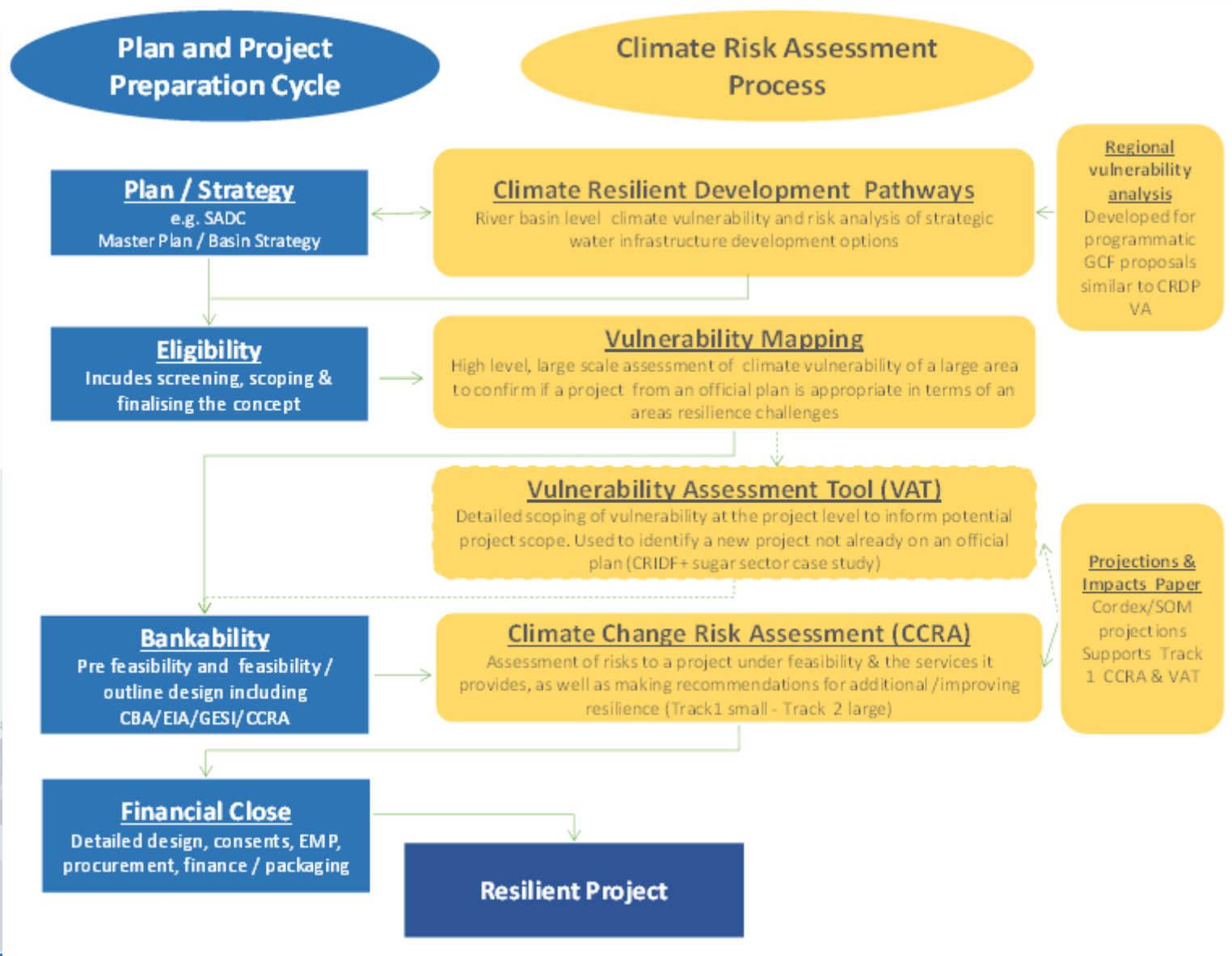
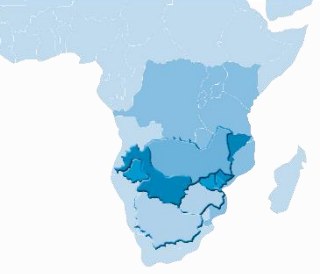


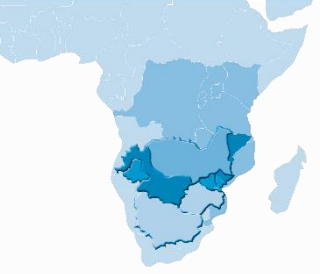
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CLIMATE RISK	ADAPTATION / RESPONSE Backbone
In-season Variability	Storage Irrigation
Annual Variability	Dams
Drought	Large dams
Floods	Flood warning Levees Dams
Low flows	Storage releases Water management (tech, ration, leakage)
	<i>Water Infrastructure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



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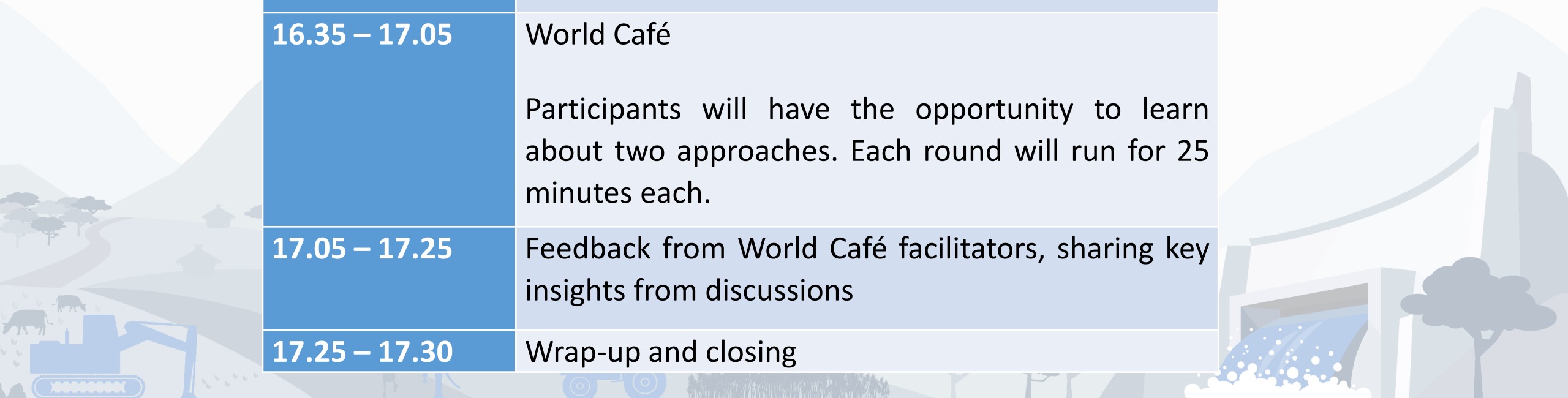


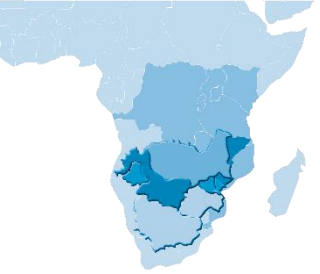


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Time	Activity
16.00 – 16.05	Welcome remarks and introductions
16.05 – 16.15	Framing of the event including introduction to CRIDF
16.15 – 16.35	Overview of the different approaches that will be discussed at each table. Maximum of five minutes each.
16.35 – 17.05	World Café Participants will have the opportunity to learn about two approaches. Each round will run for 25 minutes each.
17.05 – 17.25	Feedback from World Café facilitators, sharing key insights from discussions
17.25 – 17.30	Wrap-up and closing





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Thank You

