

Africa Climate Resilient Investment Facility (AFRI-RES)



2017 Forum of the Standing Committee on Finance

“Mobilizing Finance for Climate-Resilient
Infrastructure”

6–7 September 2017 La Tour Hassan Palace hotel
Rabat, Morocco



A. The challenge

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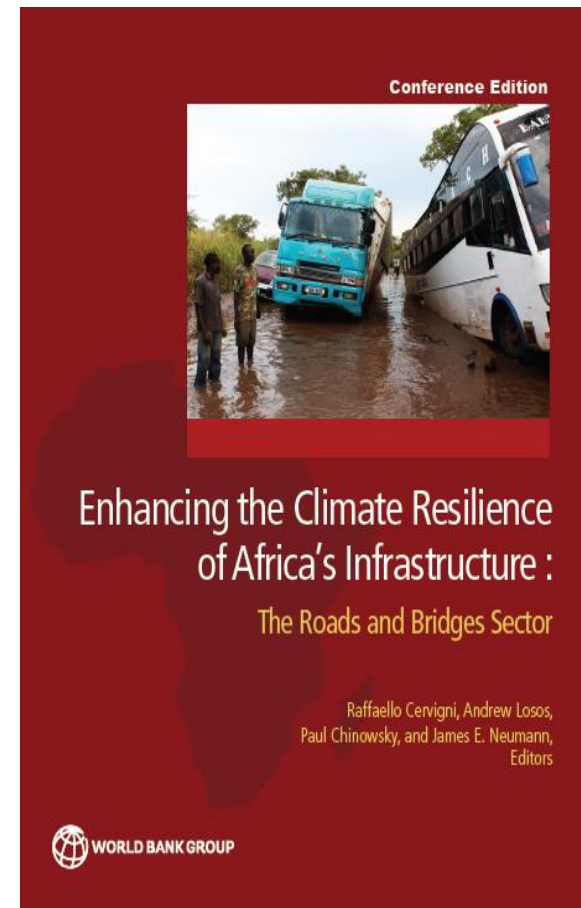
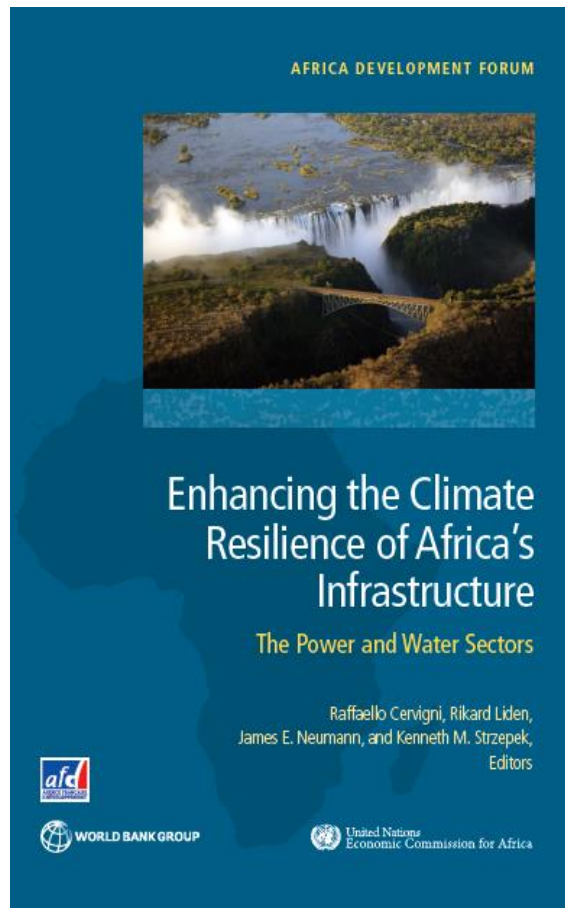
**MAKE “GOOD”
INVESTMENT DECISIONS**

TODAY

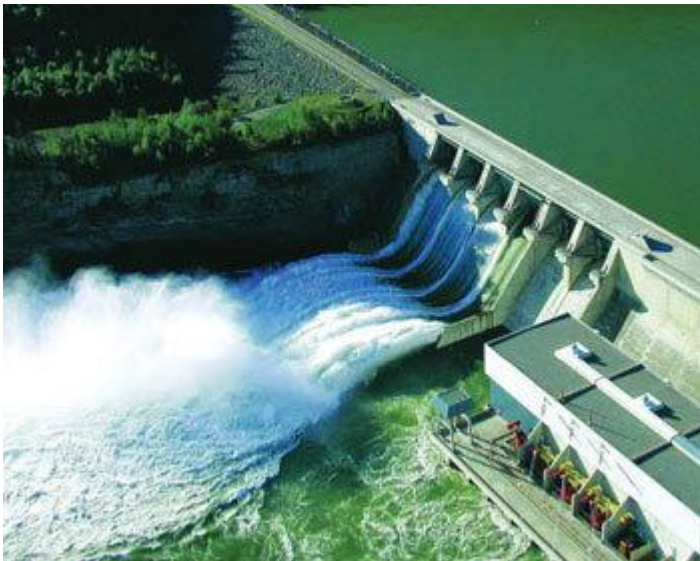
**SO THAT INFRASTRUCTURE CAN
DELIVER BOTH IN TODAY’S AND
TOMORROW’S CLIMATE**

Looking closely into the issue...

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ECRAI key message: We need to adapt.



- **Roads**
 - Increased culvert size
 - Increased base thickness or quality
- **Power**
 - Number, size of turbines
 - Sizing of reservoirs
- **Irrigation**
 - Sizing of schemes
 - Canal design

AFRI-RES: a solution to help address the challenge

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AFRI-RES Objective:

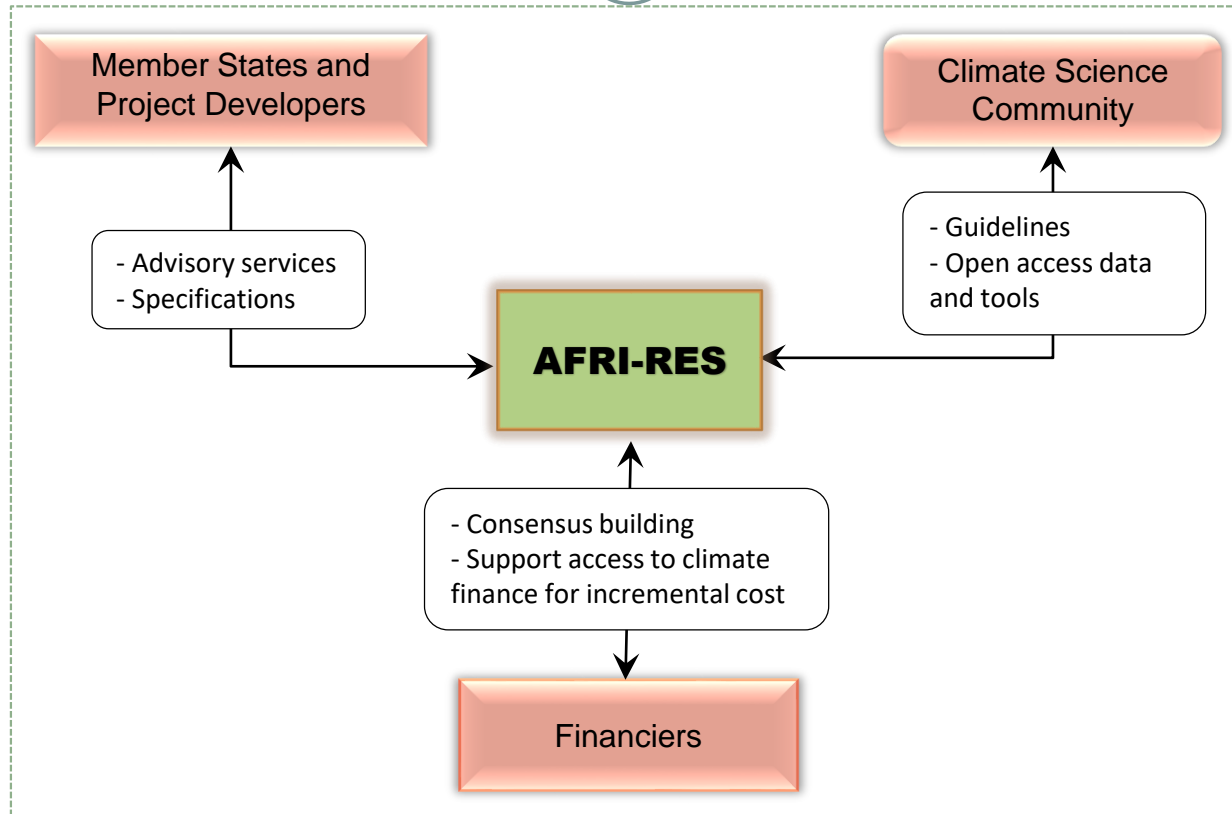
Strengthen the capacity of African institutions (national governments, river basin organizations, Regional Economic Communities, power pools and development practitioners) to plan, design, and implement investments resilient to climate variability and change in selected sectors



United Nations
Economic Commission for Africa

AFRI-RES VALUE PROPOSITION

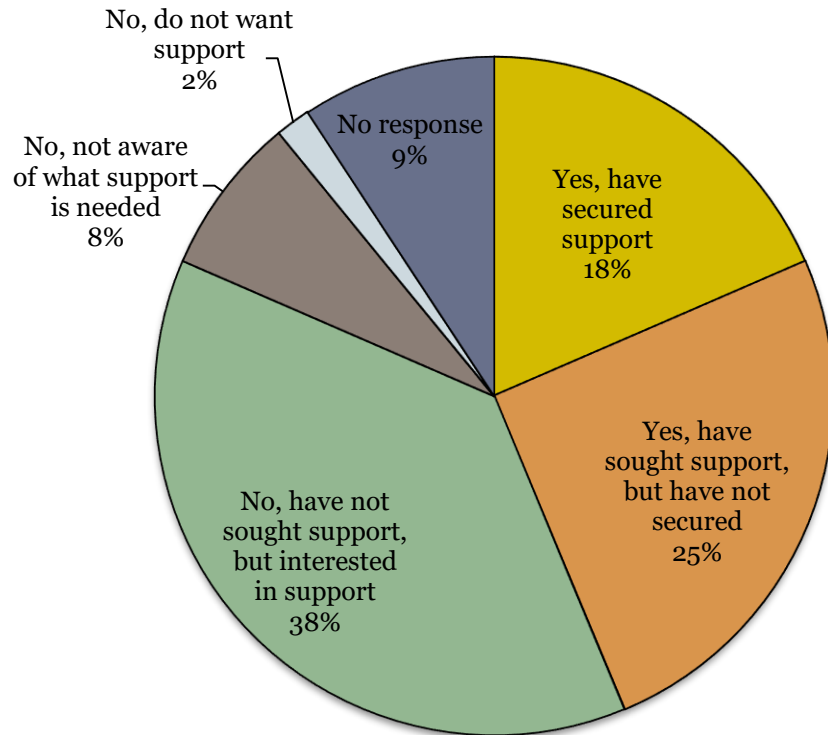
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Key messages from practitioners survey: strong demand, largely unmet

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Have you sought support to integrate climate change considerations into planning and design of infrastructure?



Key observations

- 80% of respondents were interested in receiving support to integrate ICCPD services, but only 18% had secured support.
- 62% of respondents were interested or had actively sought support, but had not yet been able to secure it.
- While 8% were not aware or unable to specify what support they needed, only 2% of respondents indicated they were not interested in receiving support.

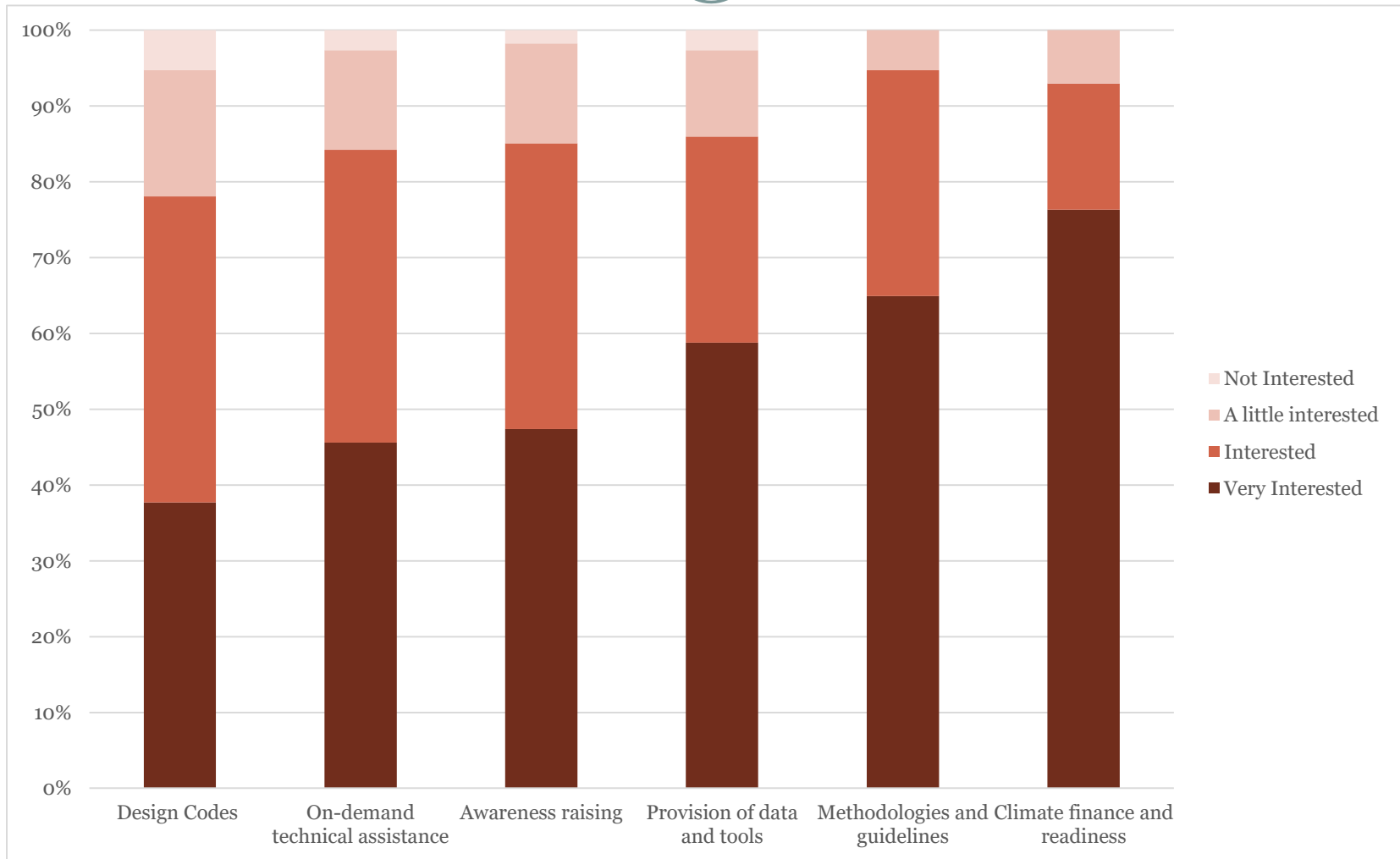
Areas of work

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Nr	Area	Implementation lead
1	Project level technical assistance	World Bank
2	Training, dissemination, advocacy and outreach	UNECA/AUC
3	Guidelines, standards and good practice notes	World Bank
4	Climate Knowledge Portal	UNECA

Areas of work – Demand Mapping

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AFRI-RES Activities

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Upstream support

- Open data and knowledge platform
- Development of guidelines
- Compilation of good practices
- Support the emergence of standards in climate resilient project development



Downstream support

- Assistance in TORs preparation
- Quality assurance on technical reports
- Topping-up project preparation resources (directly, indirectly)

Scope of work

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Sectors

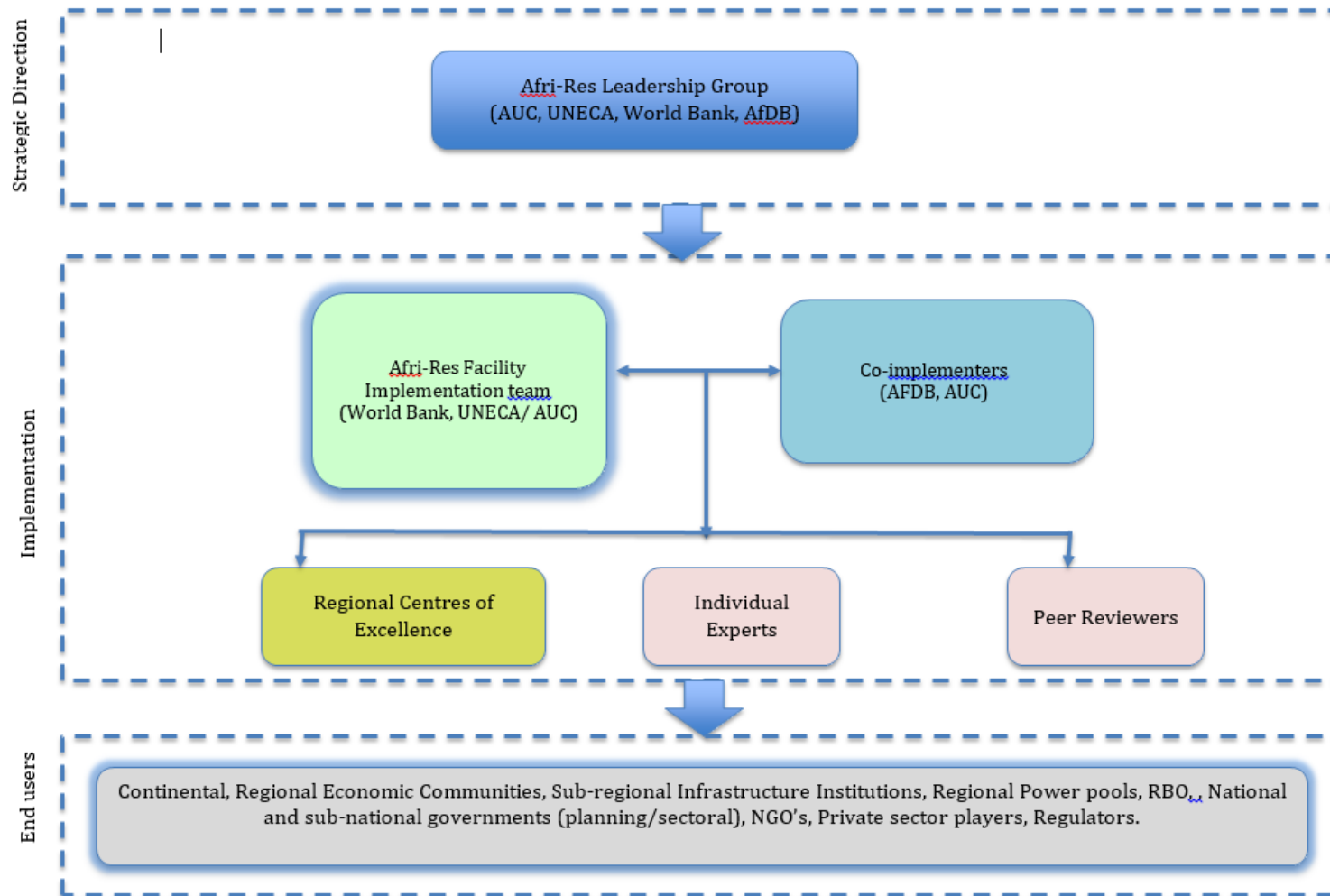
- Water Resources
- Irrigation/ Agriculture
- Hydropower
- Energy sector
- Road transport
- Others (blue economy, landscape management)

Project cycle stages

- Sector policy/ sector regulation
- Planning
- Project design
- Operation

Implementation structure

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Expected benefits

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1. Closing the gap between climate science and project design
2. Economies of scale in developing readiness and supporting project preparation: faster/ better adaptation
3. Gradual emergence of technical standards in project design for adaptation
4. Multiplication of resilience benefits across a wide range of financing mechanisms

Further Information

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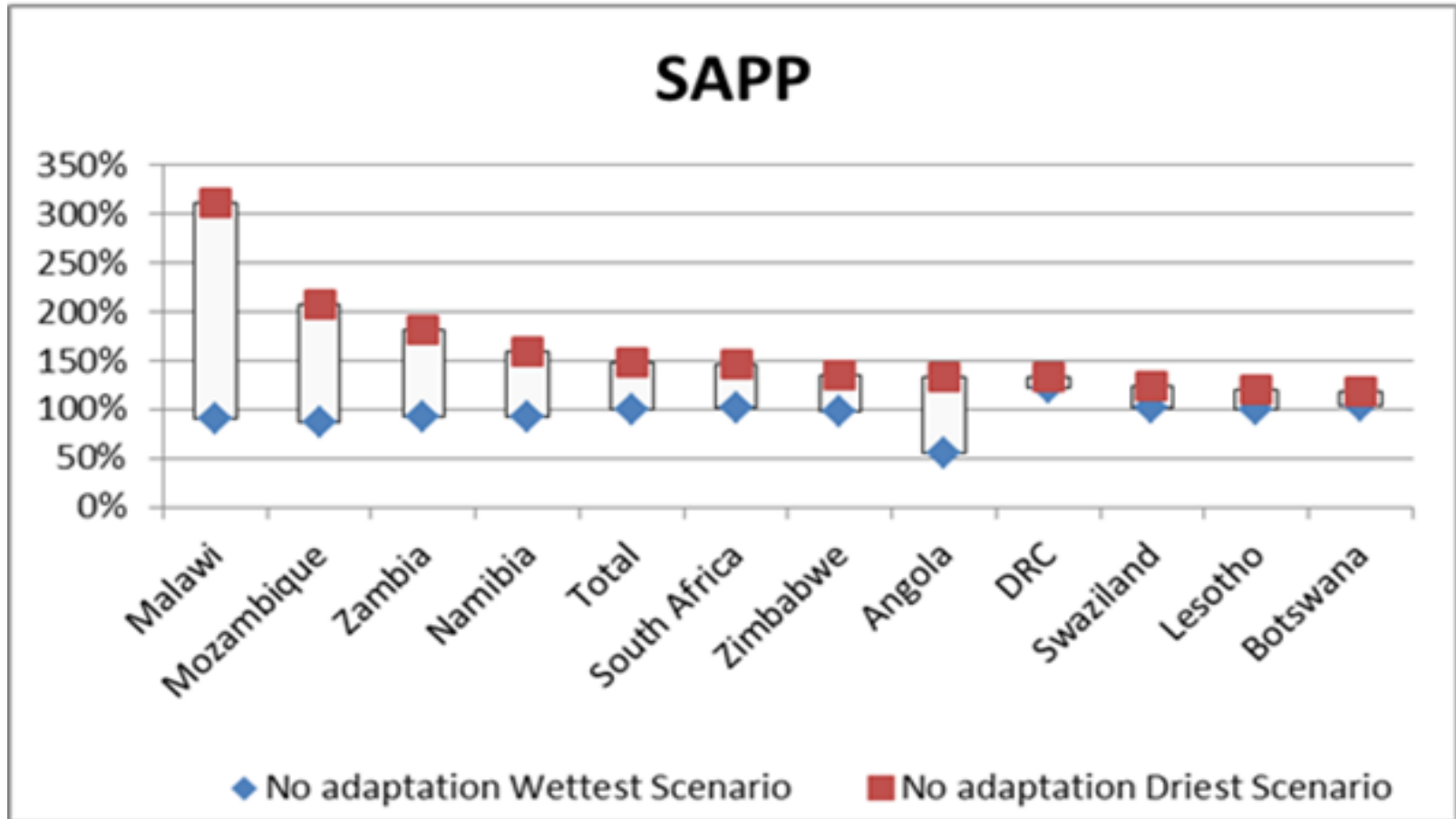
Annex slides

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Ignoring climate change not an option: power..

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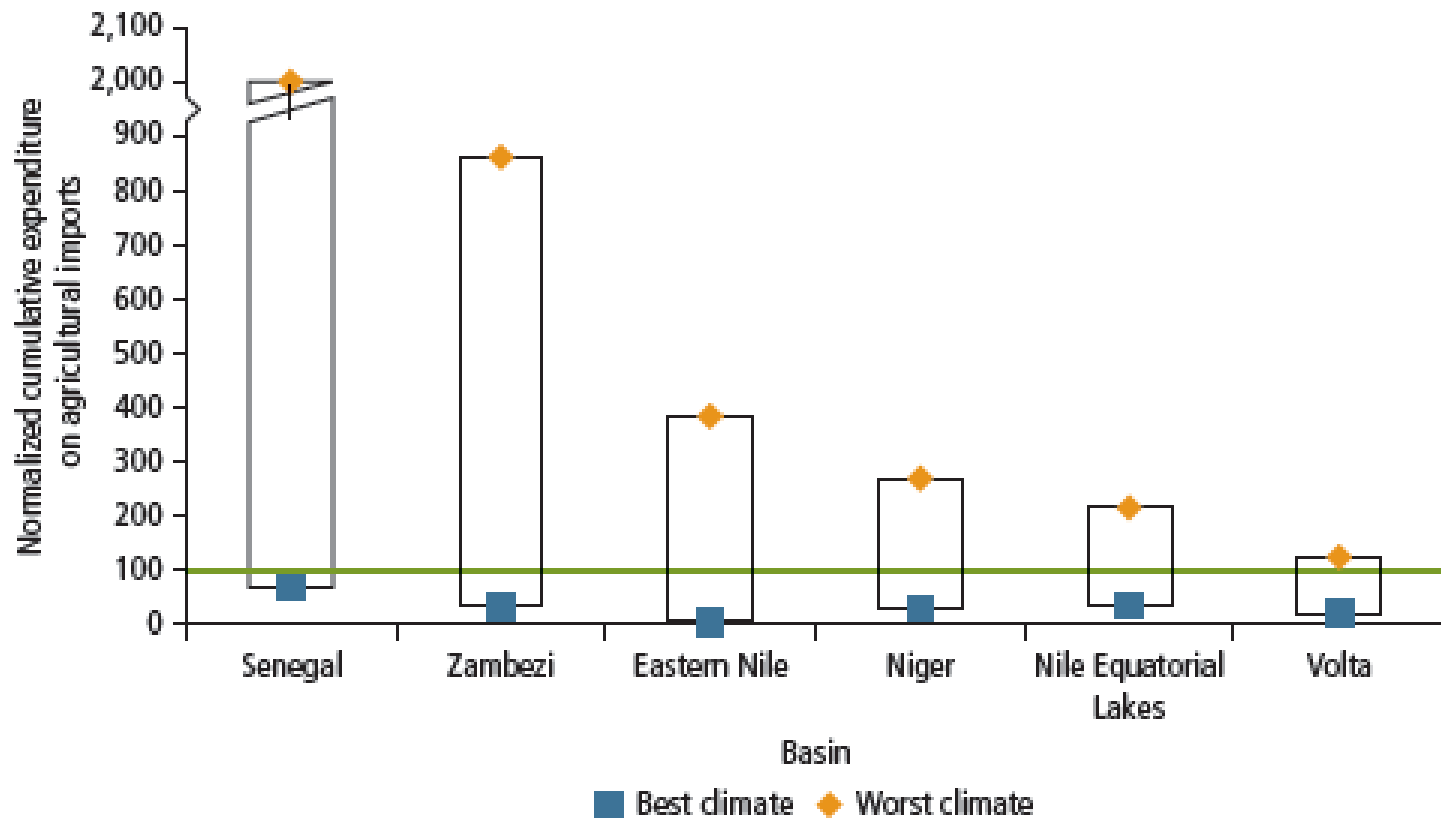
Cumulative consumer expenditure on electricity (no climate change case=100%)



... agriculture...

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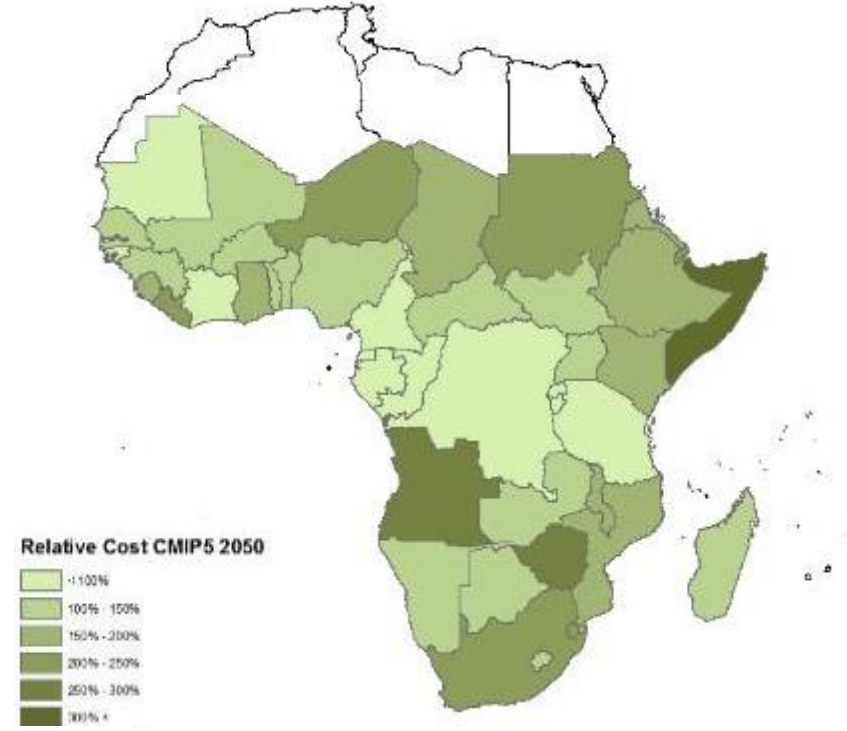
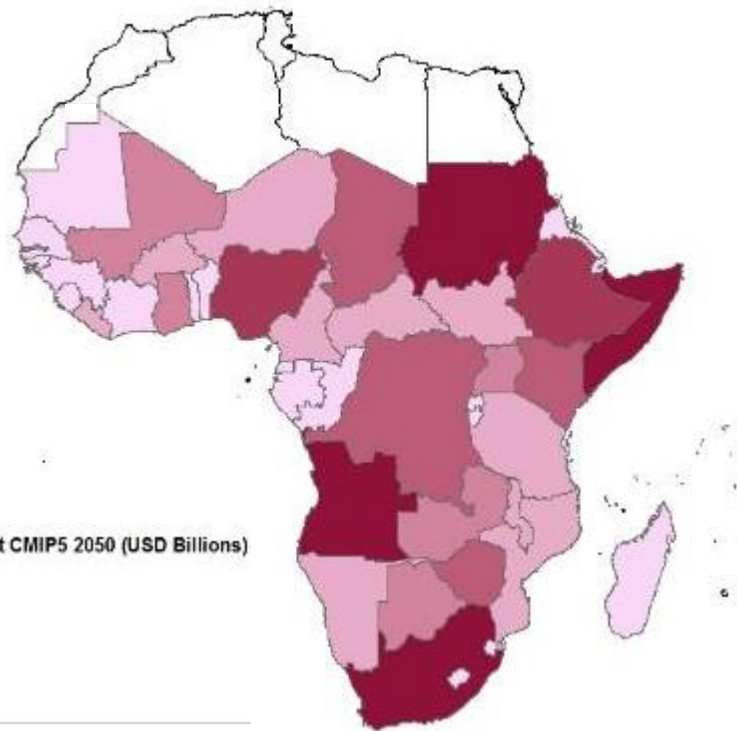
Cumulative expenditure on agriculture imports (no climate change case=100)



..and road transport

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In many countries, high end of climate change impacts is at least a doubling of maintenance/repair cost..

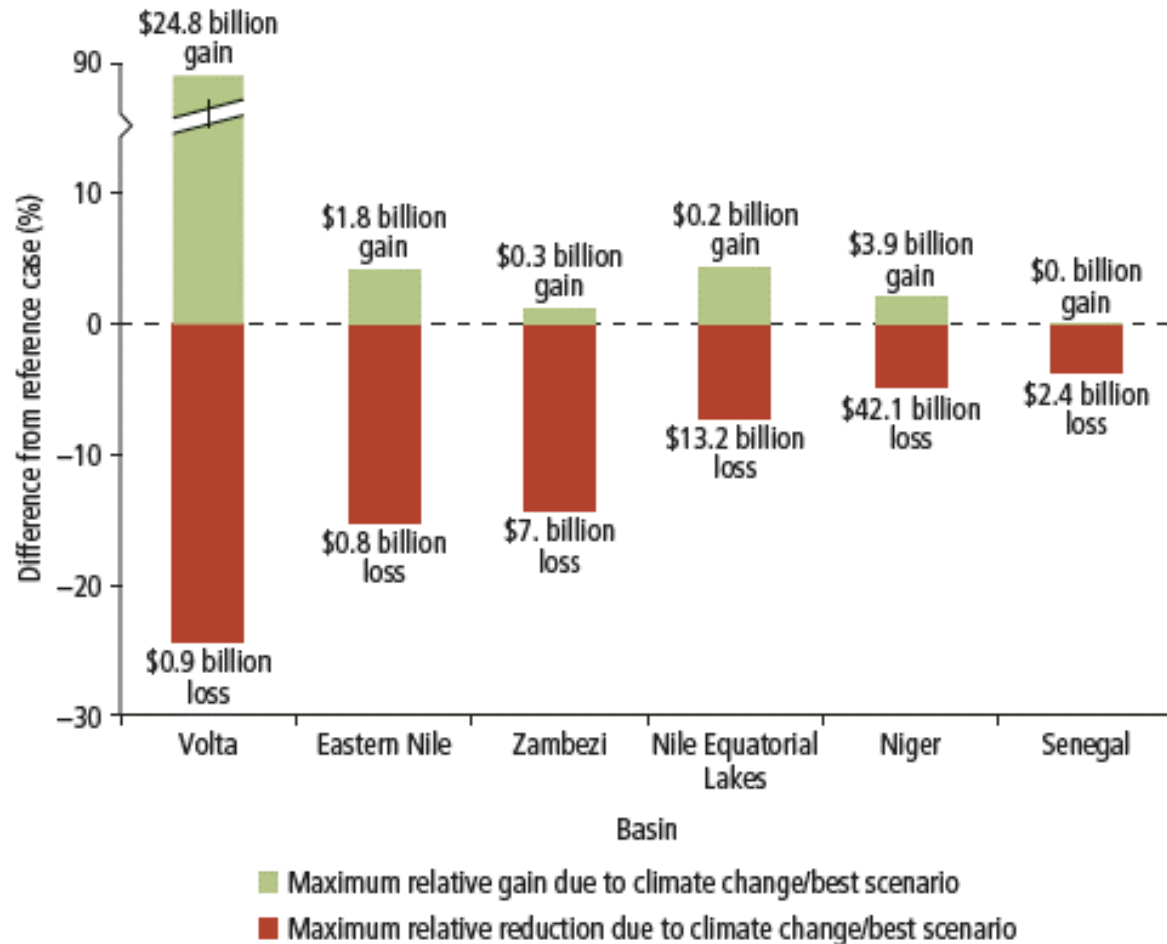


CMIP 5, 95th Percentile of cumulative O/M cost of existing network, 2015-2050

It entails large impacts on hydropower revenues..

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Changes in hydropower revenues from climate change (present value 2015 to 2050)



..but you need three things

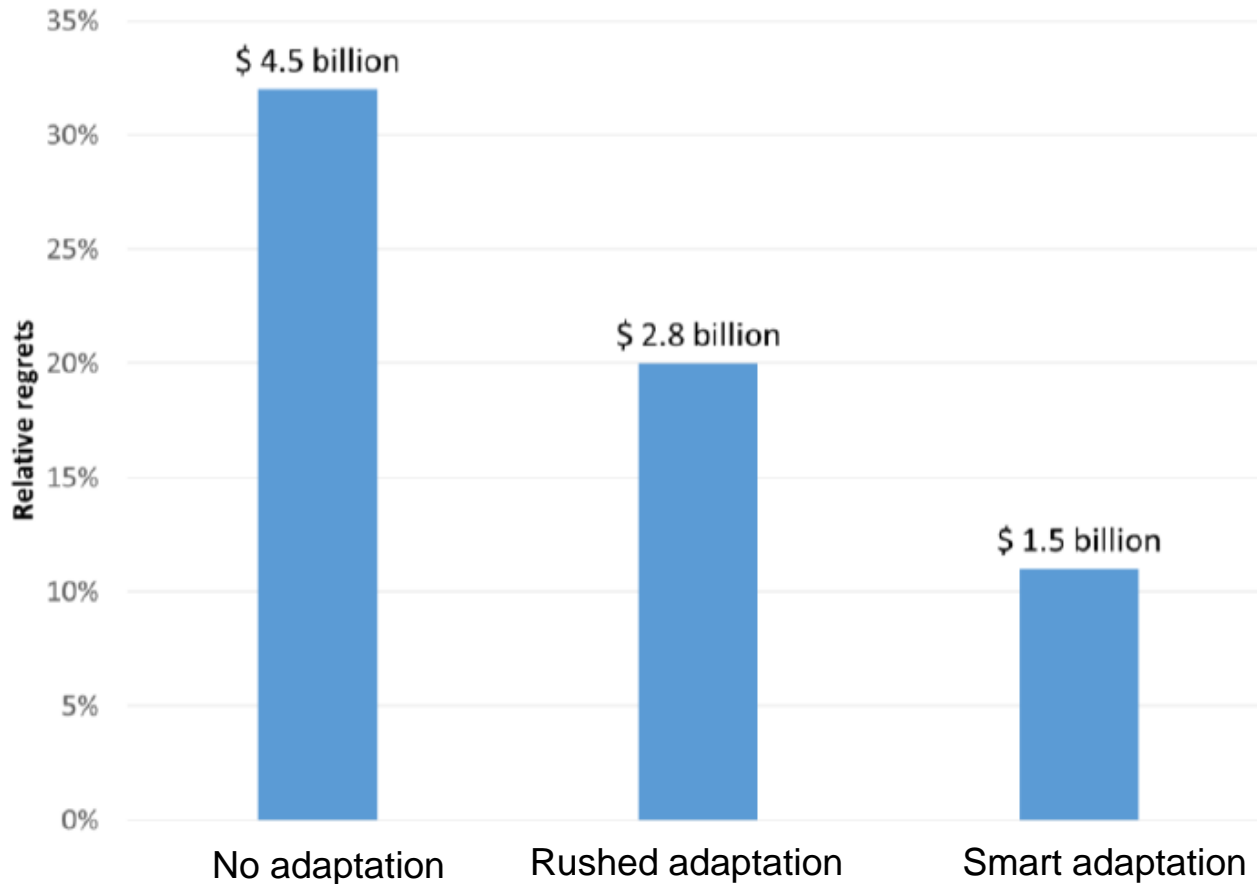
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- 1) An accepted, common framework of analysis
- 2) Tools/ data
- 3) Concrete applications

Smart adaptation can lead to \$ billion of benefits..

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Zambezi: reduction in regrets from adaptation



AFRI-RES Activities

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