Financing Instruments for Climate Resilience in Africa:

The Case of the Nile Basin

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Overview of Presentation

- The Water Situation in Africa
- Case Study: Engagement in the Nile Basin
- New World Bank Financing Instruments
 - (i) The Climate Investment Funds (CIF) and the Pilot Program for Climate Resilience (PPCR)

Example: Niger

- (ii) The Cooperation in International Waters (CIWA) Trust Fund
- Conclusions



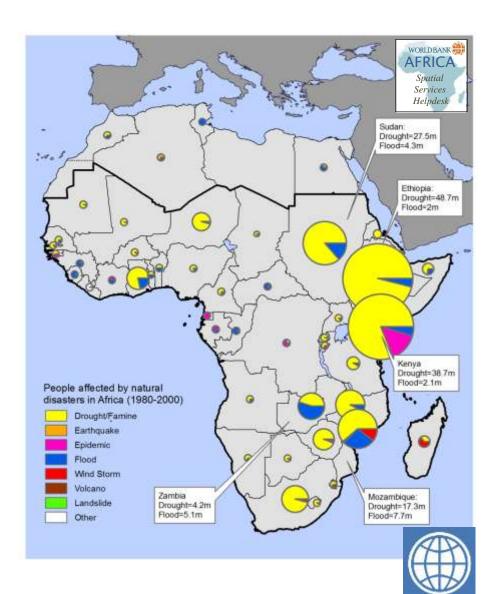
The Water Situation in Africa

- Water is central to Africa's development (food security, energy, human wellbeing and environmental health), but management and development are challenging:
 - Productive use of water is severely under-developed:
 - Only 5% of Africa's cultivated land is irrigated; rain-fed subsistence agriculture sustains majority.
 - Less than 10% of hydropower potential has been tapped (compared to 75% in Europe); ~
 one fifth of population has access to electricity.
 - Almost 40% of Africans do not have access to safe water; even fewer to sanitation.
 - Average storage capacity is only about 200 cubic meters/person/year (compared to nearly 6000 in North America).
 - Twin 'legacies' of very high hydro-climatic variability and risks (across time
 & space) and 60+ rivers that cut across national boundaries.



The Water Situation in Africa (2)

- In challenges lie the opportunities:
 Productive use of water and mitigating climate risks is achievable through cooperative management & development of shared water resources.
- With a changing climate and increasing variability – including extremes of floods and droughts – comes a greater necessity to work cooperatively towards managing risks and building a climate resilient future.

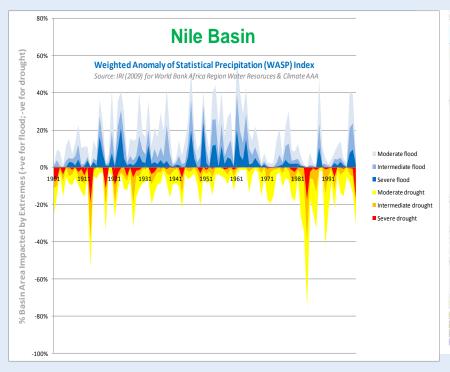


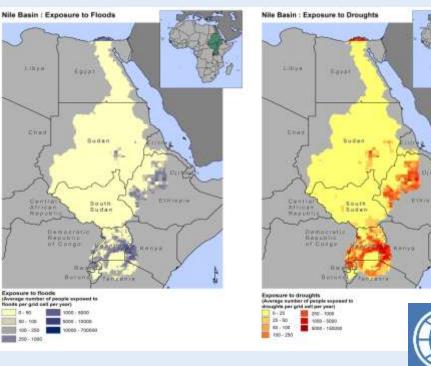
The Nile Basin

- The Nile Basin is already susceptible to climate risks the worst in Africa.
- Floods and droughts routinely cause devastation in the region.
- High spatial and temporal variability is also a challenge for agriculture, water resources management, hydropower generation, etc.

Examples:

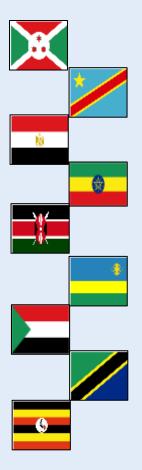
- Kenya: Between 1997 and 2000, floods and droughts were estimated to reduce GDP by 10-16% in each of the three years.
- Ethiopia: Hydrological variability was found to cost the economy 38% of its potential growth rate and cause 25% increase in poverty rates.





New Nile Basin Climate Resilient Growth Program - Introduction

- This new program will support NBI's long-term objectives through its programmatic pillars (cooperation, WRM, WRD), all of which are working towards climate resilient growth
- Two phases of support over 5 years
 - --> First Phase: \$15 m from 2013 to 2015
 - --> Second Phase: \$30 m proposed from 2015-2018
 - --> Financing for all 3 NBI Centers
- Programmatic approach with focus on results and use of performance indicators
 - --> Disbursements are made against results
- Increased country commitment, including financing
- Flexibility given changing context





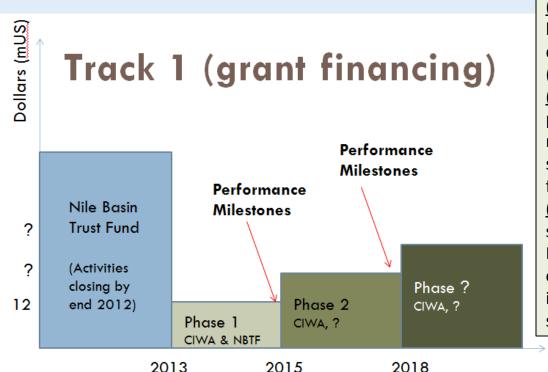
New Nile Basin Climate Resilient Growth Program – Programmatic Approach

- Support elements of NBI's program that also strengthen climate resilience
- Program falls into two tracks:
 - **Track 1: Grant Financing** (Investment preparation, Knowledge Management and Cooperation Services)
 - Track 2: Investment Implementation and detailed project design



New Nile Basin Climate Resilient Growth Program – Results-based Support

- A results based project creates a direct link between disbursement of financial contributions and the achievement of specific results.
- Results can include actions, outputs, and/or outcomes so that funding flows throughout course of project (not only at completion)
- Requires in-depth assessment of client capacity (mgmt., fiduciary, env./social, etc) and action plan (if necessary) to strengthen capacity, as there is less donor oversight than in traditional projects



Proposed Components:

(ii) NELSAP: Advancing investment preparation of hydropower generation, irrigation and watershed development, and undertaking consultations (including regional investment forum).

(iii) ENTRO: Scaling up of watershed management project, development of framework for climateresilient WR planning and development and dam safety; and increasing flood resilience through flood mapping, info mgmt, and training.

(iii) Nile-SEC Improving modeling and knowledge services for IWRM (including dev. of an integrated KM system), operationalization and maintenance of Nile Decision Support System; and delivering improved services for governance bodies and stakeholder to facilitate cooperation.

Years

* CIWA = Cooperation in International Waters Trust Fund

Financing Instruments

- Two new instruments would be available:
- Under the <u>Climate Investment Funds (CIFs)</u>, administrated by the World Bank, new funding instruments are being explored to manage the **complexity and costs** associated with climate resilience and adaptation programs. These include the **Pilot Program for Climate Resilience (PPCR)**.
 - The **PPCR** instrument aims to pilot and demonstrate ways to integrate climate risk and resilience into core development planning and implementation.
 - Strategic Programs for Climate Resilience (SPCRs) help to coordinate PPCR activities; SPCRs developed in AFR so far include those in Niger & Mozambique.
- CIF / SPCRs fund largely Track 2 (Detailed design and project implementation)
 activities
- The <u>Cooperation in International Waters (CIWA) Trust Fund</u>
 New Trust Fund instrument who goal is to to strengthen cooperative management and development of international waters in Africa to facilitate sustainable, climate resilient growth
- CIWA funds largely Track 1 (investment preparation) activities



Mainstreaming new Instruments for Climate Resilience:

Pilot Program for Climate Resilience (PPCR)

Purpose

To help highly vulnerable countries pilot and demonstrate ways to integrate climate risk and resilience into core development planning while complementing other ongoing activities.

Scale

US\$ 992 million in pledges, mainly grants with option to augment with IDA-like/highly concessional resources.

Governance

Sub-Committee: Australia/UK, Bangladesh, Canada, Denmark/Norway, Germany, Jamaica, Japan, Samoa, Tajikistan, USA, Yemen, Zambia, the Adaptation Fund Board + observers (4 civil society, 2 indigenous peoples, 2 private sector, 1 rep. of community dependent on adaptation approaches), GEF, UNDP, UNEP, UNFCCC

Measuring Success

- Increased capacity to integrate climate resilience into development
- Increased awareness of vulnerabilities and potential impacts
- Scaled-up investments for broader interventions and programming
- Improved coordination among stakeholders
- Capture & transfer of lessons learned



Example: Niger SPCR

Context

- Climate is characterized by *high variability* especially in terms of rainfall. Over the past forty years, the country has experienced *seven episodes of droughts*
- Chronic food insecurity affects half of the population and there is a heavy dependence on food aid during major droughts
- During the most recent drought in 2010, agricultural output fell 12% below the average and malnutrition affected 32% of the population
- Drought impacts are exacerbated by the extensive, "low-input", "low-output" agricultural and livestock practices → soils exposed and vulnerable to erosion
- Other climate-related hazards include floods, sandstorms and locust invasions.

For Niger improved climate resilience and improved food security go hand in hand

Activities and Projects Under Niger SPCR

Pillars of the SPCR Investment projects Activities Climate information and forecast Improved mainstreaming of CLIMATE INFORMATION DEVELOPMENT AND climate resilience into poverty Tools of climate and environmental FORECASTING PROJECT(PDIPC) reduction and development resilience for practitioners and policy planning strategies makers Capacity building and communication strategy Support to sustainable land management COMMUNITY ACTION PROJECT FOR CLIMATE **Social protection RESILIENCE (PACR)** Investing in proven and Insurance against climate risks innovative approaches which increase resilience to climate change PROJECT FOR THE MOBILIZATION AND Support to integrated management of **DEVELOPMENT OF WATER RESOURCES** water resources (PROMOVARE) Strategic coordination of the activities **Providing knowledge** of the program management and strategic PACR + PDIPC + PROMOVARE coordination of the program

Knowledge management

The CIWA Trust Fund (1)

- Cooperation in International Waters in Africa (CIWA) Trust Fund has recently been established
 - The objective is to strengthen cooperative management and development of international waters in Africa to facilitate sustainable, climate resilient growth.
 - Can support regional cooperation, upstream technical assistance, pre-investment activities, institutional strengthening, capacity building and knowledge sharing, stakeholder engagement and communication, etc.
- This new instrument can be utilized to support a new generation of climate-related activities in Africa, based on the need, demand, and readiness.
- CIWA is funded through a Multi Donor Trust Fund administered by the World Bank in accordance with its operational procedures.





The CIWA Trust Fund (2)

- **Focus**: CIWA incorporates key current development issues climate change, disaster risk management, etc. and has a clear *Investment Focus*. The program is oriented towards facilitating growth and development that will have real impact on the continent.
- **Long Term Program:** 10 years (2011 2020).
- Funding Available: Initial contributions = \$ 20 M (DFID + DANIDA)
- Rationale: to bring together the experience gained in different river basins into a focused initiative to support cooperation in international waters.
- Immediate beneficiaries: River Basin Organizations (RBOs), riparian governments and Regional Economic Communities (RECs) and other relevant regional agencies.

Conclusions (1)

- The Water Situation in Africa: Twin 'legacies' of (i) very high hydroclimatic variability and risks (across time & space) and (ii) 60+ rivers that cut across national boundaries.
- Urgent needs for financing the continent's water security + adaptation "deficits": There is a need for both "hard" (> \$10 billion/year) and "soft"(>\$1 billion/year) investments.

Case Study: Engagement in the Nile Basin

- The Nile Basin Climate Resilient Growth (NBCRG) program embodies a new approach to support the NBI's long-term objectives that is programmatic, results-oriented, and focuses on select activities that promote climate-resilient growth in the Nile basin.
- The NBCRG program provides grant financing for "**Track 1**" (Investment preparation) activities while "**Track 2**" (Investment Implementation and Detailed Project Design) activities are being picked up by WB and other DPs through more "traditional" funding mechanisms.

Conclusions (2)

- ICA Water Platform, CIF, CIWA, and others are interesting initiatives:
 - •The Climate Investment Fund (CIF), under which the Pilot Program for Climate Resilience (PPCR) supports largely Track 2 Investment implementation and project design activities.
 - The **Cooperation in International Waters (CIWA) Trust Fund** (which supports largely Track 1 Investment preparation activities). -Includes support to the Nile Basin Climate Resilient Growth program
- However: a new generation of Adaptation Financing instruments is needed to respond to the impacts of climate change through significant investment programs



Thank you for your attention.

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