## Financing adaptation in river basins

## Adopting a common language and remembering the fundamentals

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## Questions

- 1. What are existing bottlenecks/challenges hindering water projects getting financed? What are lessons learned, and examples of mechanisms that work in the water sector or elsewhere.
- 2. How could the international institutions scale-up the financing of water projects, ensure financed projects are the ones which contribute most to minimizing water risks, balance mitigation and adaptation and improving access to finance of project owners? and
- 3. What could the water and climate community do to gain attractiveness by IFI's, private financiers and the private sector? Is there a role for project owners, IFIs, governments (central or local), etc.?
- 4. What is needed to improve the financing of measures in transboundary river basins?



## EIB, the EU bank



- Shareholders of EIB are all EU memberstates
- 90% of activity in Europe, 10% outside EU in more than 150 countries
- Annual lending volume: 84 bn€ in 2016

## What can the EIB do? Financing Instruments

The EIB has an extensive range of instruments to finance public and private sectors at investment and sub-investment grades of risk to its disposal. European **EIB lending instrument EIB** special activities Investment For Investment Grade operations For Low and Sub Investment **Grade operations Banks Project Finance** Intermediated **Public Sector Project Finance Equity through** with direct Risk Sharing **Financing Direct Loans Funds** Loans project risk





## EIB in the Water sector: Large volumes & a variety of projects

### The "water bank"

- 300 projects in last
   10 years
- 4 b€ a year
- Avg. 30% of project cost (leverage)





**Delfland Waste Water Treatment Plant (NL)** 

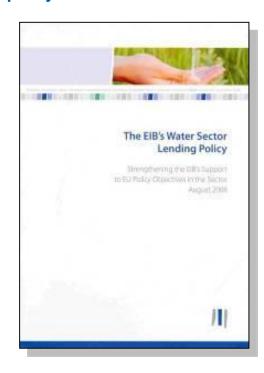


**Dakar Water supply (KMS 3)** 



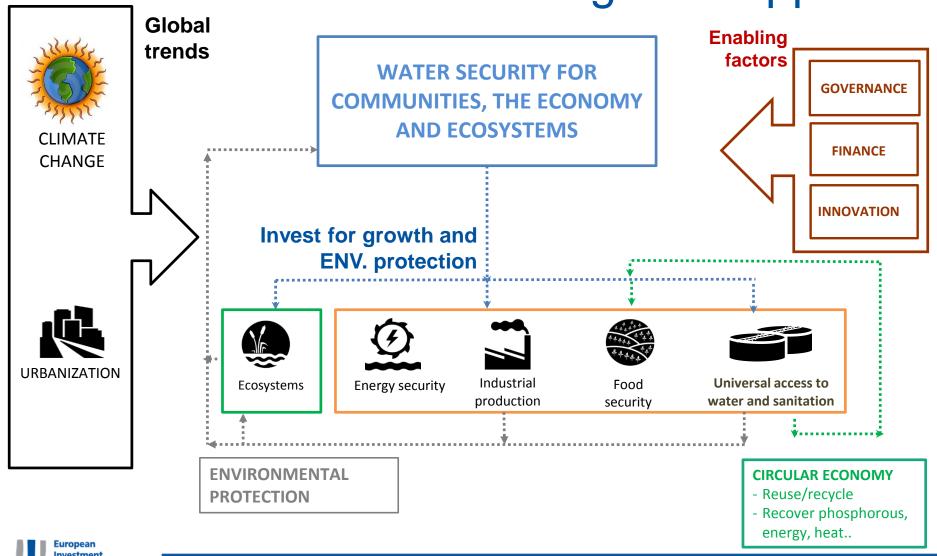
# EIB's 2008 Water Sector Lending Policy

- River basin approach (IWRM)
  - Promote IWRM + water services provision in a project
  - Support transboundary cooperation
- Sector development
- Adaptation to climate change
- Water efficiency
- Development of new water supply
- Wastewater and sanitation services
- Research and Innovation





## EIB and Water Security: An integrated approach

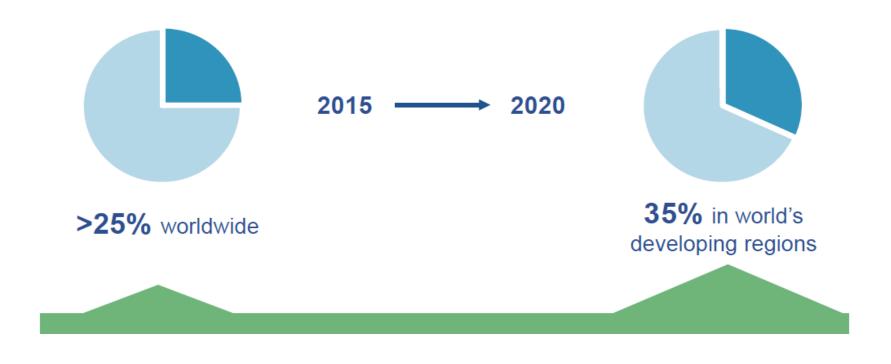


# The largest multilateral provider of climate finance



## Climate Action: Clear commitment, ambitious targets

In the lead up to COP-21, the EIB committed to increase its climate finance for **developing countries** to 35% by 2020.

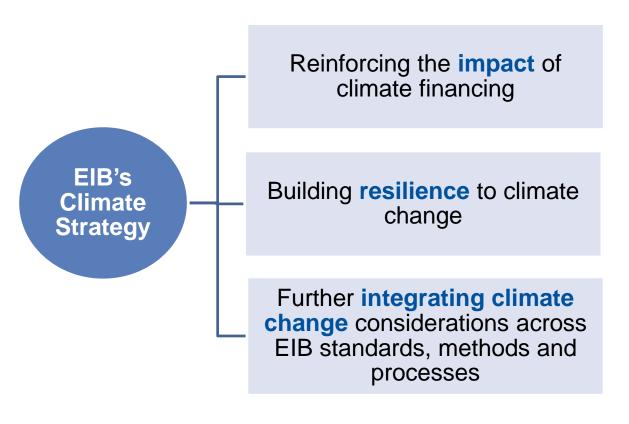


We are increasing our climate commitment:



## **EIB Climate Strategy**

### An integrated vision beyond lending volumes:





European Financing Institutions Working Group on Adaptation to Climate Change (EUFIWACC)



We consider climate change in everything we do



## And yet...

- Adaptation representing only 5-6% of CA total
- Difficulties identifying climate action in water projects
- Limited direct financing of RBOs

### WHY?



# Lost in translation? 1.Adaptation

- What is adaptation?
  - agreed MDB climate action definitions at the basis of climate finance reporting
  - not ALL good water management is adaptation..
- Credible analysis to identify adaptation components
  - Climate risk and vulnerability assessment
  - Appropriate assessment/comparison of hard vs. soft, green-blue vs. grey solutions



## **EIB Climate Action Eligibilities**

### Mitigation – addressing a malicious global problem

- Renewable Energy wind, sun, geothermal, hydro etc.
- Energy Efficiency in buildings, industry, transport, etc. (with thresholds)
- Modal shift in transport to lower carbon modes
- Research & development in EE&RE technologies
- Biological GHG sequestration afforestation and reforestation
- Other GHG reduction (e.g. methane from solid waste, wastewater treatment)

### Adaptation – coping with a wicked local problem

- Intended actions that help cope with <u>specific</u> climate vulnerabilities: answers differ across and within countries → local problem, context-specific solution
- Often changes/modification to projects/systems, i.e. incremental actions or activities -> Climate action <u>components</u>, rarely the whole project
- Sometimes not large amounts BUT crucial for resilience of project or its contribution to resilience of area/community/economy
- Climate Strategy: addressing resilience of everything we finance



### What counts as Climate Action?

Mitigation – Project investment costs directly related to GHG emissions reduction

Adaptation - 3 steps are required to count adaptations as climate Action

1. Setting out the climate vulnerability context of the project.

Nhy?

- Making an explicit statement of intent to address climate vulnerability as part of the project.
  - How?
- 3. Articulating a clear and direct link between the climate vulnerability context and the specific project activities.
- We only count the incremental cost needed to become resilient to future climate change



## **Good practice TA & funding for CDB**





**ACHIEVEMENTS TO DATE** 

THE CARIBBEAN REGION is one of the world's most disasterprone areas and is particularly vulnerable to climate change risks. Some of the key issues for Caribbean countries include rising sea levels, changes in precipitation patterns and the increasing intensity and frequency of hurricanes and other extreme weather events. These have potentially serious adverse environmental, social and economic consequences for the Region.

The Caribbean Development Bank (CDB), with support from the European Investment Bank (EIB), has provided credit lines supporting projects which explicitly address climate actions for mitigation and adaptation.

The CDB-EIB partnership is unique. It includes:

- Making available concessional funding for Climate Action projects at a subsidised rate:
- Providing technical assistance for capacity building of CDB and CDB's borrowing member countries (BMCs) as regards Climate
- Delivering technical support for projects addressing climate change adaptation issues for CDB teams, and for project preparation for BMCs.
- Providing grants for upstream planning and feasibility studies.

2012-2016

**CDB Climate** Action Line of Credit

€50 million

2017-2021

**CDB Climate Action Framework** Loan



The new €100 million Climate Action Framework Loan will continue to build capacity for climate risk management, fully mainstreaming climate change and

and climate resilience projects such as:

#### Climate Action Mitigation

- Energy efficiency
- Renewable energy
- Forestry and lower carbon land use

#### Climate Change Resilience

- Coastal protection

- Other sectors that could have an

#### Climate Resilience Identification Mechanisms

- Climate risk and vulnerability
- National adaptation programmes of
- Nationally determined contributions
- Other national, regional, local or sector resilience assessments



#### PHILIP S.W. GOLDSON HIGHWAY UPGRADING

Total \$29.7 MILLION CALC \$12.5 MILLION

- Protection of highway from increased flooding to reduce congestion, improve climate resilience and improve road safety.
- Enhanced capacity of Ministry of Works and Transport (MWT) to plan and sustainably fund road maintenance.
- Enhanced capacity of MWT and Belizean road contractors to address gender equality and social inclusion in current and future construction projects.

### **BELIZE SOCIAL INVESTMENT FUND**

Total \$10.0 MILLION CALC \$2.5 MILLION

 Increased gender-equitable and inclusive access to climate resilient infrastructure and basic social services for poor and vulnerable communities.









BELIZ

## **Good practice**TA & funding for CDB





### **ACHIEVEMENTS TO DATE**



### WATER

#### WATER SUPPLY IMPROVEMENT

Total \$41.8 MILLION CALC \$12.38 MILLION

SAINT LUCIA

- Climate-resilient water supply systems and operations on New Providence, Andros, Cat Island, Crooked Island, Eleuthera, Long Island, and San Salvador.
- Enhanced institutional capacity of the Water and Sewerage Corporation to mainstream climate change considerations into planning and operations.

### VIEUX FORT WATER SUPPLY REDEVELOPMENT

Total \$19.7 MILLION \$12.0 MILLION

An efficient, reliable, climate-resilient and sustainable supply of potable water to all of

and its environs by December 31, 2018.

JOHN COMPTON DAM REHABILITATION

the residents and businesses of Vieux Fort

518.3

S8.93

- Improved climate resilience of potable water supply to residents and businesses in the north of Saint Lucia.
- Enhanced management and operational capacity of the Water and Sewerage Company in climate resilience planning, financial management and gender inclusion.

#### WATER SUPPLY NETWORK UPGRADI

Total \$44.3 MILLION S2.21



BARBADOS

- Enhanced safety and efficiency of the potable water supply system in Barbados.
- Enhanced water sector planning capacity in the areas of gender inclusion, non-revenue water management and climate resilience mainstreaming.



### RENEWABLE ENERGY/ ENERGY EFFICIENCY

#### 1 MW SOLAR PHOTOVOLTAIC PLANT

**ANGUILLA** 

\$2.3 MILLION \$1.66 MILLION

 Utilisation of renewable energy by Anguilla Electricity Company for electricity production.

#### STREET LIGHT RETROFITTING

Total \$7.9 MILLION \$3.90

- Reduced fossil fuel consumption for street lights and reduced greenhouse gas emissions.
- Enhancement of the Antigua Public
  Utilities Authority's capacity in climate
  change adaptation planning.

### ANTIGUA AND BARBUDA

European Investment Bank Grou

### STREET AND FLOOD LIGHT RETROFITTING PROJEC

\$5.8 MILLION



- Reduced fossil fuel consumption for street lights and greenhouse gas emissions.
- Enhanced capacity of St. Kitts Electricity Company Limited and Nevis Electricity Company Limited in climate resilience planning.

ST. KITTS AND NEVIS

# Lost in translation? 2. Financing

- From plans to investment programmes to actual bankable projects → the fundamentals have not changed!
- We say financing, some hear "grants"
  - We actually need a borrower.. → Limited RBO borrowing capacity (legal impediments, creditworthiness)
  - New philosophy in grant use: mobilization of private finance



### The fundamentals

## A transboundary climate adaptation project is first a project .... for this reason it will require:

- An alignment with some of the bank objectives
- A promoter: the entity that will implement the project and borrow the money => need operational and financial capacity
- A revenue stream: EIB is a bank, when lending money to a promoter it needs to verify that the investment will generate revenues or other sources of funding that make it sustainable
- A sound technical approach: the project design must be based on solid and reliable analysis
- An environmental and social sustainable approach



## **Example:** Investment at Basin level in Spain

- Objective: water cycle / Dam safety / Flood protection / water quality monitoring / Compliance with EU regulation
- Project cost: 1,400 M€
- EIB (700) / Gov. (700)
- Borrower: Gov. of Spain
- Promoter: Ministry of agriculture and environment and interregional Basin organizations.

**Challenge: not possible to lend directly to Basin Organization** 

Gov. of Spain through its ministry is the borrower



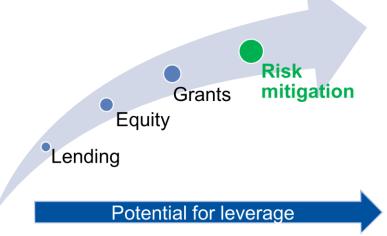


### How "climate people" think about finance



- The bulk of the investment needed to address climate change will have to come from the private sector
- The EIB identifies operations with a high financial impact focusing on:
  - Financial innovation to mobilise private resources.
  - Blending with public funds for de-risking
  - Capital markets investors

Make investing in climate action commercially more attractive and leverage private finance



### How EIB can pave the way for private finance

**Product** 

EIB Examples

**Overview** 

Leverage Potential for Private Sector

Improve bankability of small projects

(ICF supported)

Access to risk protection and financing products for small RE project in Sub-Saharan Africa



**Equity Funds** 

Ginkgo

althelia

ecosphere

Catalyse and leverage additional private investment ("halo effect") and enable investment into new asset classes.



Layered funds

GREEN FOR GROWTH FUND SOUTHEAST EUROPE INVESTING IN ENERGY EFFICIENCY AND RENEWABLE ENERGY

First loss protection for funds focused on specific policy outcome to allow public and private cofinancing



Fund of funds with first loss protection

GEEREF

GUER ENGRY AND REVIEWER ENGRY RAND

Innovative risk water fall for fund of funds focused on RE and EE in emerging markets and economies in transition to attract private coinvestment



Engage Institutional Investors Climate Awareness Bonds 10 year 2007-17

<u>Credit exposure to EIB credit not</u> <u>projects</u>: CABs pari passu with other EIB bonds (AAA rated)



Innovative Use of Bond Proceeds

Madagascar Climate/
Conservation Bond (under development)

Innovative use of bonds proceeds for equity fund investments



## NCFF: An instrument for nature based adaptation solutions

- ➤ A financial instrument blending EIB finance with EC funding under the LIFE programme (EU programme for the environment and climate action)
- Loans plus a grant-based technical assistance component
- Overall size: EUR 100-125 million
- > Target: 9 -12 or more operations in total
- Technical assistance: EUR 10 million in total
- ➤ Pilot phase: 2015 2019



## What is the NCFF?

### **Goal - Natural capital conservation**

Address barriers for revenue-generating/costsaving projects for the conservation of natural capital

- Establish a pipeline of replicable, bankable operations
- Demonstrate to private investors the attractiveness of natural capital projects
- Leverage funding from private investors through the use of EU Funds

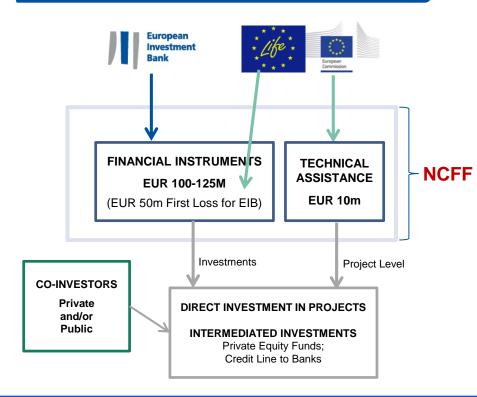
### **Innovative Aspects – Beyond public grants**

- Beyond traditional financing for natural capital projects (i.e. public grants) by promoting market-based instruments
- Maximising the impact of "scarce" public funds (EU LIFE budget) by testing new instruments to mobilise private finance
- Technical assistance for project preparation, implementation, monitoring and evaluation

### **Projects - Use of market-based instruments**

- Payments for ecosystem services
- Green infrastructure projects
- Pro-biodiversity and pro-adaptation businesses
- Projects involving biodiversity offsets

### **Structure**





## Financing: Everyone (still) has a role/responsibility

- Policy-makers: Clear rules, realistic goals, appropriate tools
  - Set up adequate framework; <u>Realistic</u> investment programmes; Clear funding strategy:

Political decisions can't be "outsourced"; Fin. sustainability is a political choice

- Project promoters: Improved planning, project preparation, efficiency, implementation capacity
  - Avoid defining investment in isolation; Improve implementing capacity; Strengthen creditworthiness; Strengthen dialogue with policy-makers and clients

Design bankable projects, efficient implementation and management

- FI Role: Honest broker, targeted grants, effective support
  - > Blend grants/loans for affordable financing package,
  - Generate appropriate risk/return profile to MAX leveraging; Promote viable innovation (incl. financial), scale it up, reduce its transaction costs;

Be a reliable, effective and innovative (as relevant) partner.

What about the responsibility of the customer, the citizen? New opportunities may arise in this space...





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