









## FINANCIAL MECHANISMS FOR WATER RESOURCES MANAGEMENT

Regional Seminar on National and Trans-boundary Water Resources Management in Africa.

March 26 – 30, 2012, Accra, Ghana





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#### REGIONAL/BASIN LEVEL NATIONAL LEVEL

- High Political Complexity and Constraints
- Member Contributions-High potential of arrears
- Pooled risks and credit profiles of member states

- Low Political Complexity and Constraints
- National appropriations
   and municipal contributions
- Sovereign credit profi and risk









- MEMBER ANNUAL CONTRIBUTIONS high arrears, free-riding by some member states
- Funds financing base, legal entity of the fund, fund management, fund administration and fiduciary responsibilities







- Type of Funds:
- Project-based Funds funding based on proposals or project requests from multilateral and bilateral donors
- Investment Funds- Funding base- member states/riparians, donors,, Community levy (Niger River Basin Authority). (a)Pooled investment funds—part grant, part concession lending (b) Capitalization funds—Shareholders. Loan repayment and net income from project.
- Trust Fund. Nile Basin Trust Fund, Trustees EU, Norway, World Bank, Canada. Shared Vision program, Nile Eq. Lake (NELSAP)
- Endowment Fund generation of investment income from capital pool/seed funding invested in perpetuity. Disbursement capacity depended on balance between investment income and inflation. Example, Great Lakes Protection Fund \$103 million. \$2.5 million in

2010 investment income (2.4%).



- Revolving Funds Initial capital, augmented by revenues from charges, fees, fines, taxes, loan repayments. Disbursement capacity grows overtime due to increasing asset base. Example Vietnam Water and Sanitation Revolving Fund
- Sinking Funds Significant initial investment contribution (principal or capital base). Entire capital base and investment income disbursed over a period of time (such as 15 20 years). Disbursement capacity declines overtime.
- Mixed Funds Could be single or separate account with both capital and investment portions. Investment –usually from endowment, grant, concession lending, or project income. Very flexible arrangements with multi-donors. ORASECOME considering option?

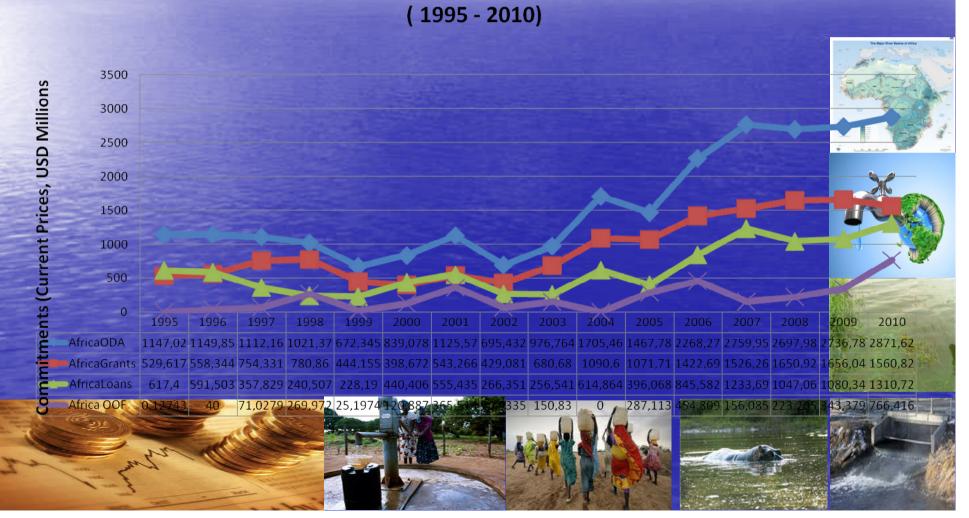


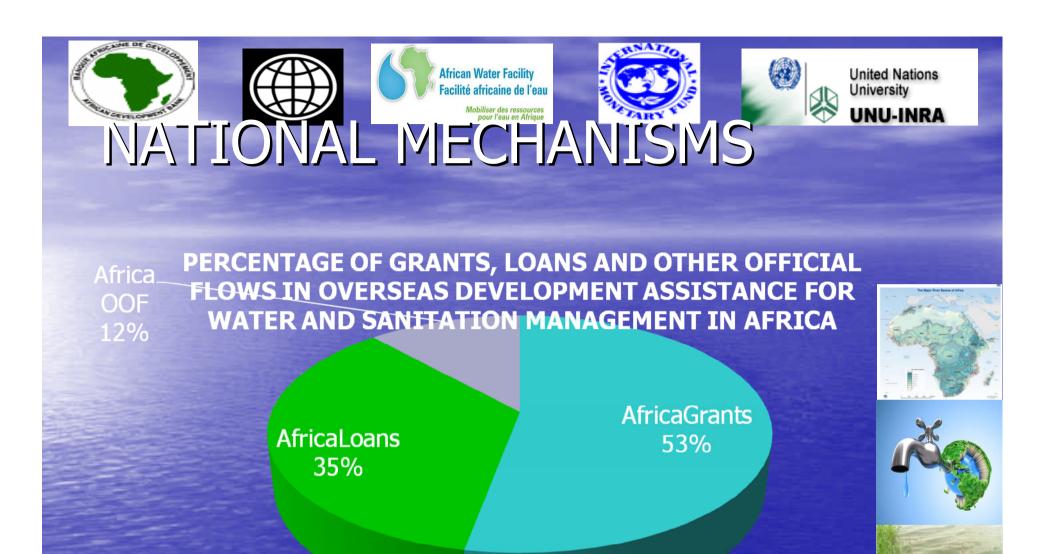






Composition and Trends in Overseas Development Assistance for Water Resources and Sanitation Management in Africa (1995 - 2010)





Source: OECD Development Assistance and Creditor Reporting Database System.



PERCENTAGE OF GRANTS, LOANS AND OTHER OFFICIAL FLOWS IN OVERSEAS DEVELOPMENT ASSISTANCE FOR WATER AND SANITATION MANAGEMENT IN SOUTH America Grants AMERICA.

9%

South America OOF 76% South America Loans 15%



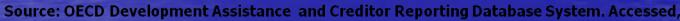


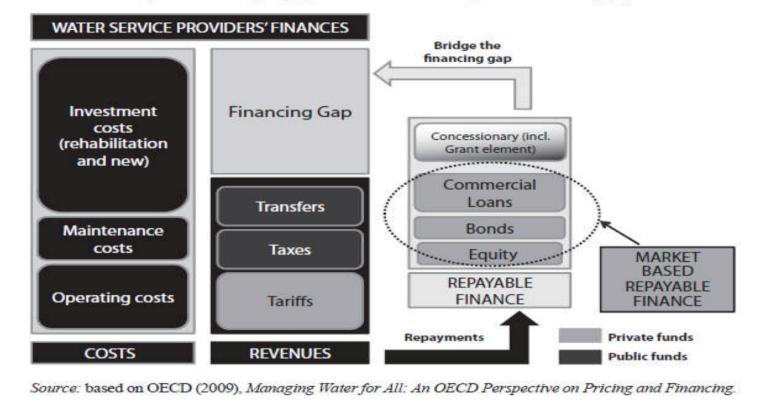








Figure 1.1. Using repayable finance to bridge the financing gap







#### Financing issues

- Level of operation
- Degree of Corporatisation
- Ownership
- Creditworthiness

#### Considerations

- Municipal (s) or national.
- Special purpose entity, municipal; or state department
- Public or public-private
- Sovereign credit risks profile and cost-recovery profile of project







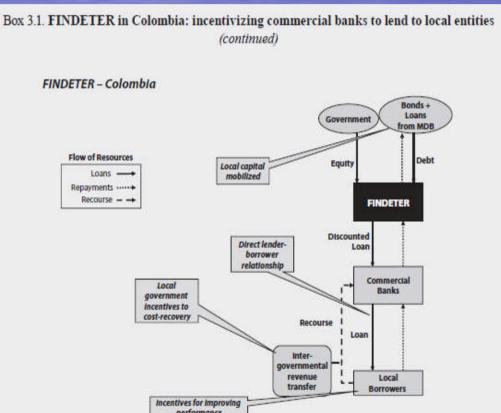


- Debt Finance Sovereign or municipal bonds issued through capital market, loans from commercial banks and project finance.
- Johannesburg City Bond
- Issued a 12-year Rand-denominated bond (USD 150 million).
- Part for city water infrastructure and supply development projects.
- Problems credit rating and term of bond beyond 6 years.
- External Credit Enhancement -Partial credit guarantee from International Finance Corporation raised its credit rating for the bond from A- to AA in the Fitch credit scale.





- FINDETER –established by the Columbian government in 1989.
- Sovernment owns 90% and local governments own the 10%
- FINDETER enhanced commercial banks (CBs) lending to municipalities.
- CBs lend to locals and FINDETER lends to CB at a discounted rate.
- Water and sanitation investments about 25%















- Equity Finance –
  Listed
  instruments
  through capital
  markets and
  non-listed
  through private
  equity funds and
  corporate
  investors.
- SABESP, Listed on the Sao Paulo and New York Stock Exchange (NYSE).
  - Provides water and sanitation services in Sao Paulo. State owns 53% of shares.
- Issued shares in 1997; Began trading American Depository Shares on NYSE in May 2002.
- Issued Eurobonds in 2003 and 2006 for a total of USD 238 million.
- Paid USD 1.63 billion in dividends over the last ten years.





- National utility company SONEES in Senegal was split into three entities- ONAS, SDE and SONES in 1995.
- Commercial bank loan of USD 21.4 million from Citibank and Companie Bancaire de l'Afrique Occidentale (CBAO). 10% at 6 yrs
- World Bank (60%) and KfW (50%) of debt transferred as equity from state to SONESreduced the pressure from debt servicing.





SDE-Private company operates and provides water services

SONES- Water Asset-holding company, Manages assets.



















#### NEXT STEPS -

- GROUP SESSIONS. share experiences, best practices and explore new innovative financing mechanisms for WRM.
- COUNTRY LEVEL (GROUP 1)
- ❖ BASIN LEVEL (GROUP 2)
- REGIONAL LEVEL (GROUP 3) -

Funds- financing base, legal entity of the fund, fund management, fund administration and fiduciary responsibilities. PPPs, International Financial mechanisms and Type II partnership funding.

- For Country Level- Level of operation, Degree of Corporatisation, Ownership, Creditworthiness, investment type (debt or equity or blend).
- PRESENTATION ON OUTCOMES OF THE GROUP @ 16:00











## THANK YOU















#### **Key Issues Discussed**

A summary of the issues discussed relating in particular to the tools of integrated water resources management (notably ....

- Notes
- Notes

















#### **Challenges (National Level)**

What are the constraints and difficulties confronting the management of water resources (at the national level) with respect to capacity building, monitoring, socio-economic activities, policy etc

- Notes
- Notes





















## **Challenges (Regional Level)**

What are the constraints and difficulties confronting the management of water resources (at the regional level) with respect to capacity building, monitoring, socioeconomic activities, policy etc

- Notes
- Notes





















# Important Milestones Achieved (National Level)

Indicate the successes achieved so far (in IWRM) at the national level and the implications it has for the management of river basins in other parts of Africa

- Notes
- Notes

















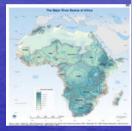




# Important Milestones Achieved (Regional Level)

Indicate the successes achieved so far (in IWRM) at the regional level and the implications it has for the management of river basins in other parts of Africa

- Notes
- Notes

















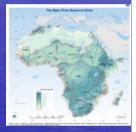




### **Climate Change Mitigative Measures**

What has been the impact of climate change on the management of water resources in Africa? What steps need to be taken to address them?

- Notes
- Notes





















### **Key Messages & Action Plans**

Highlight the main messages of the presentation and the recommendations arising from the issues discussed.

- Notes
- Notes

