SIDE EVENT

From incubation to financing adaptation: Developing 100 Water & Climate projects for Africa

On the incubation of the ARCC–SRB project for climate change adaptation in the transboundary basin of the Senegal river

March 23, 2022, Dakar

Mr. Nabil BEN KHATRA
OSS Executive Secretary
Since 1992

26 African member countries

- **North Africa**
  Algeria, Egypt, Libya, Morocco and Tunisia

- **West Africa**
  Benin, Burkina Faso, Cape Verde, Ivory Coast, Gambia, Guinea Bissau, Mali, Mauritania, Niger, Nigeria and Senegal

- **Central Africa**
  Cameroon, Central African Republic and Chad

- **East Africa**
  Djibouti, Eritrea, Ethiopia, Kenya, Sudan, Somalia and Uganda

- **7 Northern member countries**:
  Germany, Belgium, Canada, France, Italy, Luxembourg and Switzerland

- **8 African S/R organizations**:
  PAAGGW, LCBC, CEN-SAD, CILSS, CRTEAN, CRU-BN, IGAD and AMU

- **2 partner organizations**:
  FAO and UNCCD

- **3 NGOs (Civil Society)**:
  CARI, ENDA and RESAD
**Support** African member countries in the **sustainable management of natural resources** in a particularly disadvantageous **climate change** context:

- Implementation of multilateral agreements on **desertification**, **biodiversity** and **climate change**
- Promotion of **regional** and **international initiatives** related to Africa's environmental challenges
- Definition of concepts and **alignment of approaches and methodologies** related to Sustainable Land and Water Resources Management (SLWM)

- **North-South-South Partnership Platform**
- **Interface for science-policy linkages**
- **Collaborative instrument made available to countries**
Support Member Countries in the Implementation of their Sustainable Development Policies

• **A scientific and technical program:**

  **INTEGRATED AND COORDINATED MANAGEMENT OF NATURAL RESOURCES**

  **WATER**
  Contribution to satisfying water needs through integrated management tools

  **LAND**
  Sustainable land management and drought impact mitigation

  **BIODIVERSITY**
  Development of biodiversity and ecosystem services assessment tools

  **CLIMATE**
  Strengthening the resilience of populations and ecosystems

• **Cross-cutting programs:**

  Watch and Prospective  Communication and Information  Capacity building
Water in Africa

A continent with significant water resources ...

Groundwater
- 83 Transboundary aquifer systems/World: 608
- 660,000 biillion m³

Surface water
- 80 transboundary river basins/World: 200
- 4,000 billion m³/year

(FAO-AQUASTAT, 2011); (TWAP, 2016)
Water in Africa

... that are vulnerable and unevenly distributed

<table>
<thead>
<tr>
<th>Sub-region</th>
<th>Groundwater (billion m³)</th>
<th>Surface water (billion m³/year)</th>
<th>Total</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Africa</td>
<td>357 355</td>
<td>91</td>
<td>357 446</td>
<td>54%</td>
</tr>
<tr>
<td>West and Central Africa</td>
<td>56 178</td>
<td>943</td>
<td>57 121</td>
<td>9%</td>
</tr>
<tr>
<td>East Africa</td>
<td>47 807</td>
<td>268</td>
<td>48 075</td>
<td>7%</td>
</tr>
<tr>
<td>Equatorial and Southern Africa</td>
<td>198 660</td>
<td>2 698</td>
<td>201 358</td>
<td>30%</td>
</tr>
</tbody>
</table>

(OSS, 2020); (CEDARE/IFAD, 2002)

(University of Melbourne, 2007)
Availability and Access

Rainfall
from less than 100 mm to more than 4000 mm

Water availability (m$^3$/Inhab/year)
countries in a situation of:
• water shortage < 500
  water stress: 500 - 1,000
  water vulnerability: 1,000 - 1,700
  comfort > 1,700

Access to basic services
• Drinking water: 70% of the population
  (90% NA - 65% Sub-Sahara)
• Sanitation: 45% of the population

(Understanding, 2019) ; (WRI, 2019 in WWR, 2021).
Current problems and challenges in the water sector

Increase and intensification of extreme events
- Warming
- Evaporation, evapotranspiration
- Frequency of extreme rainfall events
- Soil and waterways drying and degradation
- Aridification / erosion

Droughts
Floods
Heat waves
Bush fires

High population growth
Limited capacities and means
Governance to be improved

Mitigation and Adaptation
Top priorities for:
- Protecting populations
- Restoring the integrity of the water resource

HUGE FINANCIAL NEEDS
Some adapted answers

**FOOD SECURITY | RICOWAS**

Scaling up climate-resilient rice production in West Africa

**INTEGRATED WATER RESOURCES MANAGEMENT | EURECCCA**

Integrated, Equitable and Sustainable Basin Water Management in Uganda to Strengthen Community Resilience to CC
Some adapted answers

**TRANSBOUNDARY SURFACE WATER MANAGEMENT | ARCC-SRB**

Implementation of an EWS for Strengthening the Resilience of Communities Vulnerable to CC in the Senegal River Basin

**TRANSBOUNDARY GROUNDWATER MANAGEMENT | SMAS**

Sustainable management of the Senegalo-Mauritanian aquifer system to ensure access to water for populations facing climate change in the Senegal River Basin
100 Water and CC incubator projects Initiative

Accelerating and intensifying appropriate answers

Knowledge & Governance

- Promote the exchange of information and best practices
- Encourage concerted management of shared water bodies
- Adapt statutory and institutional frameworks to current contexts
  Mobilizing financial partners to take charge of investment programs in the water sector
THANK YOU FOR YOUR ATTENTION

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