



OBSERVATOIRE DU SAHARA ET DU SAHEL
SAHARA AND SAHEL OBSERVATORY



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



9^{ME} FORUM MONDIAL
DE L'EAU | DAKAR 2022

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

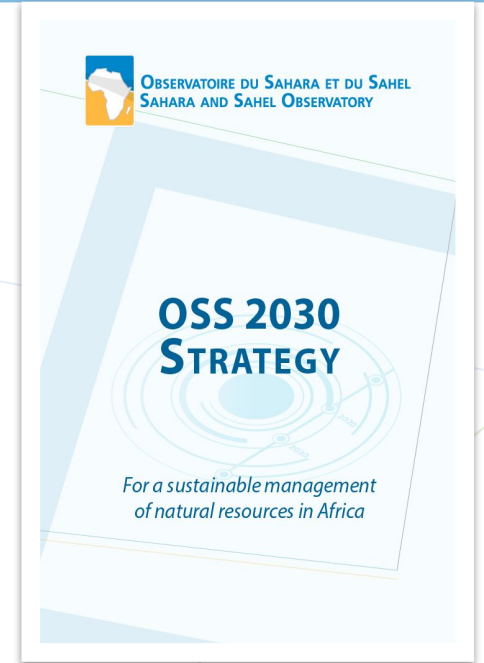
Strengthening the resilience of populations and ecosystems

- Cross-cutting programs :

Watch and Prospective

Communication and Information

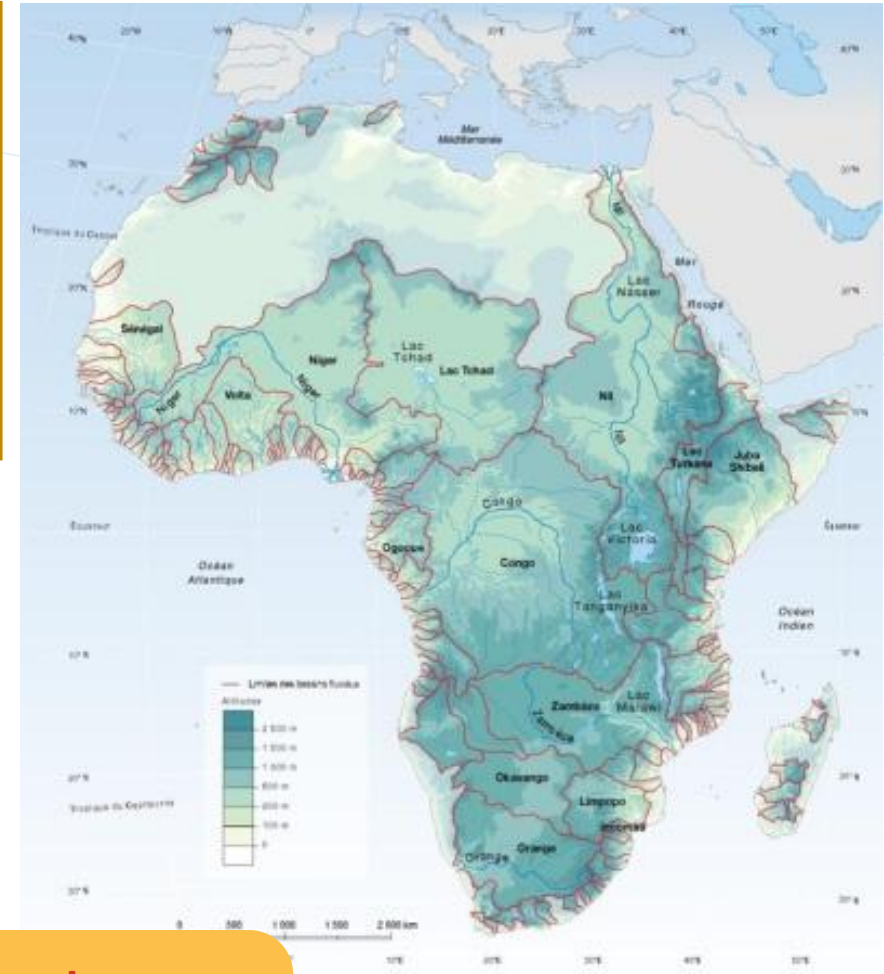
Capacity building



Water in Africa



A continent with significant water resources ...



Groundwater

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

Surface water

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

(FAO-AQUASTAT, 2011) ; (TWAP, 2016)

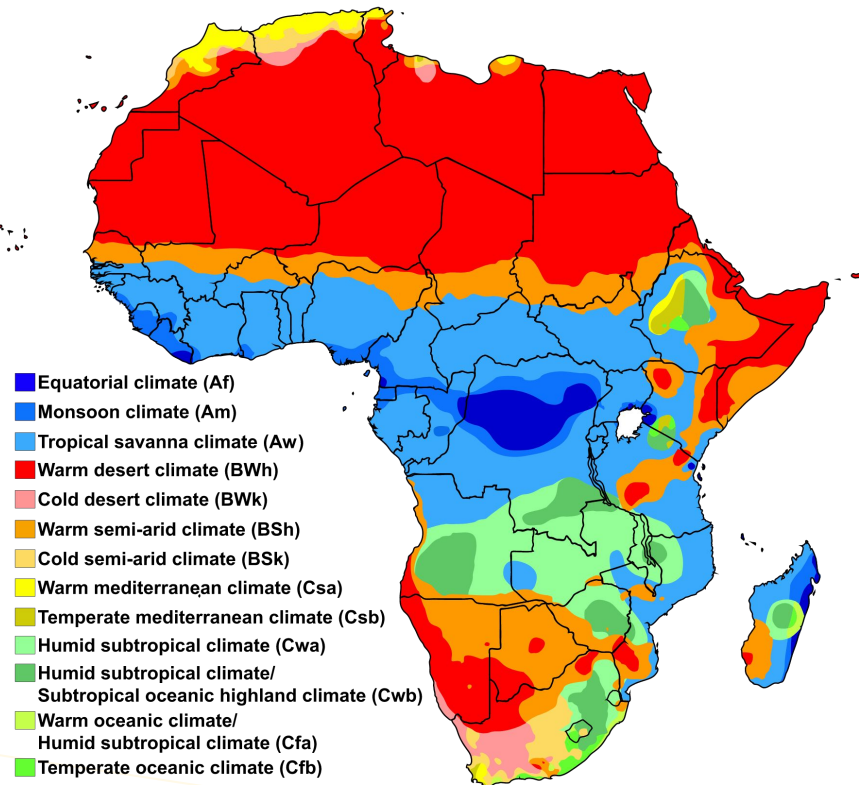


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Water in Africa

... that are vulnerable and unevenly distributed

Africa map of Köppen climate classification



(University of Melbourne, 2007)

Sub-region	Groundwater (billion m ³)	Surface water (billion m ³ /year)	Total	Proportion
North Africa	357 355	91	357 446	54%
West and Central Africa	56 178	943	57 121	9%
East Africa	47 807	268	48 075	7%
Equatorial and Southern Africa	198 660	2 698	201 358	30%

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



Availability and Access

Huge disparity!

Rainfall

from less than 100 mm to more than 4000 mm

Water availability (m³/Inhab/year)

countries in a situation of:

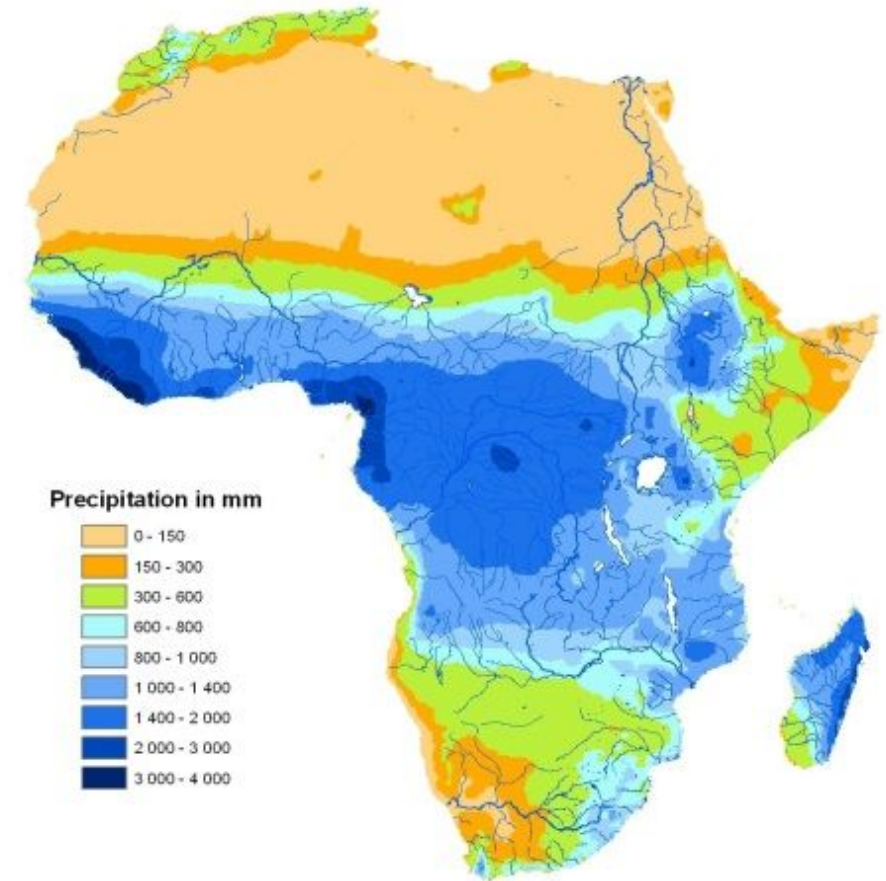
- water shortage < 500
- water stress: 500 -1,000
- water vulnerability: 1,000 - 1,700
- comfort > 1,700

Access to basic services

- Drinking water: 70% of the population
(90% NA - 65% Sub-Sahara)
- Sanitation: 45% of the population

MOYENNE PLUVIOMETRIQUE ANNUELLE MEAN ANNUAL PRECIPITATION

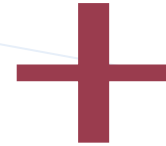
(Réf: UNEP/GRID - IIASA)



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

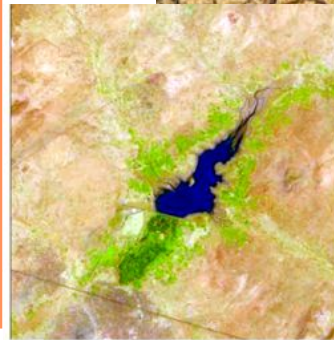


High population growth
Limited capacities and means
Governance to be improved

Mitigation and Adaptation top priorities for:

- Protecting populations
- Restoring the integrity of the water resource

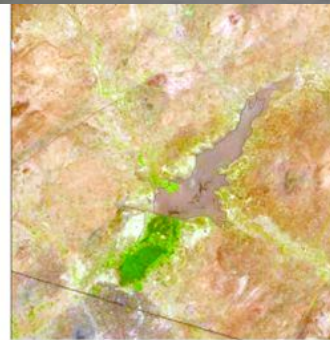
Droughts
Floods
Heat waves
Bush fires



Février 2020



Mars 2020



Avril 2020

**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



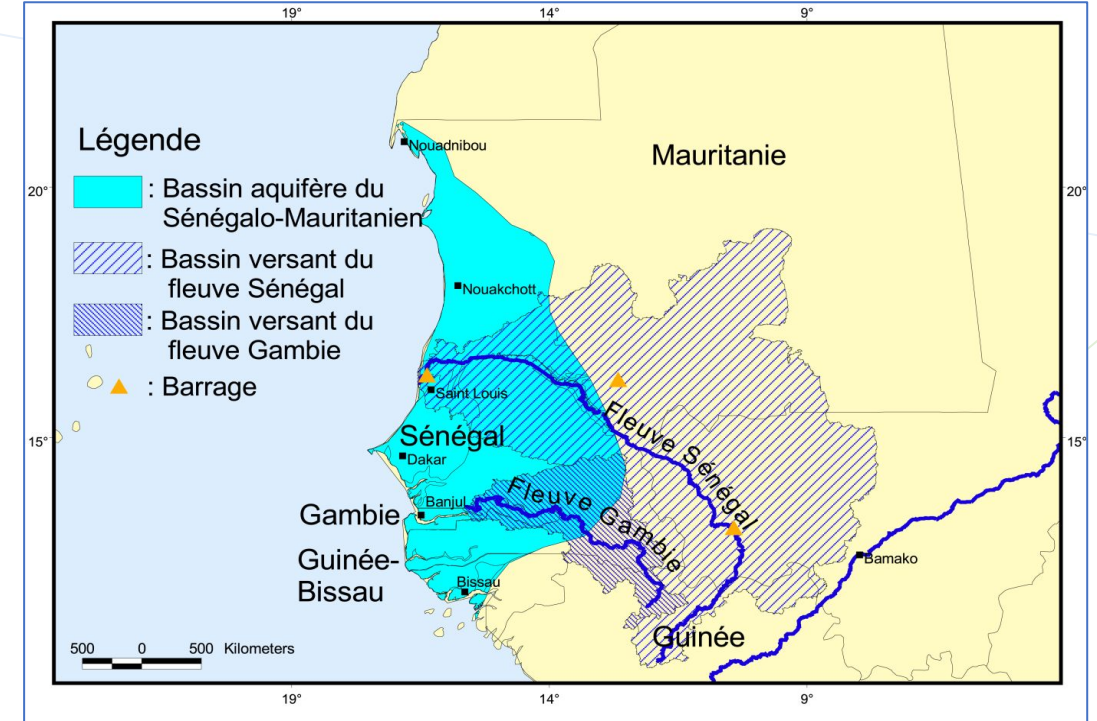
Some adapted answers

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

Key Messages

**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





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THANK YOU FOR YOUR ATTENTION

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