

## The challenges of water in the Sahara and Sahel Observatory area

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# The OSS: AN INTERNATIONAL ORGANIZATION

#### MEMBERS

#### **25 African countries:**

- North Africa: Algeria, Egypt, Libya, Morocco, Tunisia
- West Africa: Benin, Burkina Faso, Cameroon, Cape verde, Côte d'Ivoire, Gambia, Guinea Bissau, Mali, Mauritania, Niger, Nigeria , Senegal, Chad,
- East Africa: Djibouti, Eritrea, Ethiopia, Kenya, Sudan, Somalia, Uganda
- 7 Northern countries :Belgium , Canada, France, Germany, Italy, Luxembourg , Switzerland
- 6 African organizations: UMA, IGAD, CILSS, CEN- SAD, LCBC, PAGGW
- **3 UN partner organizations : UNESCO, FAO, UNCCD**
- **3 NGOs :** Centre d'Actions et de Réalisations Internationales: CARI, Environment Development Action in the Third World (ENDA), Réseau Sahel Désertification (RESAD)

#### Missions

- A North-South-South partnership Platform
- An interface between political and scientific actions
- An instrument made available to member countries



#### Two major lines :

•Water

•Land



### **A VAST TERRITORY, WITH SERIOUS PROBLEMS**









### A BRIEF OVERVIEW OF THE SITUATION





#### THE WATER RESOURCES? ALMOST ALL SHARED



- 10 major catchments
- 12 major trans-boundary aquifer systems





#### SOME FOSSIL WATERS ... SHARED AS WELL



An interesting and important reserve ......

But with fundamental questions related to the "Protection of a heritage", to technical and political consultation mechanisms, to distribution and management (or even transfers) to put in place, to the conditions of a "sustainable" exploitation, and therefore to the hazards of an adventurous exploitation ........ This is already hard for visible superficial resources ......





### The problems have two very different natures So , what solutions???

### For North Africa :

1.We can already act (energetically and quickly !!) to bridge the gaps :

We can earn 10%? 20%? 30 %? by improving the overall management of the networks; In the long run, this will not compensate for population growth if it keeps its current pace (on and on a problem that will have to be seriously addressed one day or anther .....) nor the natural increase in water needs, linked not only to this growth but also to the overall improvement in the living standard.

2. We can mobilize unconventional water resources :

- Desalination of seawater: Yes, but at what cost? In particular that of energy, and surely not a resource to be put in improperly managed networks. And who will pay ?
- Reuse of processed wastewater: with a very strict control over quality . And an intelligent information and a serious awareness of users not always very motivated .....
- Use of fossil water (SASS):a consultation mechanism exists since 2008, between Algeria, Libya and Tunisia

3. It is also necessary to take into account the economic value of water in all sectors of activity, by improving the knowledge of the true cost of water( a lot to do ..), and by introducing an adapted pricing, which reduces (all?) forms of waste.



#### WHAT ABOUT THE SUB-SAHARAN AFRICA?

Water, but no access to it: Lack of funding / energy / political priorities ?? which means that despite water availability, having access to it remains very difficult

#### And therefore: a <u>vital need</u> for additional mobilization of water resources , without which none of the problems of the region will be solved.

NO RESPONSE TO WATER ISSUES WITHOUT AN EFFICIENT AND COORDINATED MANAGEMENT OF GROUNDWATER AND TRANS-BOUNDARY SURFACE WATERS

#### YET, TODAY:

Underground resources are still poorly known and underexploited

- A mechanism is being negotiated for the Iullemeden Taoudeni Tanezrouft Aquifer: Out of the 7 affected countries (Algeria, Benin, Burkina Faso, Mali, Mauritania, Niger and Nigeria), only 4 have signed the Memorandum of Understanding. (Long ...) procedures are in progress.
- A second aquifer mechanism project in the IGAD region is still making its very first steps due to a lack of knowledge





**SO**?

#### HUGE FINANCIAL AND TECHNICAL REQUIREMENTS, BUT FIRST, IT IS NECESSARY TO:

- Improve water governance, in terms of knowledge, strategic choices, efficient management and planning
- Promote the use of renewable energies, less expensive to invest in, but profitable afterwards
- COMMUNICATE MORE AND BETTER WITH POLITICAL ENTITIES, to whom too little summarized and understandable information is provided, to make water more important in agendas, in speeches and above all in facts,
- Keep on establishing effective consultation mechanisms for groundwater.....
- Invest, also and especially, in the current and the future OPERATOR :
  - To whom the national and regional issues will have been explained very early (that is the role of school...)
  - Who has to be trained or prepared to the trades of water by integrating the related disciplines (economy, politics, sociology, culture)



### I know, that's a lot , But we are here to tell the truth.....







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