





Office International de l'Eau International Office for Water

Oficina Internacional del Agua

Công ty cấp thoát Nước Quốc tế

Международное бюро по водным ресурсам



水资源国际办公室





All over the world, we need to BUILD CAPACITIES in water supply and sanitation sectors!



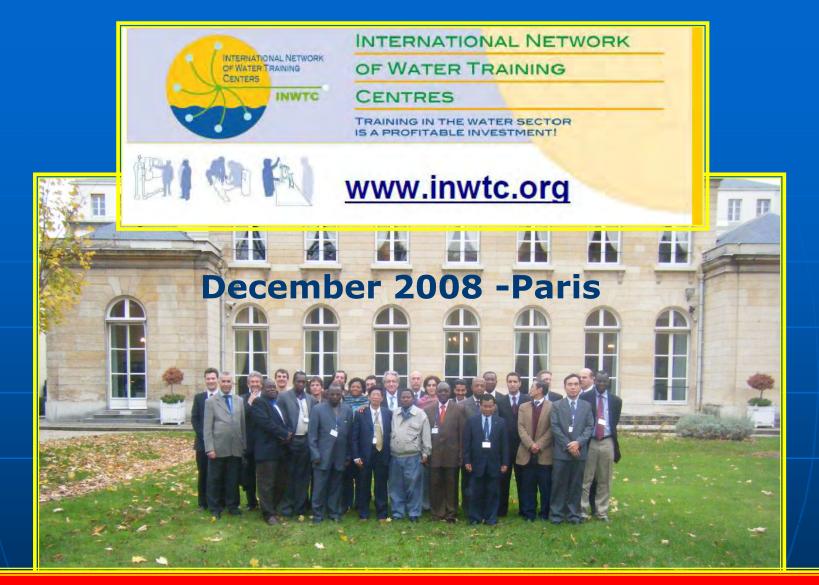
Even though investments are still insufficient to meet the needs of most emerging and developing countries, faced with a serious water crisis, significant funds are spent in the water sector each year...

BUT

These investments do not fully achieve their targets: this is sometimes the result of design faults in infrastructures, but more often due to multiple deficiencies in the way they are managed.

As well as inadequate maintenance and upkeep, vocational skills and capacities in management, operations and maintenance are still insufficiently developed at every level of the water sector work chain, which often results in a swift degradation of infrastructures.

The consequences are serious, because there are severe hold-ups in solving difficulties, resulting in a considerable waste of funds!



16 countries:

Algérie, Benin, Burkina Faso, Kenya, Laos, Mali, Maroc, Pologne, Togo, Tunisie, Ouzbékistan, Viêtnam, France, Liban et Mexique...

International Network of Water Training Centers INWTC – December 2008 -Paris



OBJECTIVES:

- developing appropriate and lasting relations between the interested institutions
- promoting among them the sharing of experience and know-how,
- increasing awareness on the significance of professional training on water in development strategies and programmes
- promoting its account taking by the concerned national and international authorities,
- co-operation and the relationships with the main bilateral and multilateral donors or the international institutions involved in the development of the water sector,
- encouraging the dissemination of good practices and innovations in the vocational training in the water sector,
- promoting innovative training,
- facilitating the development of common tools
- •supporting the development of new water training centres,
- developing a platform for competencies and human resources,
- evaluating the undertaken actions and at disseminating their outcomes.



WATER PROFESSIONS - II -

The best staff structure in the water sector is estimated at:

- 500 to 700 staff members

- * for 1,000,000 inhabitants covered by a water supply service
- * for 1,000,000 inhabitants connected to a sewerage network

- 5 to 8 staff members

* per 1.000.000 m3 used in the other sectors (hydropower, industry, irrigation...)

- 80 % of workers and technicians

15 % of middle managers-foremen5 % of engineers and senior executives



TRAINING FOR WATER PROFESSIONS



VARIOUS SPECIALIZATIONS

- Administration organization
- Financial and economic management
- Project studies Operation management Planning
- Operation and maintenance of facilities
- Organization of information systems
- Environmental protection
 - Environmental impact assessment
 - Ecological balances
 - Relations with the users and the public



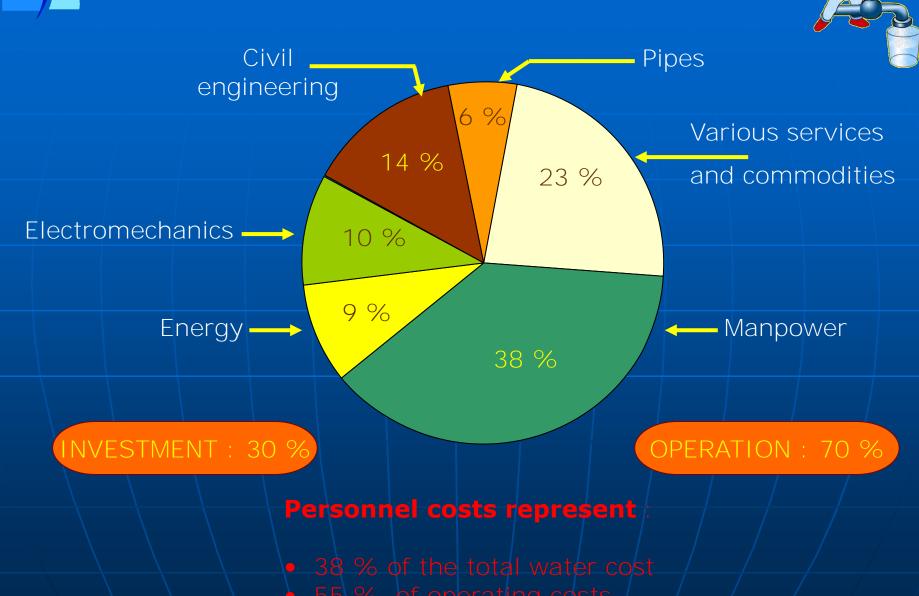
INTEGRATED WATER RESOURCE MANAGEMENT: MAIN BASIC FUNCTIONS



- International agreements
- Legislation Regulations
- Standardization
- Authorizations for abstraction or discharge - Water policing
- Monitoring
- Follow-up of the environment and uses
- Warning and protection
- Planning
- Funding Programming
- Investments
- Operation Maintenance
- Research
- Training
- **Information**



WATER PROFESSIONS - III -



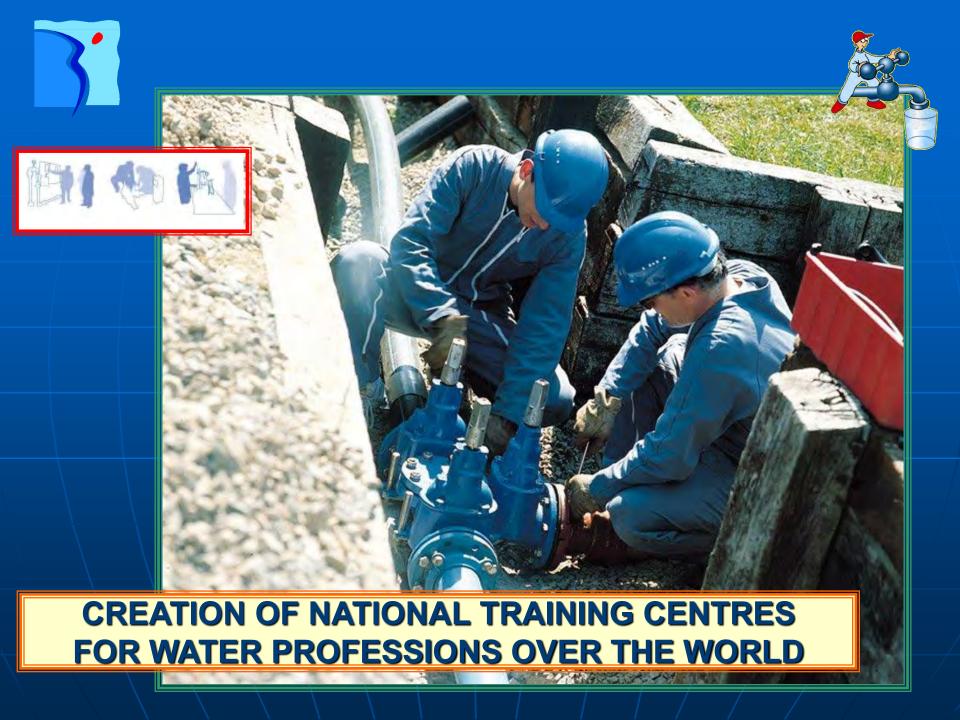


Investing in water training it pays back!





CONTINUED VOCATIONAL TRAINING is a vital tool for boosting the efficiency of water and sanitation services











CREATION OF NATIONAL TRAINING CENTRES FOR WATER PROFESSIONS OVER THE WORLD



FRENCH NWTC

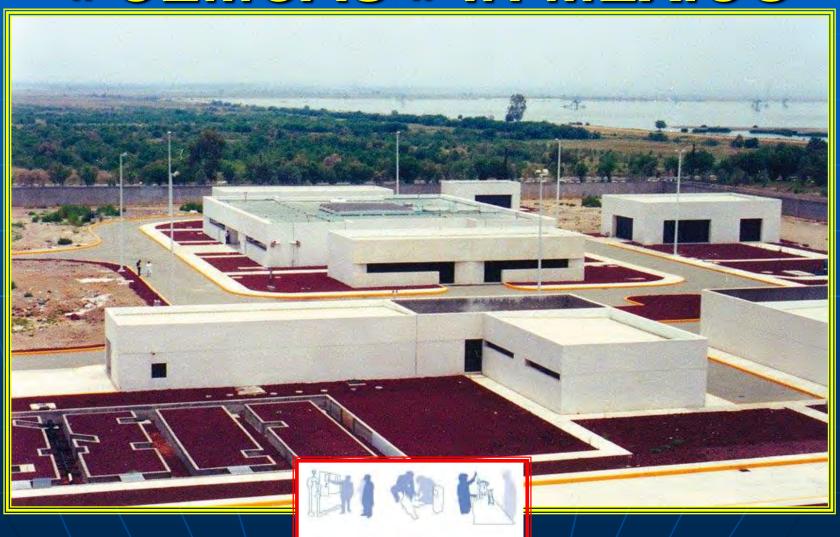




International Office for Water



TRAINING CENTRE « CEMCAS » IN MEXICO





Saudia Arabia









Algéria



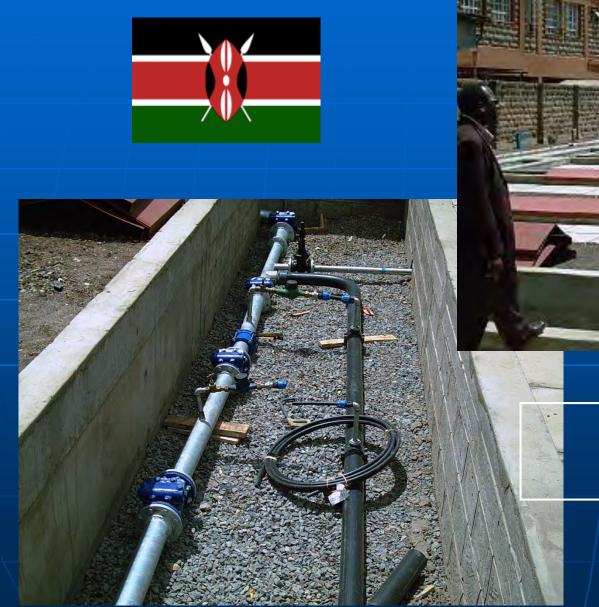




Training platforms: water networks



Training Platforms – Water Networks











Poland







Vocational water training is a job!

 WS utilities have to make use of specialized traning bodies with the appropriate capacities, professional trainers, educational tools, training plateforms....









Training has a cost!!

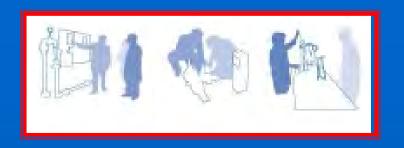


- Vocational training
 is a productive investment
 and should be considered as such
 within development projects.
- WS utilities and donors
 may back water training
 with sustainable financial mecanisms!
- Water training needs long term efforts: It cannot be a one shot action!











www.ricfme.org

THANK YOU

www.inwtc.org



International Office for Water