Education and Training on Water are not Costs but Investments

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General Secretary
International Network of Water Training Centers
Founded in 2008
16 training organizations from 15 countries
Technical secretariat: IOWater
International Office for Water

Capacity building for better water management and adaptation to climate change
Training programs and centers partnership network
Nouveau ! Inscrivez vous avant Juin 2018

DIPLÔME de MANAGER TECHNIQUE
EAU et ASSAINISSEMENT / CHANGEMENT CLIMATIQUE

Master DEVINE
Développement et Ingénierie de l'Eau

à destinations des cadres des pays émergents Francophones

Une collaboration inédite de:
Alarming situation

- 2.1 milliards of people (30% of world population) do not have access to clean water
- 4.5 milliards of people (60% of world population) do not have access to sanitation

- Low investment rhythm in infrastructures partly due to the lack of appropriate water-related skills and capacity ...
- Collateral impacts on
  - quality of infrastructures
  - maintenance processes
  - Life cycles of the infrastructures
  - Quality of the services

➔ Necessity to increase capacity by developing Education and training
➔ Achievements of SDGs 6 (6.1, 6.2 & 6.A) and SDGs 4 and 8
Benefits of Training:
Leakage detection and repairing

- Low training cost (1400 €) / intervention cost on network (1000 €)
- Positive return on investment, if 1 session allows to be more efficient during at least 2 interventions
- Finding and limitation of big leakages more rapidly
- Correct intervention and then no further malfunctions as a consequence of a bad intervention
Benefits of Training: Waste Water Treatment

- **Financial.** Modifying of operation tasks has allowed to reduce the operation cost of 50 000 Euros / year for a training session of which cost was 6 500 Euros (4 days).

- **Energy consumption**
- **Reagents consumption**
- **Treated water quality**
- **Sludge quality and quantity**
- **Staff motivation**
How education and training are not costs but investments...

COD (mg/l)

Training Session

Required Treatment Water Quality
How education and training are not costs but investments...

- Optimize investments in training (to medium and low level staffs)
- Improve and strengthen the level of education
- Enhance the quality and sustainability of water infrastructures and services
- Reduce the cost and price of Water utilities
- Multiple benefits: necessity to develop appropriate funding mechanisms

How education and training are not costs but investments…
Financing sources for education and training on water

Financing sources possibilities

• Financing by % of infrastructure investments
• Financing by water sector administration (State)
• Financing by water utilities budget
• Financing by vocational training fund (general)
• Financing by vocational training fund (water)
Recommendations to develop and reinforce water training

- Increasing the consciousness of training importance during development programs
- Increasing training of workers and intermediate managers: all levels of staff must be involved
- Encouraging best, innovating and appropriate practices of training
Recommendations to develop and reinforce water training

• Financing training owing to a % of investment

• Launching specific training program independently of investment projects

• Promoting specific financial funds at national levels devoted to professionals training
Recommendations to develop and reinforce water training

• Considering training as an essential component of human resource management
• Creating synergies between skills evolution and carrier progression
• Systematically elaborating training program for all categories of staff

Train, retrain and retain !
Suggestion: Use Calibri Light font