

Education and Training on Water are
not Costs but Investments

March 20th, 2018

Dr Eric Tardieu
General Secretary
International Network
of Water Training Centers





Founded in 2008

16 training organizations

from 15 countries

Technical secretariat : IOWater

Algeria

ADE



Benin

SONEB



Burkina Faso

ONEA



Burkina Faso

2iE



France

OIEAU



Kenya

KEWI



Laos

CFME



Lebanon

CIFME



Mali

EDM SA



Morocco

IEA/ ONEP



Mexico

CONAGUA



Uzbekistan

SIC ICWC



Poland

GFW



Togo

TDE



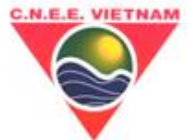
Tunisia

CITET



Vietnam

CNEE



International Office for Water



*International
Office
for Water*



Training

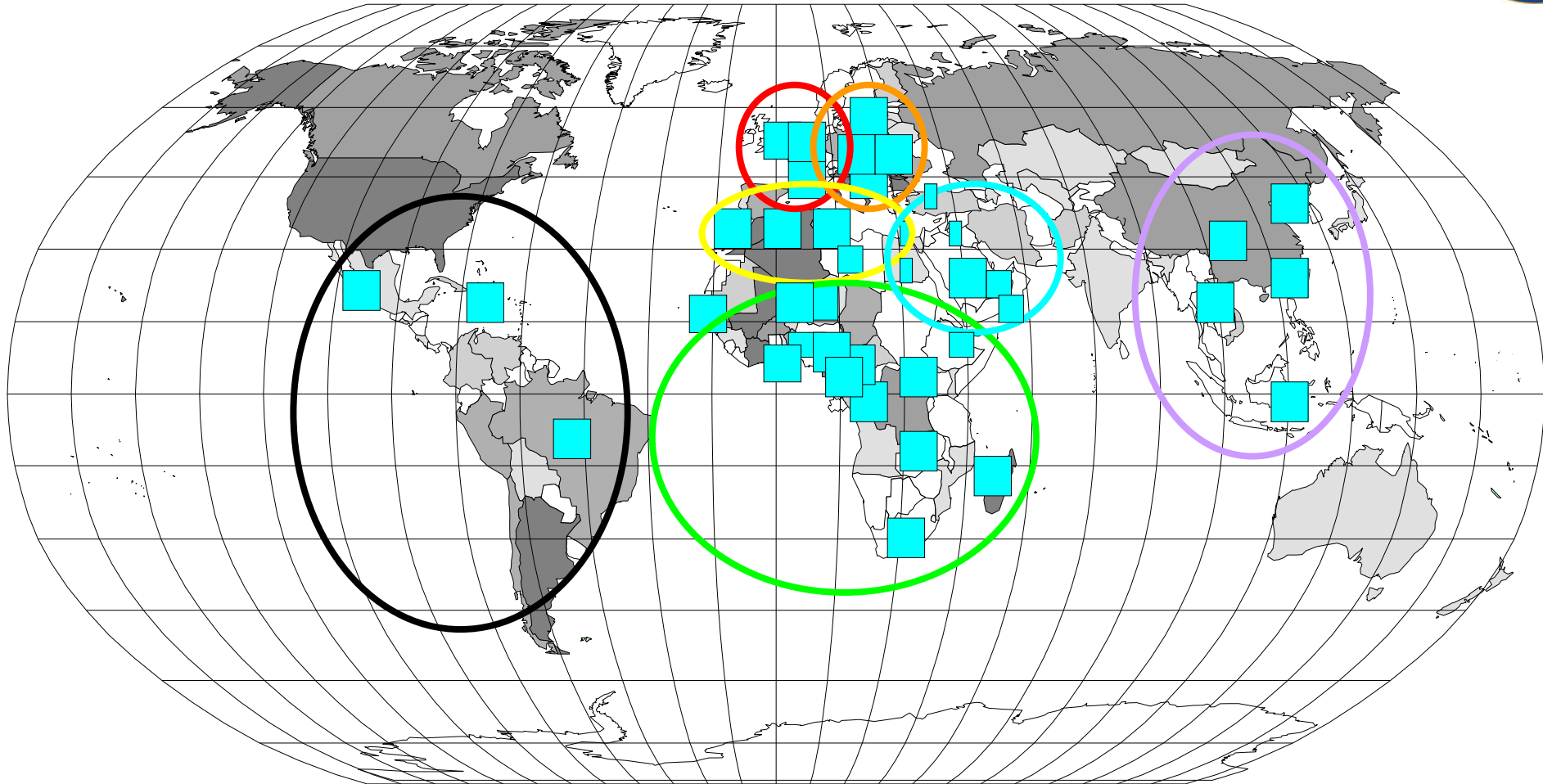
Data & information

**International cooperation
projects**

Developing networks

**Capacity building for better water management and
adaptation to climate change**

Training programs and centers partnership network



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**à destinations des cadres des pays émergents
Francophones**

Une collaboration inédite de:



Office International de l'Eau
Développer les compétences pour mieux gérer l'eau

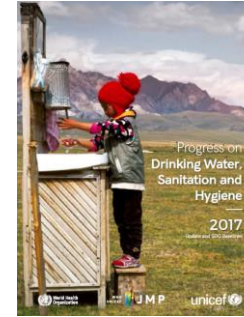


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Alarming situation

- 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 rythm in infrastructures partly due to the lack of appropriate water-r 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**

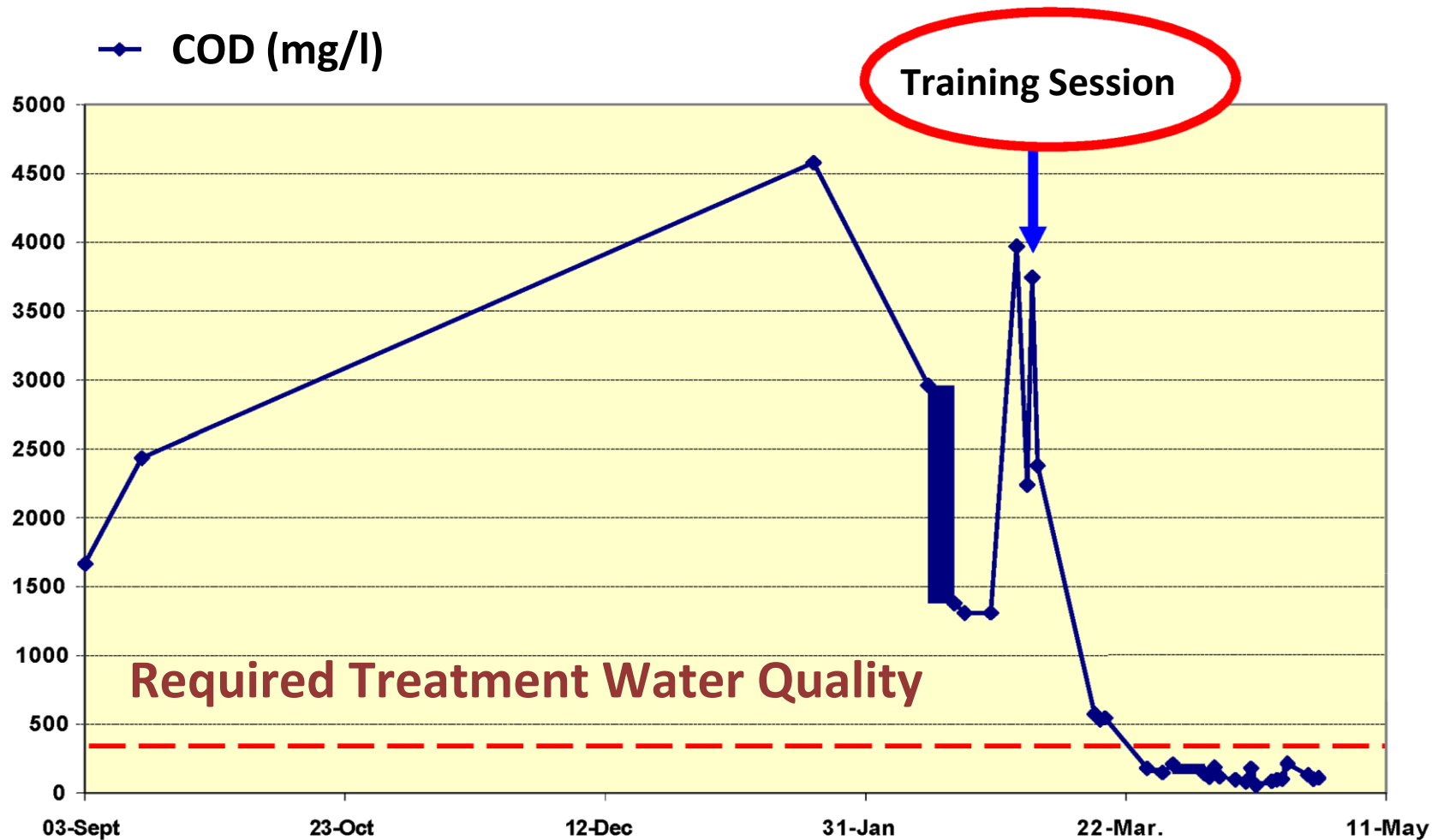


Benefits of Training : Waste Water Treatment

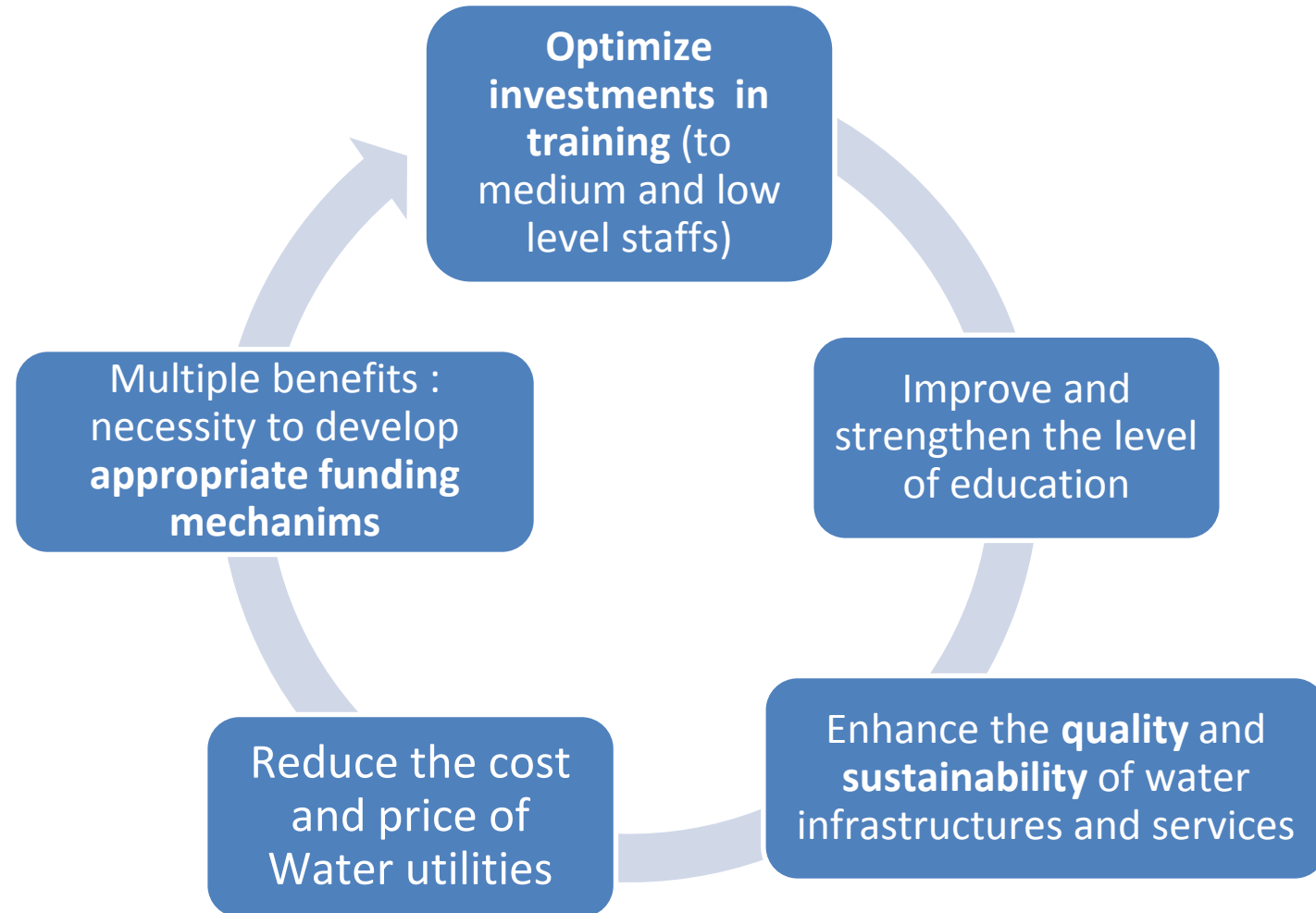
- **Financial. Modifying of operation tasks has allowed to reduce the operation cost of 50 000 Euros / year for a training session of which cost was 6 500 Euros (4 days).**
- - **Energy consumption**
- - **Reagents consumption**
- - **Treated water quality**
- - **Sludge quality and quantity**
- - **Staff motivation**



How education and training are not costs but investments...



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



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- **Enseignement distant de mise à niveau,**
- **Présentiel en France (5mois),**
- **Expérimentation et mise en situation,**
- **Projets et stages encadrés.**

**DEVINE bénéficie des plateformes
pédagogiques et techniques les plus
complètes et vastes d'Europe
développées par l'Office
International de l'Eau.**



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DUREE 1 AN inscription avant juin 2018 / Démarrage Septembre 2018

8th WORLD WATER FORUM | BRASÍLIA-BRASIL, MARCH 18-23, 2018

www.worldwaterforum8.org | secretariat@worldwaterforum8.org

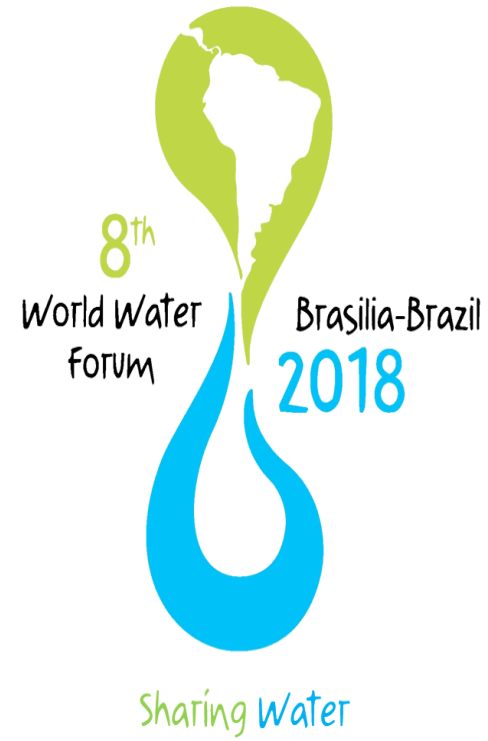
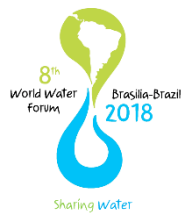
Recommendations to develop and reinforce water training

- 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 !



Organization



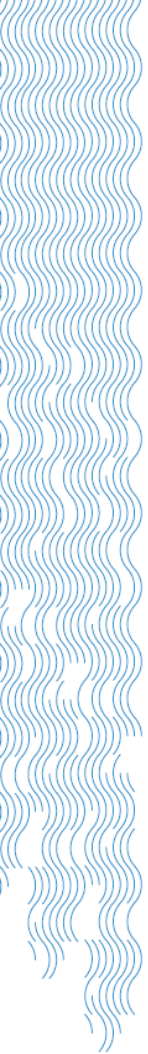
MINISTRY OF THE ENVIRONMENT



Support



Suggestion: Use Calibri Light font



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2018

Sharing Water

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