



The 7th World Water Forum

12-17 April 2015, Daegu-Gyeongbuk, KOREA



AQUA
forMed

Session 4.5.2 :

Financing water professional training to develop competencies: a fruitful economic strategy for water utilities!

Thursday 16 April, 17h-19h

DEC_311, DAEGU – EXCO, 3F Room 325AC

**Vocational training, a fruitful economic strategy:
Contribution of a training center**

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IOWater WTC

French NGO existing since 1977

6 000 trainees / year, 700 training sessions / year

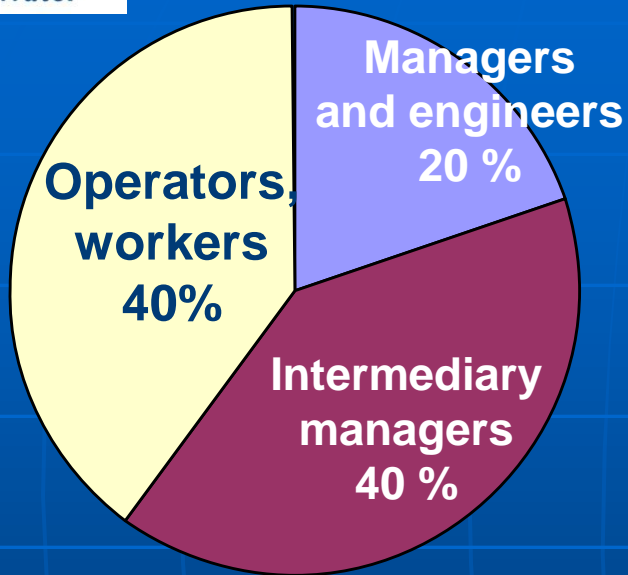
60 permanent staff, 35 permanent trainers, 300 external lecturers

Water, waste water, municipal solid wastes

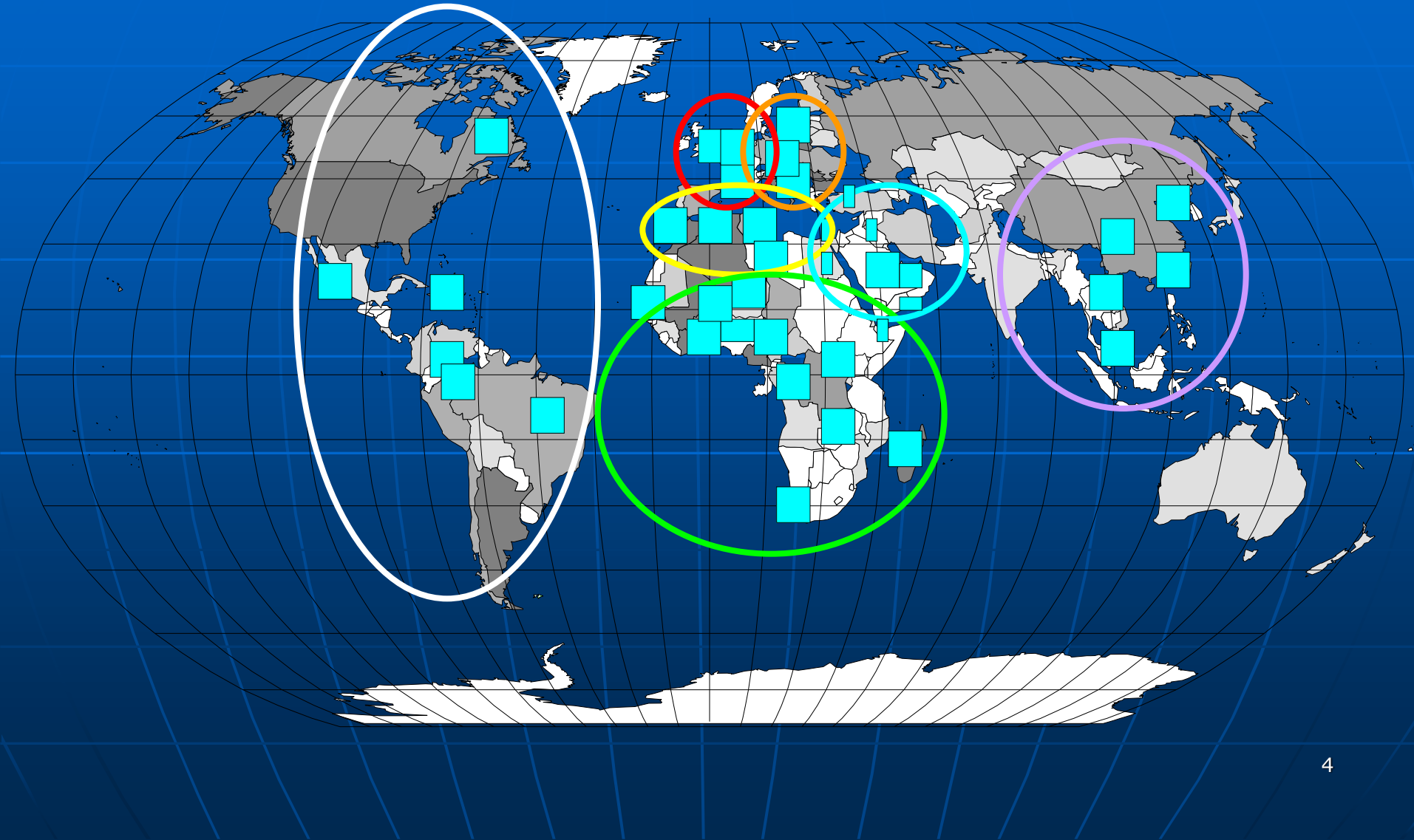
Many pedagogical plate-forms, facilities : show rooms, practical works, malfunctions modeling



Profiles and origins of trainees



A wide experience abroad



Benefits of training

Leakages 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

Difficulty to get good correlation between training realization and some PI (x% of losses / m of network). Difficult to prove directly the training benefits



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

- ...



Possible to get a good correlation, on a single WWTP, between training realization and PI, if no renewing project and no reorganization on existing WWTP during PI measurement period.

Benefits of training

Recommendation :

To generalize more the following of PIs before training and 6 months after training

- For training related to specific tasks and jobs. For example, training « Pipes laying » / PI « Rate of conformity during commissioning tests »
 - On drinking and waste water treatment plants (with malfunctions) if no renewing project and no reorganization on existing TP during PI measurement period

To engage financing funds for this type of study