

MESSAGE FROM THE DIRECTOR-GENERAL



The International Institute for Water and Sanitation -IEA- was created by ONEP (National Office of Potable Water) in June 2008 in order to improve its training system, which was ensured previously by its Training Center (CFTE), with over 30 years of experience. In the same time, a new R&D department was created. This integration of training activities and those related to R&D constitutes a qualitative change in our approach to the capacity development of both HR and the Company.

Aware of that we are dealing with a vital area for human beings and also for our planet in general, it would not have been possible to build a strategy and action plans without a clear vision. This is to give priority to HR capacity building on the one hand, and also consider knowledge in the field of Water and the Environment as humanity's heritage that should be strengthened and shared freely through public and sustainable management.

Accordingly, the IEA main tasks are as follows:

- Training and capacity development of HR, vital capital for the sustainability of investments and management effectiveness.
- Developing water and sanitation services, by directing applied research towards appropriate technologies and practices and adapted management models.
- Support of water operators in Sub-Saharan Africa, through know-how sharing within the framework of North-South-South cooperation and non-for-profit Public-Public Partnerships.

Samir BENSALD



OUR MISSIONS

- Training and capacity development of HR involved in water and environment sector at the national and international levels (Africa, Arab World, ...).
- Applied Research and Knowledge Management in the fields of Water, Sanitation and environment.
- Support and Technical Assistance.



OUR VISION

Giving priority to HR capacity building and contributing to the development of knowledge and know-how in the areas of Water and Environment, based on a holistic and sustainable approach within the framework of a public non-for-profit partnerships.



OUR HISTORY

1978

Birth of the CFTE

The National Office of Potable Water – ONEP - created the Training Center : CFTE

1978 - 1983

Diploma training of technicians in the field of drinking water (2 years university studies)

1983 - 1989

Continuous planned training programs

1989 - 2007

International training actions

2008

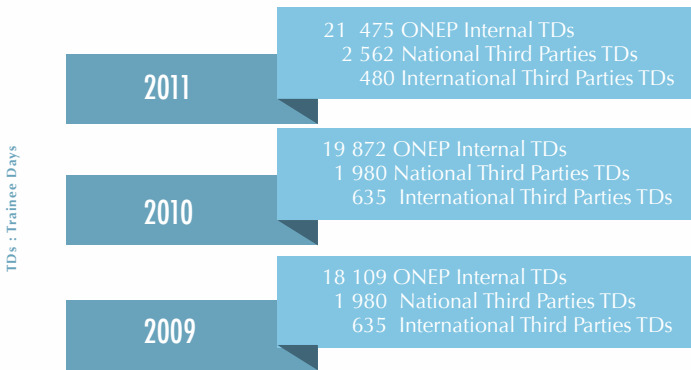
Birth of the IEA

Creation of the IEA by the integration of Training activities (CFTE) with Applied Research.

TRAINING AND CAPACITY BUILDING

The guidelines of the training program offered by the Institute are as follows:

- Skills development within the Office bolstering a multi-year planning process of training;
- Promoting diversified training offer and greater openness to the water and sanitation sector nationally and regionally;
- Internal and external consultancy to identify and propose options to improve performance.



BENEFICIARIES

National

- ONEP's staff
- Local Authorities
- Municipal Utilities
- Micro entreprises
- Water User Associations
- Companies, consultants...etc



International

- Sub-Saharan Africa: Benin, Burkina Faso, Burundi, Cameroon, Djibouti, Gabon, Guinea, Mali, Mauritania, Rwanda, Senegal, Tchad, ...
- Drinking water and sanitation operators from the MENA region.



IEA ACTIVITIES

APPLIED RESEARCH

The R&D feature is meant to develop new products, processes and services, as close as possible to the business needs with permanent concern for technical, economic, environmental and health performance. The objectives are as follows:

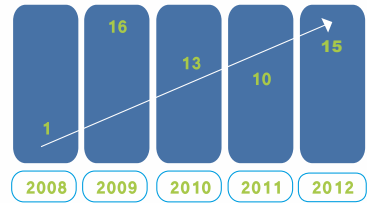
- Improving work procedures and methods;
- Maintaining internal expertise in a watch mode;
- Improving skills development;
- Developing new professions;
- Controlling risks associated with outsourcing;



- Capitalizing on strengths and achievements;
- Developing tailored solutions;
- Cost reduction;
- Sustainable development.

APPLIED RESEARCH PARTNERSHIPS

The IEA conducts these applied research activities in conjunction with national and international academic experts: universities, engineering schools, research centers (55 conventions).



APPLIED RESEARCH PROJECTS

The objectives of applied research projects are to propose effective solutions geared to help solve the major water problems and meet critical challenges such as:

- Supplying drinking water in sufficient and sustainable quantities, at a lower cost, while respecting sustainable development.
- Guiding the choice of nonconventional resources: artificial recharge, sea and brackish water desalination,...
- Providing flexible solutions to collect and treat wastewater for reuse.
- Dealing with natural hazards, mainly floods and droughts in the context of climate change.

Partnership with EMI, Rabat

- Adapting drinking water supply systems to Climate Change.

Partnership with Waternet, Netherlands

- Project setting up a pilot treatment plant of surface water by Ozone.
- Projects on artificial recharge.

Partnership with Ibn Tofall University, Kenitra

- Comparative study of demineralization of surface water and brackish groundwater through electro dialysis, nanofiltration and reverse osmosis.

Partnership with INRS, Canada

- Study on WWTP odor mitigation and biogas recovery.

Partnership with IAV Rabat

- Studying performance of treatment processes and developing a guide for designing, sizing and exploiting WWTPs with planted filters.

Partnership with Shimane University, Japan

- Wastewater treatment project through filters layers.

TECHNOLOGY WATCH

The primary mission of technology watch is to provide all the Office's entities with relevant and adequate information enabling it to identify the Organization's strategic orientations and support enhanced decision making.

For this purpose, the IEA has a Documentary center and has developed a technology watch and knowledge management platform in order to :

1. Carry out monitoring reports on new products or processes used in the field of water and environment.
2. Disseminate reports on the cutting-edge technology and patents conducted in the water sector.



web site : www.iea.ma/blog

DOCUMENTATION CENTER

The Documentation Center allows meeting the requirements in documentation and information related to the fields of water, sanitation and environment. A document movement management system allows online consultation and management of document references.

web site : www.iea.ma/pmb

PARTNERSHIPS

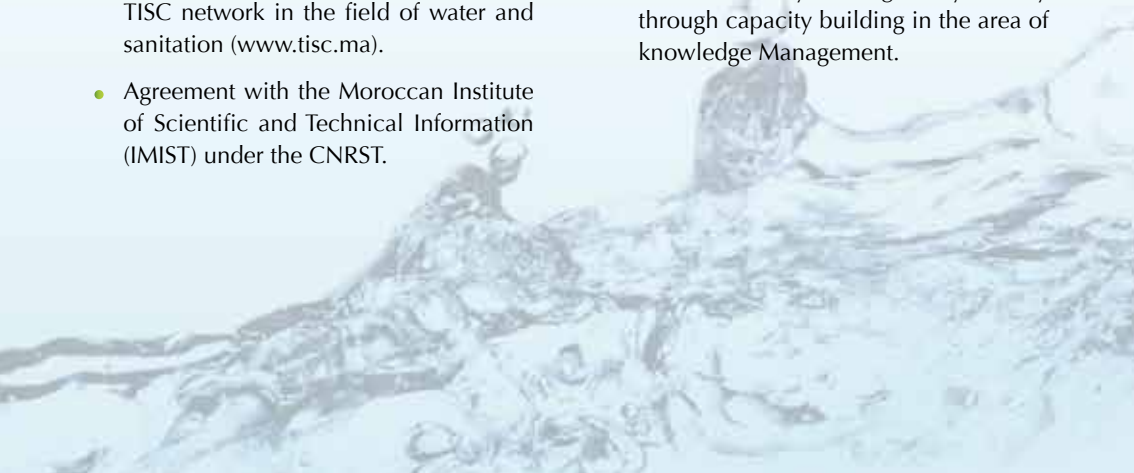
To achieve its Technology Watch mission, the IEA has developed several partnerships:

Nationally:

- Convention with Moroccan Office for Industrial and Commercial Property OMPIC, which has a network of technology information centers called "TISC" (Technology and Innovation Support Centers); the IEA is a centerpiece of the TISC network in the field of water and sanitation (www.tisc.ma).
- Agreement with the Moroccan Institute of Scientific and Technical Information (IMIST) under the CNRST.

Internationally:

- Cooperation Convention with the International Water and Sanitation Center (IRC) in the Netherlands and GIZ (RFA), with the main goals developing a partnership in the field of water and sanitation nationally and regionally notably through capacity building in the area of knowledge Management.



6 IEA ACTIVITIES

TECHNICAL ASSISTANCE

Our guiding principles are sharing the know-how and experience in the field of water and environment without profit nor limits, as:

- Access to water and sanitation is a right for all citizens;
- Access to drinking water and its protection is vital for human development and for the stability of the ecosystem.

Therefore, the International Institute for Water and sanitation contributes to sharing know-how and experience of Morocco with other developing countries (sub-Saharan, Mediterranean, and Arab Countries).



NORTH-SOUTH-SOUTH PARTNERSHIP

The IEA encourages and promotes Public-Public Partnerships (PPP), for Capacity Development and Technical Assistance of Saharan countries operators by developing of North-South-South Partnership.

The IEA develops the North-South-South Partnership approach to the contribution to the upgrade and development of water supply and sanitation in the countries of sub-Saharan Africa.

TECHNICAL ASSISTANCE PROJECTS

- Technical assistance to the AFTOUT Essahli Project, to supply the city of Nouakchott, from the Senegal River.
- SNDE Modernization Project (Mauritania) with the support of the Spanish Cooperation (AECID): North-South-South Partnerships.
- Capacity development and technical assistance to Arab countries and sub-Saharan Africa for the implementation of Water Safety Plan-WSP, in partnership with UN-HABITAT and with the support of WHO.



PROFESSIONAL TEAM

The IEA has a network of researchers, experts, professional and experienced trainers from the Office departments, and also from consultancy firms, universities as well as national and international organizations. Furthermore, the IEA has set up an online platform to build a database on Researchers and Experts in the fields of water and the environment : www.iea.ma.

In order to carry out its tasks, the IEA relies on a permanent team of engineers, technicians and managers, by developing:

- Training programs;
- Applied research and technology watch projects;
- Technical assistance partnerships.

INFRASTRUCTURE

Training Platform

The IEA has a complete training infrastructure located in an exceptional environment:

- Drinking water treatment plant 9.7 m³/s;
- Central water quality control laboratory;
- Practical work workshops for training in various professions: hydraulics, hydromechanics, remote management, leakage detection, pipes installation...
- 2STEP (extensive: lagoon and intensive: activated sludge);
- Classrooms and multimedia;
- Mobile and autonomous training units equipped with educational training materials.



Conference and Reception Center

The IEA Conference Center has a large hosting capacity:

- 1 conference room (240 seats);
- 1 amphitheatre (130 seats);
- 3 seminar classrooms;
- 1 restaurant with 200 seats;
- 1 hotel with 120 beds;
- Sports and relaxation equipments;
- Wi-Fi/Intranet network.



IEA ASSETS : PARTNERS

INTERNATIONAL

- ACWUA, AWC, (MENA Region) ● CNAM, France ● EWRI (ASCE), USA ● INRS, Canada ● IRC, Netherland ● OIEau, France
- Rotterdam University, Netherland ● Shimane University, Japan ● Université de Bochum, Germany ● WorldWaternet, Netherland...

UN & International Cooperation Agencies

- OMS ● UN-DESA ● UNDP, Cap-Net ● UNESCO ● UN-HABITAT ● UNIDO ● UNOPS ● UN-Water,...
- AECID ● BADEA ● BID ● CTB ● GIZ ● JICA ● KfW ● USAID,...

NATIONAL

- CNRST, IMIST, EMI, ENIM, IAV, EHTP, Université Mohamed V de Rabat, Université Cadi Ayad de Marrakech, Université Ibn Tofaïl de Kénitra, Faculté de Béni Mellal, CERIMME, CTPC, CNESTEN, ...

CONFERENCES AND EVENTS

- NRW Conference, ACWUA, Rabat, *Jan. 2010*
 - WSP Workshop, UN-Habitat, Rabat, *June 2010*
 - Coastal Aquifers & CC, UNESCO, Rabat, *June 2010*
 - Solid Waste in Africa, UNDESA, UNEP, UN-Habitat, Rabat, *Nov. 2010*
 - EWRI Conference (EWRI-ASCE), Marrakech, *Jan. 2012*
 - REUSE Conference, UN-Water, Marrakech, *Feb. 2012*
 - Biogaz Conference, GIZ, Rabat, *Feb. 2012*
 - Desalination Conference, IDA, Casablanca, *Mar. 2012*
- Coming events:**
- IWA Workshop on Traditional Qanats Technologies, IWA, Marrakech, *Oct. 2013*
 - IAH Conference, Marrakech, *Sept. 2014*

REFERENCES

- IEA: WHO Collaborating Centre on Research and Training in matters of Water Supply and Sanitation.
- IEA is nominated as a Water Centre of Excellence for the MENA region network (MENA NWC), USAID.



INVESTING IN HUMAN CAPITAL

DEVELOPING AND SHARING KNOWLEDGE

...OUR MOTTO



A decorative graphic at the bottom of the page showing a splash of water with bubbles and ripples, rendered in shades of blue and white.

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