WATER-EDUCATION & TRAINING for CAPACITY DEVELOPMENT in ARID AND SEMI-ARID REGION

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World Map of Aridity Zones

Source: CRU / UEA, UNEP / DEWA

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Challenges Facing Arid and Semi Arid Regions

- **Water** scarcity due to population growth
- **Lack** of affordable access to clean drinking water, sewerage and sanitation;
- **Deterioration** of surface and groundwater water quality;
- **Increasing** competition and disputes on shared water resources;
- **Decline** of financial resources for water development;
- **Inadequate** awareness by the public and decision-makers in understanding the full extent of the water crisis;
- **Desertification** ...........etc.
Through a number of parallel initiatives, the MWRI builds up:

*Water Education*......*Training*......and *Applied Research* in the domain of *IWRM*; through different institutions in Egypt as well as regional countries.

*NWRC*......*CAIRO UNIV*......*RCTWS*
Regional Center for Training and Water Studies in Arid & Semi-Arid Zones

1982, the Training Department / MWRI was established.

1994, the Training Center / MWRI was built in modern and professional facilities.

2002, launched the regional institution **RCTWS**. It scenarios and activities executed under the auspices of UNESCO as an international knowledge institution.
What is RCTWS

**The mission:** contributes capacity management in the field of IWRM, water engineering and water-related sciences... etc.

**Directed to:** managers, professionals, engineers, technicians and administrative staff in Egypt as well as Arab, African and other Arid & Semi-arid Countries of the Region.

**The main function:** create, design, prepare and carry out regional training and education programs in all relevant aspects of IWRM for various level of expertise; which meets the demands of the 21st century.
Core Activities

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RCTWS Main Programs

Nile Basin & African Plan

Regional Plan
Arid & Semi Arid

National Plan

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The National Training Program

- Developing the skills of the Ministry's staff members (70,000 employee) in accordance with our national policies.
- Providing specialized training to help professional and non-professional staff members working in different water sectors public work activities to upgrade their skills and knowledge.
- Offered yearly (approx. 165 Program).
- National trainees (3000 Participants / year).
No. of Training Courses from 1994 to 2005

- Engineers
- Technicians
- Administrative
- Computer
- Language

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The Regional Training Program

- **Creates** different regional programs, courses and applied studies focused on IWRM.

- **Directed** to managers, professionals, engineers, technicians and administrative staff, both in Egypt as well as Arab, African and other Arid and Semi-arid Countries of the Region.

- **Carries out** RCTWS objectives and functions in close coordination with water-related strategy of the UNESCO.
Activities Framework

*Insure the success implementation of the RCTWS programs*

- **P** Periodical study of regional training needs assessment (TNA).
- **S** Selection & design of appropriate training program depend on priorities.
- **O** On-the-job training, field studies, technical tours & ToT.
- **M** Modern communications & training facilities.
- **D** Different tailored programs, workshops and seminars.
- **I** Interactive training services with similar regional institutions.
Executed Regional Programs
2002-2006

- **2002** the strategy, the scenarios & the work plan of the Regional program have been drawn and approved.

- **2003 till 2005**...26 Regional Events
  - 6 Meetings (1-3 days).....
  - 8 Courses (2-6 weeks) ....
  - 11 Regional and International workshops (2-3 days) &
  - 1 International Conference (4 days).

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GO TO Regional Programs 2002/2006 Plan
Applied Training Project, hosted by RCTWS, contributes to strengthening the capacity of water professionals in the Basin, including women, to adopt IWRM practices.

**Central Features**: The facilitation of interchange of expertise and experience among basin institutions and professionals to strengthen the Nile water fraternity. i.e. Stimulate a dialogue among riparian countries, so they can eventually undertake collaborative enterprises for mutually beneficial purposes.
RCTWS and International Networks

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The International Post-Graduate Diploma On Shared Water Resources“ (SWRD)

The SWRD has been established through close cooperation between Cairo University and the Ministry of Water Resources and Irrigation (MWRI) in Egypt.
The National Water Research Center (NWRC)

- NWRC / MWRI is a unique organization developed in Egypt to conduct research at the highest policy-making level. It supports all technology ensuring that research influences policy and action in the field of water resources development (12 Institutes).

- Hydraulic Research Institute (HRI) and (IHE-UNESCO) have jointly taken up training program in River Engineering for Nile Basin countries.