UNESCO

United Nations Educational, Scientific & Cultural Organisation

Major objective is the achievement of the Millenium Development Goals

Particularly (in our case) Goal 7:

ENSURE ENVIRONMENTAL SUSTAINABILITY

Target 7.C:

Halve, by 2015, the proportion of the population without sustainable access to safe drinking water and basic sanitation





Postgraduate Education, Training and Research in Water, Environment and Infrastructure.

Based in Delft, the Netherlands

The Need

- A recent report on a global water sector capacity needs concludes that, if the MDGs are to be met in Africa by the target date of 2015 the number of water professionals needs to be increased by 300 % (WWAP3, 2009)
- WHO statistics have revealed that if the current tendencies continue, Sub-Saharan Africa will not reach the sanitation related MDG before 2082
- A World Bank task force on capacity development in Africa concluded that there is:
 - a failure to systematically include capacity building in country-led development strategies,
 - > too much focus on one-off training programs,
 - > too little focus on South-South learning and partnerships (Nelson and Tejaszi, 2009)

UNESCO Category 1 Institutes & Centres

- Institutionally part of UNESCO
- Governed by UNESCO's rules and regulations
- 11 worldwide, but only 2 science institutes
- Created by a decision of UNESCO's General
 Conference following a review by the Executive Board
- Headed by a UNESCO staff member, who is answerable to the Director-General
- All UNESCO institutes and centres but one (IHE) receive funding from UNESCO's regular budget
- Functional autonomy is a key structural and operational requirement
- They act under the authority of the Director-General and their programme activities are an integral part of UNESCO's programme

UNESCO Category 1 Institutes

- Directors of UNESCO institutes shall be placed under the direct authority of the relevant Sector ADG
- Overseen by a Governing Board
 - IHE's Board has 13 members
 - Appointed by the Director-General for a renewable term of office of four years
 - 6 elected by the Intergovernmental Council of the IHP
 - 7 designated by the D-G
 - 2 from agencies, institutions and the private sector
 - 1 from professional international associations in the water sector
 - 1 representing the IHE alumni associations worldwide
 - 3 designated upon recommendation by the Government of the Netherlands.

Mission

The mission of the Institute is to contribute to the research, education and training of water professionals

to build the capacity of sector organisations, knowledge centres and other institutions active in the fields of water, the environment and infrastructure

in developing countries and countries in transition.



History of UNESCO-IHE:

1957 Birth IHE established as an International Education

Institute



1991 Transformation IHE Delft becomes an independent Foundation

2003 Operational UNESCO-IHE Institute for Water Education becomes operational

Staff and Outputs



150 Staff75 Academic75 Support

300 Guest Faculty



4 Water and Environment MSc Programmes (Delft-based):

- 200 MSc participants
- 100 PhD fellows

From about 80 countries

- 200 Short Course Participants
- 126 Publications (average per year) 112 Projects (mostly capacity building)
- + 200 Postgrad Degree
- + 300 Short Course

Participants at Partner Institutions worldwide

International Masters Programmes



Masters Degree Programmes Specialisations

Environmental Science & Technology

Environmental Planning & Management

Limnology & Wetland Ecosystems

Water Quality Management

Water Management Water Resources Management

Water Services Management

Municipal Water & Infrastructure

Water Supply & Engineering

Sanitary Engineering

Integrated Urban Engineering

Water Science & Engineering

Surface Water Hydrology

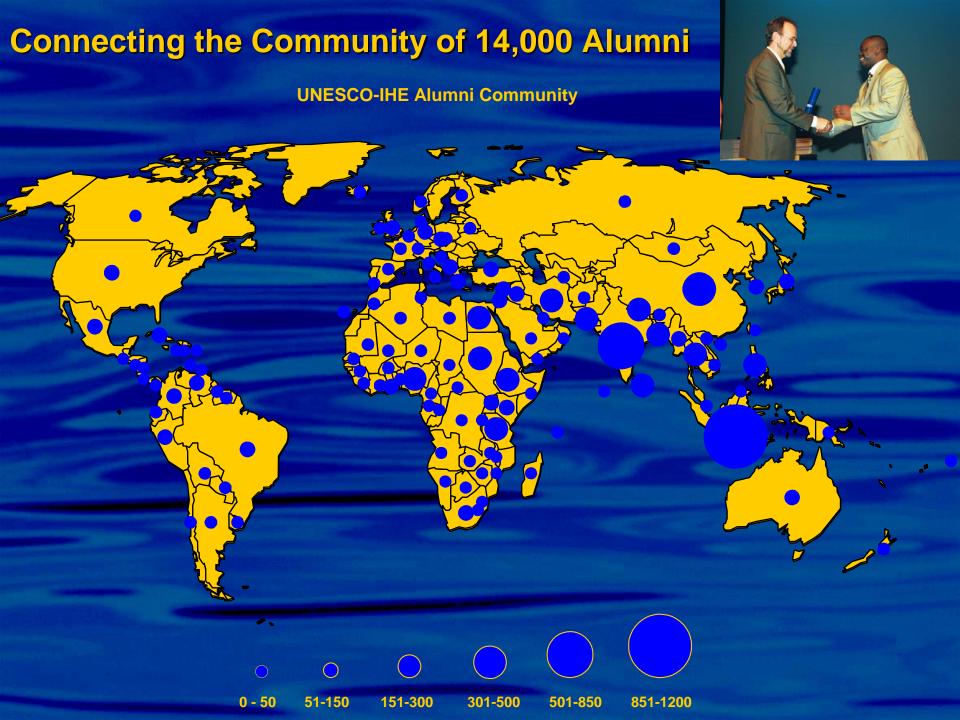
Groundwater Hydrology

Hydraulic Engineering & River Basin Development

Coastal Engineering & Port Development

Land & Water Development

Hydroinformatics





On 30 June 2010, the Nicaraguan National Congress appointed Louis Angel Montenegro as First Water Minister of Nicaragua.

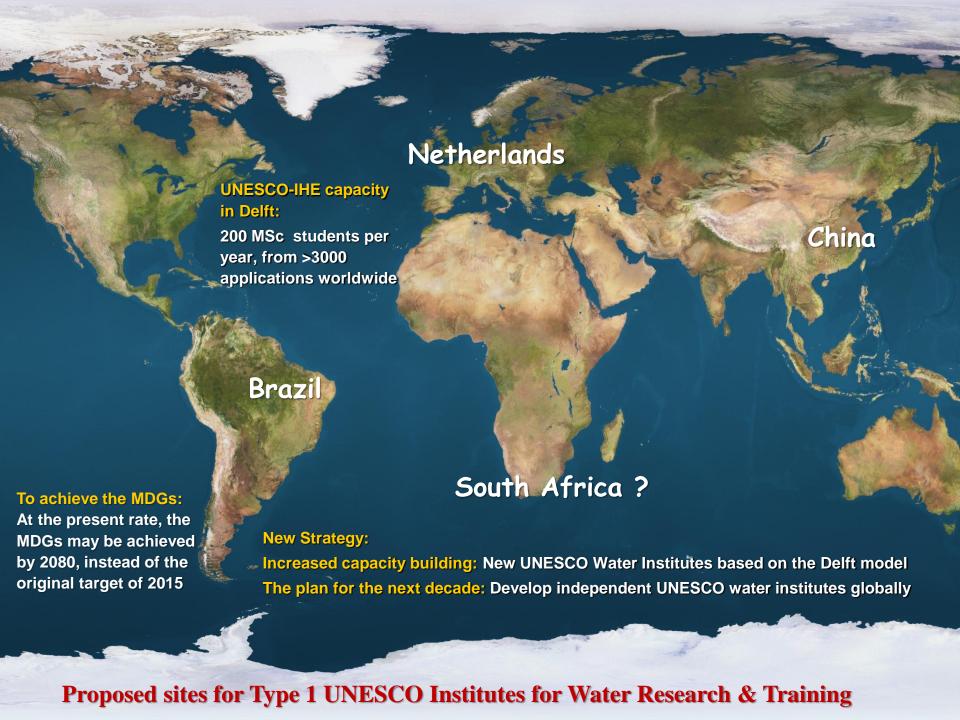
UNESCO-IHE Alumnus becomes Water Minister of Nicaragua

Mr Louis Montenegro



Mr Montenegro obtained his MSc degree in Water Management from UNESCO-IHE in 2010.

He said: "Certainly it is UNESCO-IHE that gave me the technical background to assume my new duties as Water Minister of my country. It was an honour to have studied at UNESCO-IHE."



Progress and plans

At the November meeting of the UNESCO general Conference,
A resolution was passed calling for the development of more Category 1
Water Institutes worldwide:

Proposed timeline:

■ March 2012: IHE prepare a draft agreement on how the

Category 1 institutes will be setup

April/May 2012: Present the above agreement to the permanent

delegation at UNESCO

September 2012: Table the agreement to UNESCO executive

Board. Call for proposals.

February 2013: Deadline for proposals from member

governments

May 2013: Feasibility studies carried out by UNESCO, and

the outcome discussed with IHE's GB.

September 2013: GB submits its recommendations to the

UNESCO Exec board

Oct/Nov 2013: Approval sent to the general conference of

UNESCO.

Objectives of the Eastern Cape Water Group:

- Commitment of the South African government, other African countries, relevant institutions, universities in South Africa and the rest of Africa, and NGOs
- Establish a representative national committee to spearhead the pursuit of the Institute for Water Education and Research
- Develop a full-scale proposal by the beginning of 2013
- Obtain the necessary resources to set up the Institute
- Develop the Eastern Cape Water Group partnership
- Build cooperation with relevant institutions in South Africa and the rest of Africa
- Establish pilot initiatives that can demonstrate the potential and advantages of the proposed Institute.

5 Year Plan:

Year 1:

Proposal; Needs analysis; Funding & support; Pilot Projects

Year 2:

First Masters course; Appoint staff; Additional course design

Year 3:

Second Masters course; PhD programme; Planning of infrastructure

Year 4:

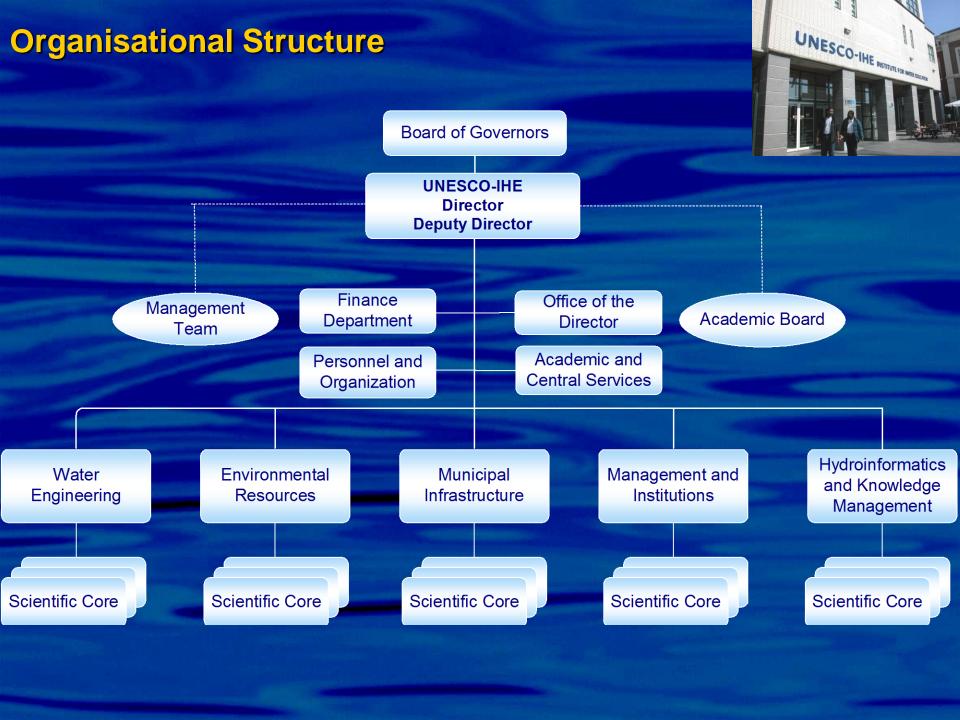
Third Masters course; Building infrastructure

Year 5:

Target 60 Masters students & 10 PhD students; Complete infrastructure

5 Year Budget: R122,000,000





Areas of Competence

- River Engineering and River Basin Development
- Coastal Engineering and Port Development
- Hydrology
- Flood Management and Prevention
- Freshwater Ecology
- Environmental Systems
- Pollution Prevention and Control
- Biotechnology
- Solid Waste Management
- Waste (Water) Treatment
- Urban Infrastructure Management
- Water Resources Management
- Hydroinformatics





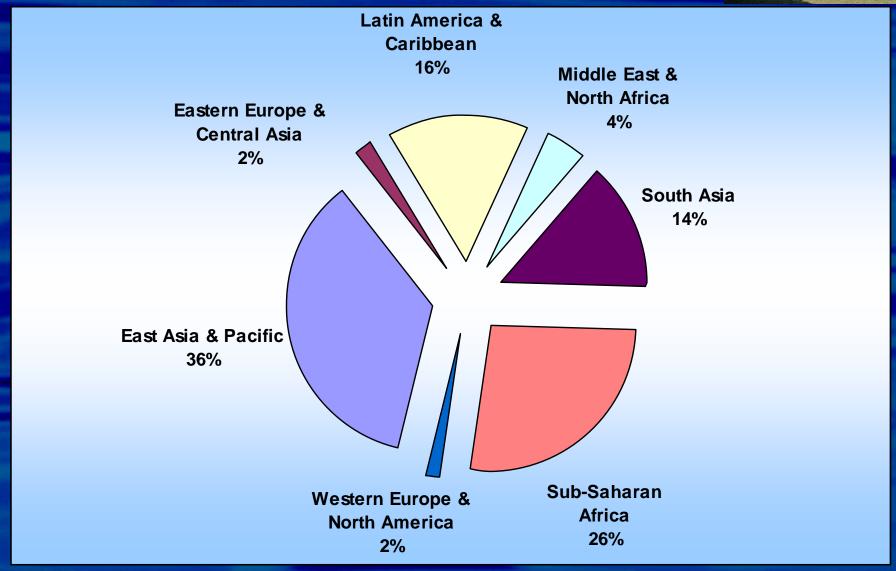






Regional Distribution of Participants





The Crisis

- UNESCO's International Hydrological Programme emphasizes that "Water problems are most acute in Africa, where it is estimated that 300 million people (out of a total population of 700 million) are affected by water shortages"
- From 1990 to 2008 provision of safe drinking water expanded in sub-Saharan Africa by 22 per cent, but remains very low, with only 60 per cent of the population served (MDG Report 2010)
- For 110 modeled river basins that are predicted to get drier, up to 60% of fish species are likely to face extinction by 2050. (MEA, 2005)
- Rivers most at risk are concentrated in poor tropical and subtropical countries, where the needs for human adaptation are most likely to exceed governmental and societal capacity to cope (MEA, 2005)