
ICOLD CONTRIBUTION TO CAPACITY BUILDING IN DAM ENGINEERING

**AFRICA 2013 CONFERENCE
ADDIS ABABA- ETHIOPIA**

**NOMBRE ADAMA
PRESIDENT OF ICOLD**

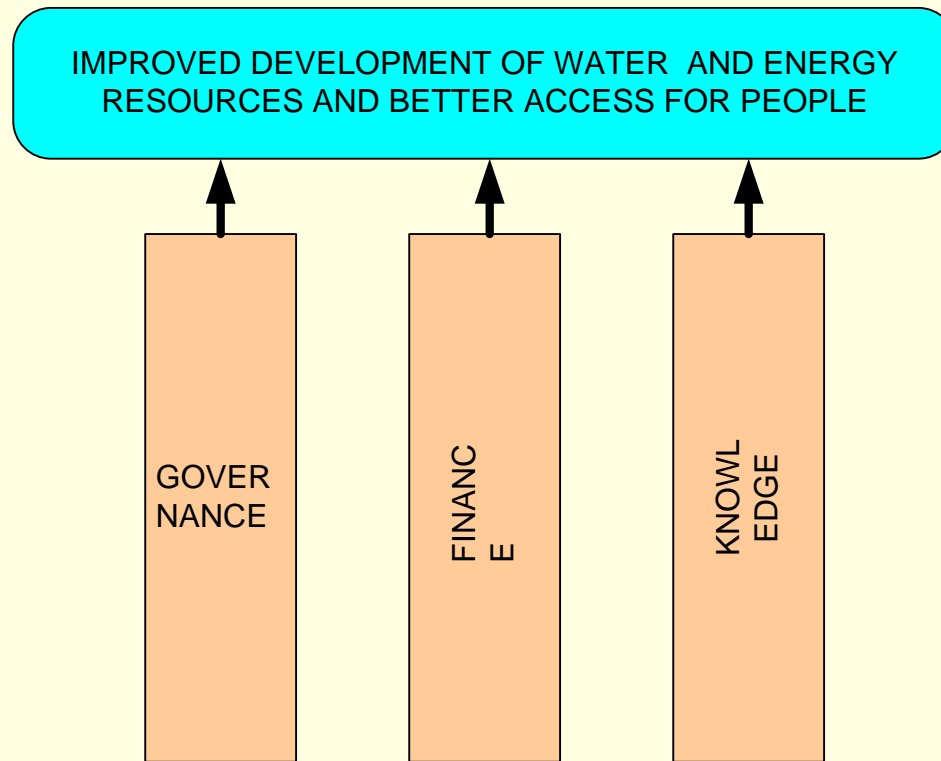
WORLD WATER AND ENERGY CRISIS

- 2 Billions of people without access to modern sanitation
- 750 Millions of people without access to safe water
- 2 billions of people without access to electricity
- Difficulty to provide the basis for economic growth

Resulting in lack of :

- water security
- human security
- economic security

THE THREE PILLARS FOR PROGRESS IN WATER AND ENERGY HARNESSING



As a Leading worldwide Professional association ICOLD is dealing with the Knowledge Pillar

WHAT IS CAPACITY BUILDING

According to the World Bank we can define capacity as : **“the ability of individuals, organisations, and institutions to set goals and achieve them, the capacity to budget resources and use them for agreed purposes, the capacity to manage the complex processes and interactions that constitute a working political and economic system.”** Capacity is dealing with skills, performance and Governance **but the peer problem rely in Human resources and their ability, commitment , ethics and leadership.**

ICOLD CAPACITY BUILDING ACTIVITY

1) ORGANISING THE DAMS PROFESSION WORLDWIDE

ICOLD IS A WELL ESTABLISHED ORGANISATION SINCE 1928 with:

- 95 NATIONAL COMMITTEES
- 4 REGIONAL CLUBS
- MORE THAN 10 THOUSANDS INDIVIDUALS

ICOLD CAPACITY BUILDING ACTIVITY

2) PRODUCING THE KNOWLEDGE BASE, GUIDELINES AND GUIDANCE FOR THE PROFESSION

- More than 20 TECHNICAL COMMITTEE WORKS
- CONGRESSES every three years with Four questions interesting the profession worldwide
- SYMPOSIUM AND WORKSHOPS with each Annual General Assembly
- REGIONAL CONGRESSES AND SYMPOSIA

ICOLD CAPACITY BUILDING ACTIVITY

3) DISSEMINATING THE KNOWLEDGE BASE

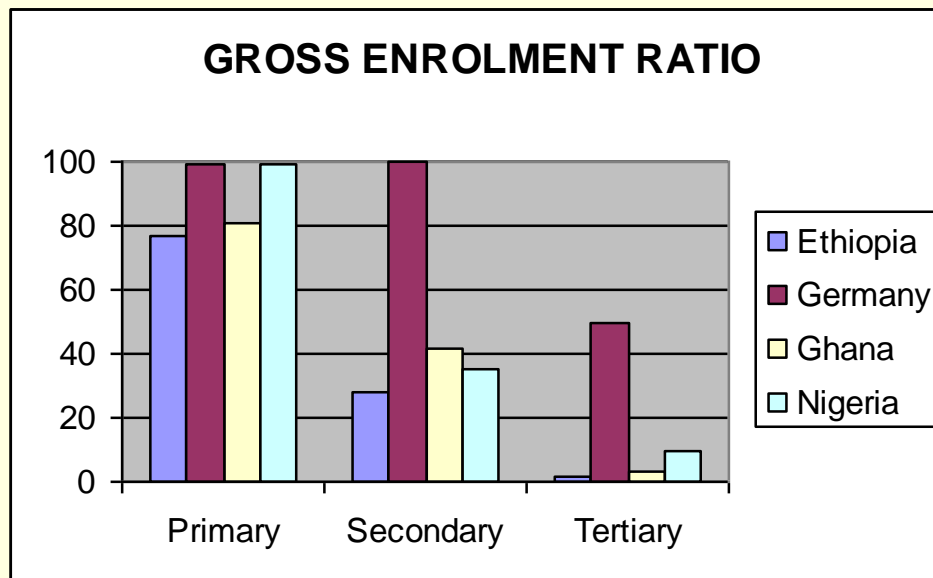
- - web site and International distribution list
- Free access to the bulletins for ICOLD members
- Free access to Congresses proceeding after ...years for Members
- Congresses and symposia



SPECIFIC CAPACITY BUILDING ACTIVITY FOR AFRICAN PROFESSIONALS

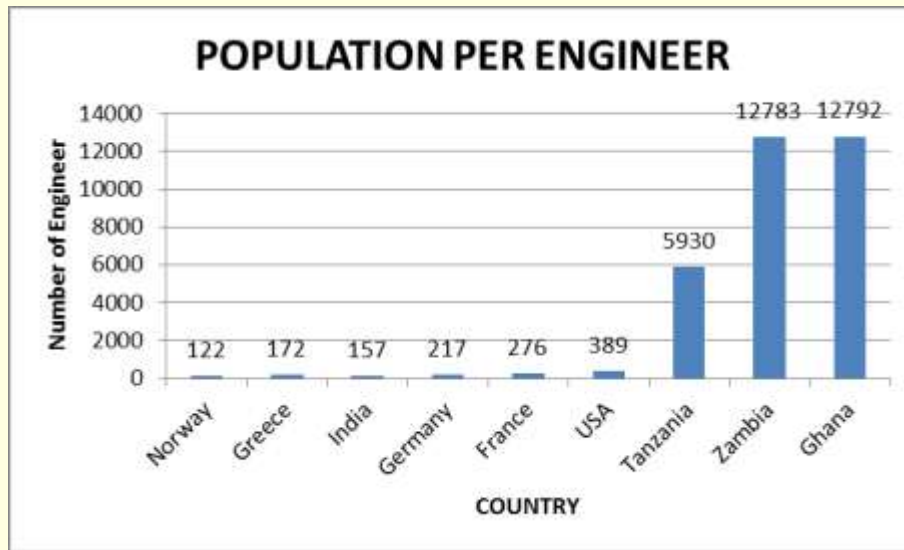
1) HUMAN RESOURCES IN AFRICA

- Around one 800 millions of people mainly constituted by young
- around 40% living in cities
- High rate of mortality and morbidity due to malaria, Aids and water related diseases (71% of the total death by AIDS of the World)
- Low level of education

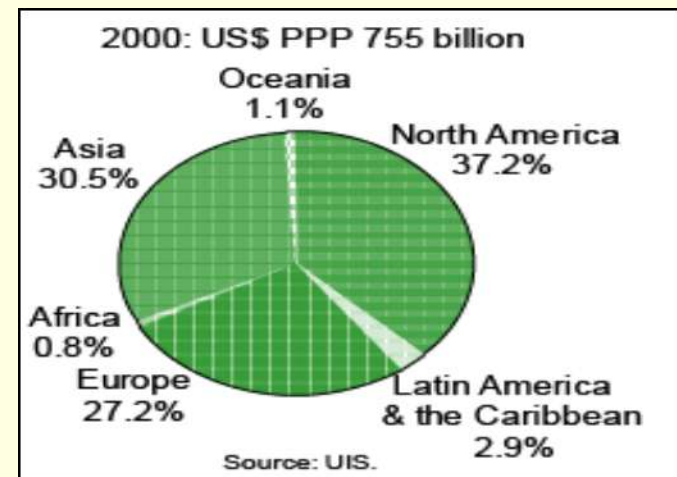


SPECIFIC CAPACITY BUILDING FOR AFRICAN PROFESSIONALS

2) WEAK HUMAN RESOURCES IN ENGINEERING and R&D



World Expenditure on R&D




SPECIFIC CAPACITY BUILDING FOR AFRICAN PROFESSIONALS

- 3) The Local Engineers are in most African Countries marginalised in the sector of Large and Medium scale Projects which are always design by foreign Consulting firms and frequently outside of Africa**
- 4) The organisation of the dams and Hydro profession in Africa is still weak: For 52 countries only 22 countries have ICOLD committees with only 4 or 5 committees working truly. Few have Hydropower associations**
- 5) The capacity to plan and organise the development of water and Hydro resources have been weakened by the SAP since the 1980's in most African countries:**

SPECIFIC CAPACITY BUILDING FOR AFRICAN PROFESSIONALS

6) ICOLD ACTIVITY FOR CAPACITY BUILDING IN AFRICA

- **Strengthening the dams and Hydro profession in organising ICOLD member committees**
- **Breaking the scientific and technical lock in allowing African professionals to share the cumulated and update experience of ICOLD**
- **Promoting professionalism and ethics with the adoption and dissemination of ICOLD code of ethics.**
- **Organising training program for continuing education of African professionals (Turkey, Morocco, Spain etc.)**



THANK YOU FOR YOUR KIND ATTENTION