

Securing Water and Food for the Future, Role of ICID



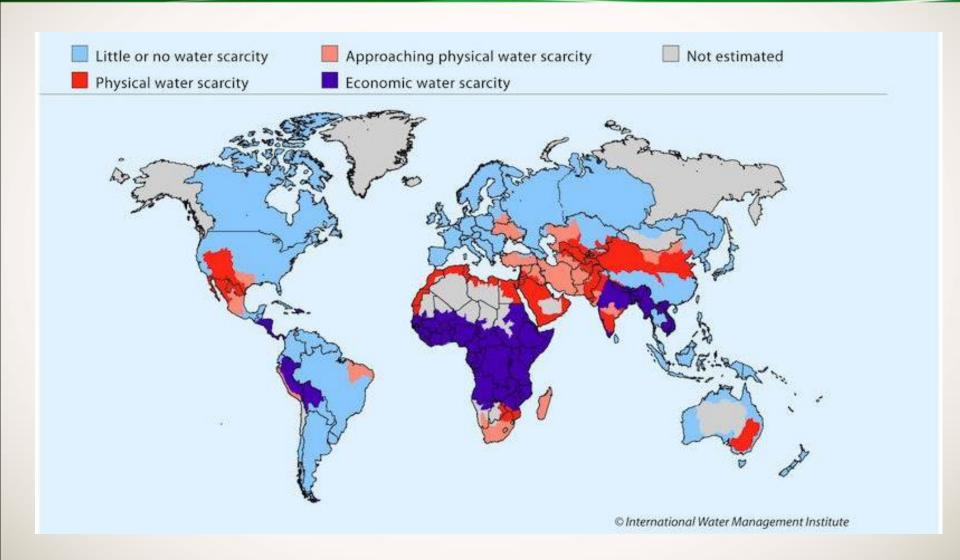
Dr Saeed Nairizi, President

International Commission on Irrigation and Drainage (ICID)
Opening Session-20 January 2016

This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

Global Water Scarcity





Background

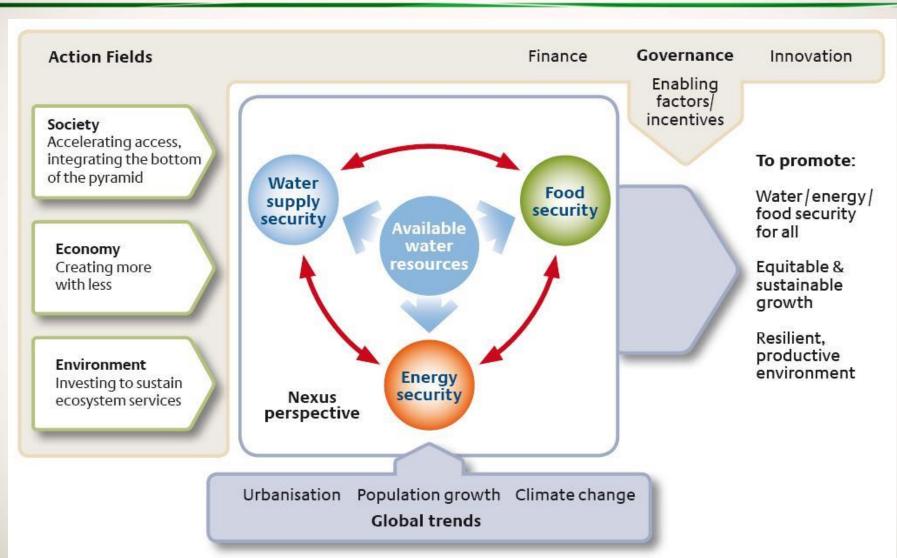


- ➤ Global Population
 - Present: 7.3 billion 2050: 9.1 billion
- ➤ By 2050 Global water demand to increase by 55%
- ➤ By 2050 agricultural production to be increased by an estimated 60 per cent globally and by 100 per cent in developing countries
- Higher yields are possible with irrigated agriculture as compared to rainfed agriculture
 - irrigated agriculture producing 40% of food supply from 20% of the irrigated land



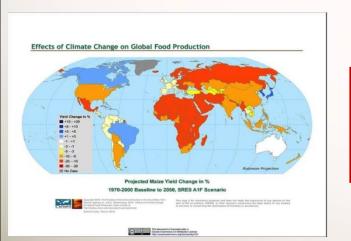
Water Food Energy Nexus





Challenges for sustainable production

- 80-90% of the increase to come from already cultivated lands
- diminishing freshwater supplies for agriculture
- Aging irrigation infrastructures
- Weak institutions and poor water governance
- Climate variability and change affecting agricultural production
- Lack of institutional and individual capacity
- How to reduce adverse environmental impacts

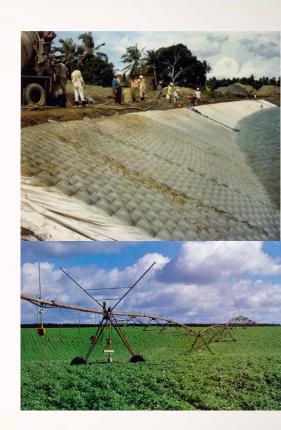


The Goal is to grow more with less, i.e. sustainable agricultural intensification

Possible options



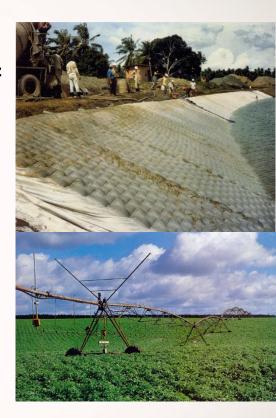
- Sustainable development of irrigated agriculture lies around
 - Modernization and revitalization of irrigation systems and associated services
 - Adoption of climate smart agriculture
 - Improving water and land productivity supported by financial mechanisms
 - Reform of management institutions



Possible options



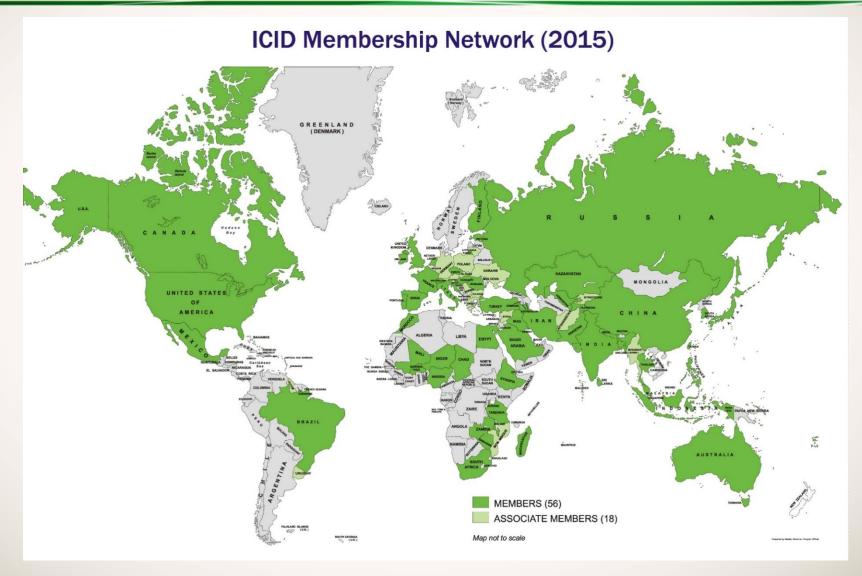
- Adoption of efficient water management techniques including recycle and reuse of waste water
- Use of modern technologies
- Increasing awareness about water scarcity
- Capacity development of service providers and farmers etc.



ICID is playing a significant role in the field of sustainable agriculture water management for water and food secure future

ICID Membership network spreads over 78 countries covering about 90% of the world's irrigated area

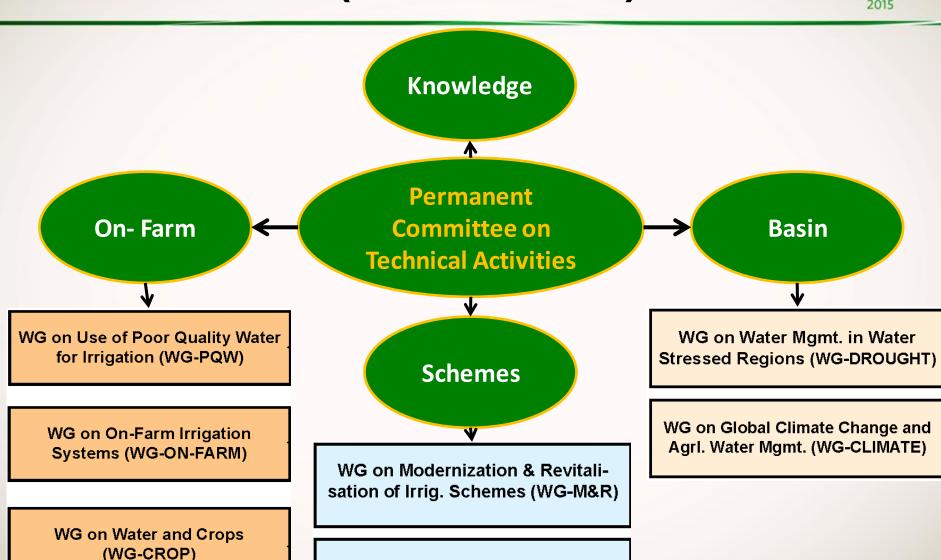




Technical Working Groups

(Thematic areas)





WG on Irrigation Development and Management



ICID Initiatives and Programme towards Sustainable Water and Food Secured Future

Vision and Mission



Proposed Vision

Water secure world free of poverty and hunger through sustainable rural development



© Can Stock Photo - csp13659082

Proposed Mission

Working together towards sustainable agriculture water management through inter-disciplinary approaches to economically viable, socially acceptable and environmentally sound irrigation, drainage and flood management

Exchange of Knowledge & Information



Exchange of information through

- > Annual meetings
- Journal on Irrigation and Drainage,
- Guidance material
- Triennially World Irrigation and Drainage Congresses
- Annually Regional Conferences
- Triennially World Irrigation Forum



World Irrigation Forum



Objective

- To bring together representatives of all stakeholders involved in the field of Agriculture Water Management (AWM) to discuss and address the issues of growing food security concerns, modernization of irrigation services, AWM, etc.
- First WIF was organised at Mardin, Turkey from 29 September to 01 October 2013
- Second WIF being organised at Chiang Mai,
 Thailand from 6 12 November 2016
- Theme- Water Management in a Changing World: Role of Irrigation for Sustainable Food Production



WIF Stakeholders



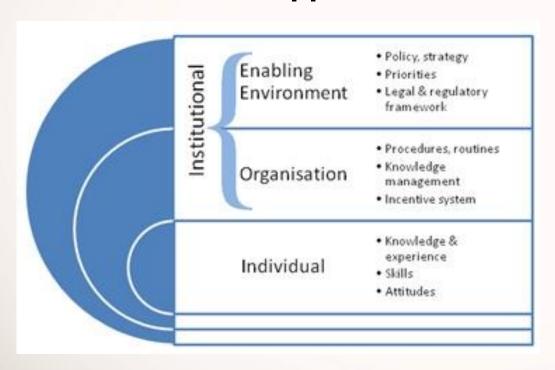
- Policy makers
- Farmers' Associations
- Scientists from Agriculture organizations
- Extension services providers
- Financial institutions
- Private sector:
 - Manufacturers
 - Consultancy services
 - Contractors
 - Other service providers
- International organisations with programmes in the field of Irrigation and Drainage
- Professional Water Associations: ICOLD, IHA, IWRA, IAHR, IAHS, IWA, IAH
- Universities and research institutes

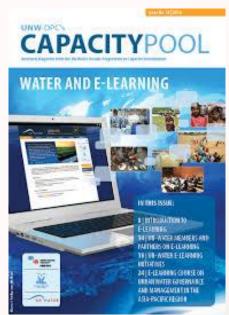


TSU-Objective



"Undertake capacity development activities in the field of agriculture water management in support of rural development".



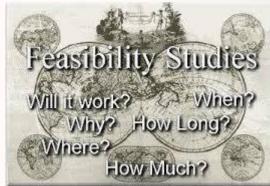


TSU-Objective



- To liaise in developing a knowledge base in AWM with the help of ICID working groups, partner institutions and member countries
- To support the member countries (on request) in
 - general assessment of gaps in AWM capacities within the countries and suggest possible solutions
 - developing feasibility reports for small and medium irrigation, drainage and flood management proposal
 - training assessment needs, and
 - undertaking capacity development programmes







Thank You For Your Attention