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.

How Irrigation is responding to the Challenges and Changes in Agriculture





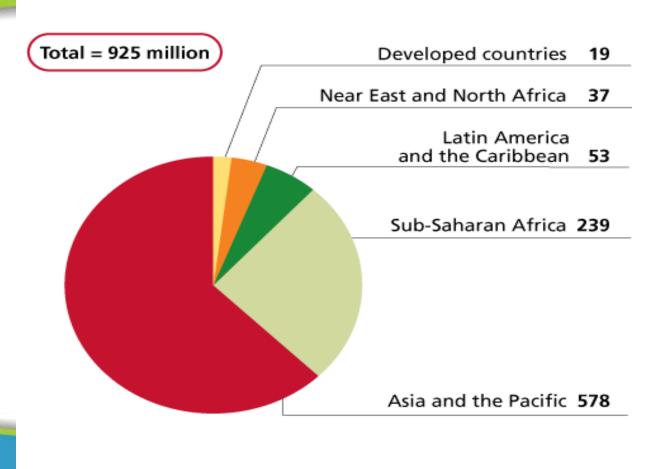


11-12 April 2012 • Asian Development Bank, Manila, Philippines

Irrigation Forum

Asian

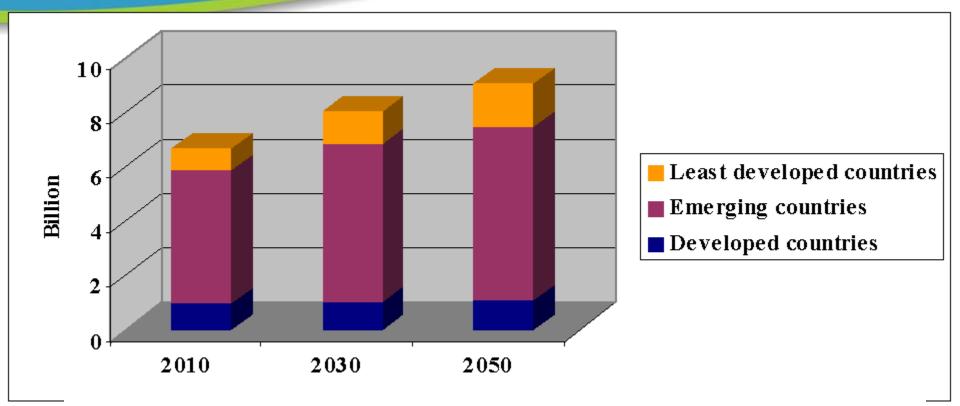
Distribution of Undernourished Population





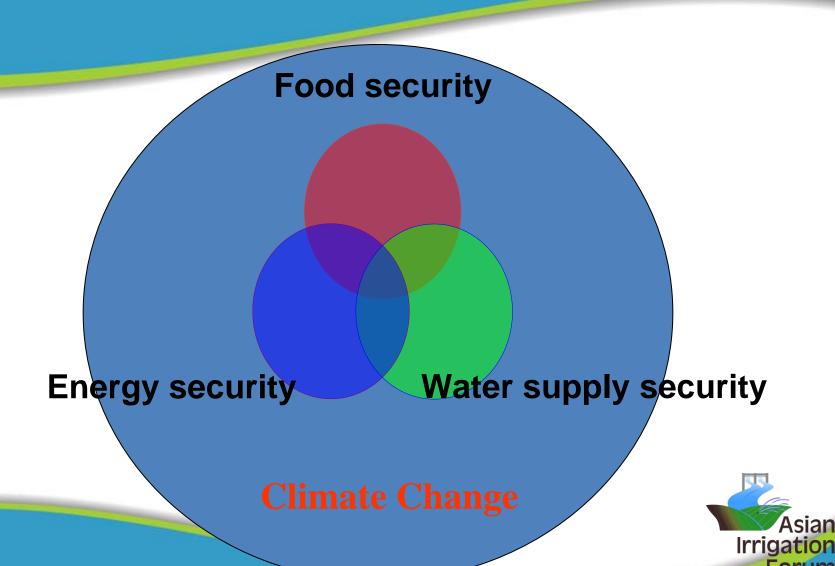
Source: FAO.

World Population Growth



Sixty-percent of the population of the world lives in Asia, the greatest part of this increase is in the population of Asia

Related Securities



Farmland with Different Type of **System**

- no system 1,100 million ha
- irrigation only 210 million ha
- drainage **■ No-system ■** Irrigation

73.0%

drail

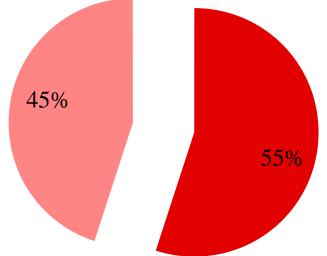
130 m

- Irrigation & Drainage
- Drainage



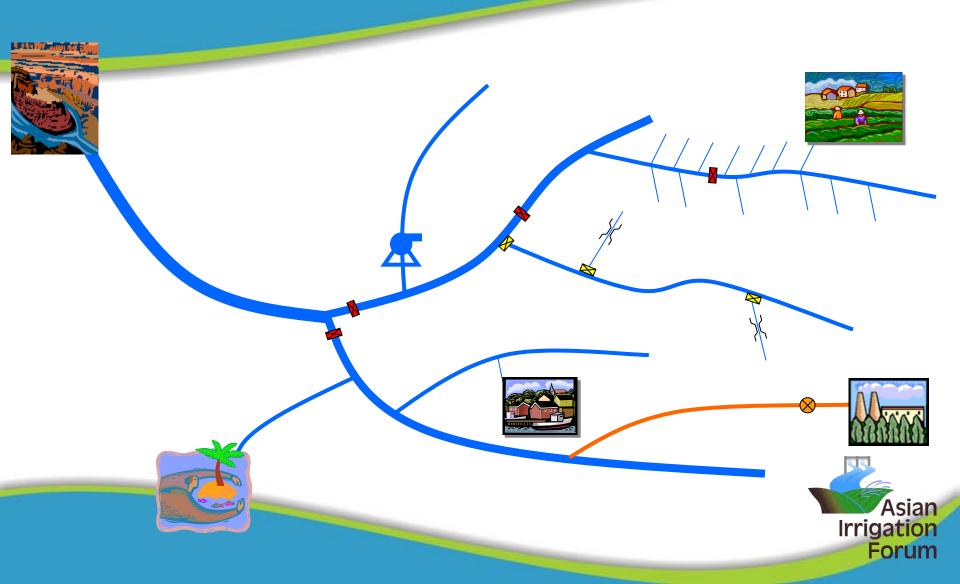
Cereal production from Rainfed & Water Management System







Need to enhance irrigation development to increase water use efficiency and productivity



Rehabilitate Infrastructures





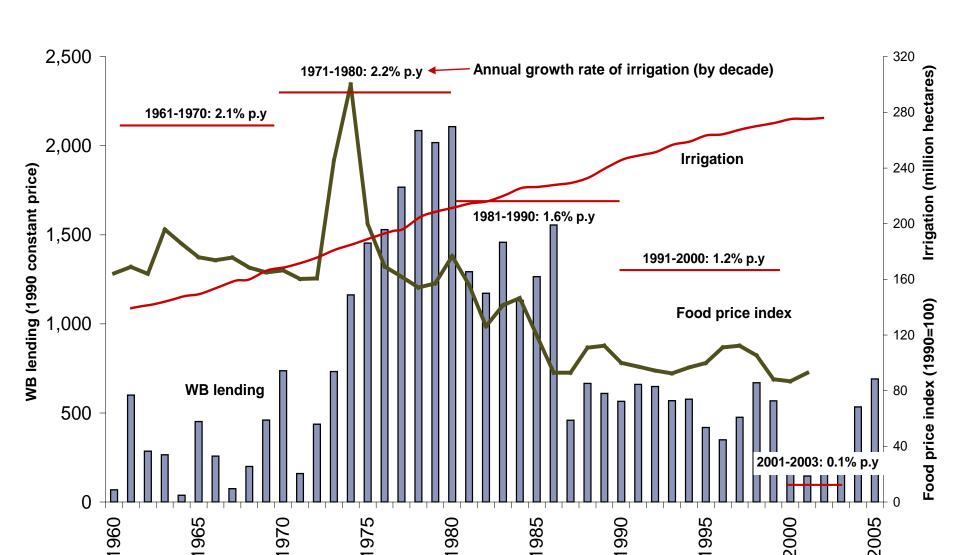




Improve System Management



Increase Investment



Strengthen Capacity Building



Support Small holder farmers







Forum

Implement Land Consolidation



Institutional Reforms and Governance



Role: Government

- Provide leadership
- Work out future vision
- Set policy and provide legal framework
- Work out and implement development planning
- Reform institutions
- Enhance capacity building
- Mobilize financial resources



Role: Management Agents

- Carry out rehabilitation of the main canals and structures of irrigation systems
- Operate and maintain the main structures and canals system;
- Bridge the gap between government and WUAs;
- Provide technical support to WUAs;
- Supervise and monitor irrigation systems;
- Keep documentation of irrigation schemes;
- Collect water fees from WUAs.

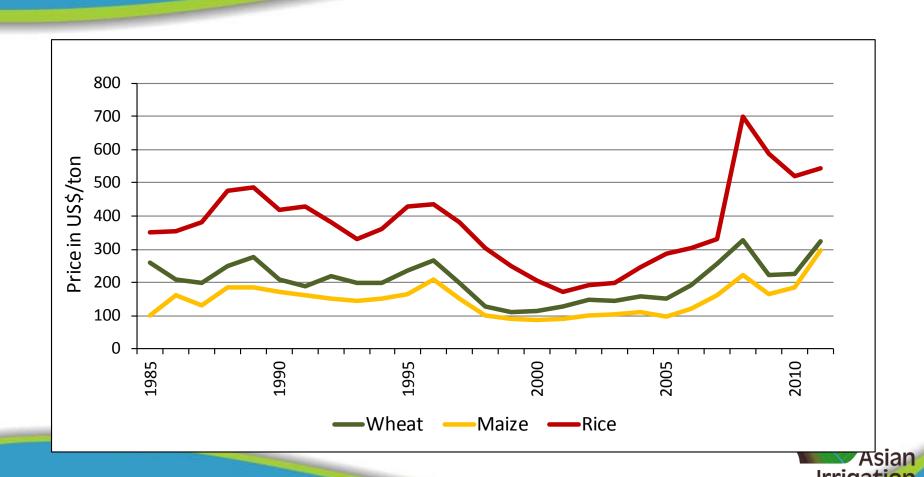


Role: WUA and farmers

- Carrying out rehabilitation of on farm canals and structures;
- Operation and maintenance of on-farm structures and canals system;
- Provide irrigation service to individual water users;
- Collection of water fees.



World market prices for wheat, maize and rice



International Cooperation















Thank Iou!

