Pakistan- Water Issues, constraints and objectives

> Syed Ghulam Qadir Shah Hameeda Massood Shah Ghulam Mustafa Ujan Mohammad Tariq Yamin



#### ssues

- Ownership (transboundary and inter-provincial)
- Water scarcity (water availability declined from 5,300 m<sup>3</sup> per capita in 1954 to 1,200 m<sup>3</sup> per capita at present)
- Water resource management
- Distribution (equitable distribution at interprovincial and local levels)
- Allocation for different sectors
- Poor enforcement of policies/legislation
- Poor infrastructure management

## Issues (contd.)

- Waterlogging & salinity drainage effluent disposal
- Overexploitation of ground water
- Poor rainwater harvesting
- Decreasing water quality (saline aquifer, municipal/industrial waste)
- Environmental degradation sea water intrusion
- Overuse outdated irrigation practices.

### Constraints

- Bureaucratic & political hurdles
- Institutional weaknesses
- Centralized management
- Lack of awareness
- Poor policies and legislation outdate legislation 1873)
- Poor database
- Lack of resources (financial, capacity, technology, R&D)

# Constraints (contd.)

Lack of adoption of innovative technologies.

- Supply-oriented approach
- Lack of integrated approach at national level.
- Water charges not linked to quantity
- No water rights on groundwater
- Lack of financial sustainability for O& M (higher transaction costs)
- Inappropriate Cropping patterns (water intensive crops)

# Objectives – vision for future

- Water for all Ensure sustainable management through wise and equitable distribution
- Promote participation through devolved management and public-private partnership
- Promote responsible attitude towards water issues both at on-farm and off-farm levels (innovative practices and technologies)
- Awareness and coordination among the stakeholders
- Recycle & Reuse unless it is no fit for use (safe disposal)