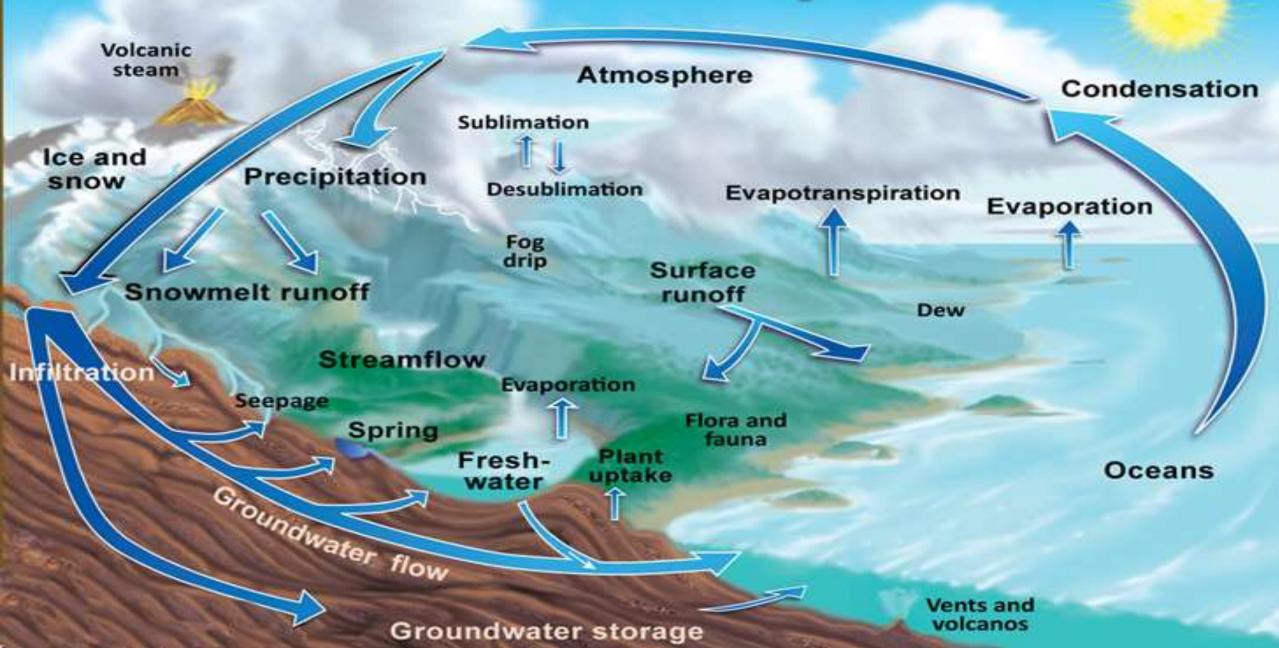


## Water Governance -for Water Security, Safety & Sustainability

Dr.M.Ariz Ahammed IAS National Water Mission

Ministry of Water Resources, River Development & Ganga Rejuvenation

## The Water Cycle





## Water Governance-National Perspective

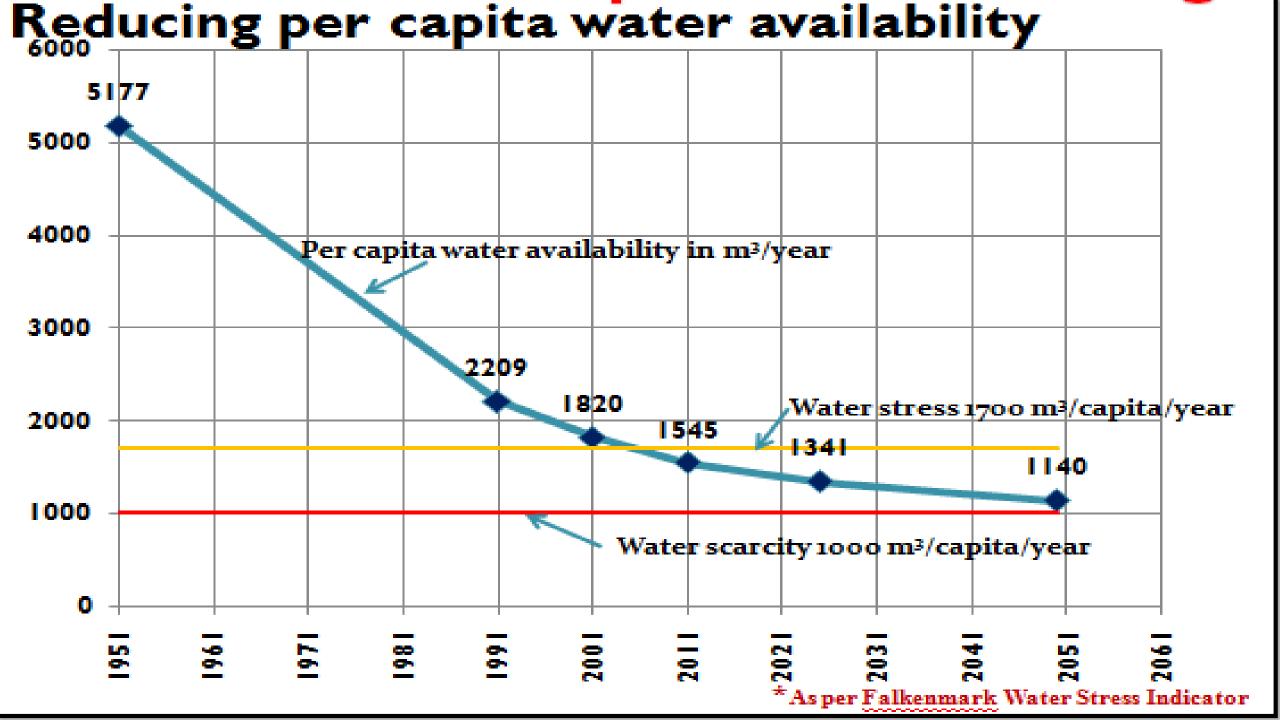
State List- entry 17 of List-II subject to the provision of Entry 56 of List-I i.e. Union List.

Entry 17 of List II (State List): "Water, that is to say, water supplies, irrigation and canals, drainage and embankments, water storage and water power subject to provisions of entry 56 of List I."

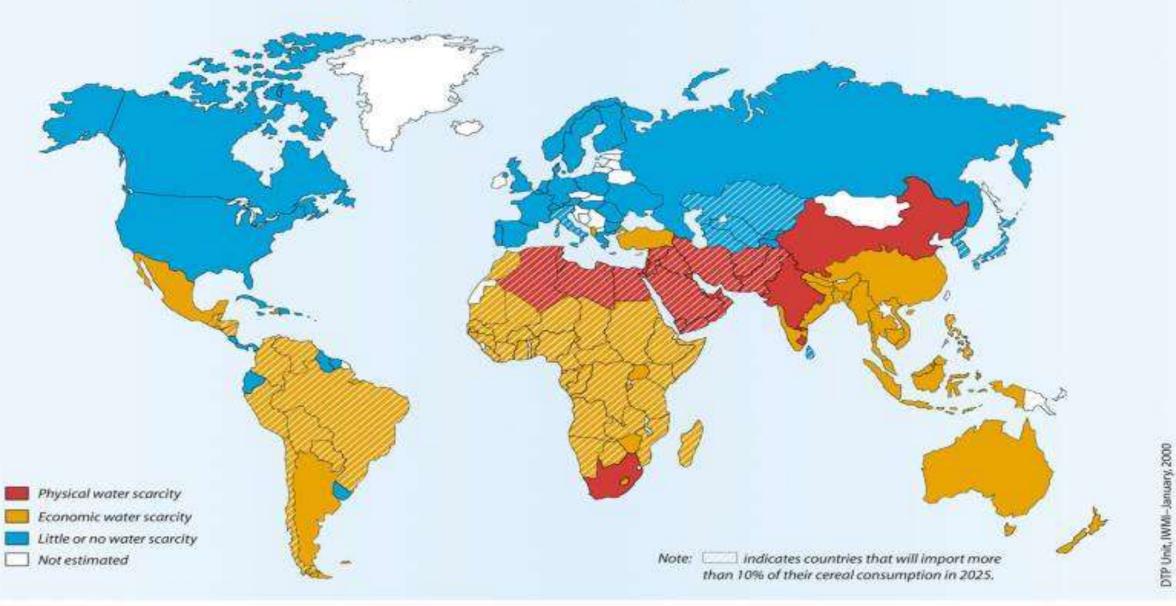
Entry 56 of List I (Union List): "Regulation and development of inter-state rivers and river valleys to the extent to which such regulation and development under the control of the Union is declared by Parliament by law to be expedient in the public interest."

River Boards Act, 1956 (Under Art.246, List 1, Entry 56)

Art.262. Adjudication of disputes relating to waters of inter-State rivers or river valleys Inter State Water Disputes Act, 1956 –provides for setting up of Tribunals



#### Projected Water Scarcity in 2025





### Water Dimensions



Supply side

**Demand Side** 

# Water governance- Distributed No single coordination Agency

Supply/Source side	Demand/ Consumption side
Climate- Precipitation	Forestry & Wildlife
2. Glaciers	2. Farm Sector
3. Springs	a. Agri-Horticulture-Irrigated and Rainfed
4. River Basins	<ul> <li>b. Livestock, Birds and others</li> </ul>
5. Projects-Storage/ Irrigation/ Multi-purpose	c. Fisheries and others
6. Wetlands	3. Industry and Infrastructure
7. Tanks	a. Thermal Power Plants/
8. Coastal zone	b. Textiles and Jute
Ground Water Resources	c. Paper and Pulp
10. Waste Water	d. Iron and Steel
	e. Others
	<ol> <li>Establishments &amp; Institutions- Education,</li> </ol>
	Health etc.
	5. Drinking Water and Domestic use
	-Rural & Urban

## Evolution of Ministry of Water Resources, River Development & Ganga Rejuvenation

#### August 1952

 Ministry of Irrigation and Power

### November 1974

#### **June 1980**

 Full fledged Ministry of Irrigation

#### January 1985

 Ministry of Irrigation and Power

## September 1985

 Ministry of Water Resources created by upgrading Department of Irrigation

#### **July 2014**

Ganga
 Rejuve nation and
 River
 Develop ment added

**Evolution timeline** 

#### Governance



Technology

## Way forward:

## Water Security, Safety & Sustainability

#### **Challenges**

- Identification of Stakeholders
- Convergence- Common understanding
- Single Identified Agency for management
- Harmonising –Science (Hydrology/Geology) and Administrative units
- Measurement
- Re-engineering of Governance

Way forward-Institutionalisation

State Water Budgeting