



## Republic of Macedonia River Basin Management

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Institutional setup in water sector

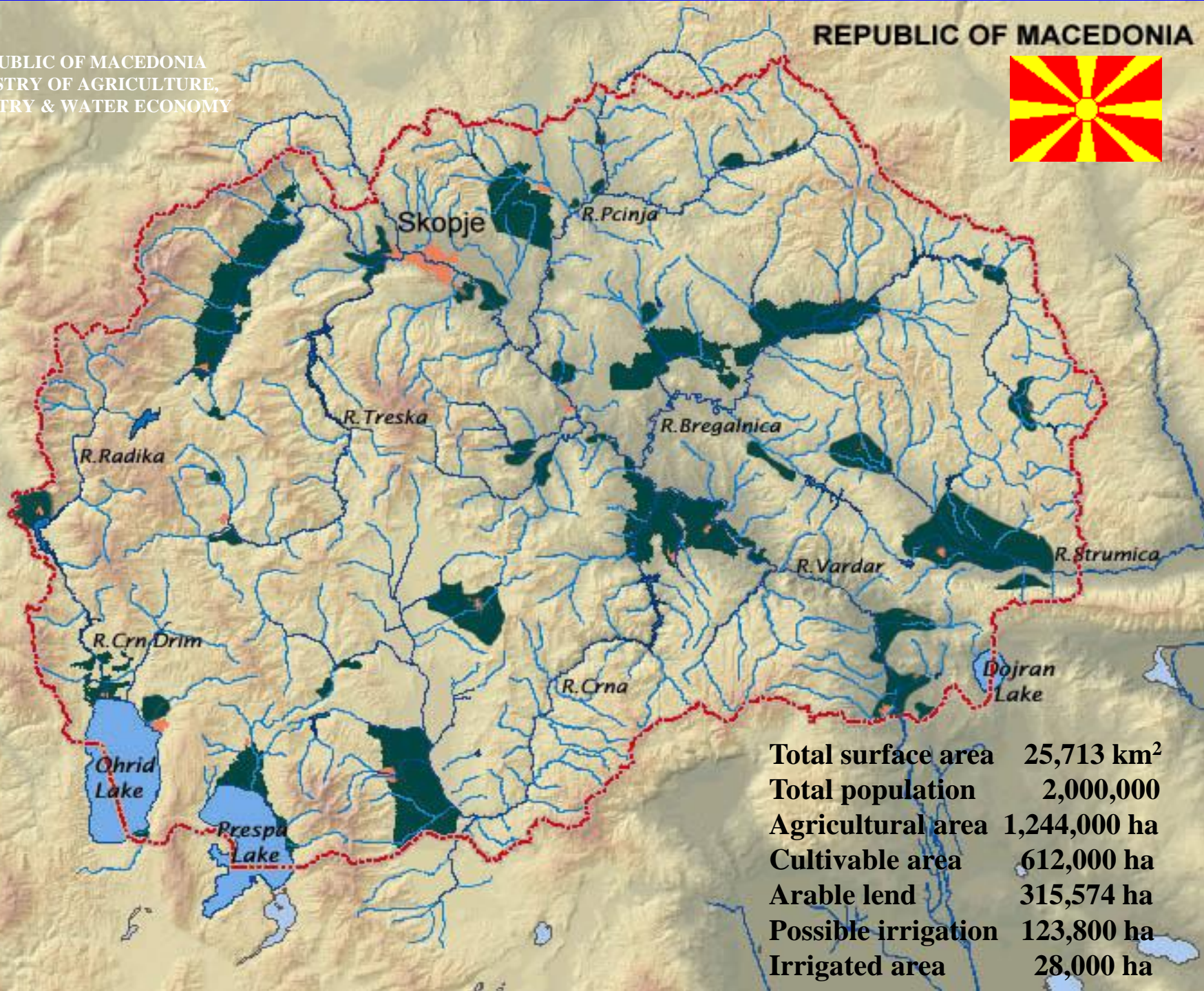
Legal framework for managing of river basins

River basins general characteristics

Irrigation and drainage organizational forms







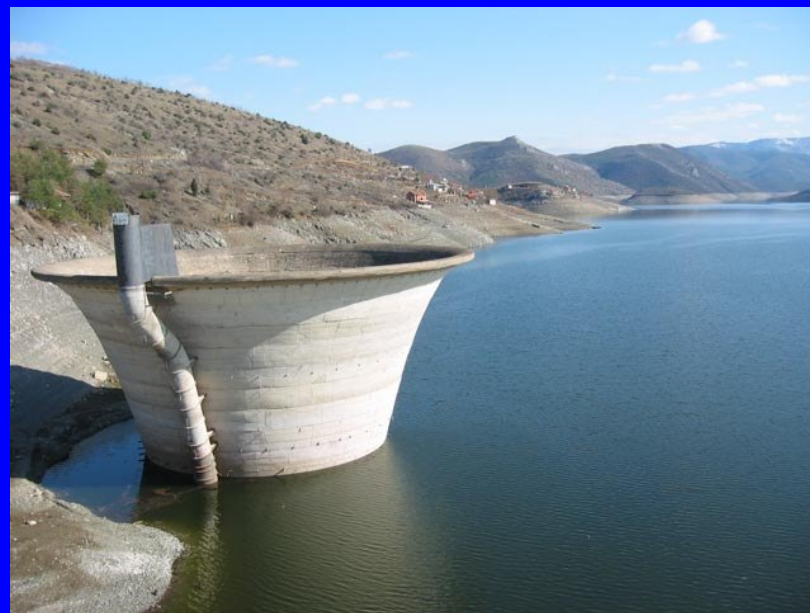
Total surface area	25,713 km <sup>2</sup>
Total population	2,000,000
Agricultural area	1,244,000 ha
Cultivable area	612,000 ha
Arable land	315,574 ha
Possible irrigation	123,800 ha
Irrigated area	28,000 ha





## Legal framework and basic water documents

- Water Law
- National strategy for waters
- Water master plan
- River basin management plans





## General characteristics of the river basins

In the Republic of Macedonia surface waters cover 477 km<sup>2</sup>, that represent 1,88 % of the territory.

There are about 35 rivers, 53 natural and artificial lakes.

The rivers flow into three different river basin districts:

- Aegean,
- Adriatic and
- Black Sea basin district.

The Aegean basin district is the largest. It covers 87 % of the territory or 22.075 km<sup>2</sup>. It is divided on Vardar River Basin and Strumica River Basin.





## River Basin districts in Macedonia

*Речни сливови во Република Македонија*  
*River Basin District in the Republic of Macedonia*





## Percentage of particular river basin

- Vardar River Basin 80,35%
- Crn Drim River Basin 13,06%
- Strumica River Basin 6,41%
- Binachka Morava River Basin 0,17%







## **Authorities of Ministry of agriculture, forestry and water management in the water sector**

Implementation of:

- Law for Water Economies
- Law for Irrigation Water Communities

Monitoring and control to irrigation and drainage organizations:

- Water Economies
- Irrigation Water communities





## Water Economies Law

This Law regulate the establishment, organization, operation, financing, control and termination of the operation of the water economies.

## Irrigation Water Communities Law

This law sets the conditions, manner, and procedure for the establishment, registration, operation, supervision, and dissolution of water communities.





## **Organizational setup of water issue inside the Ministry of agriculture, forestry and water management**

### Water Management Department

- Managing Capital projects for building of Dams and irrigation network in Zletovica, Lisice, Juzen Vardar, Orizarska Reka, Konsko
- Irrigation and drainage infrastructure investments
- Control and auditing of Water Economies and Irrigation water communities

# Water Economies and Irrigation Water Communities



Water Economy		Total irrigation area (ha)	Total drainage area (ha)	Number of IWC			IWC area (ha)		
				In the WE area	Out of WE area	Under liquidation	In the WE area	Out of WE area	Under liquidation
1	Tikves - Kavadarci	13,800	-	26	3	7	9,844	1,140	2,981
2	Bregalnica - Kocani	28,111	-	17	1	6	14,773	400	5,179
3	Polog-Gostivar	13,350	-	20	17	0	7,179	7,400	0
4	Juzen Varda-Gevgelija	5,662	-	3	4	0	972	1,870	0
5	Prespa-Resen	3,635	-	3	0	0	2,412	0	0
6	Strumicko Pole-Strumica	13,400	-	9	5	0	5,184	949	0
7	Radovisko pole-Radovis	5,140	-	2	0	0	328	0	0
8	Berovo-Berovo	917	-	2	0	0	380	0	0
9	Skopsko Pole-Skopje	629	6,600	0	2	1	0	380	115
10	Kumanovsko-Lipkovsko Pole-Kumanovo	6,471	-	0	1	0	0	337	0
11	Prilepsko Pole-Prilep	3,045	27,500	0	0	0	0	0	0
12	Bitolsko Pole-Bitola	-	54,000	0	0	0	0	0	0
<b>Total:</b>		<b>94,160</b>	<b>88,100</b>	<b>82</b>	<b>33</b>	<b>14</b>	<b>41,072</b>	<b>12,476</b>	<b>8,275</b>



## Water economies (WE)

- Responsible for operation and maintenance of the main structures (dams) and canals which are under state property
- Management contract for 15 years between WE and MAFWE
- 12 water economies established by Government decision
- Supply of water for: irrigation, drinking, domestic and commercial uses, industrial uses, including power generation.
- Autonomous self-funding public organizations
- Managed by Board of water users

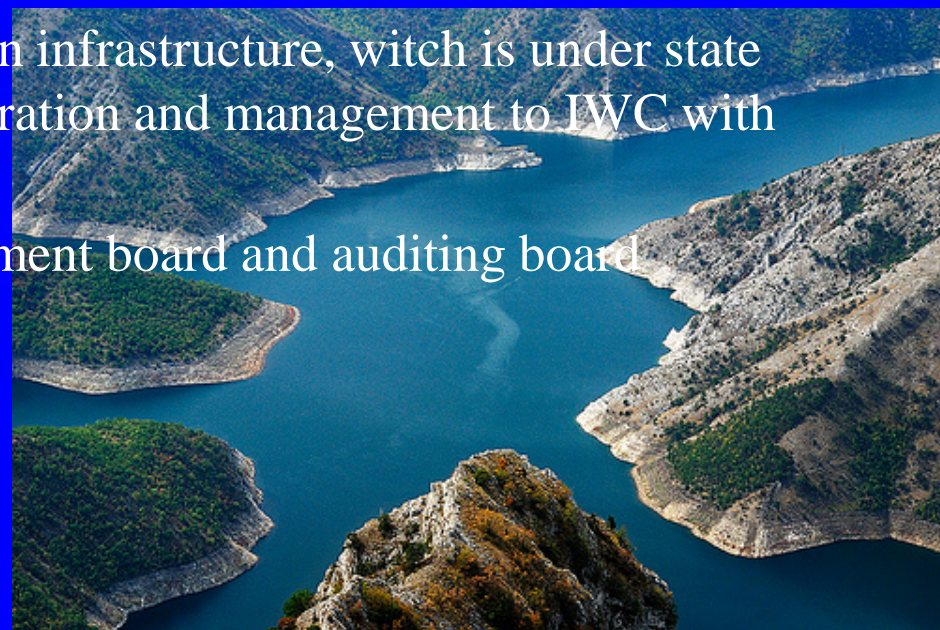






## Irrigation water communities (IWC)

- Association of owners or users of agricultural land associated and responsible for: management, operation and maintenance, construction, reconstruction or expansion of tertiary and/or secondary network or small irrigation schemes
- Manage with secondary irrigation infrastructure, which is under state property, and transferred for operation and management to IWC with Government decision
- Managed by Assembly, management board and auditing board





# Rehabilitation of main irrigation infrastructure





# Rehabilitation of main irrigation infrastructure







**Thank you  
for your attention**

