



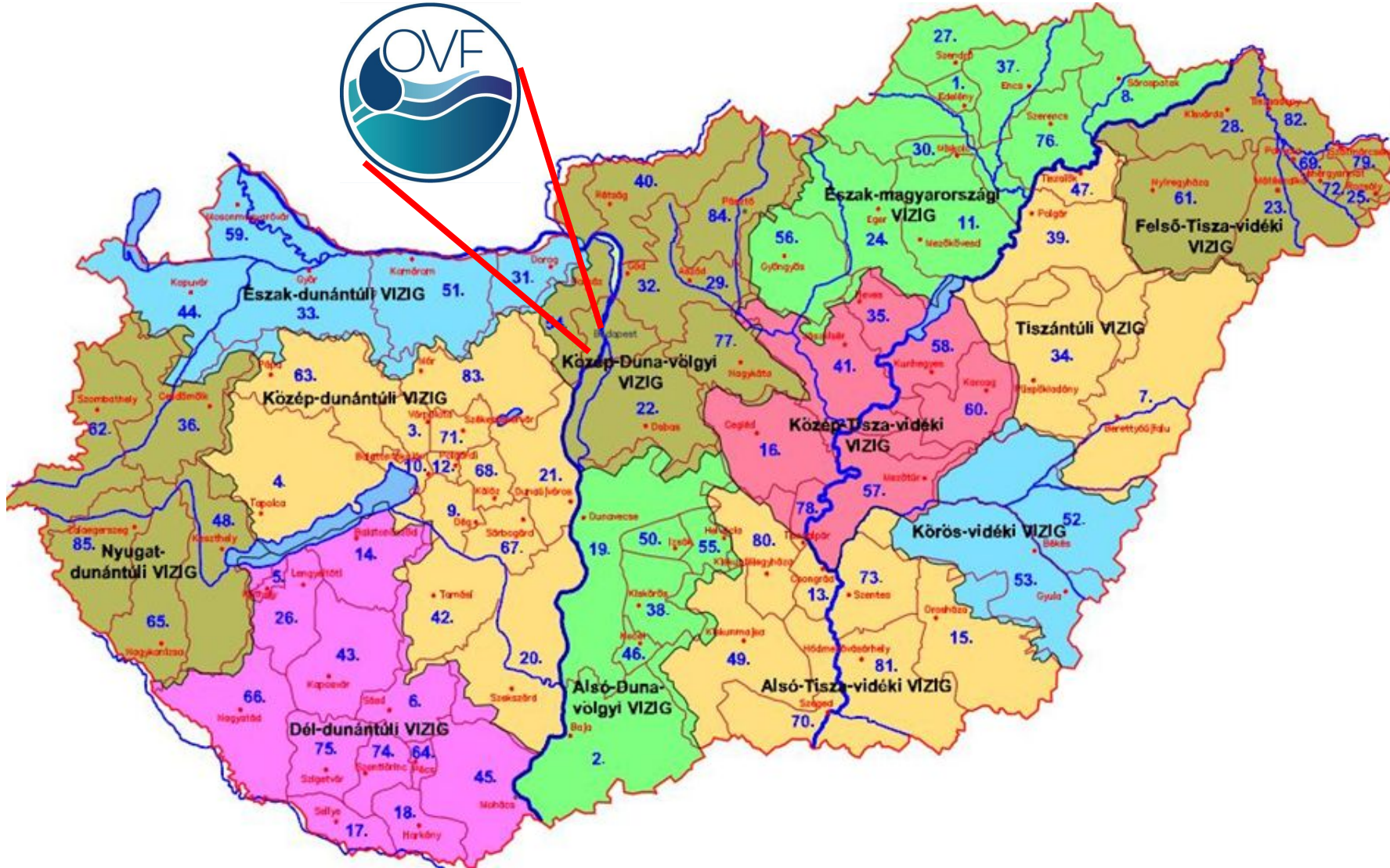
WATER MANAGEMENT IN HUNGARY



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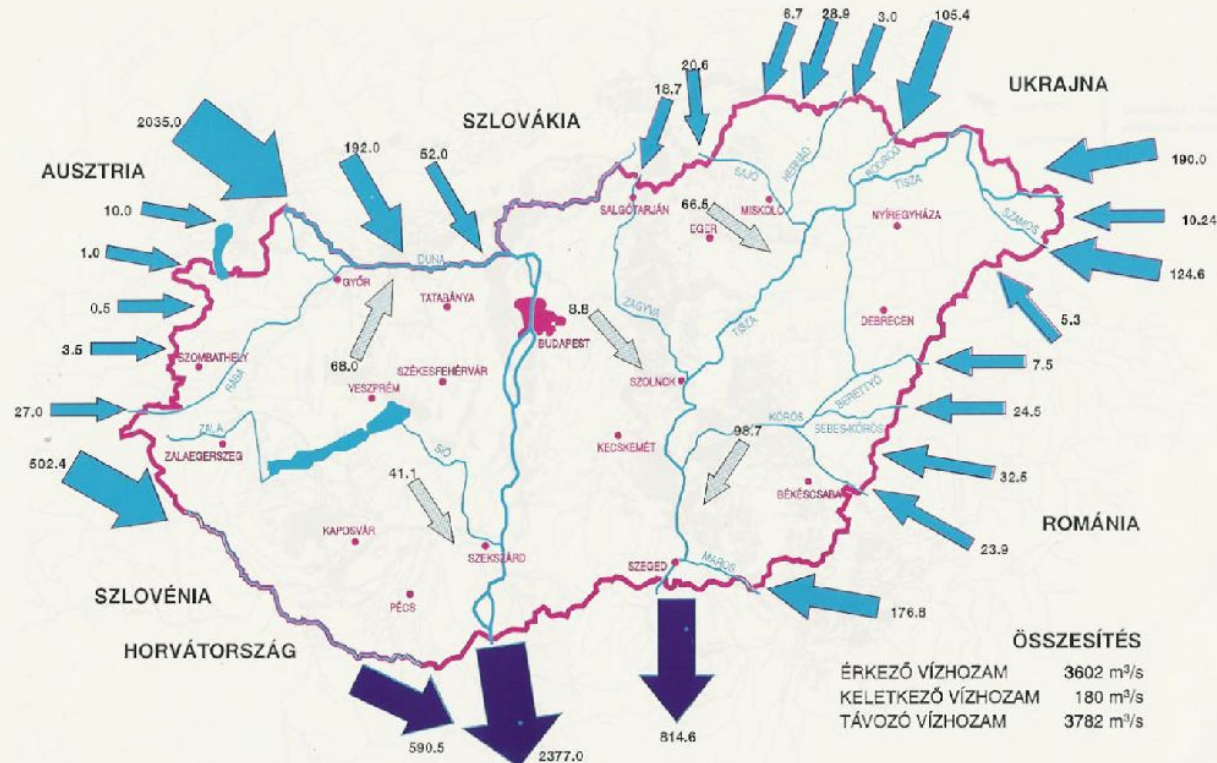
The 12 regional water directorates





Water related issues in Hungary

24 rivers entering into the country



Magyarország nagyobb folyóinak sokévi középvízhozama (m³/s)

3 rivers leaving the country

95% of surface waters originated abroad

Floods, excess waters, droughts

Continental weather effects

Climate change

Sensitive/vulnerable areas



International cooperation in the water sector

- **Bilateral cooperation**
 - Transboundary (neighbouring countries)
 - With other countries (Memorandum of Understanding)
- **Multilateral cooperation**
 - International conventions (UNECE Water Convention, Danube Convention, etc.)
- **European (Union) level cooperation**
 - Common Implementation Strategy
 - Common basic legislation
- **Global water cooperation**
 - INBO
 - Global Water Partnership



Transboundary water commissions

**With all 7 neighboring country – bilateral agreements
- historical form of cooperation–different
structures–identical objectives AT, SK, UA, RO, RS,
CR, SL**

- **Flood management, river engineering**
- **Hydrological forecast, data exchange**
- **Water quality protection**
- **Water management, protection of water resources(quality& quantity)**
- **Integrated River Basin Management**



Data exchange

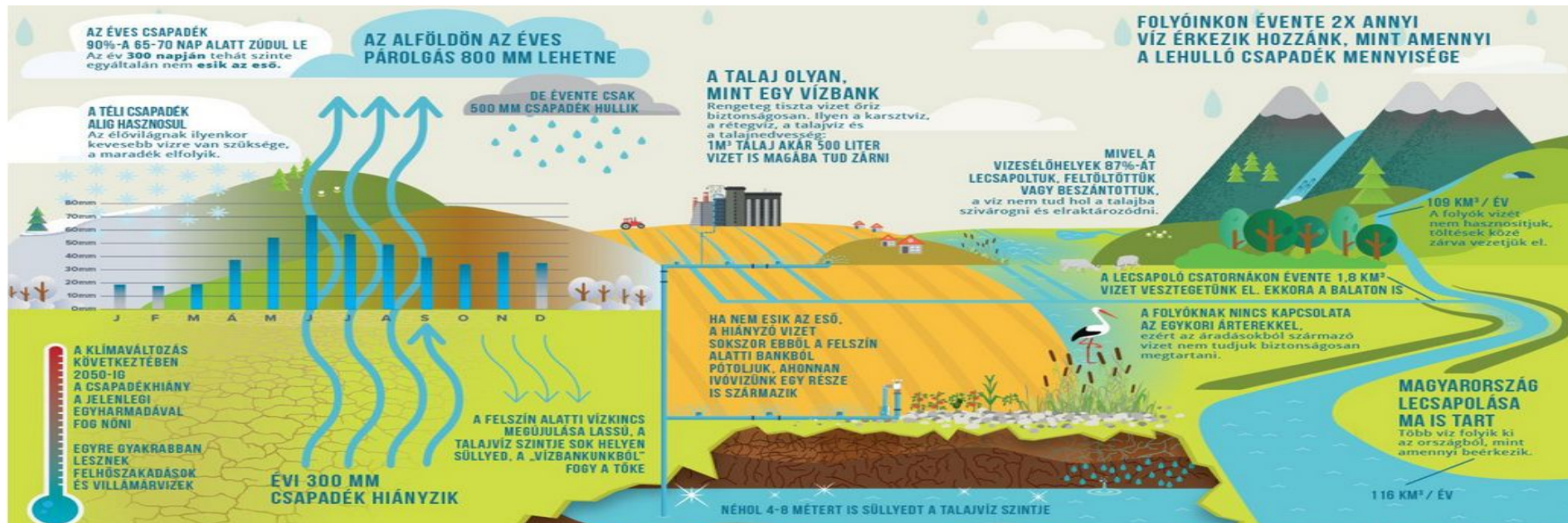
- Data exchange between the countries is regulated by bilateral transboundary agreements
- Bilateral agreements are just a framework, the process varies in the different relations
- The different methodology complicates and hinders the integrated data management
- River basin level data management and data sharing network would be crucial



Initiating common methodologies in transboundary water resource management

- Different countries — different water balance methodologies/ models
- Single, basin wide model, which would guarantee the desired common modelling approach and the coherency of the water balance
- Ad-hoc working group under the umbrella of ICPDR initiating a common water balance model project

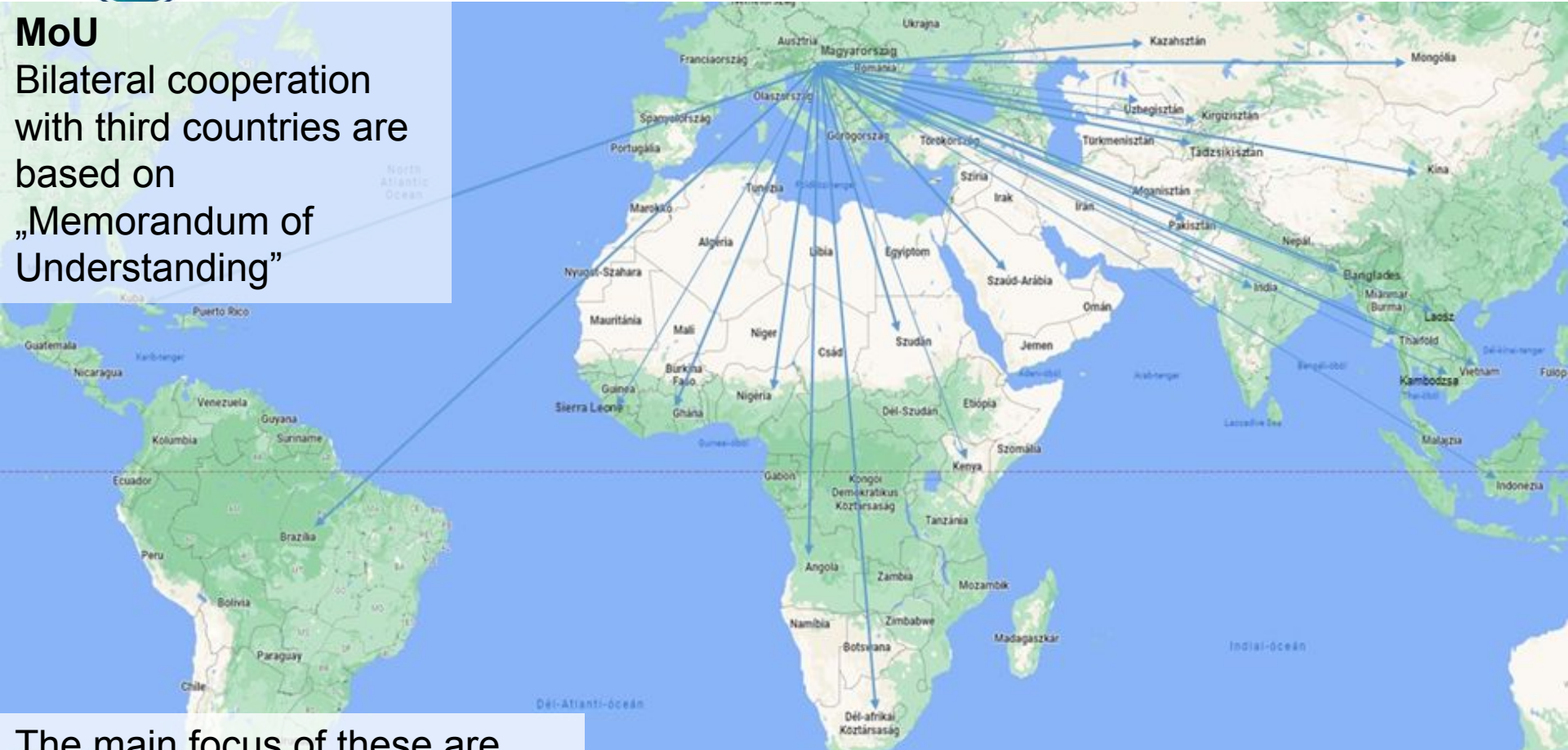
OUR WATER VISION





Bilateral water management relations

MoU
Bilateral cooperation with third countries are based on „Memorandum of Understanding”



The main focus of these are mostly on knowledge exchange, educational programs for foreign experts and students, and the support of water industry export

Algeria	South Africa	Poland	Saudi-Arabia
Angola	Indonesia	North Macedonia	Sudan
Azerbaijan	Israel	Kingdom of Morocco	Tajikistan
Bangladesh	Cambodia	Mexico	Thailand
Brazil	Kazakhstan	Mongolia	Turkey
Cyprus	Kenya	Nigeria	Tunisia
Czech Republic	China	Pakistan	Uzbekistan
Egypt	Kyrgyzstan	Palestine	Vietnam
Ghana	Cuba	Sierra Leone	Cape Verde
India	Laos	Spain	



The EU Water Framework Directive and river basin management planning

- Danube River Basin: 19 countries
- ICPDR – International Committee for the Protection of the Danube River
- EUSDR - EU Strategy for the Danube Region:

- PA4: Water quality
- PA5: Environmental risks





Thank You for Your Attention!

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