

Freshwater management policies and indicators

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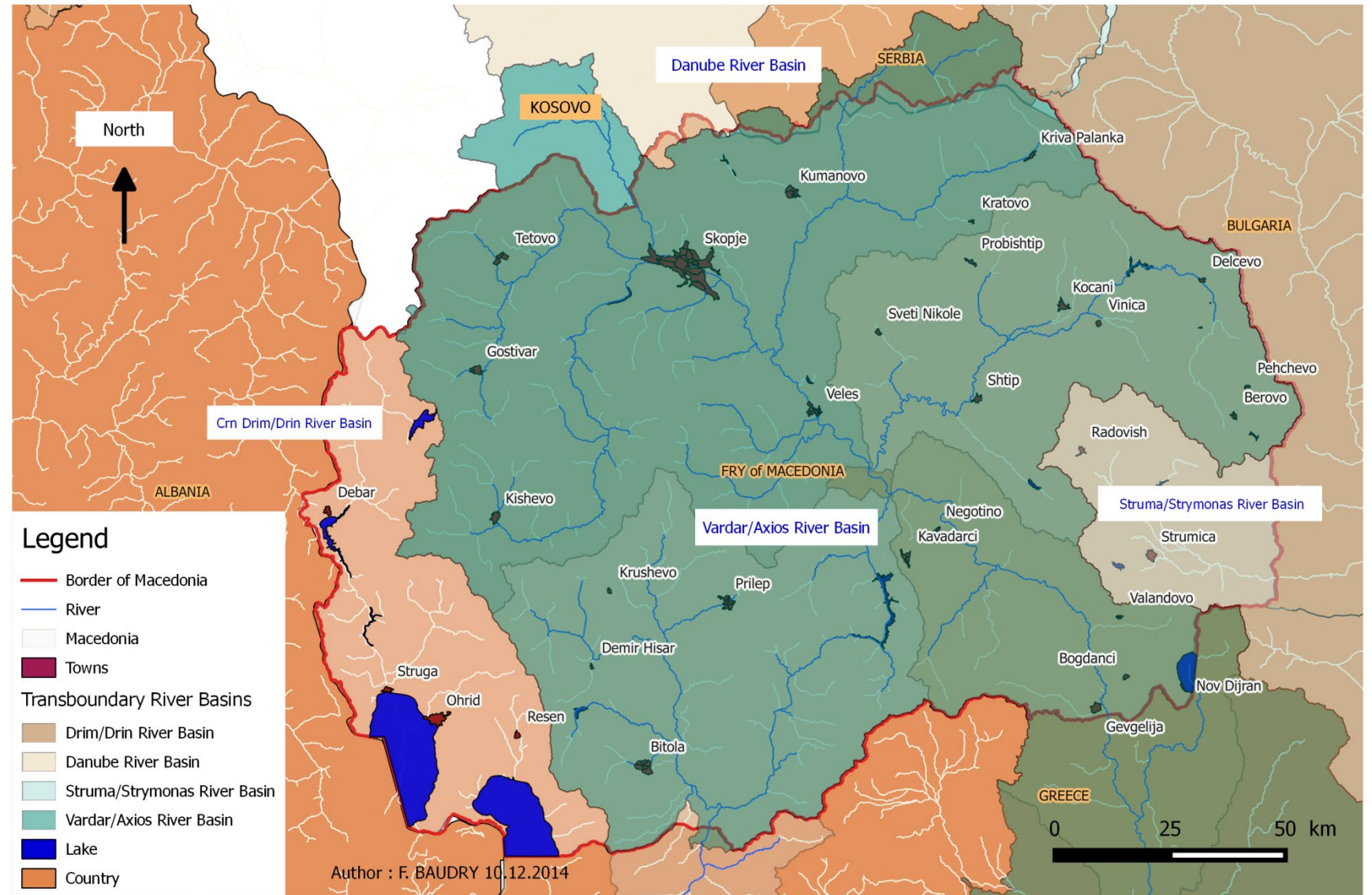
Improved environmental monitoring and assessment
in support of the 2030 Agenda in South-Eastern
Europe, Central Asia and the Caucasus

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Transboundary River Basins and riparian countries

There are about
35 rivers,
3 natural lakes
50 artificial lakes,
1.100 larger sources of
water.

North Macedonia belongs to
areas that have sufficient
water resources.



LEGAL AND INSTITUTIONAL FRAMEWORK



Water resources management in NMK is regulated by:

✓ **Legislation**

- Law on Waters (Official Gazette 87/2008)
- Law on Drinking Water Supply and Urban Waste Water Drainage (2004)
- Law on the Regulation of Prices for Water Services (2016)
- Law on Water Economies (2015);
- Law on Local Self-Government (Official Gazette no. 5 / 02)

✓ **Institutions:**

- ✓ Ministry of environment and physical planning is the main responsible institution for Water Resources Management in North Macedonia
- Ministry of transport and communications - responsible for infrastructure for DWS, WWC and UWWT;
- Ministry of agriculture, forestry and water economy - water for irrigation.
- Ministry of health responsible for drinking and bathing waters quality monitoring.
- Energy Regulatory Commission - responsible for the water tariffs
- National Hydro-meteorological Service, responsible for monitoring the quantity and quality of waters.
- Joint Stock Company “Water Economy” - responsible for irrigation, river maintenance
- Municipalities, for providing water supply, collection and treatment of waste waters

NATIONAL WATER POLICY – EU WATER POLICY



National Water Policy follow EU Water policy through transposition and implementation of EU Water related Directives.

The main strategic documents for Water management

- National Strategy for Waters (adopted in 2012)
- Water Master Plan
- River Basin Management Plans

River Basin Management Plans developed:

- Draft River Basin Management Plan for Vardar River.
- Bregalnica River Basin Management Plan (sub-basin of Vardar river);
- Strumica River Basin Management Plan
- Lake Prespa Management Plan (sub-basin of Drim river);
- Lake Ohrid Management plan (sub-basin of Drim river);

NMK is a Party to the Helsinki Water Convention (2015)

TRANSBOUNDARY COOPERATION



Current Projects:

- GEF /UNDP Drin Project. (preparation of a River Basin Management Plan for Drin river basin.
- The project "Adaptation to Climate Change through Transboundary Flood Risk Management in the Drin River Basin" (CCAwb), implemented by GIZ,
- UNDP Project "Improving Resilience to Floods in the Polog Region" funded by the Swiss Agency for Development and Cooperation (SDC),
- UNDP Project: Integrated Climate-Resilient Transboundary Flood Risk Management in the Drin River Basin.
- Project for preparation of the Groundwater Cadastre of NM, supported by the Swiss SECO

Future Projects :

- IPA Project for Special Equipment for Information System for Water Monitoring
- IPA 2 Project for Implementation of the Flood Directive
- IPA Project "Future Support to the Implementation of the New Tariff System"
- IPA Project Preparation and Implementation of WMP Measures for All River Basins.

TRANSBOUNDARY COOPERATION



Project title: Strengthening the participation of the Western Balkans in the work of the European Environment Agency 2020-2021: Actions for Water and Foresight assessments

- Duration: January-December 2021
- Aim:
 - ✓ Support strengthening expert capacity of countries in reporting data to WISE SoE data flows () and in implementing the water chapter of the National State of Environment Report (SOER)
 - ✓ Via Global Megatrend (GMT) assessment, facilitate a process to incorporate or strengthen the use of participatory foresight outputs into integrated assessments and national SoE reporting.
- Objectives and related activities:
 - ✓ Strengthen reporting to international reporting obligations
 - ✓ Support capacity building in line with the EU Sustainability Agenda, with a focus on ecosystem-based management
 - ✓ Support the implementation of pilot activities tailored to national needs in the implementation of Monitoring, Data, Information, Assessment and Knowledge (MDIAK-C) chain in water quality.
 - ✓ Develop an assessment method for potential implications of Global Megatrends



FRESHWATER MANAGEMENT INDICATORS



		Trend	Target
Nutrients in freshwaters	<ul style="list-style-type: none">• Ensure ecological quality of surface water requiring reduction of eutrophication and nutrient concentrations	↗ Variable trend	☒ Far from target
Oxygen consuming substances in rivers	<ul style="list-style-type: none">• Reduction and prevention of water pollution and thus achievement of good ecological status or potential of waters.	↗ Positive increasing trend	☑ Towards the target
Use of Freshwater resources	<ul style="list-style-type: none">• Ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity	↗ Positive increasing trend	☑ Towards the target



FRESHWATER MANAGEMENT INDICATORS



Irrigated land

• Ensure integrated water resources management implementation

Trend

↗ Variable trend

Target

☒ Towards the target

Water use by sector

• Ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity

↗ Positive decreasing trend

☒ Towards the target

Priority substances in rivers

• Avoiding the deterioration of the waters and the impacts that causes deterioration of water and aquatic ecosystems as well as the achievement of good chemical status

↗ Positive decreasing trend

☒ Towards the target



FRESHWATER MANAGEMENT INDICATORS



Water permits

•Ensure integrated water resources management implementation

Trend

→ Constant trend

Target

☑ towards the target

Drinking water protected area

•Ensure integrated water resources management implementation

→ Constant trend

☑ towards the target



NORTH MACEDONIA - Indicator 6.5.1 score



Section	Average Scores (all values rounded to nearest whole number)
Section 1 Enabling environment	35%
Section 2 Institutions and participation	26%
Section 3 Management instruments	43%
Section 4 Financing	28%
Indicator 6.5.1 score= Degree of IWRM implementation (0-100)*	33%

FRESHWATER MANAGEMENT CHALLENGE

A

DATA COLLECTION, VERIFICATION, STORAGE

- Lack of data
- Data incomparability
- Technology and digitalization

B

NATIONAL CAPACITIES

- lack or insufficiently trained staff
- Not clear set-up of competencies
- Limited c cooperation and interaction

C

COMPLIANCE

- Limited or Insufficient harmonization of the national legislation with the EU one

D

MONITORING

- Maintenance
- Modernization
- Improvement
- Compliance with the WFD requirements



Thank you!

