

# **WATER MENAGEMENT PLAN RB – DRINI BARDH REPUBLIC OF KOSOVO**



**Republika e Kosovës  
Republika Kosova-Republic of Kosovo  
*Qeveria –Vlada-Government***

**MINISTRIA E MJEDISIT DHE PLANIFIKIMIT HAPËSINOR  
MINISTARSTVO SREDINE I PROSTORNOG PLANIRANJA  
MINISTRY OF ENVIRONMENT AND SPATIAL PLANNING**

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# GENERAL INFORMATION

It is traversed by four river basins that run off into three seas

- Drini i Bardhë river basin – Adriatic Sea
- Ibri river basin – Black Sea
- Morava e Binçës river basin – Black Sea
- Lepenci river basin – Aegean Sea



# CURRENT SITUATION

Kosovo faces serious problems when it comes to the quality of water.

- Discharge sewage waters- directly to the rivers
- Economic development of the country increased the level of pollution (sewage waters, industrial remains and garbage)

# Legislation

- Water Law 04/L-147
- Water Framework Directive 2000/60EC
- Drinking Water Directive 98/89 EC
- Integrated pollution prevention and control 96/61EC
- Directive of protection of groundwater against pollution and deterioration 2006/118
- Directive the protection of waters against pollution caused by nitrates from agricultural sources 91/676 EC

# Water Management Plan

## EU's WFD

- **Article 5:**
- characteristics of river basin district, review of environmental impact of human activity
- **Article 8:**
- establish of monitoring program of the surface water and underground water status.

## Water Law

- **Article 35:**
- Water Monitoring Program.
- Annex 1:
- surface water status (ecological and chemical )
- underground water (chemical and quantity)

## Objective

- The fundamental objective of the design, approval and implementation of this document "Water Monitoring Program" is to establish a political base and the sustainable management on long-term quality and quantity of water which in future will serve to determine the status better ecological, chemical and drafting of policies for economic development of Kosovo.

## Implementation new water law NB.04/L-147 for Kosovo water

- Administrative Instruction NB.40/07 Criteria for Protection Zone Drinking Water Source;
- Decision of Prime Minister of Kosovo for forbiddance of the sand and gravel exploitation in the river;
- Start Drafting of the Strategy for Water
- Drafting the Plan for River Basin Management Plan



- Starting with contraction of Plant for waste Water Treatment – Prizren PE 50.000

- Wastewater Treatment Plant in the Skenderai municipality in function with a capacity PE 10.000;
- Strategy and Action Plan for Biodiversity 2011-2020 ;
- The designed of Surface and ground Water Monitoring Plan;
- Feasibility of west water Treatment Plant of the Gjakova , Peja and Klina city .

# Existing Monitoring

- **Monitoring of surface water**

- *Physico –chemical*

- 76 points

- 45 physical - chemical parameters

- *Biological elements* (will start this year)

- Benthic invertebrate fauna and

- Fish fauna

- **Monitoring of Underground waters**

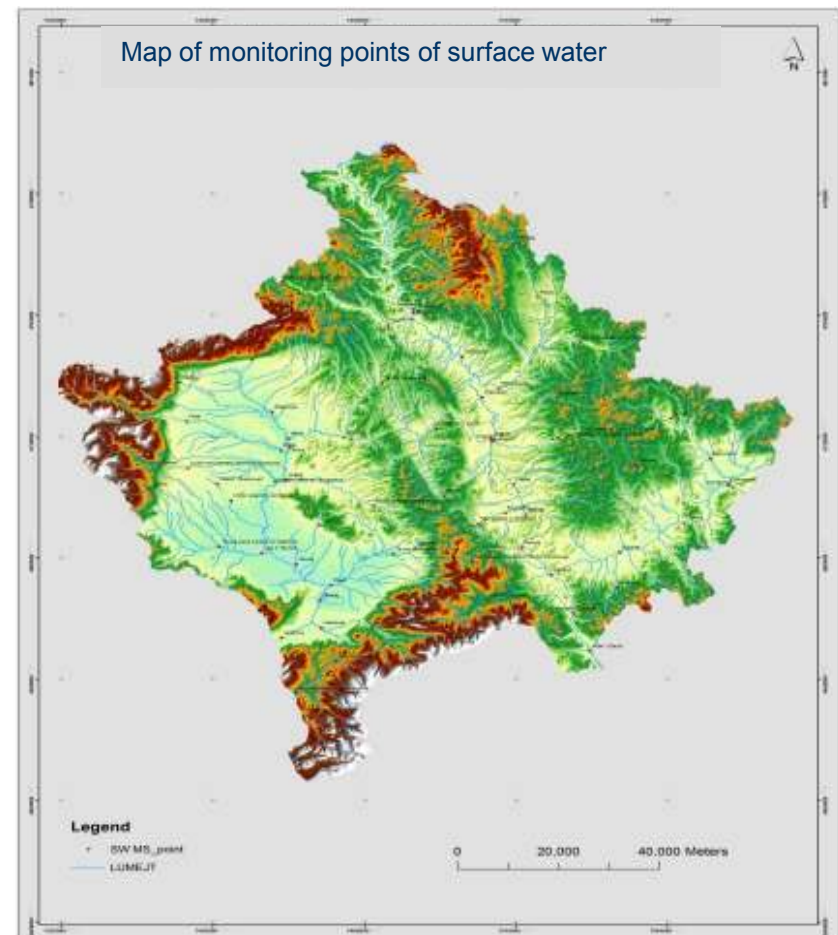
- *Physico-chemical monitoring*

- 69 points

- 42 physical - chemical parameters

# Criteria of Identification Monitoring Point

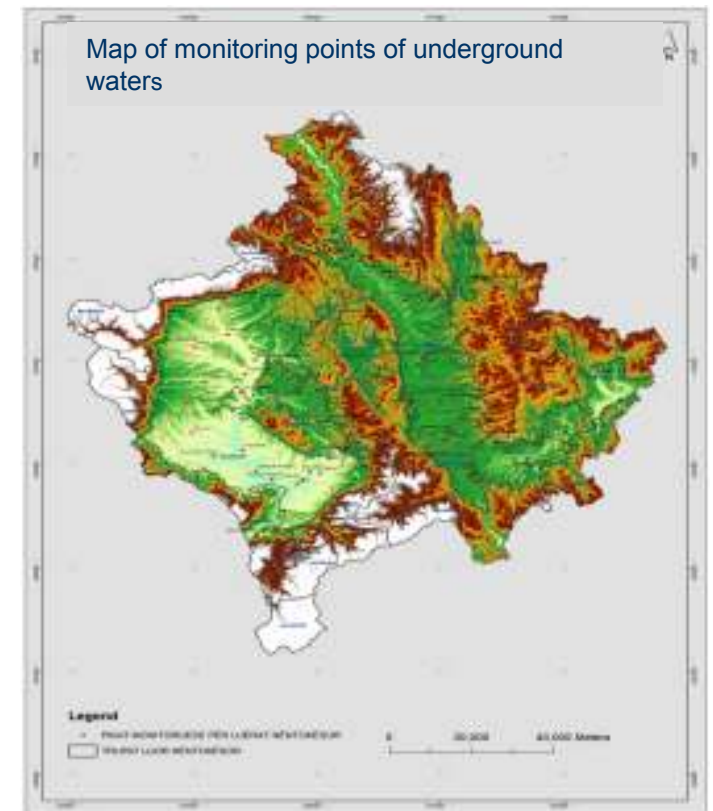
- characterization of river basin
- river typology
- identification of pressures



# Underground Water Monitoring Points

## Frequency of groundwater monitoring


Tipet	Intergranulare flow	Fracturale flow	Carstice Wells
No significant impact	Annual	Annual	Twice a year
Visible contamination	Twice a year	Twice a year	Twice a year



# Water Body Status

- Ecological state

- 5 levels:

- Very good state 
- Good state 
- Medium state 
- Poor state 
- Bad state 

- Chemical state

- 2 levels:

- Good state 
- « not a good » state 

# Ecological Status

- Under the WFD
- Biological quality elements :
  - Macrophyte and fitobentozat
  - Fauna benthic invertebrate (macro invertebrate)
  - Ihtiofauna
  - phytoplankton (rivers/slowly rivers )
- Monitoring program of Kosovo
- Biological quality elements :
  - Composition and Diversity of Fauna of Invertebror
  - Composition , Diversity and Age Structure of Fish Fauna



# Chemical status – How to access this?

## 1. Identify significant pressures (pollution sources)

- Land use (farms, towns, forests, grassland).
- Industry, mines and landfills.



## 3. Data analysis and characterisation:

Confirm chemical status

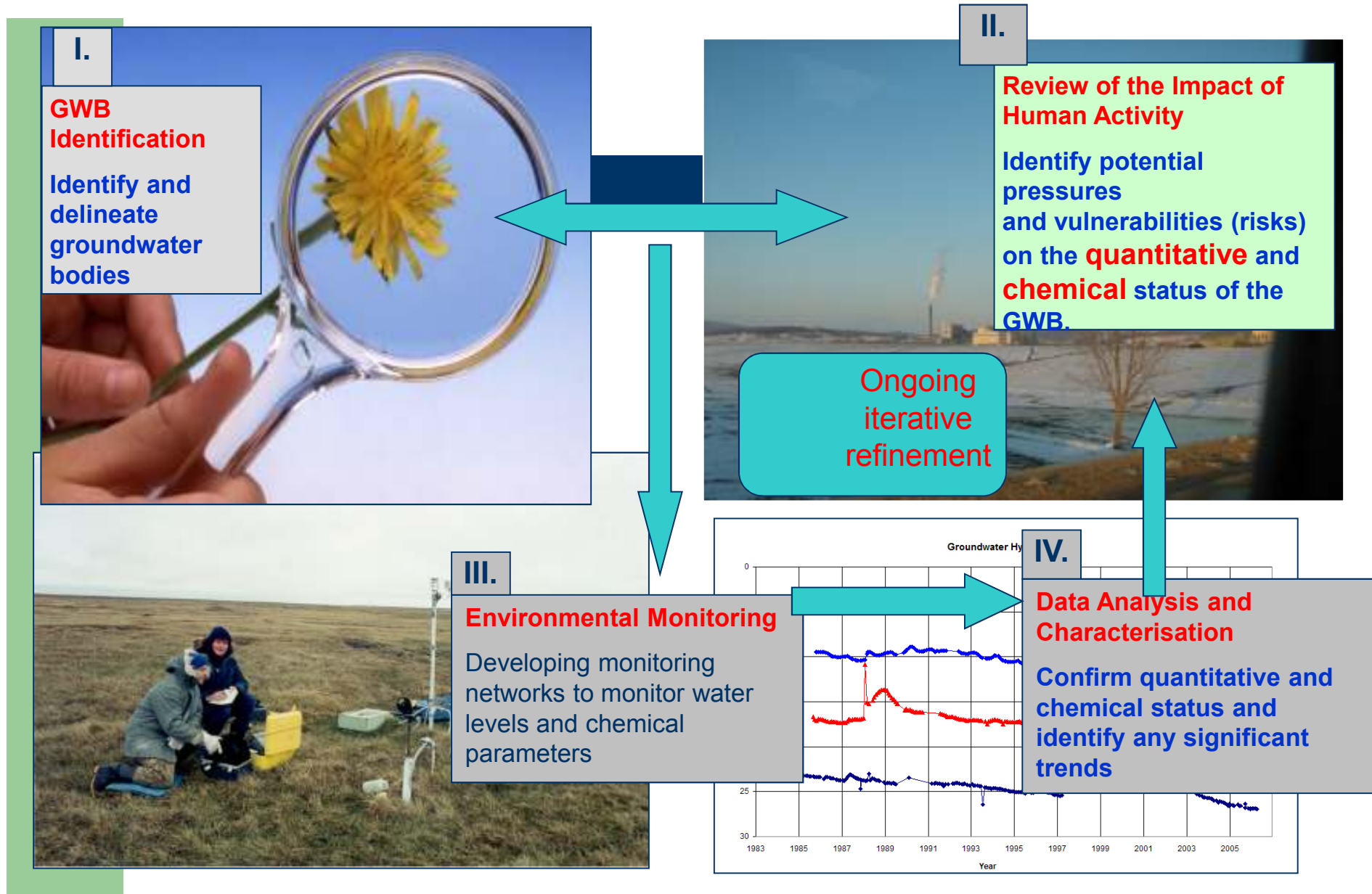
- Determine type, amount and chemical composition of pollutants.
- Determine GWB susceptibility to pollutants.
- Trend analysis

## 2. Environmental monitoring:

- Collect threshold chemical values
- Collect hydrogeological data (e.g. depth to water table, groundwater velocity, residence times)

Decide on the **likely** effects of human activities on groundwater

# Initial steps in the WFD - Assessment of Current Status







**THANK YOU FOR YOUR  
ATTENTION**