

Protection of water resources in Poland

Ph. D. Małgorzata Bogucka-Szymalska
Deputy Director of the Department of Water Management
and Inland Navigation

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Condition of water resources in Poland

- The average rainfall = **698.9 mm**
 - The water outflow from the whole country = **115.2 mm**
 - Water retention in Poland = **6.5%** of the annual outflow
 - The flowing waters resources = **41,4 billion m³**
 - The outflow from the sub-basins within Polish borders = **36,3 billion m³**
 - Groundwater resources = approx. 12.73 km³ / year (approx. 35 million m³ / day)
 - Amount of water per year per capita = **1580 m³**
- 
- 3 times smaller than the European average and 4.5 times smaller than the global average.

Water management in Poland

9 river basins

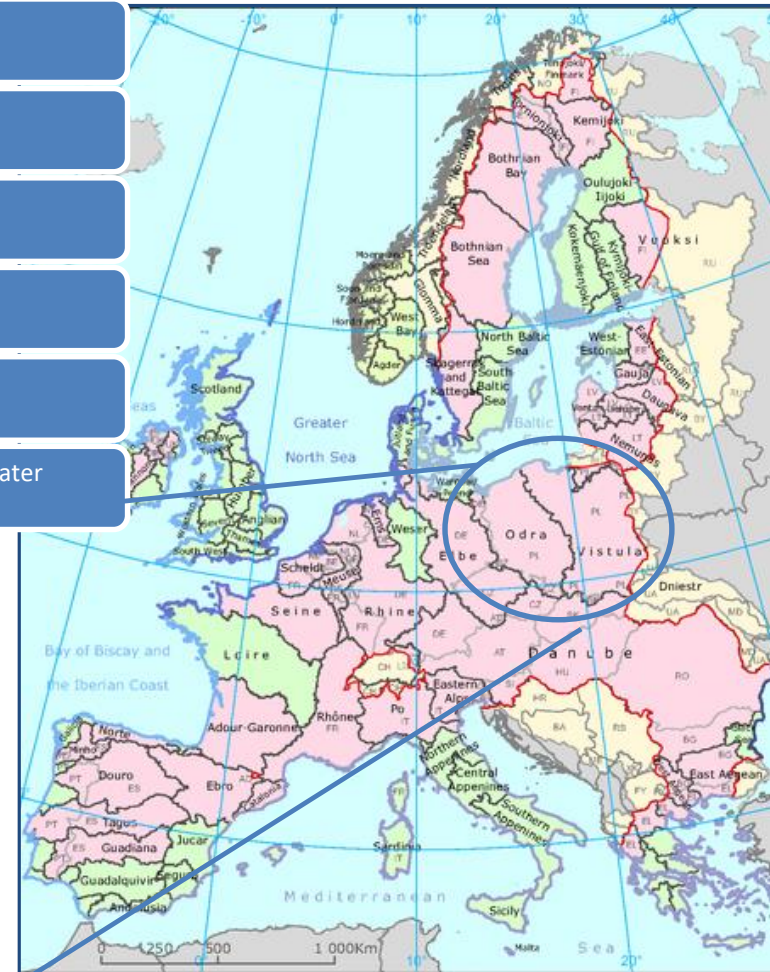
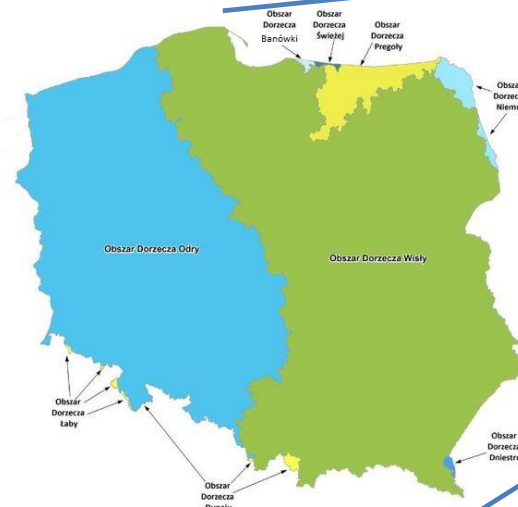
24 water regions

State Water Holding Polish Waters

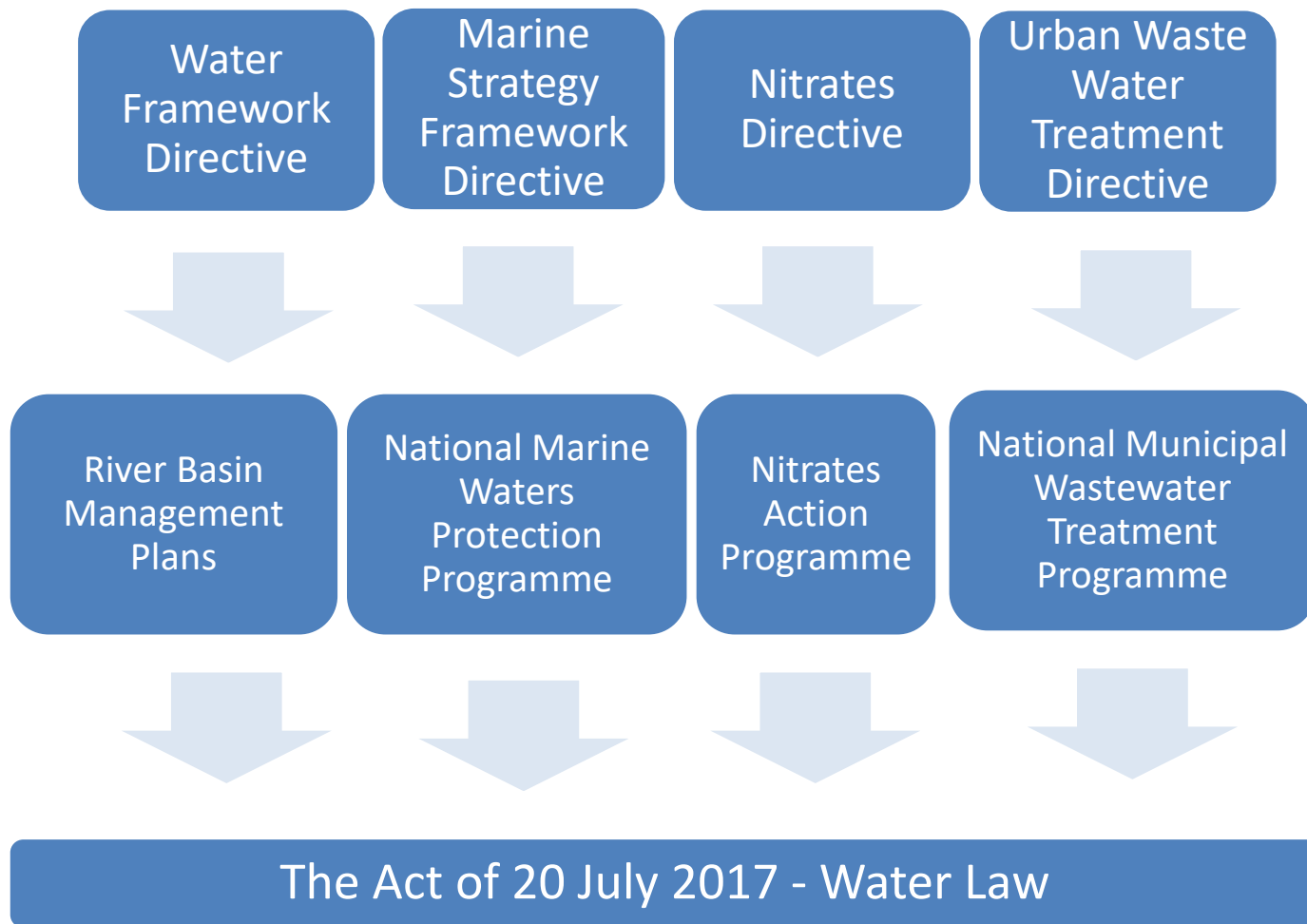
11 water management authorities

50 management authorities of the sub-basins

2 research centres (The Institute of Meteorology and Water Management & The Polish Geological Institute)



Legal instruments regarding water protection



Water Framework Directive

River Basin
Management
Plans
+
Programme of
Measures

Basic planning documents required by the Water Framework Directive:

- Programme of Measures (so called National Water and Environmental Programme - NWEPP)
- River Basin Management Plans (RBMPs).

Both documents are reviewed every 6 years.

Programme of Measures - defines measures aiming at improving or maintaining good status of waters.

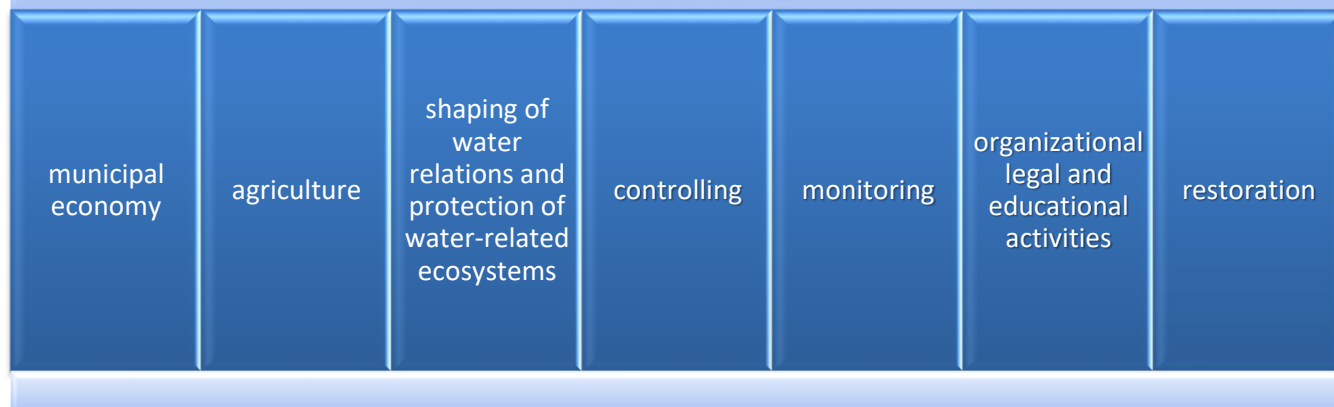
RBMPs include:

- objectives for each water body;
- reasons for not achieving objectives where relevant;
- a summary of PoM required to meet the objectives.

Measures to achieve good status of surface and groundwater

River Basin
Management
Plans
+
Programme of
Measures

Main categories of measures in RBMPs



The total cost of action programs included in the Programme of Measures is about **6,2 billion EUR**, of which **97%** of this value are the costs of basic measures, ie actions resulting from existing plans or programs (including National Municipal Wastewater Treatment Programme), which even without the need for PoM should be implemented at the whole area of Poland.

Drinking Water Resources Protection Considerations into Water Law

Measures to protect groundwater

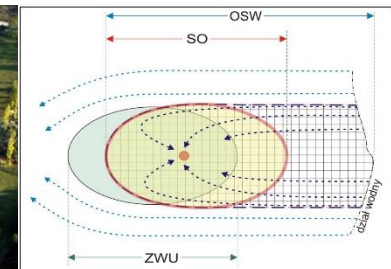
Safeguard zones (for water intake)

Direct protection areas

- Compulsory (when water exploitation permission is required- specific use of water)
- Ex officio established
- Area of extraction influence (to ensure water safety)
- Fenced area (water supply devices) at the expense of the owner

Direct and indirect protection areas

- Determined, if necessary, on the basis of the risk assesment analysis and documentation
- Upon request or ex officio established
- Water recharge area (or 25 years time of groundwater exchange/residence time)
- Prohibitions and restrictions in the use of land to protect the quality and quantity of water captured
- At the expense of the owner of the water intake



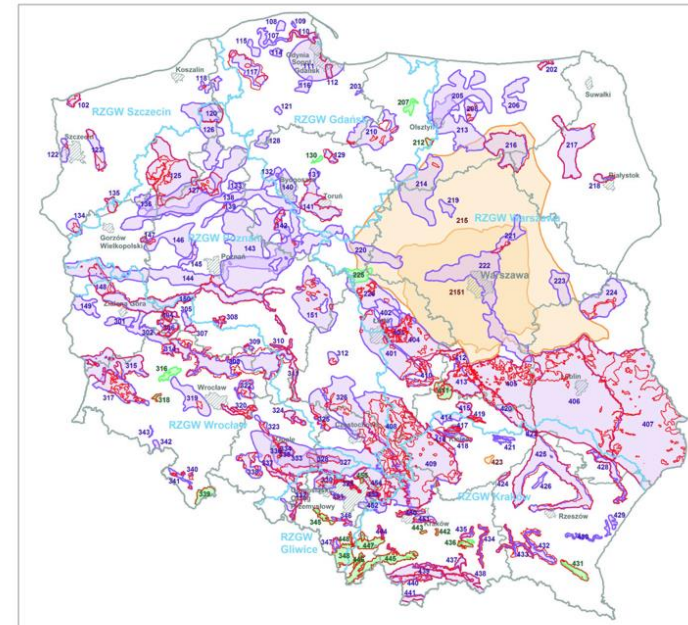
Protection area of Major Groundwater Reservoir (GZWP)

Major Groundwater Reservoir (GZWP) no. 131:

- Hydrogeological unit of usable aquifer
- Unit of water balance
- Regional groundwater resources
- Highest quality and quantity of groundwater

Protection area MGR

- Ex officio established
- Determined on the basis of hydrogeological documentation (prepared by Polish Geological Institute)
- It may be prohibited or limited to carry out works or activities that may cause permanent pollution of the land
- Landowners are entitled to compensation under the terms of water law



National Programme for Municipal Waste Water Treatment 2003-2016



National
Municipal
Wastewater
Treatment
Programme
2003-2016
**14.8 billion
euro**

Construction and
modernization of
collective sewage
systems



84, 800
kilometers of
new sewer
networks

Construction of
new sewage
treatment plants



403 new
municipal
wastewater
treatment
plants

Expansion and
modernization of
existing sewage
treatment plants



1575
construction
projects

National Programme for Municipal Waste Water Treatment after 2016



Actions after
2016

Between 2017 and 2021, it is planned to build 116 new sewage treatment plants and carry out other investments on 1010 treatment plants

It is also planned to build 14,661 km of a new sewage network and modernize 3,506 km of the existing network.



Financing measures to protect water resources

State Budget

269 mln EUR in 2019
75% increase in relations to 2018

National Fund for
Environmental
Protection and
Water
Management

5,3 mln EUR
in 2019

EU Funds
Operational
Programme
Infrastructure
and Environment
2014-2020

1 889 mln EUR
for water and sewage management
700 mln EUR
for adaptation to climate change
(incl. projects to achieve good status of water
bodies, strategic planning documents and
support for systems of small retention)

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