



belini

LIFE Platform meeting FOCUS ON WATER RESILIENCE STRATEGY

LIFE Strategic Integrated Projects implementing River
Basin Management Plans practices

Day 2.

Workshop

DIGITALISATION / INNOVATION smart water, use of
AI, data collection and management



Katarzyna Izydorczyk

14-15 October 2025

Brussels

This meeting is
organised by



Project title: **LIFE Pilica: Implementation of RBMN in the Vistula basin on the example of Pilica river catchment**



Beneficiary/ies: PGW Wody Polskie (CB), Europejskie Regionalne Centrum Ekohydrologii PAN (AB), Fundacja na rzecz Rozwoju Polskiego Rolnictwa (AB), FPP Enviro (AB)

Total Budget: 16,3 mln EUR

Start and end dates: 2021-2030

Presented by:

Katarzyna Izydorczyk

k.izydorczyk@erce.unesco.lodz.pl



Pilica river basin, Poland

9 251 km²
basin area

5 provinces

93 communes

84 surface
water bodies

Ecological status:
0 WB - very good & 5 WBs - good



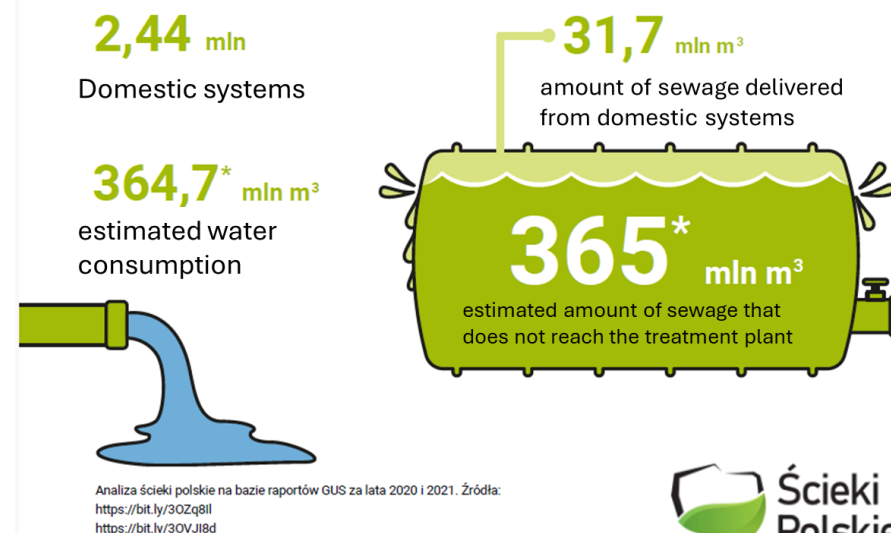
FOCUS on River Basin Management Plans implementation: CHALLENGES & POTENTIAL SOLUTIONS



CHALLENGES:
Cyanobacterial blooms in the Sulejow Reservoir as a consequence of excessive phosphorus and nitrogen loads from the catchment area

ONE OF THE PRESSURES:

Only 10% of the wastewater produced by domestic systems reached wastewater treatment plants in 2020–21



Source : Ścieki Polskie Sp. z o.o.



POTENTIAL SOLUTIONS:
Digitisation and Legislation:
Allies in Reducing Water Pollution from Wastewater Management

Source : Ścieki Polskie

Measures included in RBMP to reduce pressure from wastewater management

are based on the Act of 13 September 1996 concerning the maintenance of cleanliness and order in municipalities.



DZIENNIK USTAW RZECZYPOSPOLITEJ POLSKIEJ

Warszawa, dnia 25 lipca 2022 r.

Poz. 1549

ACT of 7 July 2022 amending the Water Law Act and certain other acts.

It introduces amendments to the Act of 13 September 1996 **on maintaining cleanliness and order in municipalities** (Journal of Laws of 2022, item 1297).



Art. 6

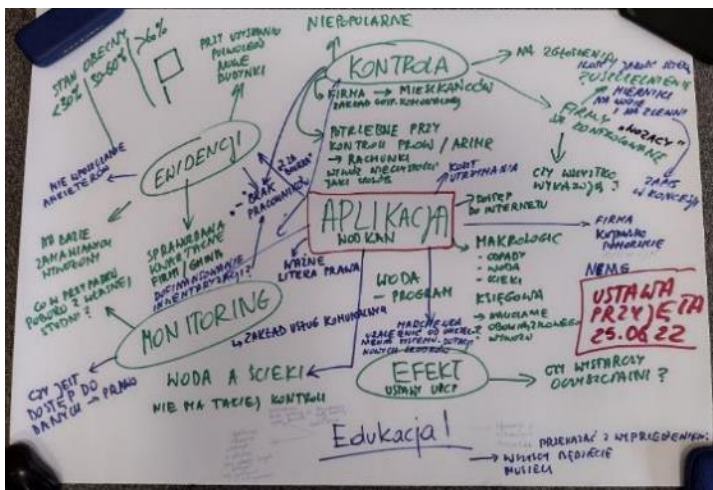
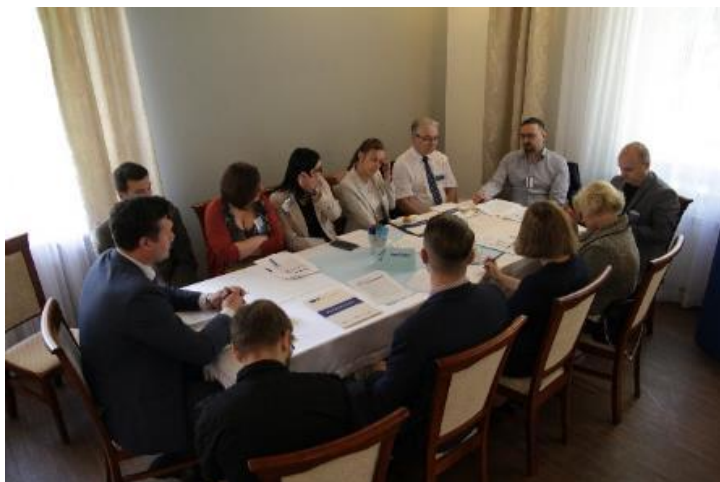
5aa. The head of the local authority, mayor or city president is **obliged to carry out the inspection** referred to in paragraph 5a at least **once every two years** in accordance with the **inspection plan [...]**



Art.9z ust 7

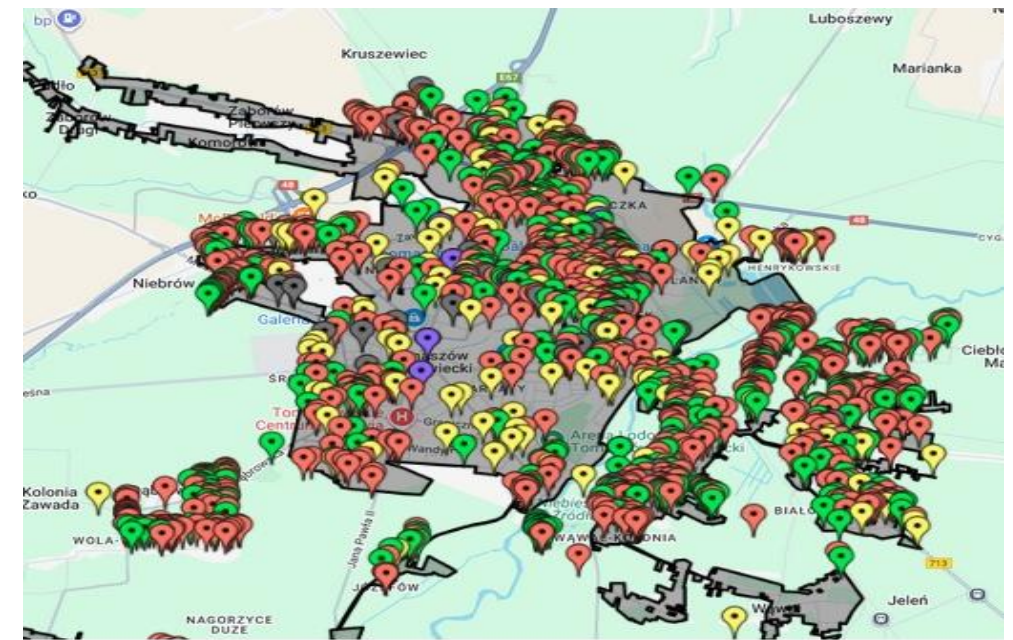
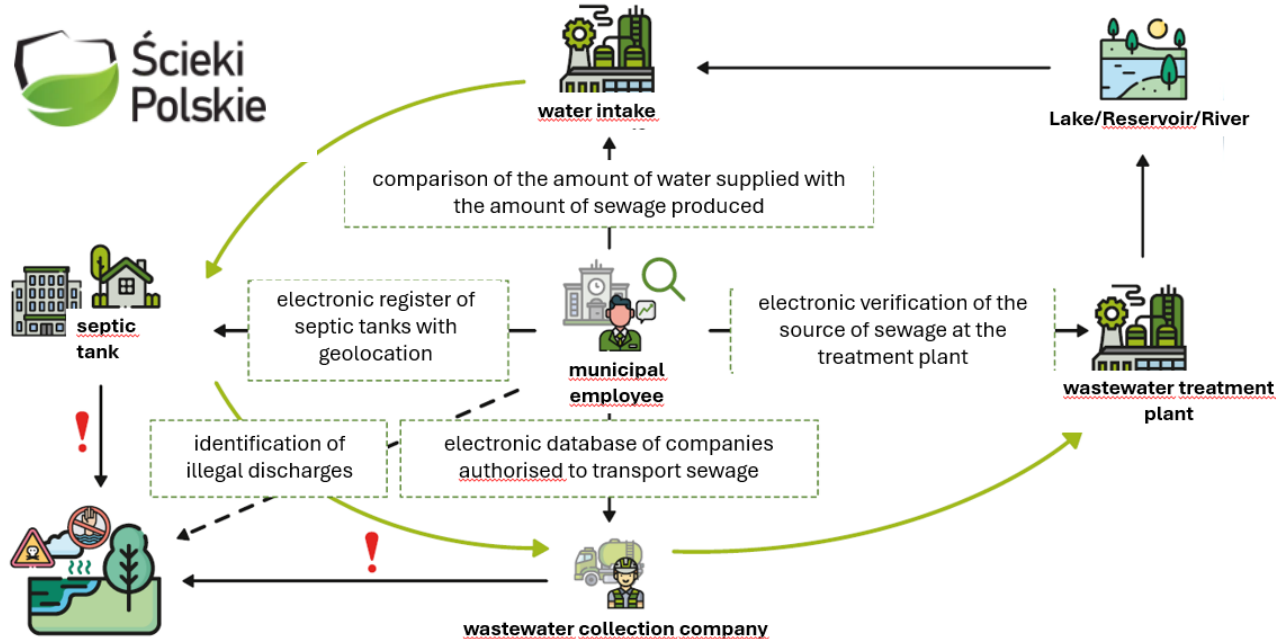
7. If the head of the local authority, mayor or city president fails to fulfil the obligation referred to in Article 6(5a), the municipality shall be subject to a **fine of between PLN 10,000 and PLN 50,000**

Close **cooperation with stakeholders** in identifying needs for improving wastewater management in rural areas



- **Workshop, 27-28 October 2021:** Challenges in water and sewage management in areas outside organised agglomerations' 1st Catchment Area Stakeholder Meeting
- **Workshops, May/June 2022:** Application for the registration, monitoring and control of septic tanks and domestic sewage treatment plants during the 1st cycle of Regional Stakeholder Meetings
- **Thematic seminar, 5 October 2022 :** New tasks and responsibilities of municipalities in the field of liquid waste in the light of the latest legal acts
- **Workshop, May/June 2023:** The approach of municipalities to the changes introduced in the control of waste from septic tanks and domestic sewage treatment plants during the 2nd cycle of Regional Meetings
- **Thematic seminar, 12 March 2025:** The effectiveness of a wastewater management tool for local governments

Digitisation of the monitoring of delivered sewage

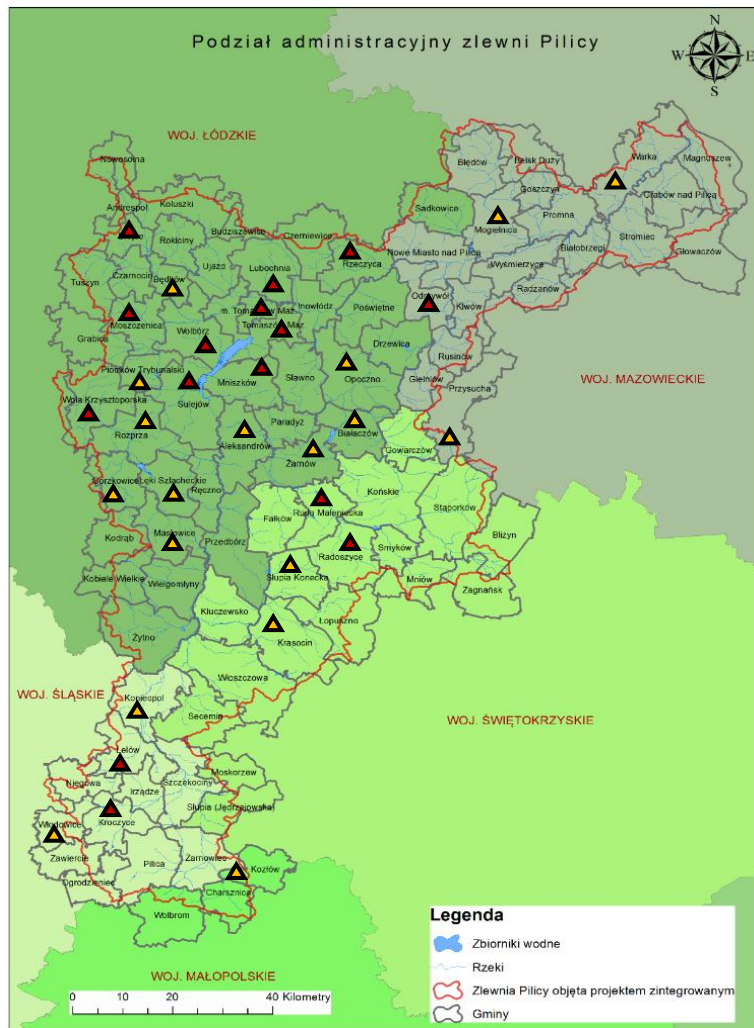


Geolocation of septic tanks and domestic sewage treatment plants

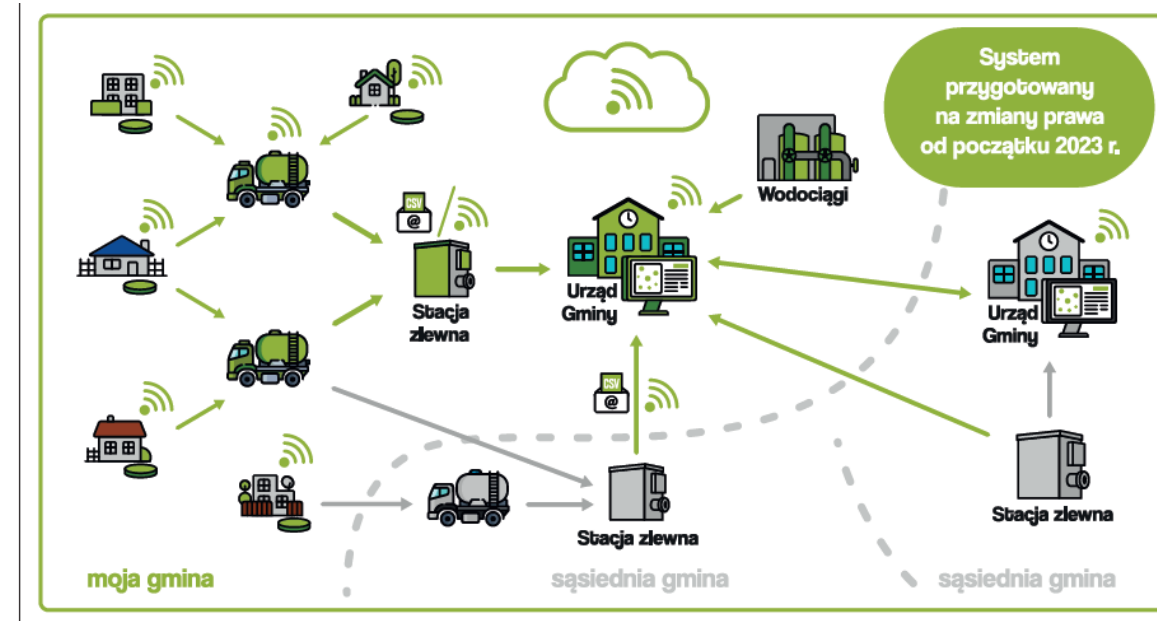
Benefits:

- Presentation of data on a map
- Alert system informing about exceeding the minimum frequency of waste collection
- Automatic completion of records based on data from sewage disposal companies and catchment area data
 - Mass document generation
 - Control management module
- Integration of data from the wastewater collection station and water supply station
 - Annual summary and report sent to RZGW and WIOŚ

Implementation in 33 municipalities in the Pilica basin of application, which enables digital circulation of information on delivered wastewater (costs covered by the LIFE Pilica project)



- ▲ **STAGE 1, 15 municipalities, and 11 sewage treatment plants, > 1 January 2024 for 18 months using the application**
- ▲ **STAGE 2, 18 municipalities, and 11 sewage treatment plants, > 1 January 2025 for 18 months using the application**



Source : Ścieki Polskie Sp. z o.o.

The 'Monitoring Ścieki Polskie' application

The effect of activities taken by municipalities:



An average 50% increase in the number of contracts
concluded for waste collection



An average 51% increase in the frequency of waste collection (based on invoices and/or reports submitted by waste disposal companies)



An average 43% increase in the amount of sewage collected
from properties equipped with septic tanks in municipalities
in 2024 compared to 2023



Thank you for your attention

Katarzyna Izydorczyk
k.izydorczyk@unesco.erce.lodz.pl



Co-authors| W. Frątczak, M. Kuzior (ERCE PAN) , W. Witowski (Ścieki Polskie)

