



# Interactive Water Management BSR IWAMA

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# *Union of the Baltic Cities*



City network founded 1991, 102 member cities in 10 countries

Forerunner of the region, contributes to co-operation and joint projects, participates to policy development, the link between member cities,

Objective is balances, democratic and socially, economically and environmentally smart development within the BSR







# ***UBC Commission on Environment***

Founded 1997, location Turku City in the South-West coast of Finland

International staff of 19 experts from Finland, Poland, Ukraine,

Denmark, Belarus



# Background



Nutrient removal and sludge treatment\* on the level of HELCOM recommendations require investment funds and capacity and funds for operation.



PRESTO experience in Baranovichi:

- Investment costs plus 10% increase in operational costs → financially and politically not feasible

\* Recommendation for sludge treatment are currently developed

# Background

- Incentives, support and improvement of cost efficiency is needed.
  - Possibility for significant improvements on resource efficiency by smart process optimization and investments.
  - Possibility for new business opportunities and innovative, cost and energy efficient technology development.
  - Possibility for peer-learning and so fasten mainstreaming of new methods and technologies.
- IWAMA support and ease the way to apply HELCOM recommendations in BSR (EU, Russia and Belarus)



Picture: John Nurminen Foundation

# Relation to EUSBSR

Contributes to the “Clear Water in the Sea” objective - supporting wastewater treatment plants to reach HELCOM recommendations for outflowing nutrient concentrations.

Supports the objectives of the Priority Area NUTRI – special focus on actions “Improving wastewater treatment” and “Co-operate with non-EU Member States”.

Also contributes to achieving the objectives of “Horizontal Action Neighbours” and specifically the implementation of the Action “Strengthening Environmental Cross-border Competence in the BSR”.



Picture: John Nurminen Foundation

# *Field of activities*



The IWAMA project addresses three main means of supporting municipal WWTPs in reaching HELCOM recommendations:

1. the need for structured lifelong learning among WWT operators and experts
2. the need to operate the WWTPs more resource-efficiently
3. the need to improve and develop sludge management.



Picture: John Nurminen Foundation

# *Main outputs*

## OUTPUTS OF THE MAIN PROJECT:

1. Creation of Baltic Smart Water Hub
2. Creation of WWT Energy Factory –concept
3. Creation of Smart Sludge Management –concept
4. Future concepts for Baltic Smart Water Hub

