

BEST – Better Efficiency for Industrial Sewage Treatment



BEST workshop Gdansk June 12, 2018 City of Helsinki Kajsa Rosqvist, Project manager





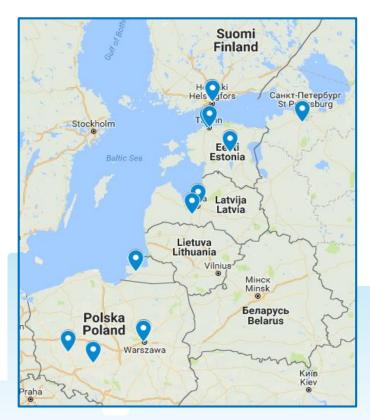




Partners

Cities, universities, expert and waterwork organistaions, industrial companies, WWTPs

+ 30 associated partners













Duration and funding

Duration: 1.10.2017 - 30.9.2020

Budget: 3,6 million €

Co-funding:

European Union Interreg Baltic Sea Region (75/85 %), Russian Federation financial support Own funding by partners

The project has been granted an EU Strategy for the Baltic Sea Region Flagship status (Policy Area Nutri)

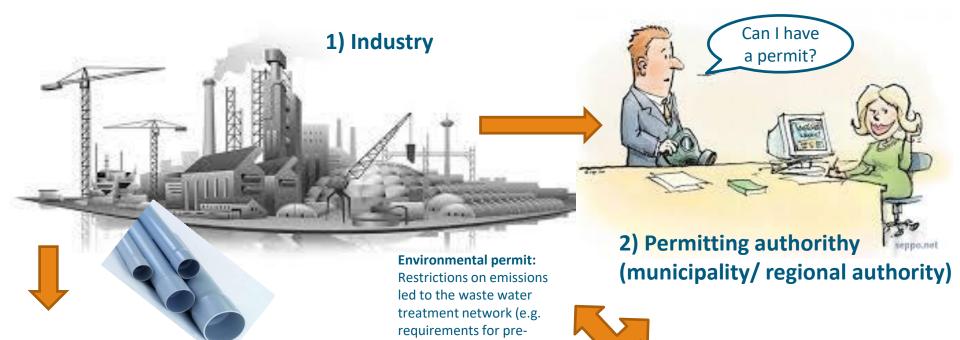












treatment)

3) Local waste water treatment plant



Cooperation models

- Industrial waste water treatment contracts hand in hand with environmental permits
- Joint supervisions and monitoring
- Regular joint meetings
- Models for emergency situations
- **Technical solutions**, e.g. pre-treatment
- Industrial waste water treatement guidelines, materials and good examples

1) Assessment of the current situation

- 1. Compiling of a coherent description of the current situation in treatment of industrial effluents entering municipal WWTPs in the Baltic Sea Region.
- **2. Testing pilot technologies** for removing phosphorus, hazardous substances and other substances from waste water.

Leads: Riga Technical University, Tallinn University of Technology









2) Capacity development

Increasing the **capacity and competence** of WWTPs, industrial companies and local and regional authorities

- ✓ 6 international workshops (in Helsinki, Gdansk, Tallinn, Riga, Kaliningrad, Warsaw) for BEST partners and local stakeholders.
- ✓ National events (Estonia, Latvia, Poland, Kaliningrad, Lithuania) by network organisations and waterwork associations and study visits to WWTPs in BSR
- ✓ Materials compiled to a **learning package and** training concept in for further educational use

Leads:
Gdansk Water Foundation and Estonian Waterworks
Association



3) Local cooperation models and investments

- Enhancing cooperation between local and regional stakeholders (WWTPs, industry, environmental authorities) by developing local management models
- **2. Technological investments** to achieve better process control and treatment of industrial effluents

Leads: City of Helsinki, John Nurminen Foundation and investing partners

- 1. Optimal utilization of industrial sewage for energy production
 - Pilot-scale fermentation installation for WWTP in Leszno, Poland
- 2. Piloting nutrient recycling technology for industrial waste waters
 - Phosphorus filtering system enabling nutrient recovery in Doruchow, Poland
- 3. Co-treatment of industrial wastewaters in MWWTP
 - Monitoring equipment for WWTP in Põltsamaa, Estonia
- 4. Co-treatment of industrial waste waters of a dairy company
 - Regulation facilities for dairy company, Estonia
- 5. Improved pre-treatment in dairy company
 - Pre-treatment for dairy company in Jelgava, Latvia
- 6. Improved co-treatment of industrial waste waters
 - Substance-specific analyzers for WWTP in Gatchina, Russia

4) Final outcome: National and BSR wide guidelines for improved management of industrial effluents



Thank you!

Project Manager Kajsa Rosqvist <u>kajsa.rosqvist@hel.fi</u> 040-5102294

Twitter @BestBalticBSR Webpage <u>www.bestbalticproject.eu</u> (not yet running)







