



CWPharma project objectives

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CWPharma project final webinar

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CWPharma project

- Clear Waters from Pharmaceuticals - CWPharma
 - 15 partners, 7 countries and 20 associated organisations (AO)
 - Timeline 10/2017 - 11/2020
- Funding Interreg BSR
 - Total budget 3.7 M€
 - Programme funding 2.9 M€
- Part of Baltic Pharma platform (EUSBSR PA Hazards' flagship)



Partners

FI	Finnish Environment Institute (SYKE)
FI	Finnish medicines agency (Fimea)
FI	Helsinki Region Environmental services Authority (HSY)
SE	County administrative board Östergötland (CAB)
SE	Tekniska Verken Linköping (TVAB)
EE	Estonian Environmental Research Centre (EERC)
EE	Estonian Waterworks Association (EVEL)
DK	Aarhus university (AU)
DK	Kalundborg Utility
PL	Institute of Environmental Protection – National Research Institute (IOS)
LV	Latvian Institute of Aquatic Ecology (LIAE)
LV	Latvian Environment, Geology and Meteorology Centre (LEGMC)
DE	Berlin Center for Competence of Water (KWB)
DE	German Association for Water, Wastewater and Waste (DWA)
DE	German Environment Agency (UBA)



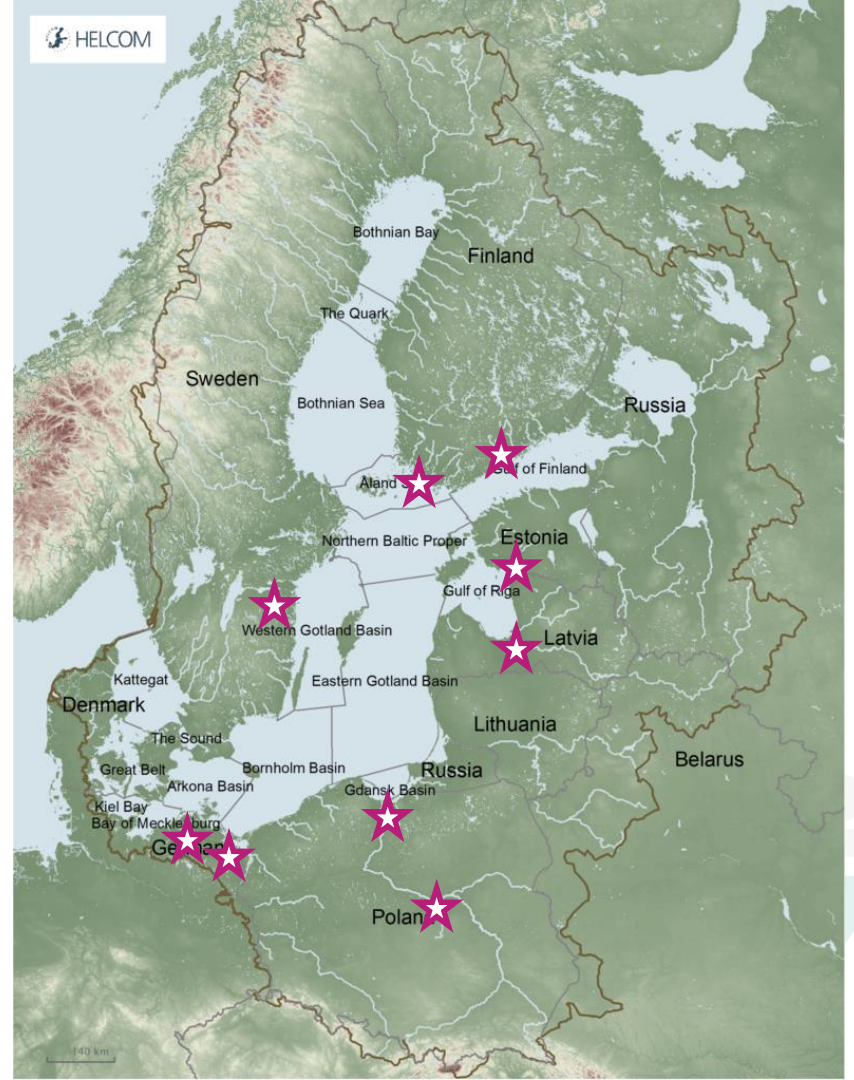
CWPharma objectives

- **optimizes** advanced wastewater treatment processes and online control systems, and shares the knowledge in the BSR
 - ✓ Advanced wastewater treatment techniques can be applied more generally to remove pharmaceuticals from the effluents
- **looks into good practices** in collection and disposal of pharmaceutical waste in the BSR
 - ✓ The best practices can be applied in the whole region
- **shares knowledge** on the occurrence and impacts of APIs in the environment, and **suggests solutions** to decrease the emissions
 - ✓ Increased awareness and practical solutions lead towards regulatory actions



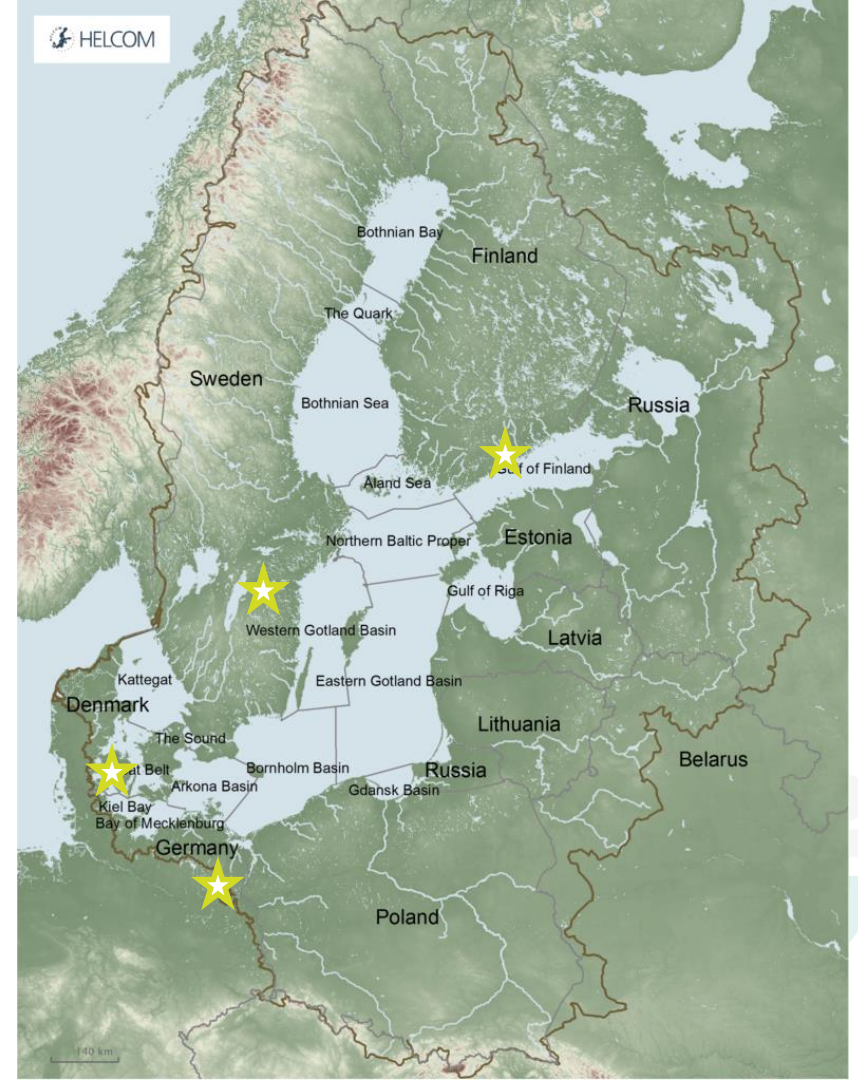
1st session

- Current status
 - Consumption data
 - Case studies
 - Risk assessment
 - Modelling



2nd session

- Advanced wastewater treatment
- Pharmaceutical waste
- Awareness raising



3rd session - Overall conclusions

- Evaluation of API emission reduction measures
- Policy recommendations -> action plan



Action Plan for API Emission Reductions

GoA5.3
November 2020



Associated partners

	Organisation Type	Organisation (English)
FI	National public authority	Ministry of the Environment
EE		Ministry of the Environment
FI	Regional public authority	Centre for Economic Development, Transport and the Environment for Uusimaa
FI		Regional State Administrative Agency for Southern Finland
SE		Region Östergötland, Environment and Security department
SE	Sectoral agency	Swedish Environmental Protection Agency
SE		Medical Products Agency
SE		The Swedish Agency for Marine and Water Management
DK		Danish Environmental Protection Agency
SE	Interest groups including NGOs	The Swedish Association of the Pharmaceutical Industry AB LIF
SE		The Swedish Water and Wastewater Association
FI		Finnish Water Utilities Association
FI		Pharma Industry Finland (PIF)
FI		Association of Finnish Pharmacies
SE		Coalition Clean Baltic
DK		Danish Waste and Wastewater Association (DANVA)
BY		Center for Environmental Solutions
LV	Infrastructure and public service provider	Riga water, Ltd.
DE		Berlin Water Company, Research and Development
SE	Higher education and research institution	IVL Swedish Environmental Research Institute



Other collaboration

- HELCOM – questionnaires and data
- WWTPs, hospitals, pharma industry, farms – sampling
- Many authorities, colleagues and stakeholders – data, feedback and advice
- MORPHEUS project – cooperation within the pharma platform





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