Introduction to the Fanplesstic-sea

Final Conference, 30 November 2021

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HELCOM

Fanplesstic-sea

Interreg Baltic Sea Region

EUROPEAN UNION

EUROPEAN REGIONAL DEVELOPMENT FUND

The FanpLESStic-SEA project

Initiatives to remove microplastics before they enter the sea

Implementation period: Project period is from January 2019 to December 2021.

- Prolongation of six months due to COVID-19

Project budget: total budget of

2 968068,80 euro with co-financing by the EU Interreg program

The FanpLESStic-SEA: project aims

Image courtesy of Alvise Vianello (Aalborg University)

- To increase knowledge of where microplastics come from and their transport pathways
- To evaluate technology that can reduce microplastic or reduce microplastic leakage before reaching watercourses
- To increase knowledge and commitment of decision makers through suggestions on how to implement cost-effective methods to reduce microplastics.

Project partners

Coordinator: Sweden Water Research

- **Denmark:** Aalborg University
- **Finland:** Natural Resources Institute Finland (Luke)
- **Latvia:** Latvian Institute of Aquatic Ecology
- **Lithuania:** Siauliai Chambers of Commerce, Industry and Crafts
- **Norway:** Salt Lofoten AS (SALT)
- **Poland**: Gdansk Water Utilities Ltd.
  Gdansk Water Ltd.
- **Russia:** State Autonomous Institution of the Kaliningrad region "Environmental Center "ECAT-Kaliningrad“ (ECAT)
- **Sweden:** Luleå University of Technology
- **HELCOM**

The FanpLESStic-SEA: Work packages

WP1: Project management and administration, Lead: Sweden Water Research (SWR)

WP2: Systems perspective on microplastic pollution, Lead: Aalborg University (AAU)

- A2.1 Review of existing policies and research related to microplastics (Helcom)
- A2.2 Mapping of flows and pathways (AAU)
- A2.3 Mapping flows for a model region (SWR)

WP3: Microplastic removal technologies, Lead: Natural Resources Institute Finland (LUKE)

- A3.1 State-of-the-art microplastic removal technologies (LUKE)
- A3.2 Test and validate solutions (AAU)
- A3.3 Prepare investments for microplastic solutions (LUKE)
- A3.4 Pilot testing to develop and validate microplastic removal technologies (GIWK)

WP4: Capacity building to mitigate microplastic pollution, Lead: Gdansk Water Utilities Ltd. (GIWK)

- A4.1: Analyse barriers and raise willingness to act (SWR)
- A4.2: Public awareness raising (GIWK)
- A4.3: Build institutional capacity to implement microplastic solutions (SCCIC)

Project outputs

A model to map, understand and visualize microplastic pathways that will be applied to the partners' cities/regions.

Piloting of new technology i) for filtering away microplastics; ii) sustainable drainage solutions as means for removal of microplastics; and iii) to remove microplastics from stormwater.

Defining innovative governance frameworks and engaging a large range of players for implementation of coordinated and cost-efficient measures resulting in locally adapted investment proposals/plans for each partner's region.

Dissemination of project results, including reports on barriers and ways forward, to increase institutional capacity on up-stream and problem-targeted methods to remove microplastics

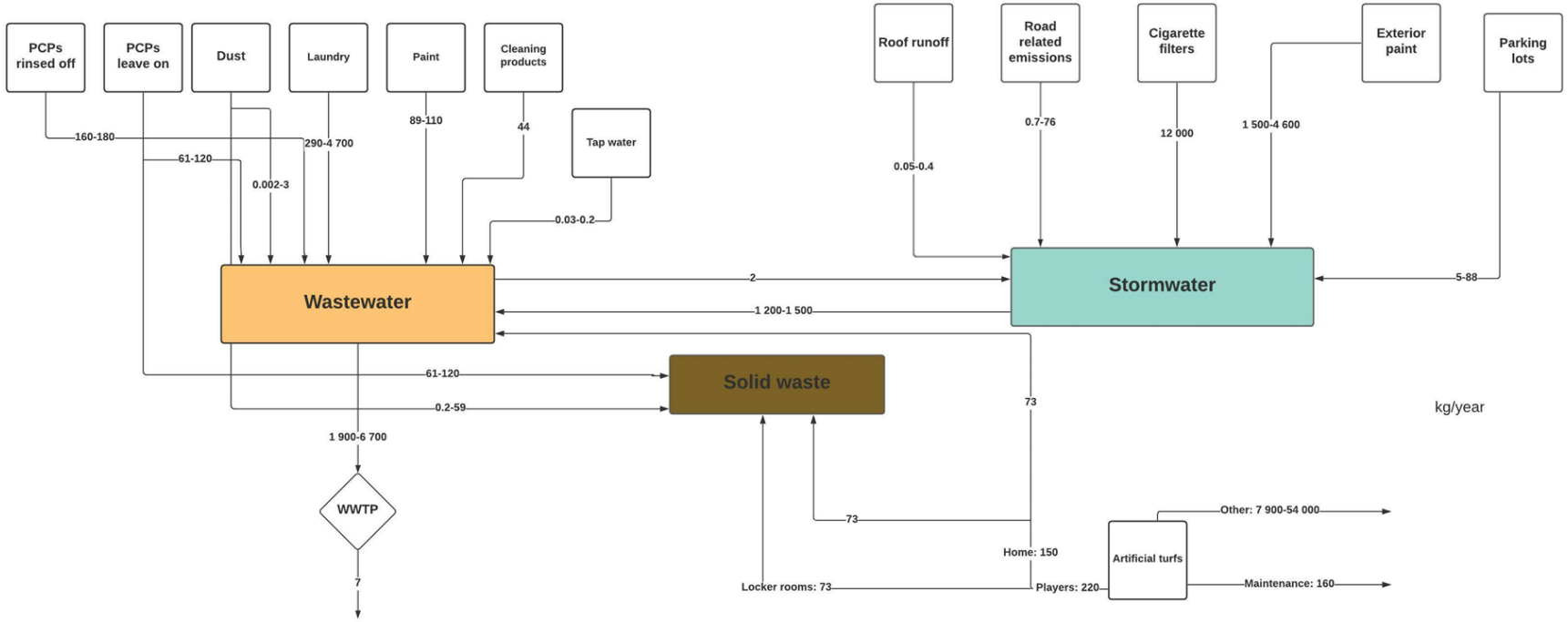
Review of existing research (HELCOM) – Main report in English, translations of the policy brief

Mapping of flows and pathways (AAU)

Sampling activities were performed in different places by different partners

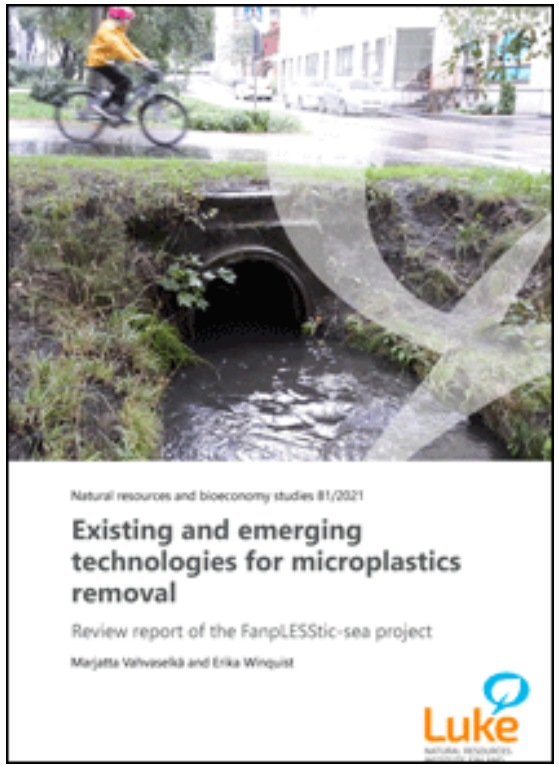
Microplastic flow in a model city

- Flows of Microplastics in a Model region



Microplastic flows

State-of-the-art microplastic removal technologies (LUKE) – a report on Traffic microplastics and Existing and emerging removal technologies for microplastics removal



HELCOM has prepared summary outputs of these reports, HELCOM policy briefs are in the process

Pilot installations (LUKE)

Removing microplastics from urban snow by natural common reed filter

Urban snow melting and purification pilot – Clewat's snow treatment system

Pilot installations

Artificial wetlands, removing microplastics from wastewater

and from stormwater

Fact sheets


Fanplesstic-sea
NATURE BASED SOLUTIONS TO REDUCE MICROPLASTIC POLLUTION FROM THE STORMWATER
[Gdansk Water]
STORMWATER AS A SOURCE OF MICROPLASTICS
Interreg
Baltic Sea Region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MICROPLASTIC EMISSIONS FROM LAUNDRY
Master thesis project from Linköping University
WHAT IS MICROPLASTICS?
sweden water research
Interreg
Baltic Sea Region


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MICROPLASTICS IN DRINKING WATER
Swedish Water Association
WHAT IS MICROPLASTICS?
sweden water research
Interreg
Baltic Sea Region


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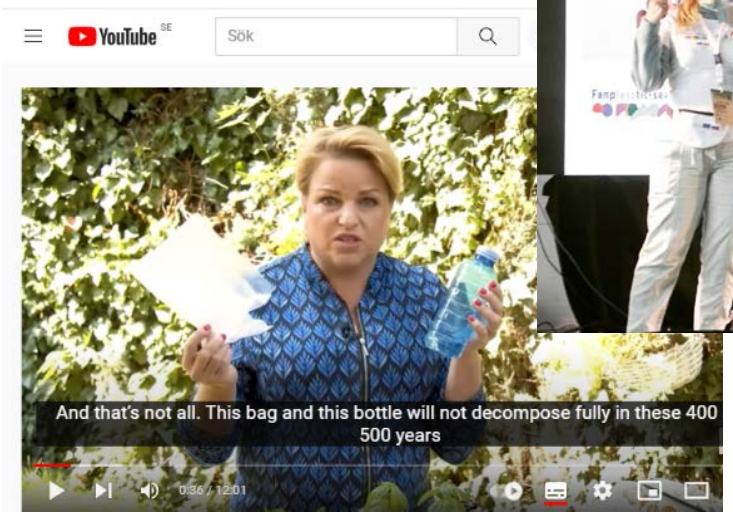
MICROPLASTICS IN WASTEWATER STREAM
Gdansk Water Utilities
WHAT ARE CONSTRUCTED WETLAND SYSTEMS?
GIWK
Interreg
Baltic Sea Region

Public Awareness Raising



Thank you!

https://www.swedenwaterresearch.se/en/projekt/fanplesstic-2/

https://helcom.fi/helcom-at-work/projects/fanplesstic-sea/

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