



BALTIC FLOWS

D3.5 FINAL DIRECTORY OF RTD OFFER AND DEMAND IN URBAN STORMWATER MANAGEMENT

RESEARCH, TECHNOLOGY AND DEVELOPMENT LISTINGS IN THE BALTIC
SEA REGION COUNTRIES OF ESTONIA, FINLAND, GERMANY, LATVIA
AND SWEDEN



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APRIL 29, 2016



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 319923.



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Introduction

The Baltic Flows project is a European Union's Seventh Framework project concerning rainwater monitoring and management in Baltic Sea catchment areas. The strategies, knowledge and expertise created during the project are meant to be exploited elsewhere-in the European Union and also globally. Enhanced capacities in diffuse load monitoring and urban stormwater management are intended to lead to new business opportunities in the global market for water monitoring and management, know-how and solutions.

As part of the Baltic Flows project outcomes and deliverables, HAW Hamburg has successfully compiled and produced the main project deliverable and Final Directory of Research, Technology and Development (RTD) Offer and Demand in Urban Stormwater Management covering the five participating Baltic regions of Estonia, Finland, Germany, Latvia, and Sweden.

Within the field of urban stormwater management (USWM), cutting edge technologies, resource efficiency methods, and know-how, are areas contributing to demonstrate the economic potential and capacities of the Baltic Sea Region. In order to move towards a common goal and a successful strategy, a foundation of strong supporting partners from the academic to public and private sectors-is paramount. Current technological development and implementation in urban stormwater management across the Baltic has proven instrumental to demonstrate regional excellence while opening up golden opportunities for water innovation and market development.

Compiled around a specific listing of organizations with strong stormwater management and monitoring focus, this RTD Directory is an up-to-date inventory of key stakeholders from public, private and academic sectors consolidating five Baltic Flows regional networks. As a communication tool, this directory will offer opportunities for large and small organizations, industry, and SMEs, to share with an international community, their current research, products, practices, services, and areas of strength; and it presents a clear view of where the current demand and offer in USWM is concentrated.

This final RTD Directory is a contribution towards the development of a transnational vision of technological development and economic growth aimed at boosting innovation, competitiveness and smart specialization potential in the field of urban stormwater management and monitoring.



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1. Goals and Objectives

This RTD Directory has been compiled for the purpose of addressing competitiveness, RTD innovation and further development towards a transnational agenda in water smart specialization in the Baltic Sea Region. The main objectives of the RTD Directory include:

- a. Identification of USWM technological potential in BSR
- b. Insight into current market demand and offer
- c. Consolidation of substantial expertise and knowledge with potential for export

2. Development Process

The Baltic Flows project compiled a broad number of organizations listed under this final RTD Directory. Specific information on each of the organizations was collected through surveys sent to the various stakeholders, authorities, and businesses interested in taking part in an international stormwater directory and marketplace. The Information received was classified into key areas in which USWM technologies and practices are typically planned, i.e. stormwater quantity and quality measures, actions, expertise and interests (Please see Image 1).

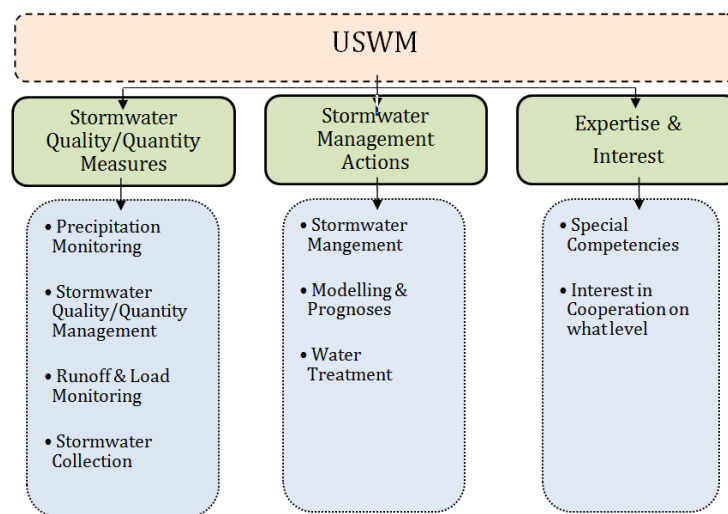


Image 1. Classification of the RTD Directory listing. *Source: HAW Hamburg*

Participation of the various organizations in this RTD Directory was also enhanced by regional cluster and networking activities carried out in each individual country over the course of the project. In general, the steps that were taken to compile and produce this final output included:



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1. A vast compilation of organizations from public, private, and academic sectors (by country) assisted by project partners
2. An information review phase
3. Production and completion of a final Excel document output to be shared via website

For communication purposes, a final document in Excel format has been generated and made accessible to the general public via Baltic Flows project website at www.balticflows.eu. The user experience is that people will be able to navigate through a broad list of organizations with an USWM focus and have the possibility to filter required information through filtering and other Excel based functions. The information has been arranged in a user-friendly and flexible way, allowing users to conduct their search either by country, measure or by action. All participants listed provided website information which contributes to stimulate business development.

3. Overview

Participating regions of the Baltic Flows project have identified key organizations from the public, academic, and private sectors with a particular interest in exporting technologies, services, and know-how across the Baltic Sea Region and beyond. For the purpose of this deliverable, a total of 136 organizations from the five Baltic countries of Estonia, Finland, Germany, Latvia, and Sweden have been identified as part of a final RTD Directory in Offer and Demand in Urban Stormwater Management.

Organizations were classified into academic, public, and private sectors. *Public sector* organizations were mainly composed of local and regional authorities, water utility entities and governmental organizations. The group of *private sector* organizations included a range of SMEs, businesses providing engineering services as well as private-sector companies actively involved in technology development. The *academic sector* was composed of a mix of research institutions, universities of applied sciences and other research organizations with a water focus. Table-1 shows the total number of organizations per sector that participated taken from the five different project countries. The table is also a representation of strengths and weaknesses currently characterizing the various sectors.



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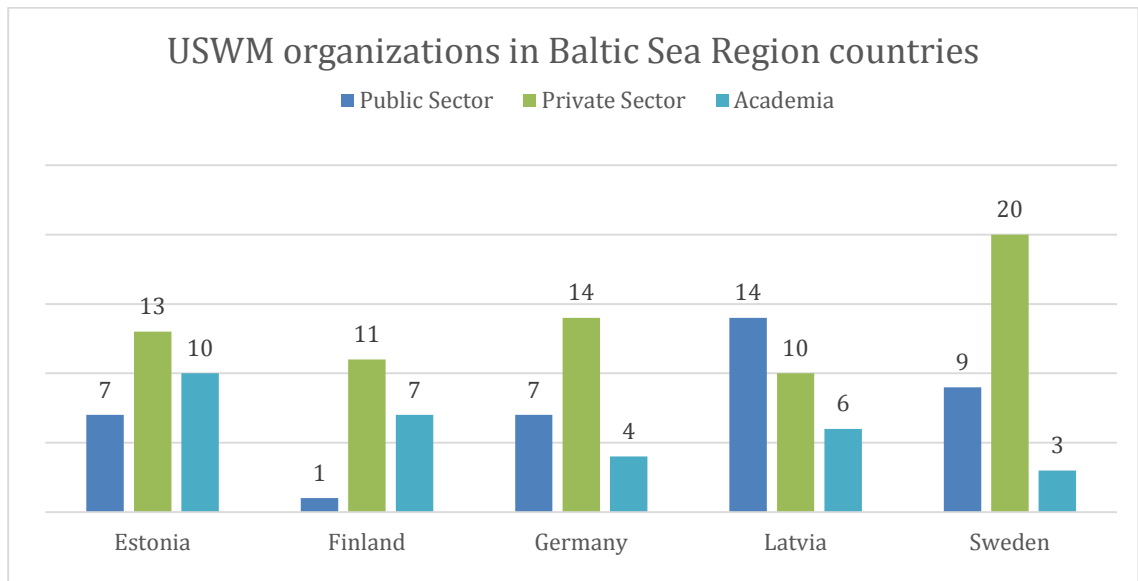


Table 1: USWM organizations in the Baltic Sea Region Countries. *Source: HAW Hamburg*

This final RTD Directory is a communication tool to bring areas of urban stormwater management as an integral part in a post-project strategy. As the Baltic Flows project takes further steps towards building a model for water innovation and economic development, a robust mixed sector of actors and networks is an asset in forming the base for the successful and innovative economies of the future. A strong network of stakeholder will open up new opportunities in market development for public, private, and academic sectors contributing to the future objectives of sustainable stormwater management and monitoring in the Baltic Sea Region.

4. RTD Directory Listing by Country

HAW Hamburg has produced a final RTD Directory search document in Excel format available to the general public via Baltic Flows project website at www.balticflows.eu. The pages below include the list of all the organizations, per country, that participated in this RTD Directory (Please see pages 7 through 11 below).



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BALTIC FLOWS

DIRECTORY OF RESEARCH TECHNOLOGY AND DEVELOPMENT - OFFER/DEMAND IN URBAN STORMWATER MANAGEMENT

ESTONIA



| GENERAL INFORMATION | | | | | STORMWATER QUALITY AND QUANTITY MEASURES | | | | | | | | STORMWATER MANAGEMENT ACTIONS | | | | | | EXPERTISE & INTEREST | | WASTEWATER RELATED TECHNOLOGIES | | OTHER | | |
|---------------------|---------|----------------|--|---|---|----------|--|----------|--|----------|--|----------|---|----------|--|----------|---|----------|---|--|---|----------|---|----------|---|
| | | | | | Precipitation Monitoring | | Stormwater Quality/Quantity Management | | Runoff & Load Monitoring | | Stormwater Collection | | Stormwater Management | | Modeling & Prognoses | | Water Treatment | | Special Competencies: Organization's most relevant technologies products and services in rainwater management and monitoring. | Interest in cooperation-at what level? | | | | | |
| No. | Country | Sector | Institution Name | Institution Name in English | Website | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | | | Involved | Action(s) in this Area | Involved | Action(s) in this Area |
| E01 | Estonia | Academia | Tartu Ülikool Eesti Meteoroloogia | Estonian Marine Institute, University of Tartu | www.soi.ee | No | | Yes | Remote sensing monitoring of coastal water quality | Yes | Remote sensing monitoring of coastal water quality | No | | No | | No | | No | | Monitoring from satellites and airborne sensors | Global Level | No | | No | |
| E02 | Estonia | Academia | Tartu Ülikooli Geograafia Osakond | University of Tartu, Institute of Ecology and Earth Sciences (Department of Geography) | www.geograafid.ee/en/department-geography | No | | Yes | Investigate | No | | No | | Yes | Investigate | Yes | Investigate | No | | Biodegradation of oil compounds in soil, groundwater and sea water | Cross-border Cooperation Level in Baltic Sea region | Yes | Investigate | No | |
| E03 | Estonia | Academia | Eesti Maailmlooli Põllumajandus- ja Keskloomingu Instituut | Estonian University of Life Sciences, Centre for Limnology (Institute of Agricultural and Environmental Sciences) | pk.ema.ee/en/structure/limnology | Yes | Buy | No | | Yes | Buy | No | | No | | Yes | Develop, Investigate | No | | Monitoring CO ₂ emissions in fresh water lakes and rivers due to carbon inflow | Global Level | No | | Yes | Investigate, Design, Policy Makers/ Legislation |
| E04 | Estonia | Academia | Eesti Maailmlooli Põllumajandus- ja Keskloomingu Instituut | Estonian University of Life Sciences, Department of Environmental Protection | pk.ema.ee/en/structure/enviroprotection | Yes | Investigate, Policy Makers/ Legislation | Yes** | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Investigate | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Develop, Investigate, Design | No | |
| E05 | Estonia | Academia | Tallinna Tehnikaülikooli Mekaanika osakond | Tallinn University of Technology, Department of Mechanics | www.ttu.ee | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | | Yes | Investigate | Yes | Investigate | No | | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| E06 | Estonia | Academia | Tallinna Ülikooli Okeanograafia Keskus | Institute of Ecology, Tallinn University | www.dtu.ee/en/okeanograafia-keskus | Yes | Investigate | No | | Yes | Investigate | No | | Yes | Investigate | Yes | Investigate | No | | Eco-hydrological processes of wetlands and wetlands ecosystem services | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| E07 | Estonia | Academia | Tallinna Tehnikaülikooli Mekaanika osakond | Tallinn University of Technology, Department of Mechanics, Chair of Fluid Mechanics | www.ttu.ee/dokumendid/mekaanikaosakond-4/ippetoid-5/hidro-ja-sarvmehaanika-oppetoid | Yes | Buy | Yes | Buy | Yes | Buy | Yes | | Yes | Develop | Yes | Develop | No | Buy | Measurements of rain characteristics and stormwater runoff | Cross-border Cooperation Level in Baltic Sea region | Yes | Buy | Yes | Investigate |
| E08 | Estonia | Academia | Tartu Ülikooli Keemia Instituut | University of Tartu, Institute of Chemistry | www.chem.ut.ee/en | No | | No | | Yes | Develop, Investigate | No | | No | | No | | Yes | Develop, Investigate | Bioremediation of micro pollutants e.g. pesticides and antibiotic residues | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | Yes | Develop, Investigate |
| E09 | Estonia | Academia | Tallinna Tehnikaülikooli Keskloomingu Instituut | Environmental Engineering Department, Tallinn University of Technology | www.ttu.ee/ehitusteaduskond/keskloomingu-instituut-4 | No | | Yes | Develop, Investigate | Yes | Develop, Investigate | Yes | | Yes | Investigate | Yes | Develop, Investigate | Yes | Investigate | Planning, optimization and harmonisation of monitoring network, scientific interpretation, monitoring | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| E10 | Estonia | Academia | Tartu Ülikooli Füüsika Instituut | Tartu University Institute of Physics | www.fut.ee/en | Yes | Develop | Yes | Develop | Yes | Develop | No | | No | | No | | No | | Fluorescence based monitoring technology | State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| E11 | Estonia | Private Sector | AS Tallinna Veel | Tallinna Veel Ltd. | www.tallinnaval.ee/en | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | | No | | No | | Yes | Investigate | Stormwater collection services, stormwater treatment services, measuring intensity of the rain | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | |
| E12 | Estonia | Private Sector | Eesti Veevarustuse ja Kanalisatsioonide Inseneride Selts | Estonian Association of Water supply and Wastewater Engineers | www.evki.ee | No | | No | | No | | Yes | | Yes | Design | Yes | Design | Yes | Design | Umbrella organisations for engineers involved in rain and sewage water fields | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Design | No | |
| E13 | Estonia | Private Sector | Eesti Veevõrg | Estonian Water Association | www.eevv.org.ee | No | | No | | No | | No | | No | | No | | No | | Umbrella organisations for actors in different water related fields | Local/ Regional Level, State Level | No | | Yes | Policy Makers/ Legislation |
| E14 | Estonia | Private Sector | Eesti Vee-ettevõtte Liit | Estonian Waterworks Association | www.evel.ee | No | | No | | No | | No | | No | | No | | No | | Umbrella organisations for wastewater companies | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Training, Seminars | Yes | Policy Makers/ Legislation |
| E15 | Estonia | Private Sector | Infraagat Eesti AS | Infraagat Estonia Ltd. | www.infraagat.ee | Yes | Design | Yes | Design | Yes | Design | Yes | | Yes | Design | Yes | Design | Yes | Design | Design and consultation involving environmental technologies | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Design | No | |
| E16 | Estonia | Private Sector | Flydog Solutions OÜ | Flydog Solutions LLC | www.flydogmar.com | No | | Yes | Design | No | | No | | No | | No | | No | | Data loggers and autonomous monitoring buoys | Global Level | No | | No | |
| E17 | Estonia | Private Sector | Pipaflo Estonia AS | Pipaflo Estonia | www.pipaflo.ee | No | | Yes | Self, Design, Develop | No | | Yes | Self, Design, Develop | Yes | Self, Develop, Design | No | | No | | Wide range of stormwater and agricultural water management | Global Level | No | | No | |
| E18 | Estonia | Private Sector | Kobras AS | Kobras Ltd. | www.kobras.ee | Yes | Buy | Yes | Buy, Design, Develop | Yes | Buy | Yes | | Yes | Design, Develop, sell | Yes | Buy, Design | Yes | Design | Urban area and water management structure design | State Level | Yes | Design | No | |
| E19 | Estonia | Private Sector | OÜ Entec Eesti | Entec Eesti LLC | www.entec.ee | No | | No | | Yes | Design | Yes | | Yes | Design | Yes | Design | Yes | Design | Planning & design solutions and services | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Design | No | |
| E20 | Estonia | Private Sector | Elbe Sensor OÜ | Elbe Sensor LLC | www.elbesensor.ee | No | | Yes | sell | No | | No | | No | | No | | No | | Water quality monitoring technologies | Cross-border Cooperation Level in Baltic Sea region | Yes | sell | No | |
| E21 | Estonia | Private Sector | 4PEOPLE OÜ | 4PEOPLE LLC | www.4people.ee | Yes | Investigate | Yes | Buy, Investigate | Yes | Investigate | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Buy, Investigate | Yes | Self, Develop, Investigate, Design | Promoting public awareness of sustainable urban drainage, offering courses in sustainable urban drainage design, landscape architecture and sustainable construction. Conducting scientific research to improve our local data and knowledge | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | Yes | Self, Develop, Investigate, Design |
| E22 | Estonia | Private Sector | Terviseamet OÜ | Terviseamet LLC | www.tam.ee/tervisamet | No | | Yes | Develop, Investigate | No | | No | | No | | Yes | Develop, Investigate | No | | Rapid detection of various pathogens | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| E23 | Estonia | Private Sector | CleanTech Estonia MTÜ | CleanTech Estonia NPO | www.cleantechestonia.ee | No | | Yes | Investigate | Yes | Investigate | Yes | | Yes | Investigate | No | | Yes | Investigate | Cleantech organisations cluster building and networking activities | Global Level | No | | No | |
| E24 | Estonia | Public Sector | Eesti Keskkonnauuringute Keskus | Estonian Environmental Research Centre | www.kkib.ee/en/ | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Accredited laboratory methods and high grade personnel, knowledge how built up the water and wastewater monitoring systems, contemporary chemical analysis and sampling expertise | Global Level | No | | No | |
| E25 | Estonia | Public Sector | Terviseamet | Estonian Health Board | www.tervisamet.ee/en/ | No | | Yes | Investigate, sell | No | | No | | No | | No | | Yes | Investigate | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | sell | No | |
| E26 | Estonia | Public Sector | Häirekeskus | Estonian Rescue Service | www.112.ee | No | | No | | No | | No | | No | | No | | No | | | State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | |
| E27 | Estonia | Public Sector | Tallinna Kommunaalmuut | Municipal Engineering Services Department | www.tallin.ee/en/municipal-engineering-services-department | No | | Yes | Buy, Policy makers | Yes | Buy, Policy makers | Yes | Buy, Policy Makers/ Legislation | Yes | Buy, Develop, Investigate, Policy Makers/ Legislation | Yes | Buy | Yes | Buy | Tallinn city stormwater management infrastructure maintenance | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | |
| E28 | Estonia | Public Sector | Riigi Maaomakuts | Estonian Environment Agency, Hydrology Department | www.jamtaoemakuts.ee | Yes | Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Develop, Investigate, Design, Policy Makers/ Legislation | No | | Yes | Develop, Investigate, Design, Policy Makers/ Legislation | No | | No | | Monitoring network, covering all Estonia | Cross-border Cooperation Level in Baltic Sea region | No | | No | |
| E29 | Estonia | Public Sector | Keskloominguamet | The Estonian Environment Agency | www.keskloominguamet.ee | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | No | | No | | No | | No | | | State Level | No | | No | |
| E30 | Estonia | Public Sector | Keskloominguamet | Ministry of the Environment Estonia | www.eri.ee/en | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate, Policy Makers/ Legislation | No | |

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FINLAND



| GENERAL INFORMATION | | | | | STORMWATER QUALITY AND QUANTITY MEASURES | | | | | | | | STORMWATER MANAGEMENT ACTIONS | | | | | | EXPERTISE & INTEREST | | WASTEWATER RELATED TECHNOLOGIES | | OTHER | | |
|---------------------|---------|----------------|--|--|--|----------|--|----------|--------------------------|----------|------------------------------------|----------|--|----------|--|----------|---|--|---|---|---|--|------------------------|----------------------------|-------------------|
| | | | | | Precipitation Monitoring | | Stormwater Quality/Quantity Management | | Runoff & Load Monitoring | | Stormwater Collection | | Stormwater Management | | Modeling & Prognoses | | Water Treatment | | Special Competencies: Organization's most relevant technologies products and services in rainwater management and monitoring. | Interest in cooperation-at what level? | Involved | Action(s) in this Area | Involved | Action(s) in this Area | |
| No. | Country | Sector | Institution Name | Institution Name in English | Website | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | | |
| F01 | Finland | Academia | Merensuikkulan Keskusta ja Tutkimuskeskus (MKK) | Center for Maritime Studies, Research Center - Turku University of Turku (UTU) | www.uta.fi/en/units/cm | No | | Yes | Investigate | Yes | Investigate | No | | No | | No | | No | | Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Design | No | | |
| F02 | Finland | Academia | Saaristoneuron Tutkimuslaitos, Turun yliopisto | Archipelago Research Institute, University of Turku (UTU) | www.uta.fi/fi/yksikot/tyoh/haaristoneuron-tutkimuslaitos | Yes | Investigate | No | | Yes | Investigate | No | | Yes | Investigate | No | | Monitoring of seawater, a website for the monitoring time series presentation, lectures about the ecological state of sea based on collected time series | Local/ Regional Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | Yes | Investigate | | |
| F03 | Finland | Academia | Biofyysikan Laboratorio | Laboratory of Biophysics, Turun Yliopisto (UTU) | www.uta.fi/en/units/med/units/physiology/contact/Pages/home.aspx | Yes | | Yes | | No | | No | | No | | No | | No | | | No | | No | | |
| F04 | Finland | Academia | Maantieteen ja Geologian Laitos, Turun Yliopisto | Department of Geography & Geology, University of Turku (UTU) | www.uta.fi/en/units/flow/td/Pages/home.aspx | No | Buy | Yes | Develop | Yes | Develop | No | | No | | Yes | Develop | No | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | Yes | Develop | |
| F05 | Finland | Academia | Turun Ammattikorkeakoulu, Vieskeiteknikan Tutkimusryhmä | Turku University of Applied Sciences (TAMK), Aquatic Systems and Water Management Research Group | www.turkuamk.fi | No | | Yes | Investigate | Yes | Investigate | No | | Yes | Investigate | No | | No | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |
| F06 | Finland | Academia | Technology Research Center (TRC), Turun Yliopisto | Technology Research Center - Brahea Center, University of Turku (UTU) | trc.uta.fi | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | No | | Yes | Investigate | Strategic know-how in the field of rainwater monitoring, low-sensitive ball-effect transmitter (SEFT) and glowing gas (PGSET) based electrochemical sensors, know-how for water quality analysis, ultra high-speed imaging know-how e.g. for real-time analysis of flowing water via microscope | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| F07 | Finland | Academia | Satakunnan Ammattikorkeakoulu (SAMK), Vesi-Instituutti WANDER | Satakunta University of Applied Sciences, Vesi-Instituutti WANDER | www.samk.fi | No | | No | | No | | No | | No | | Yes | Investigate | No | | Cross-border Cooperation Level in Baltic Sea region | Yes | Investigate | No | | |
| F08 | Finland | Private Sector | Centrum Balticum -osasto | Centrum Balticum | www.centrumbalticum.org | No | | No | | No | | No | | No | | No | | No | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | Yes | Policy Makers/ Legislation | |
| F09 | Finland | Private Sector | NanoGeo Finland Oy | NanoGeo Finland Ltd. | www.nanogeo.fi | Yes | Buy | No | | Yes | Buy | No | | No | | Yes | Buy, Sell, Develop, Investigate, Design | No | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Buy, Sell, Develop, Investigate, Design | No | | |
| F10 | Finland | Private Sector | Lumde Consulting Oy | Lumde Consulting Ltd. | www.lumde.net | Yes | Sell | Yes | Sell | Yes | Sell | No | | Yes | Sell | Yes | Investigate | No | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |
| F11 | Finland | Private Sector | Lounais-Suomen Vesienhallintoyhdistys ry | South West Finland Water Protection Association | www.lwvry.fi | No | | Yes | Sell, Investigate | Yes | Sell, Investigate | No | | No | | Yes | Investigate | No | | Monitoring of water quality | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Investigate | Yes | Sell, Investigate |
| F12 | Finland | Private Sector | WIC Systems Oy | WIC Systems Ltd. | www.wic-systems.com | No | | No | | Yes | Sell, Develop | No | | No | | No | | No | | Not interested | No | | No | | |
| F13 | Finland | Private Sector | Flootech Oy | Flootech Ltd. | www.flootech.com | No | | No | | No | | No | | No | | Yes | Buy, Sell, Develop, Investigate, Design | No | | Not interested | Yes | Buy, Sell, Develop, Investigate, Design | No | | |
| F14 | Finland | Private Sector | FCG - Finnish Consulting Group Oy | FCG | www.fcg.fi | No | | Yes | Design | No | | No | | Yes | Design | Yes | Design | Yes | Design | Modeling and design of storm water management for cities, systems level/ general plans, design on hold up structures, collection networks including pumping station | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Design | No | |
| F15 | Finland | Private Sector | Ramboll Finland Oy | Ramboll Finland Ltd. | www.ramboll.fi | Yes | Sell, Investigate, Design | Yes | Sell, Design | Yes | Sell, Develop, Investigate, Design | Yes | Sell, Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Sell, Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Sell, Develop, Investigate, Design | Yes | Sell, Develop, Investigate, Design | Global Level | Yes | Sell, Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Consulting and Planning | |
| F16 | Finland | Private Sector | GWM-Engineering Oy | GWM-engineering Ltd. | www.gwm-engineering.fi | Yes | Sell | Yes | Sell | Yes | Sell | No | | No | | No | | No | | Not interested | Yes | Sell | No | | |
| F17 | Finland | Private Sector | Mastotek Oy | Mastotek Ltd. | www.mastotek.com | Yes | Sell, Develop, Design | Yes | Sell, Develop, Design | Yes | Sell, Develop, Design | Yes | Investigate | Yes | Investigate | Yes | Develop | No | Investigate | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell, Develop, Design | No | | |
| F18 | Finland | Private Sector | Upponer Infra Oy | Upponer Infra Oy | www.upponer.fi | No | | No | | No | | Yes | Sell, Develop, Investigate | Yes | Sell, Develop, Investigate | No | | Yes | Sell, Develop, Investigate | State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Sell, Develop, Investigate | No | | |
| F19 | Finland | Public Sector | Valonia - Varsinais-Suomen Kaikukin Kehyksen ja Energia-Autoiden Päävalvonta | Valonia - Service Centre for Sustainable Development and Energy of Southwest Finland | www.valonia.fi | No | | No | | No | | No | | No | | No | | No | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |

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BALTIC FLOWS

DIRECTORY OF RESEARCH TECHNOLOGY AND DEVELOPMENT - OFFER/DEMAND IN URBAN STORMWATER MANAGEMENT

GERMANY



| GENERAL INFORMATION | | | | | STORMWATER QUALITY/QUANTITY MEASURES | | | | | | | | STORMWATER MANAGEMENT ACTIONS | | | | | | EXPERTISE & INTEREST | | WASTEWATER RELATED TECHNOLOGIES | | OTHER | | | |
|---------------------|---------|----------------|---|---|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|---|---|---------------------------------|---|------------------------|--|------------------------|------------------------------------|
| | | | | | Precipitation Monitoring | | Stormwater Quality/Quantity Management | | Runoff & Load Monitoring | | Stormwater Collection | | Stormwater Management | | Modeling & Prognoses | | Water Treatment | | Special Competencies: Organization's most relevant technologies products and services in rainwater management and monitoring. | Interest in cooperation-at what level? | | | | | | |
| No. | Country | Sector | Institution Name | Institution Name in English | Website | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | | | Involved | Action(s) in this Area | Involved | Action(s) in this Area | |
| G01 | Germany | Academia | Institut für Abwasserwirtschaft und Gewässerschutz, TU Hamburg-Harburg | Institute of Wastewater Management and Water Protection, Technical University of Hamburg-Harburg | www.tuhh.de/aww | No | | No | | No | | Yes | Design | Yes | Design | No | | Yes | Develop, Design | | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic-Sea region, Global Level | Yes | Develop, Design | No | |
| G02 | Germany | Academia | HafenCity Universität Hamburg (HC2) | HafenCity University Hamburg | www.hcu-hamburg.de | No | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | No | | Yes | Investigate | | | Local/ Regional Level | Yes | Investigate | No | |
| G03 | Germany | Academia | Forschungs und Transferzentrum, Hochschule für Angewandte Wissenschaften Hamburg | Research and Transfer Centre, Hamburg University of Applied Sciences | www.haw-hamburg.de/en/ftz-als | Yes | Develop, Investigate | No | | Yes | Develop, Investigate | No | | No | | No | | No | | Flow analysis, flow through phenometry and gas diffusion | | Cross-border Cooperation Level in Baltic-Sea region, Global Level | Yes | Develop, Investigate | No | |
| G04 | Germany | Academia | Hamburgisches WeltWirtschaftsinstitut Gemeinnützige GmbH (HWWI) | Hamburg Institute of International Economics (HIWI) | www.hwiw.org | No | | No | | No | | No | | No | | No | | No | | Economic evaluation of policy instruments, technologies, and projects | | Local/Regional, State, Cross-Border Co-operation, Global | No | | No | |
| G05 | Germany | Private Sector | Lehne Ingenieurgesellschaft mbH für Raum und Umwelt | Lehne Engineering Company for Building and the Environment | www.lehne-ing.de | Yes | Design | Yes | Design | Yes | Design | Yes | Design | Yes | Design | Yes | Design | Yes | Design | | | Local/ Regional Level, State Level | Yes | Design | No | |
| G06 | Germany | Private Sector | CONSILAQUA Hamburg Beratungsgesellschaft mbH (CAH) | CONSILAQUA Hamburg | www.consilacqua.de | No | | No | | Yes | Design | Yes | Design | Yes | Design | Yes | Develop, Investigate, Design | Yes | Design | | | Local/ Regional Level, State Level | No | Design | No | |
| G07 | Germany | Private Sector | Ingenieurbüro Dr. Lehners + Wittorf | Consulting Office Dr. Lehners + Wittorf | www.geo-technik.com | No | | No | | No | | Yes | Design | Yes | Design | No | | No | | Investigation and design of rainwater sewage installations and stormwater retention management | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic-Sea region | No | | Yes | Design |
| G08 | Germany | Private Sector | Neumann Beratende Ingenieure GmbH | Neumann Engineering Consultants | www.neumann-ing.de | No | | No | | Yes | Design | Yes | Design | Yes | Design | No | | Yes | Design | | | Local/ Regional Level, State Level | Yes | Design | No | |
| G09 | Germany | Private Sector | Ingenieurgesellschaft Prof. Dr. Sicker mbH | Engineering Company Prof. Sicker | www.sicker.de | Yes | Buy, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | water reuse systems, water management practices, new water systems (Mikroin-Ringnetze), urban water bodies etc., developing contained technical solutions like bioretention (pre-treatment) | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic-Sea region, Global Level | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design |
| G10 | Germany | Private Sector | AJ Blomestrom GmbH | AJ Blomestrom GmbH | www.ajblomestrom.com, www.aj-blomestrom.de | No | | No | | No | | No | | Yes | Self, Develop, Design | No | | No | | | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic-Sea region, Global Level | Yes | Develop, Design | Yes | Self, Develop, Design |
| G11 | Germany | Private Sector | ifu Hamburg GmbH | Institute for Environmental IT | www.ifu.com | No | | No | | No | | No | | Yes | Investigate, Sell | No | | No | | Life cycle assessment (holistic environmental assessment) | | Local/ Regional Level, Global Level | No | | No | |
| G12 | Germany | Private Sector | AQUA-STOP Hochwassererwerrne Dienstleistungs GmbH | AQUA-STOP Flood Service | www.aquastop.de | No | | Yes | Self, Design | No | | Yes | Self, Design | Yes | Self, Design | No | | No | | Provides individual solutions for flood protection | | | No | | No | |
| G13 | Germany | Private Sector | BIRCO GmbH | BIRCO GmbH | www.birco.de | No | | No | | No | | Yes | Self, Develop | No | | Yes | Self, Develop | Yes | Self, Develop | Drainage channels for water and wastewater, drainage systems for sedimentation, filtration and non-spatial retention tanks | | Global | Yes | Self | Yes | Self |
| G14 | Germany | Private Sector | Heinrich Beratende Ingenieure | Heinrich Consult | www.heinrich-berater.de | Yes | Design | Yes | Design | Yes | Design | Yes | Design | Yes | Design | Yes | Make Policies/ Legislation | Yes | Make Policies/ Legislation | Consulting and draft design of complex rainwater management systems with infiltration, pumping stations, storage tank, inverted siphon with air cushion | | Global | Yes | Design | Yes | |
| G15 | Germany | Private Sector | INTENVA GmbH | INTENVA GmbH | www.intenva.com | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | No | | Yes | Self, Develop, Investigate, Design | water reuse systems, water management practices, new water systems (Mikroin-Ringnetze), urban water bodies etc., developing contained technical solutions like bioretention (pre-treatment) | | Global | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design |
| G16 | Germany | Private Sector | OttarWasser GmbH | OttarWasser GmbH | www.ottarwasser.de | No | | Yes | Design | No | | Yes | Design | Yes | Design | No | | Yes | Investigate, Design | Design wastewater treatment plants or parts, new sanitation concepts which includes the reuse of nutrients and water | | Local/Regional Level, State, Cross-Border Cooperation | Yes | Design | No | |
| G17 | Germany | Private Sector | ZinCo GmbH | ZinCo GmbH | www.zinco-greenroof.com | Yes | Investigate | Yes | Self, Develop, Investigate | No | | No | | Yes | Self, Develop, Investigate, Design | Yes | Develop, Investigate, Design | No | | | | State level, Cross-Border Cooperation, Global | Yes | Self, Develop, Investigate | Yes | Self, Develop, Investigate |
| G18 | Germany | Private Sector | Funkle Kunststoff GmbH | Funkle Kunststoff GmbH | www.funkleppa.de | No | | Yes | Self, Develop | No | | Yes | Self, Develop | Yes | Self, Develop | No | | Yes | Self, Investigate | | | Global | No | | No | |
| G19 | Germany | Public Sector | Behörde für Umwelt und Energie (BEU) | Ministry for Environment and Energy (BEU) | www.beu-hamburg.de | No | Make Policies/Legislation | Yes | Make Policies/Legislation | Yes | Make Policies/Legislation | Yes | Make Policies/Legislation | Yes | Make Policies/Legislation | Yes | Make Policies/Legislation | Yes | Make Policies/Legislation | | | Local/Regional Level, State Level, Cross-Border Co-operation | No | Make Policies/Legislation | Yes | Make Policies/Legislation |
| G20 | Germany | Public Sector | Landesbetrieb Straßen, Brücken und Gewässer (LSBG) | Agency of Roads, Bridges and Waters | lsgb.hamburg.de | Yes | Buy, Investigate | No | | Yes | Buy, Investigate, Make Policies/ Legislation | Yes | Develop, Investigate, Make Policies/ Legislation | Yes | Buy, Investigate, Design, Make Policies/ Legislation | Yes | Develop, Investigate, Design, Make Policies/ Legislation | No | | | | Local Level | No | | No | |
| G21 | Germany | Public Sector | Bezirk Hamburg Nord, Fachamt Stadt- und Landschaftsplanung | Hamburg North District Office Urban and Landscape Planning | www.hamburg.de/hamburg-nord/stadt-und-landschaftsplanung | Yes | Buy | No | | Yes | Buy | Yes | Buy | Yes | Buy | Yes | Buy | No | | | | Local/ Regional Level | No | | No | |
| G22 | Germany | Public Sector | District Authority Hamburg-Eimsbüttel, Department of Management of Public Space, Streets and Waters Division - Water Management | District Authority Hamburg-Eimsbüttel, Department of Management of Public Space, Streets and Waters Division - Water Management | www.hamburg.de/eimsbuettel | No | | Yes | Buy | Yes | Buy | Yes | Buy | Yes | Design | Yes | Buy | Yes | Design | | | Local/ Regional Level | No | | No | |
| G23 | Germany | Public Sector | Hamburg Wasser | Hamburg Water | www.hamburgwasser.de | Yes | Develop, Planning, Design, Operation, Evaluate | Yes | Develop, Planning, Design, Operation, Evaluate | Yes | Investigate | Yes | Develop, Planning, Design, Operation, Evaluate | Yes | Develop, Planning, Design, Operation, Evaluate | Yes | Develop, Planning, Design, Operation, Evaluate | Yes | Develop, Planning, Design, Operation, Evaluate | Decentralised wastewater treatment (Invision technology) combined energy recovery (Hamburg Water Cycle), GES based cages for rainwater infiltration capacity (project H2A) | | Local/ Regional Level, State Level | Yes | Develop, Planning, Design, Operation, Evaluate | No | |
| G24 | Germany | Public Sector | Wasserbeschaffungsverband Harburg | Water Procurement Association Harburg | wbv-harburg.de | No | | No | | No | | No | | Yes | Buy | Yes | Buy | Yes | Buy | | | Local/ Regional Level | No | Develop, Planning, Design, Operation, Evaluate | No | |
| G25 | Germany | Public Sector | Handelskammer Hamburg (HK) | Hamburg Chamber of Commerce | www.hk24.de | No | | No | | No | | No | | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | | | Local/ Regional Level, State Level | No | | No | |

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BALTIC FLOWS

DIRECTORY OF RESEARCH TECHNOLOGY AND DEVELOPMENT - OFFER/DEMAND IN URBAN STORMWATER MANAGEMENT

LATVIA



| GENERAL INFORMATION | | | | | STORMWATER QUALITY/QUANTITY MEASURES | | | | | | | | STORMWATER MANAGEMENT ACTIONS | | | | | | EXPERTISE & INTEREST | | WASTEWATER RELATED TECHNOLOGIES | | OTHER | | | | | |
|---------------------|---------|----------------|--|---|--|----------|--|----------|------------------------------------|----------|---|----------|------------------------------------|----------|---|----------|------------------------------------|----------|---|--|------------------------------------|--|---|----------|------------------------------|----------|--|----|
| | | | | | Precipitation Monitoring | | Stormwater Quality/Quantity Management | | Runoff & Load Monitoring | | Stormwater Collection | | Stormwater Management | | Modeling & Prognoses | | Water Treatment | | Special Competencies: Organization's most relevant technologies products and services in rainwater management and monitoring. | Interest in cooperation-at what level? | | | | | | | | |
| No. | Country | Sector | Institution Name | Institution Name in English | Website | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | |
| 101 | Latvia | Academia | Latvijas Lauksaimniecības Universitātes Lauku Inženieru Fakultātes Vides un Ūdenssaimniecības Katedra | Department of Environment and Water Management, Faculty of Rural Engineering, Latvia University of Agriculture | eng.lu.lv | No | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Competences and experience in the field of water management and hydrology, sewage treatment and hydro-technical construction | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |
| 102 | Latvia | Academia | Rīgas Tehniskā Universitātes Inženierzinātnes Pētījumu Centrs Ūdens Pētījumu Laboratorija | Water Research Laboratory, Research Center of Civil Engineering, Riga Technical University | wtl.rtu.lv | No | | No | | No | | No | | No | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Control of microbiological stability in drinking water distribution networks, water quality management in cities | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |
| 103 | Latvia | Academia | Pūķu Enerģētiskais Institūts | Institute of Physical Energetics | www.energyresearch.lv | No | | Yes | Investigate | Yes | Investigate | No | | Yes | Investigate | No | | No | | No | | Competences and experience in the field of renewable energy sources e.g. Hydro-power utilization | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |
| 104 | Latvia | Academia | Rīgas Tehniskā Universitāte, Datorzinātnes un Informācijas Tehnoloģiju Fakultātes Modelēšanas un Inženieru Katedra | Department of Modeling and Simulation, Faculty of Computer Science and Information Technology, Riga Technical University | www.it.rtu.lv/index.php?id=34 | No | | No | | No | | No | | No | | Yes | Investigate | No | | No | | Simulation-based sustainable monitoring and management of complex systems | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | | |
| 105 | Latvia | Academia | Latvijas Lauksaimniecības Universitātes Mežu un Ūdens Resursu Laboratorija | Laboratory of Forest and Water Resources, Latvia University of Agriculture | www.murz.lu.lv | No | | Yes | Investigate | Yes | Investigate | No | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Competences and experience in the field of surface and groundwater management, strategic know-how on rainwater monitoring | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Investigate | No | | |
| 106 | Latvia | Academia | Latvijas Universitātes Ģeogrāfijas un Zemes Zinātnes Fakultāte | Faculty of Geography and Earth Sciences, University of Latvia | www.ges.lu.lv/eng/aboutfaculty | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | No | | No | | Competences and experience in the field of research on surface and groundwater, runoff monitoring | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | | |
| 107 | Latvia | Private Sector | Grupa 93 | Grupa 93 Ltd | www.grupa93.lv | No | | No | | No | | No | | Yes | Investigate, Design (urban planning, feasibility studies) | Yes | Develop | No | | No | | Integrating sustainable stormwater management in urban planning solutions | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | | |
| 108 | Latvia | Private Sector | 3C SA un Reindare SA | 3C Ltd and Reindare Ltd | www.3c.lv | Yes | Buy | Yes | Investigate | Yes | Develop | Yes | Develop, Investigate | Yes | Develop, Investigate, Design | Yes | Investigate | Yes | Develop, Design | Yes | Develop, Design | | State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Develop, Investigate | No | | |
| 109 | Latvia | Private Sector | ALPS | ALPS | alps.lv | No | | No | | No | | Yes | Design | Yes | Design | No | | Yes | Design | Yes | Design | | Local/ Regional Level, State Level | No | | No | | |
| 110 | Latvia | Private Sector | Ekstendārs Tehnoloģija SIA | Ekstendārs Tehnoloģija Ltd | www.ekstendar.lv | No | | No | | No | | Yes | Self, Develop, Design | Yes | Self, Develop, Design | No | | Yes | Self, Develop, Design | Yes | Self, Develop, Design | | State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Self, Develop, Design | No | | |
| 111 | Latvia | Private Sector | Latvijas Tīro Tehnoloģiju Klasteris | Association CleanTech Latvia | www.cleantechlatvia.com | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | | Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Buy, Self, Develop, Design | No | | |
| 112 | Latvia | Private Sector | Aqua-Brambis SA | Aqua-Brambis Ltd | www.aqua-brambis.lv | Yes | Buy | Yes | Consulting, Planning, Design | Yes | Buy | Yes | Consulting, Planning, Design | Yes | Consulting, Planning, Design | Yes | Consulting, Planning, Design | Yes | Consulting, Planning, Design | Yes | Consulting, Planning, Design | | Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Consulting, Planning, Design | No | | |
| 113 | Latvia | Private Sector | TP Rīga SA | TP Rīga SA represents water & environmental management services SA, LAB Process Analyzers SIA, WATERCASH, Dryden Aqua Ltd, The Center Group | www.tpriga.lv, www.wemco.lv, www.lar.com, www.intersa.de, www.drydenaqua.com, www.centre.co.uk | No | | Yes | Self, Develop, Investigate, Design | No | | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | No | | Yes | Self, Develop, Investigate, Design | Yes | Self, Develop, Investigate, Design | Water and environmental project management and supervision | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | Yes | Design | |
| 114 | Latvia | Private Sector | PipeLife Latvia SA | PipeLife Latvia Ltd | www.pipelife.lv | No | | No | | No | | Yes | Develop | Yes | Self, Develop | Yes | Develop | Yes | Self, Develop | Yes | Self, Develop | | Global Level | No | | Yes | Self, Develop, Design | No |
| 115 | Latvia | Private Sector | Firma L4 SA | L4 Ltd | www.l4.lv | Yes | Investigate, Design | Yes | Develop, Investigate, design | No | | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, design | Yes | Develop, Investigate, design | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Self, Develop, Design | No | | |
| 116 | Latvia | Private Sector | VEGA 1 SA | VEGA 1 Ltd | www.vega1.lv | No | | No | | No | | Yes | Self, Develop, Design | Yes | Self, Develop, Design | No | | Yes | Self, Develop, Design | Yes | Self, Develop, Design | SBR technology | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Self, Develop, Design | Yes | Manufacturing Facility Process Design and Project Management | |
| 117 | Latvia | Public Sector | Vides Aizsardzības un Reģionālās Attīstības Ministrija | The Ministry of Environmental Protection and Regional Development | www.saram.gov.lv | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | No | | Yes | Policy Makers/ Legislation | No | | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | | State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Policy Makers/ Legislation | No | | |
| 118 | Latvia | Public Sector | Latvijas Vides, Ģeoloģijas un Meteoroloģijas Centrs | Latvian Environment, Geology and Meteorology Centre | www.metas.lv | Yes | Design | Yes | Design | Yes | Design | Yes | Design | No | | No | | Yes | Design | No | Design | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | | |
| 119 | Latvia | Public Sector | Rīgas Dome Pārvaldes Attīstības Departaments | Riga City Council, City Development Department | www.ridpad.lv | No | | No | | No | | No | | Yes | Policy Makers/ Legislation | No | | No | | No | | | Local/ Regional Level | Yes | Policy Makers/ Legislation | No | | |
| 120 | Latvia | Public Sector | Vides Valsts Dienests | State Environmental Service | www.vrd.gov.lv/eng | No | | Yes | Policy Makers/ Legislation | No | | No | | No | | No | | No | | No | | | Not interested | No | | No | | |
| 121 | Latvia | Public Sector | Vairots SA "Zemkopības Ministrijas Neķīmiskās Igaļmas" | State Ltd "Innovative Properties of the Ministry of Agriculture" | www.zmao.lv | Yes | Buy | Yes | Design | Yes | Investigate, Design | No | | Yes | Design | No | | No | | No | | | State Level | No | | No | | |
| 122 | Latvia | Public Sector | Rīgas dome Satiksmes Departaments | Riga City Council, Department of Transport | www.rdad.lv | No | | Yes | Design | No | | Yes | Design | Yes | Design | No | | No | | No | | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | | |
| 123 | Latvia | Public Sector | SA "Rīgas ūdens" | Ltd "Riga Water" | www.rigasudens.lv/en | No | | Yes | Design | No | | No | | Yes | Self | No | | Yes | Investigate | Yes | Investigate | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | | |
| 124 | Latvia | Public Sector | Lielvārdes Novada Pārvaldība | Municipality of Lielvārde | www.lielvards.lv | No | | Yes | Buy | No | | No | | No | | No | | Yes | Buy | Yes | Buy | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Buy | No | | |
| 125 | Latvia | Public Sector | Mārupes Novada Pārvaldība | Municipality of Mārupes | www.marupes.lv | No | | No | | No | | Yes | Develop | Yes | Policy Makers/ Legislation | No | | Yes | Buy, Develop | Yes | Buy, Develop | | Cross-border Cooperation Level in Baltic Sea region | No | | No | | |
| 126 | Latvia | Public Sector | Ventspils Pilsētas Dome | Ventspils City Council | www.ventspils.lv | Yes | Investigate | No | | Yes | Investigate | Yes | Investigate | No | | Yes | Investigate | No | | No | | | Local/ Regional Level | No | | No | | |
| 127 | Latvia | Public Sector | Daugavpils Pilsētas Dome | Daugavpils City Council | www.daugavpils.lv/eng | Yes | Design | Yes | Policy Makers/ Legislation | Yes | Design | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | | Not interested | No | | No | | |
| 128 | Latvia | Public Sector | SA "Jurmala ūdens" | Ltd "Jurmala Water" | www.jurmalaudens.lv | Yes | Investigate | No | | Yes | Develop | Yes | Develop | Yes | Develop | No | | Yes | Buy, Sell | Yes | Buy, Sell | Methods to determine infiltrate | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Buy, Sell, Develop | No | | |
| 129 | Latvia | Public Sector | Cēsu Pilsētas SA "Vinda" | VINDA Ltd - Enterprise of Cēsis Municipality | www.vinda.lv | Yes | Buy | No | | No | | No | | No | | No | | No | | No | | | Cross-border Cooperation Level in Baltic Sea region | Yes | Policy Makers/ Legislation | No | | |
| 130 | Latvia | Public Sector | WLO Baltic SA | WLO Baltic Ltd | www.wlo.lv | Yes | Sell | No | | No | | Yes | Sell | Yes | Sell | No | | Yes | Sell | Yes | Sell | | | Yes | Sell | No | | |

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BALTIC FLOWS

DIRECTORY OF RESEARCH TECHNOLOGY AND DEVELOPMENT - OFFER/DEMAND IN URBAN STORMWATER MANAGEMENT

SWEDEN



| GENERAL INFORMATION | | | | | STORMWATER QUALITY/QUANTITY MEASURES | | | | | | | | STORMWATER MANAGEMENT ACTIONS | | | | | | EXPERTISE & INTEREST | | WASTEWATER RELATED TECHNOLOGIES | | OTHER | | |
|---------------------|---------|----------------|--|--|--------------------------------------|----------|--|----------|--|----------|---|----------|------------------------------------|----------|--|----------|------------------------------------|----------|---|---|---|----------|--|----------|------------------------|
| | | | | | Precipitation Monitoring | | Stormwater Quality/Quantity Management | | Runoff & Load Monitoring | | Stormwater Collection | | Stormwater Management | | Modeling & Prognoses | | Water Treatment | | Special Competencies: Organization's most relevant technologies products and services in rainwater management and monitoring. | Interest in cooperation-at what level? | | | | | |
| No. | Country | Sector | Institution Name | Institution Name in English | Website | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | Involved | Action(s) in this Area | | | Involved | Action(s) in this Area | Involved | Action(s) in this Area |
| 501 | Sweden | Academia | Sveriges Lantbruksuniversitet | Swedish University of Agricultural Science | www.slu.se | Yes | | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | No | | Yes | Investigate | Yes | Develop, Investigate, Design | No | | Modeling land use and pollution impacts on water quality, analysis of long-term observations of water quality, modeling the effects of mitigation measures in agriculture and forestry | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Investigate | No | |
| 502 | Sweden | Academia | Uppsala Universitet | Uppsala University | www.uu.se | Yes | Investigate | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | No | | Yes | Investigate | Yes | Develop, Investigate, Design | Yes | Investigate | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | No | |
| 503 | Sweden | Academia | Luleå Tekniska Universitet | Luleå University of Technology, Urban Water Engineering & Management | www.ltu.se/water | Yes | Investigate | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | No | | Yes | Investigate | Yes | Develop, Investigate, Design | Yes | Investigate | Modeling land use and pollution impacts on water quality, analysis of long-term observations of water quality, modeling the effects of mitigation measures in agriculture and forestry | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | | No | |
| 504 | Sweden | Private Sector | Sveriges Geologiska Undersökning, SGU | Geological Survey of Sweden (SGU) | www.sgu.se | Yes | | Yes | Policy Makers/ Legislation | No | | No | | Yes | Investigate | No | | No | | Groundwater advisory and risk analysis | State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | No | | Yes | Sell |
| 505 | Sweden | Private Sector | Sweco | Sweco | www.sweco.se | Yes | Sell, Design | Yes | Sell, Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Sell, Develop, Investigate, Design | Yes | Sell, Develop, Investigate, Design | Yes | Sell, Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Sell, Develop, Investigate, Design | Yes | Sell, Develop, Investigate, Design | Stormwater management and wastewater drainage | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell, Develop, Investigate, Design, Policy Makers/ Legislation | Yes | Sell |
| 506 | Sweden | Private Sector | Vattenservice | Water resource | www.vattenservice.se | Yes | Sell | No | | Yes | Investigate | No | | No | | No | | Yes | Sell, Develop | Lake and coawater project management | Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | | Yes | Sell |
| 507 | Sweden | Private Sector | CHI AB | CHI AB | www.hydroflowsweden.se | Yes | Sell | No | | No | | No | | No | | Yes | Develop | | | Corrosion reduction, removal of bio film and calcium, reduction in tuberculation and improvement in separation of bacteria, killing of bacteria because of difference in osmotic pressure | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Develop | No | |
| 508 | Sweden | Private Sector | WRS Water Retard Systems Uppsala AB | WRS Water Retard Systems Uppsala AB | www.wrs.se | Yes | | Yes | Investigate | Yes | Investigate | No | | Yes | Design | No | | Yes | Investigate, Design | Design of stormwater treatment systems, such as wetlands. Design of automatic control strategies for resource efficient treatment of wastewater, evaluation of water monitoring data (polluted waters) | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | Yes | Investigate, Design | No | |
| 509 | Sweden | Private Sector | Sweco Innovation AB | Sweco Innovation AB | www.sweco.se | Yes | Develop | Yes | Develop, Design | Yes | Investigate | No | Sell, Develop, Investigate, Design | No | | Yes | Develop, Design | Yes | Develop | Monitoring | | Yes | Develop, Design | No | |
| 510 | Sweden | Private Sector | FloccClean AB | FloccClean AB | www.flocclean.se | No | | Yes | Develop, Design | No | Investigate | Yes | Sell, Develop, Investigate, Design | No | | Yes | Sell | Yes | Sell | Filtering | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | No | |
| 511 | Sweden | Private Sector | Geosigma AB | Geosigma AB | www.geosigma.se | Yes | | No | Investigate | No | Investigate | No | Investigate | Yes | Investigate | Yes | Investigate | No | Investigate | Technical consultants within water and environment | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | No | |
| 512 | Sweden | Private Sector | VRC Vattensystemtekniska AB | VRC Vattensystemtekniska AB | www.vattensystemtekniska.se | Yes | | No | Investigate | No | Investigate | No | Investigate | Yes | Investigate | Yes | Investigate | Yes | Sell | Sales of water cleaning products | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 513 | Sweden | Private Sector | Tyrrens AB | Tyrrens AB | www.tyrrens.se | Yes | | No | Investigate | No | Investigate | No | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Technical consultants within water and environment | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 514 | Sweden | Private Sector | Geokema AB | Geokema AB | www.geokema.se | Yes | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Sell | Yes | Sell | Geochemistry, hydrology environmental research | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 515 | Sweden | Private Sector | Artena Groundwater Consulting AB | Artena Groundwater Consulting AB | www.artena.se | Yes | | Yes | Investigate | No | Investigate | No | Investigate | Yes | Investigate | Yes | Investigate | Yes | Sell | Environmental planning | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 516 | Sweden | Private Sector | Grundvattensökbyrå Björns AB | Grundvattensökbyrå Björns AB | www.bjorns.se | Yes | | Yes | Develop, Investigate, Design | No | Develop, Investigate, Design | No | Develop, Investigate, Design | Yes | Investigate | Yes | Investigate | Yes | Investigate | Groundwater advisory and risk analysis | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 517 | Sweden | Private Sector | MNV Sverige AB | MNV Sverige AB | www.mnvsverige.se | Yes | | Yes | Develop, Investigate, Design | No | Develop, Investigate, Design | No | Develop, Investigate, Design | Yes | Investigate | Yes | Investigate | Yes | Sell | Wastewater drainage, water treatment programs, education and project management for restoration | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 518 | Sweden | Private Sector | Euroflex Mikrokemi AB | Euroflex Mikrokemi AB | www.mikrokemi.com | No | | No | Investigate | No | Investigate | No | Investigate | No | | No | | Yes | Sell | Water chemical analyses | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 519 | Sweden | Private Sector | Renton Vattenservice AB | Renton Vattenservice AB | www.renton.se | No | | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | No | | No | | Yes | Sell | Water cleaning equipment water quality analysis | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 520 | Sweden | Private Sector | Urban Water Management AB | Urban Water Management AB | www.urbanwater.se | Yes | | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Sell | Yes | Sell | Water project management sustainability analysis | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 521 | Sweden | Private Sector | Rent Daggrävt AB | Rent Daggrävt AB | www.rent-daggravt.se | Yes | | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Develop, Investigate, Design | Yes | Sell | Yes | Sell | Storm water project management | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 522 | Sweden | Private Sector | AQIQA-Q AB | AQIQA-Q AB | www.aqiqa-q.se | No | | No | | No | | No | | No | | Yes | Sell | Yes | Sell | Drinking water solutions AQIATRACK (patent), real time monitoring and sampling system to detect unexpected contamination (microbiological and organic) in water e.g. drinking water, distribution pipelines, treated waste water, reclaimed water and water for reuse | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 523 | Sweden | Private Sector | Skadestyrning AB | Skadestyrning AB | www.skadestyrning.se | No | | No | | No | | No | | No | | Yes | Sell | Yes | Sell | Water disaster service | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region, Global Level | Yes | Sell | Yes | Sell |
| 524 | Sweden | Public Sector | Uppsala Vatten | Uppsala Water and Waste | www.uppsalavatten.se | Yes | Buy | Yes | Buy | Yes | Design | Yes | Buy, Design | Yes | Design | Yes | Buy | Yes | Buy | | | Yes | Design | No | |
| 525 | Sweden | Public Sector | Mälarens Vattensårskommitté | Lake Mälaren water association | www.malaren.org | Yes | | No | | No | | No | | Yes | Policy Makers/ Legislation | No | | Yes | Policy Makers/ Legislation | | | Yes | Policy Makers/ Legislation | No | |
| 526 | Sweden | Public Sector | Uppsala Kommun | Uppsala Municipality | www.uppsala.se | Yes | | Yes | Buy, Policy Makers/ Legislation | No | | Yes | Buy, Policy Makers/ Legislation | Yes | Buy, Policy Makers/ Legislation | Yes | Buy, Policy Makers/ Legislation | Yes | Buy, Policy Makers/ Legislation | | Local/ Regional Level, State Level, Cross-border Cooperation Level in Baltic Sea region | No | | No | |
| 527 | Sweden | Public Sector | Länstyrelsen Uppsala | County Administrative Board of Uppsala | www.lanstyrelsen.se/uppsala | Yes | | Yes | Investigate, Policy Makers/ Legislation | Yes | Investigate, Policy Makers/ Legislation | No | | No | | Yes | Policy Makers/ Legislation | Yes | Policy Makers/ Legislation | | Regional Level, Cross-border Cooperation Level in Baltic Sea region | No | | Yes | Investigate |
| 528 | Sweden | Public Sector | Utvecklingscentrum för Vatten Campus Renhagen AB | Water Development Centre Campus Renhagen AB | www.vattencentrum.se | No | | Yes | Investigate | Yes | Investigate | Yes | Investigate | Yes | Investigate | No | | Yes | Develop | | | Yes | Develop | No | |
| 529 | Sweden | Public Sector | Upplands Våby Kommun | Upplands Våby Municipality | www.upplandsvaby.se | Yes | Buy | Yes | Buy | Yes | Buy | Yes | Policy Makers/ Legislation | Yes | Design | Yes | Buy | Yes | Buy | | Local/ Regional Level | Yes | Policy Makers/ Legislation | No | |
| 530 | Sweden | Public Sector | Eskilstuna Kommun | Eskilstuna Municipality | www.eskilstuna.se | Yes | Buy | Yes | Buy | Yes | Buy | Yes | Policy Makers/ Legislation | Yes | Design | Yes | Buy | Yes | Buy | | Local/ Regional Level | Yes | Policy Makers/ Legislation | No | |
| 531 | Sweden | Public Sector | Stockholms Vatten | Stockholm Water | www.stockholmsvatten.se | Yes | Buy | Yes | Buy | Yes | Design | Yes | Design | Yes | Design | Yes | Buy | Yes | Buy | | | Yes | Design | No | |
| 532 | Sweden | Public Sector | Livmedelverket | National Food Agency | www.livmedelverket.se | No | | No | Investigate | No | Investigate | No | Investigate | No | | No | | Yes | Design | | | No | | No | |

 This project has received funding from the European Union's Seventh Framework Programme for coordination, support and capacity building under grant agreement no 319923.



BALTIC FLOWS PROJECT PARTNERS



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 319923.