



7th Framework Programme  
Regions of Knowledge  
FP-Regions-2012-2013-1  
Project no: 319923



# Latvia: Status quo: demands, needs and future steps in stormwater planning

BalticFlows

Gunta Šlihta / Institute of Physical Energetics

Sanita Jankovska / Riga Planning Region

Aija Zučika / Latvian Environmental Investment Fund



# Stormwater cluster development in Latvia

## Developed Storm water CLUSTER – triple helix model

↑ Public sector  
- mainly municipalities

↑ Business sector  
– subsidiary companies, engineering and planning companies

↓ Research institutions  
- mainly universities



# Stormwater cluster development in Latvia

## ACHIEVEMENTS:

- Gathered the field experts
- Stressed topicality of rain water management
- Raised capacity working together in the cluster as common unit
- Organized face to face meetings for more detailed discussions
- 3 common meetings organized with actual topics and discussions
- Achieved 4 project initiatives to develop stormwater management system
- Project ideas conception submitted in the BSR programme call



## THE CLUSTER member needs:

- To set up common goals and actions to improve real situation
- To develop new projects
- To share experience and spread out the best examples
- To integrate stormwater management within planning documents

## BUSINESS sector needs:

- To receive technical help in order to export knowledge, to sell products, to find new markets, to realize international projects
- To strength the cooperation and collaboration among different sector representatives
- To educate municipalities in new technologies, possibilities, innovations
- To raise the capacity of R&D project implementation in Latvia
- To educate new professionals
- To improve availability of data



## PUBLIC sector needs:

- To find financial support for stormwater management
- To raise society awareness of stormwater management
- To develop rain water tariff system
- To improve the building standarts
- To implement pilot projects
- To share responsibilities, support from the government

## RESEARCH sector needs:

- To find financial support
- To find partners for research cooperation
- To cooperate with entrepreneurs in order to implement new technologies



# Project initiatives

## I. Rain water tariff system development

Rain water tariff introduction is a part of sustainable urban planning, with systematic investments to increase rain water sewerage system management and cost effective solutions

- Methodology for stormwater management costs
- Estimates and costs of flooding cases
- Study visits
- Digital programme
- Public information campaign
- Tariff rate determination
- 3 pilot municipalities



## Project initiatives

### II. Database / platform of total rainwater sewerage network

The need of trustful and updated data about rain water sewage network; sewage treatment plants

- Summaries rain water management and monitoring technologies, services, products
- Digital mapping
- Technology instillation timetable, guarantees, deprecation
- Modelling flooding and water run off places
- Building knowledge capacity in local governments



## Project initiatives

### III. Test field of technologies, certification

Stimulate innovative technology development in the field of rain water management and monitoring:

- Expert team establishment
- Best mechanism evaluation, knowledge exchange
- Description of laboratory
- Team building
- Patents
- Establishment of the technology park/centre





## Project initiatives

### IV. Update national legislation

There is need for updated construction standard compliance with tendencies of rainfalls, climate change in national level

- Collection of rainfall intensity data and result assessment
- Evaluation of construction standard methodology
- Transfer the knowledge of best practice



## Legal framework

Several Regulations of the Cabinet of Ministers of the Republic of Latvia has been published based on the Water Management Law. These Regulations transpose Water Framework Directive requirements.

### **At the moment the ongoing development of binding documents:**

- Water management regulation (law) is being developed
- Building standard LBN 223-99
- River basins management plans
- Stormwater management activities included in the Riga Planning Region Development Programme 2014-2020 (final actualization June, 2015)



## Future steps

- Regular cluster meetings about the indicated topics
- Support for common project development
- Activities regarding on stormwater management development
- Cooperation with the Latvian Water Management and Sewerage Companies Association



7th Framework Programme  
Regions of Knowledge  
FP-Regions-2012-2013-1  
Project no: 319923



# BALTIC FLOWS

Thank you!

Gunta Šlihta / Institute of Physical Energetics  
Sanita Jankovska / Riga Planning Region  
Aija Zučika / Latvian Environmental  
Investment Fund



BALTIC FLOWS