

# iWatermap “Water Technology Innovation Roadmaps”

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Interreg Europe



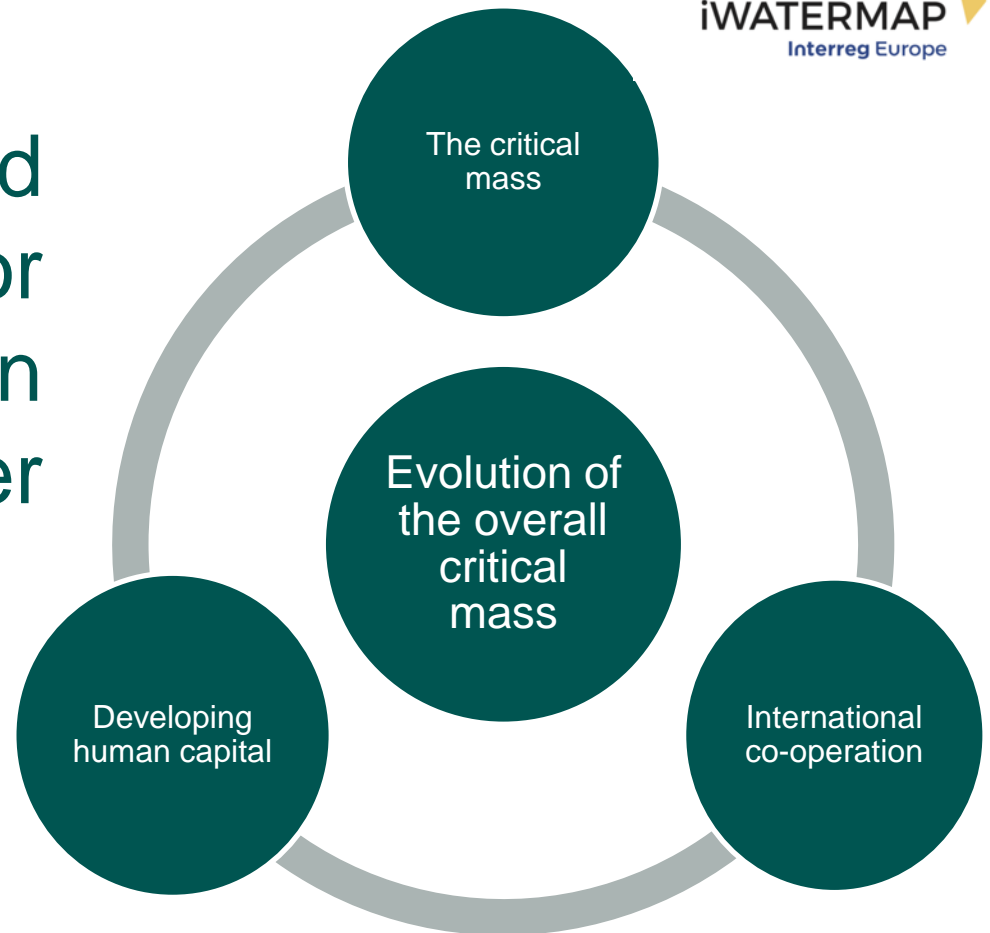
LATVIA

Project achievements and next steps

Agrita Lapinska & Jānis Zviedris,  
IZM&RTU  
Braga, 08.03.2023

# Main objective

Linking public and private interests for joint innovation activities in the water technology sector



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# Innovation ecosystem at the 2018



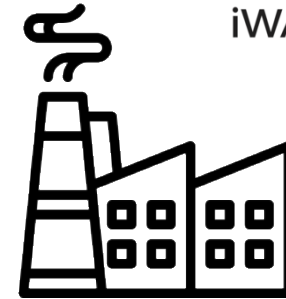
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**Government  
& Municipalities**



**Academia**



**Industry**



Sporadic and non-systematic co-operation between sectors

Missing "hotspots" for long term co-operation

Low number of people involved in sector



**Innovation?**

# Action Plan infographic

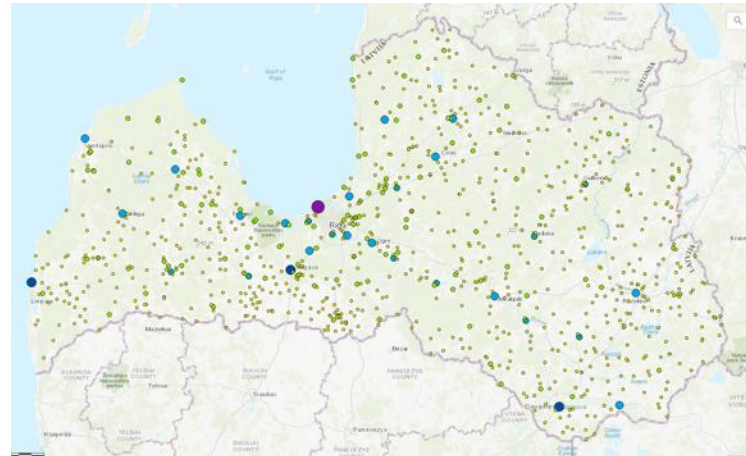


[https://projects2014-2020.interregeurope.eu/fileadmin/user\\_upload/tx\\_tevprojects/library/file\\_1658741533.pdf](https://projects2014-2020.interregeurope.eu/fileadmin/user_upload/tx_tevprojects/library/file_1658741533.pdf) - ACTION PLAN TOWARDS THE IMPROVEMENT OF THE CRITICAL MASS IN WATER TECHNOLOGY SECTOR IN LATVIA

# The water sector in figures



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>1000 drinking water treatment plants  
+  
921 waste water treatment plant

55 scientists,  
H= 343, 1439  
publications

3000 specialists in  
water utility  
companies  
engineers, operators,  
technicians, etc.

70 private sector  
companies

"E Water supply, wastewater, waste  
management and remediation"

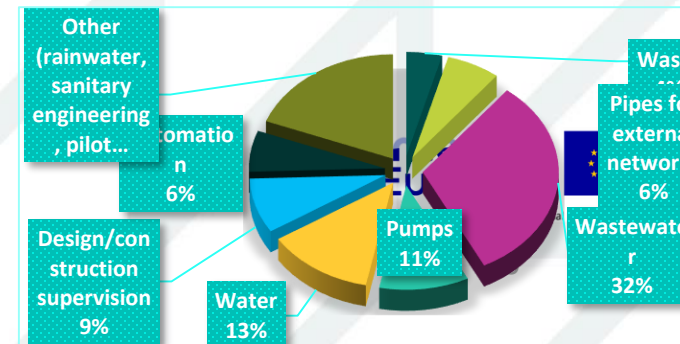
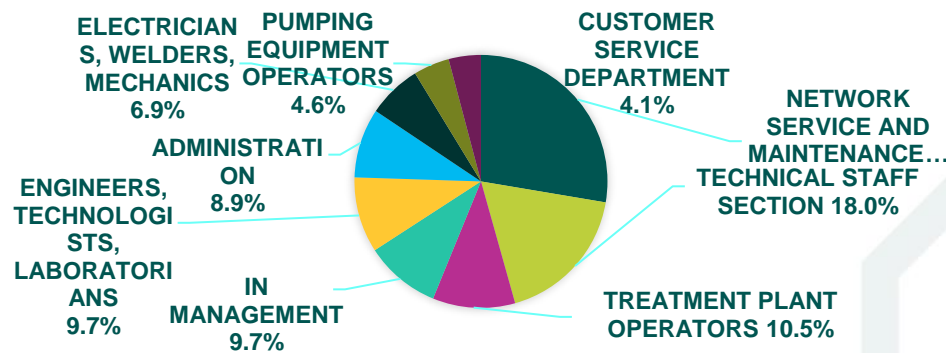
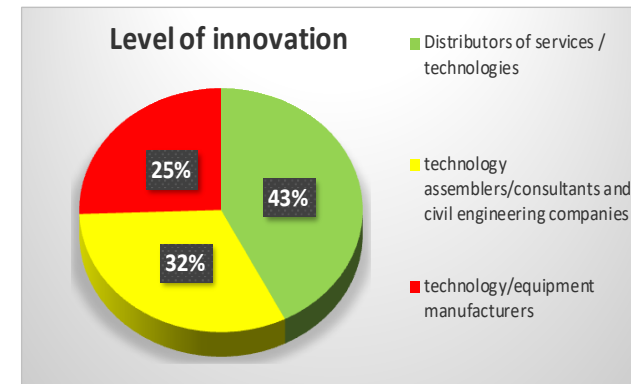
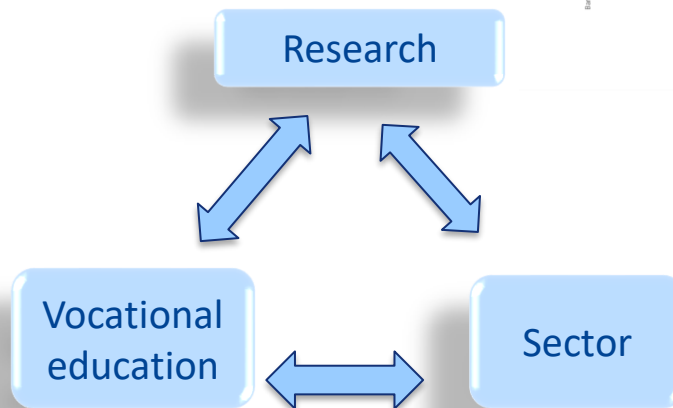
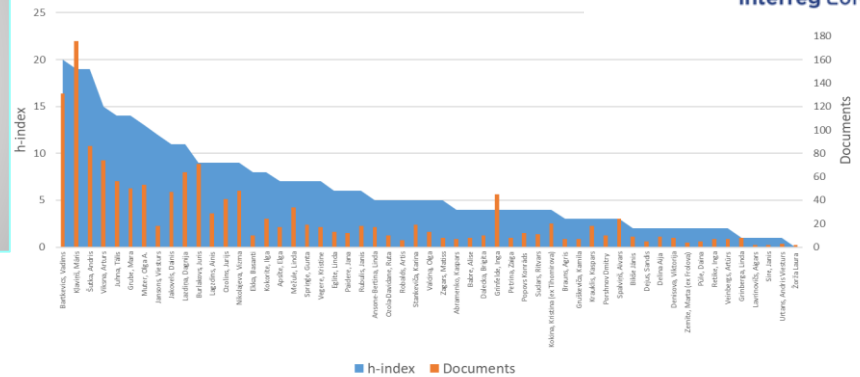
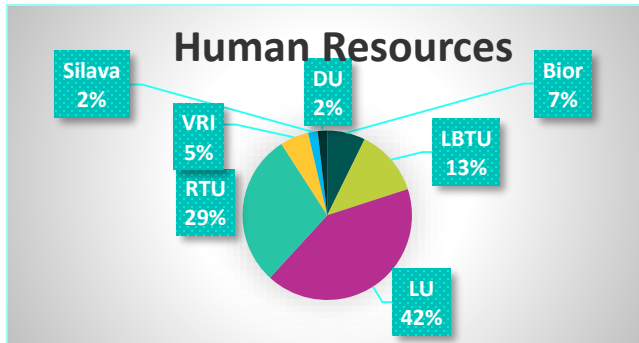
0.9%

value added at real prices in the structure of  
the economy

# Description of sector



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# Key players in the knowledge triangle



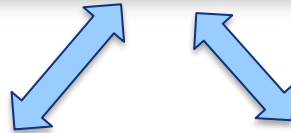
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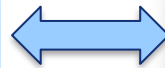
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Research



Vocational  
education



Sector



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# 3 x 3



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LU - Environmental sciences, agricultural and biological sciences, earth and planetary sciences

RTU - Engineering, Material Sciences, Environmental Sciences

LBTU - Environmental Sciences, Agricultural and Biological Sciences, Earth and Planetary Sciences

VTDT - technology

OTK - analytics

LIT - utilities



# Achievements in vocational education

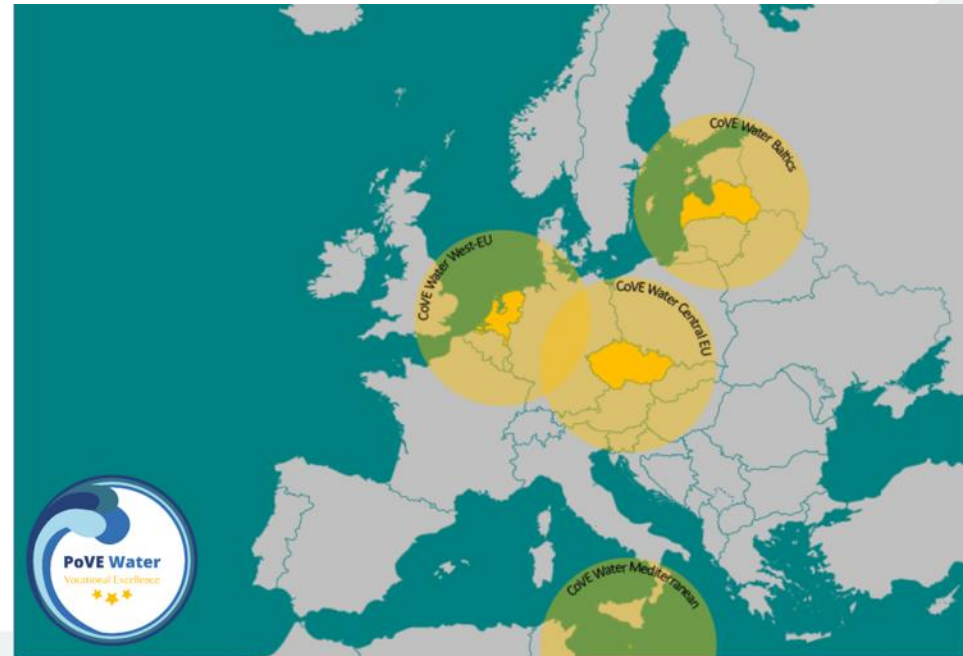


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Erasmus+ Sector Skills Alliances

2020-2021, Pilot Platform for Professional Excellence in Water  
- Pilot PoVE Water,

2022 –2026  
Cooperation between vocational training institutions and enterprises in vocational excellence education - PoVE Water Scale-up



European Union | European Regional Development Fund

# Achievements in vocational education

Don't rust  
Don't postpone

neierūsē  
neatliec

macibaspieaugusajiem.lv

Iegūsti profesiju  
un prasmes!



IEGULDĪJUMS TAVĀ NĀKOTNĒ

Vocational and continuing training in Environmental  
Protection Technology

Qualification Environmental Equipment Technician,  
NQF level 4

11.10.2022. – 19.10.2023.



VIDZEMES TEHNOĻĪJU UN DIZAINA TEHNIKUMS

www.vtdt.lv



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European Union | European Regional Development Fund

# Achievements in vocational education



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- Sarmīte Grava, Aivars Lapsa, Rigonda Prīse, VTDT
- Nikolajs Tukišs, LIT
- Ivars Pēkainis, OTK

- Māris Stūre, SIA Jelgavas ūdens
- Baiba Gulbe, RB Rail AS
- Oskars Čodors SIA Watex
- Uldis Kalniņš, SIA Lakalme
- Jānis Ambainis, SIA AVK Group
- Tālis Juhna, RTU
- Māris Kampenuss, Mattivessi OU
- Kristīna Kokina, RTU, SIA Jūrmalas ūdens
- Dmitrijs Kilups, SIA Automation Engineering
- Jānis Krafts SIA Ūdens risinājumi
- Ivans Krošnijs SIA Filter
- Mārtiņš Niklass, SIA ZAAO
- Linda Mežule, RTU
- Sandis Dejus RTU, LŪKA
- Jānis Zviedris, Cleantech Latvia
- Erki Lember, Tallinn University of Technology

KRISTĪNE REBINOVA, VTDT  
JĀNIS RUBULIS, RTU





# Achievements in vocational education



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Erasmus+ Small Scale Partnership  
"Development of Vocational Education  
in the Environmental Sector", 2022



Teacher training  
2022

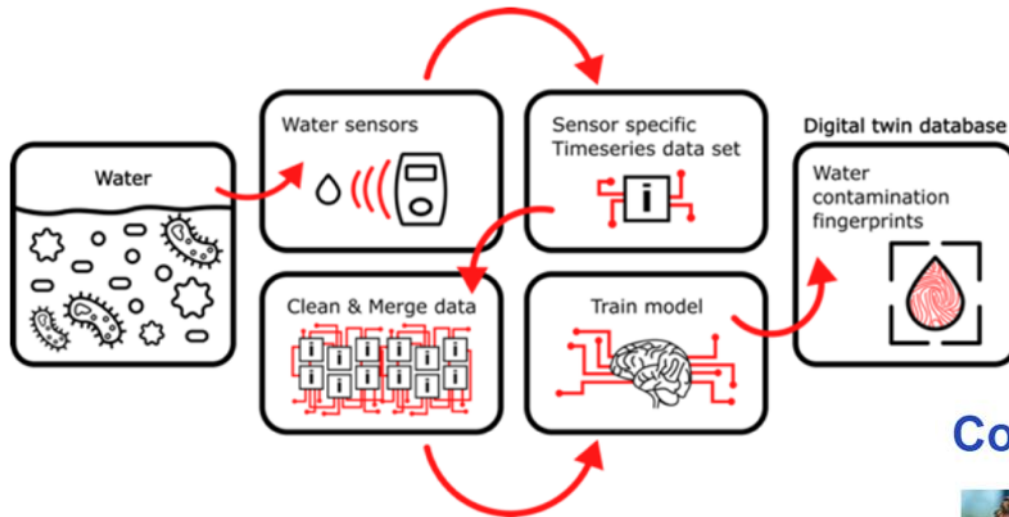


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# Achievements in start-up development



Principles of WATERSON technology



Climate crisis

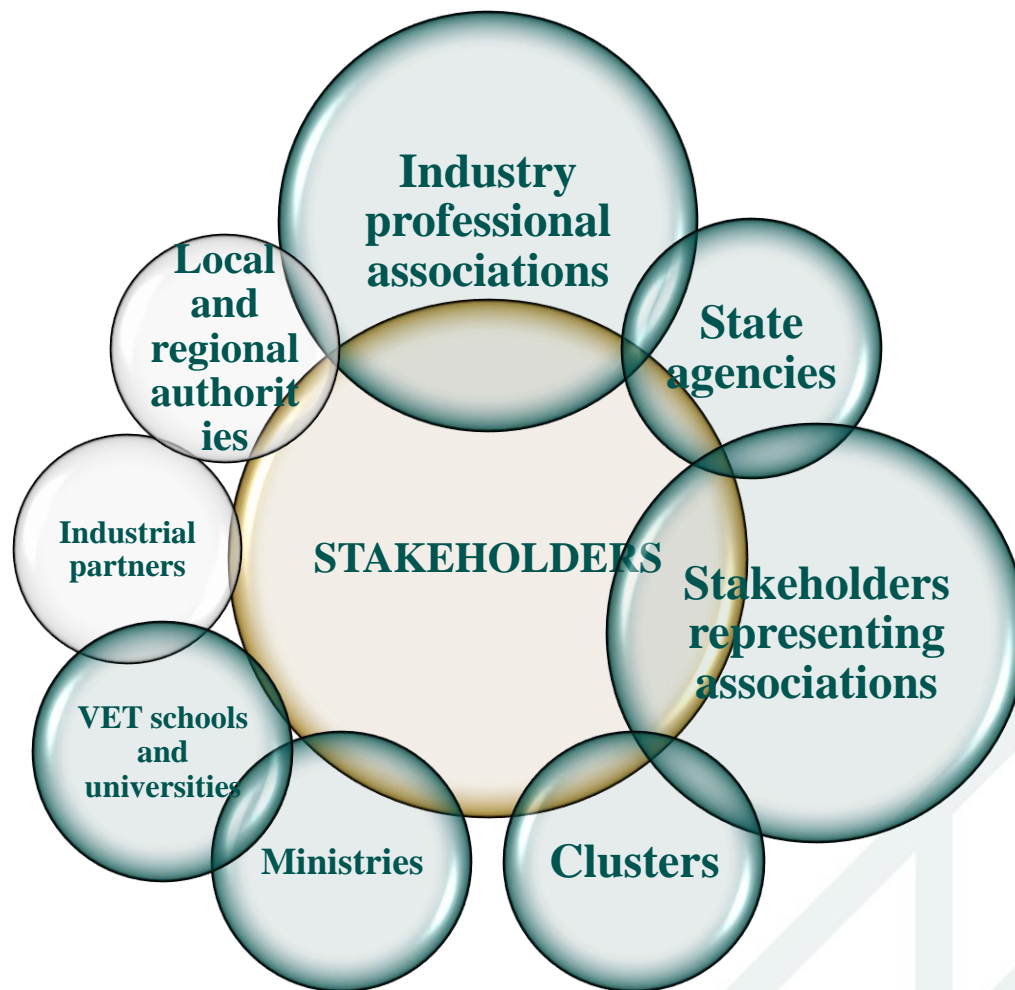
Urbanisation



## Core team & advisory

 <b>CEO</b> Dāvids Stēbelis MBA	 <b>IT</b> Mg. Sc. ing. Mārtiņš Bondars IT System Architect, DevOps	 <b>Customer care</b> Dr. Jānis Rubulis Drinking water researcher	 <b>Advisor</b> Dr. Tālis Juhna Scientist in water technologies
 <b>CTO</b> Dr. Sandis Dejus Drinking water researcher	 <b>AI architect</b> Dr. Sergej Parshutin Researcher in data science, machine learning and deep learning	 <b>Lab expert</b> Valts Urbanovičs Study water technologies in RTU	 <b>Advisor</b> Dr. Corina Carpenter Expert and scientist in water monitoring technologies

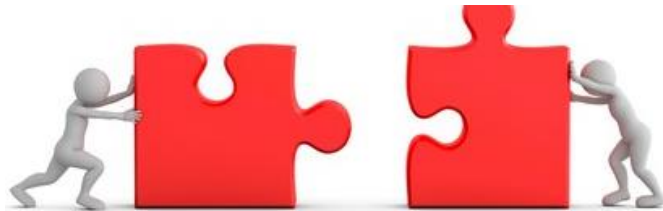




# Future steps in development of water sector



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**Merging the interests and activities of stakeholders**



**Increase the overall knowledge and awareness in environmental protection and water sector – attract more people**



**Formalization of the co-operation (Memorandum)**



**INNOVATION!**

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