



Critical Mass Development

Period: 2018-2021-2023

iWatermap TO DOs

TO DO : Critical Mass Development

- Conduct data and develop **proper analyses of the funding distribution** in water industry to assess existing situation. till
- For a holistic view, develop a **system to list and analyse academia research projects** in water industry. till
- Compose **data base of water industry stakeholders**, including researchers, entrepreneurs, experts and policy makers, to improve communication opportunities till
- Organise **thematic workshops between water industry and academia** to exchange knowledge on a specific problem cases (example: sludge management) till
- **Define water industry unsatisfied needs**, identify priorities for a period of next 3 years. Organize water **industry and academia conference to ignite discussion** about potential partnership opportunities till

TO DO : Critical Mass Development

- **Identify cluster and association role and responsibility** as future gate keepers to facilitate ignition of triple helix model on a full scale. till
- Systemize **student opportunities to obtain practice in water industry**. Initiate long term programs between industrial partners and academia. till
- Facilitated by clusters, **define water industry related technology demonstration projects in region** for specific water industry applications. Promote cooperation between academia and industry for knowledge transfer via demonstration projects. till
- With close cooperation between clusters, associations and academia, **promote water industry problems among bachelor and master students** for thesis purposes. Till
- **Road map for Water industry Critical Mass Development** in Latvia.

TO DO : Interregional Development

- Identify **pilot project to demonstrate opportunities and benefits** of interregional collaboration for SMEs and Academic institutions in Latvia. till
- Engage with Latvia stakeholders to inform and **establish communication for “Smart Water Territories” project** as part of the S3 Industrial Modernisation Platform. till
- Using Erasmus+ program support, **establish partnerships between regional and interregional academic institutions** for environmental engineering student exchange. till
- Develop a strategy how to **expand network of water industry stakeholders on a interregional level**, with objective to facilitate interregional knowledge exchange (e.g. Climate KIC program "Pioneers into Practice") and accelerate opportunities to start interregional projects. till
- ...
- **Road map development** for Interregional cooperation.

TO DO : Human Capital

- In cooperation with industry stakeholders **reestablish RTU Engineering Bachelor Study program** (EQF 6-7) for Heat, Gas and Water technologies (HGWT) and prepare all study subjects related with water topic in English language. • Till
- Develop international double degree Engineering Master Studies program in English language (EQF 7). • till
- Establish connection with Olaine VET (EQF 3-4) and develop a joint study track with existing RTU HGWT and new Biotechnology Bachelor Study program. • till
- Identify secondary schools (EQF 4) with traditions in STEM and prepare motivation programm related with water for school teachers • till

TO DO : Human Capital

- Develop lectures related with drinking water, sewerage and stormwater and cooperate with Science & curiosity centers “ZINOO” and RTU Children and Youth University (BJU) • Till
- Discuss with the Ministry of Education and Science changes in calculation of the basic research funding (support mechanism from government) and take in to account involvement of scientists as a supervisors of Scientific Research Worksfor of secondary schools kids • Till
- Together with industry develop PR program for popularization of water sector. • Till
- **Road map for Water industry of Human Capital Development in Latvia.**