

NEXOGENESIS 4th Stakeholder Workshop:

"Water-energy-food-ecosystem Nexus: from interlinkage modelling to decision support tool and stakeholder agreement for integrated management of the Lielupe River Basin"

6-7 February 2024, Riga, Latvia





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003881.



Recap of NEXOGENESIS project and activities in the

Lielupe Case study

Daina Indriksone, Baltic Environmental Forum – Latvia 06.02.2024, Riga, Latvia

NEXOGENESIS 4th Stakeholder Workshop

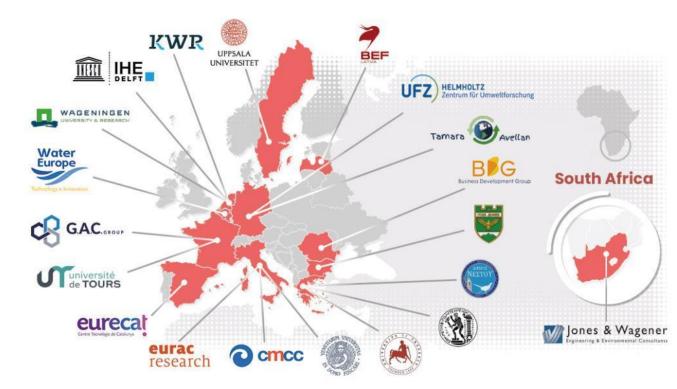




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What is NEXOGENESIS?

- European research project (Horizon 2020)
- Sep 2021-Aug 2025
- 20 partners
- 5 case studies
- Lead: IHE, the Netherlands



To facilitate collaboration for design and implementation of integrated water-energy-food-ecosystems (WEFE) policies and practices



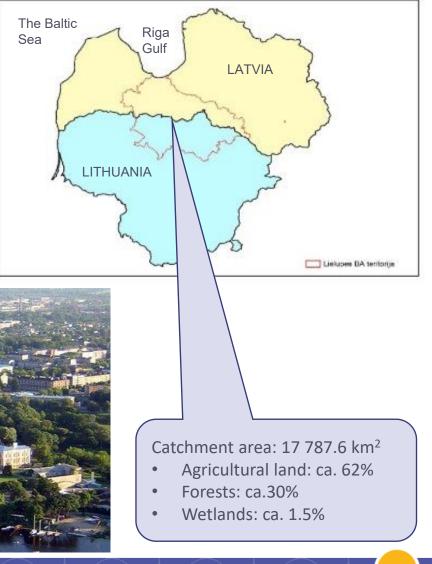
5 Case studies: Transboundary and national river basins



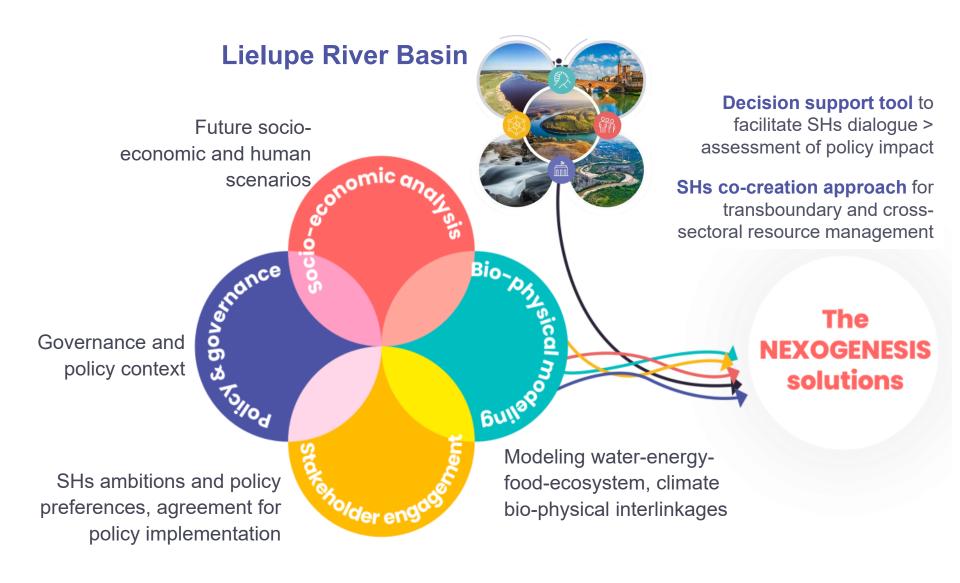
Latvia-Lithuania transboundary Lielupe river basin district

- Well-developed agricultural activities (fertile soils)
- **Decreasing biodiversity:** reduced meadows and pastures, pressure on grassland habitats
- **Pollution of water bodies** by increased use of fertilizers and nutrient runoff
- **Increasing flood risks**: high precipitation, pressure on hydrotechnical infrastructure



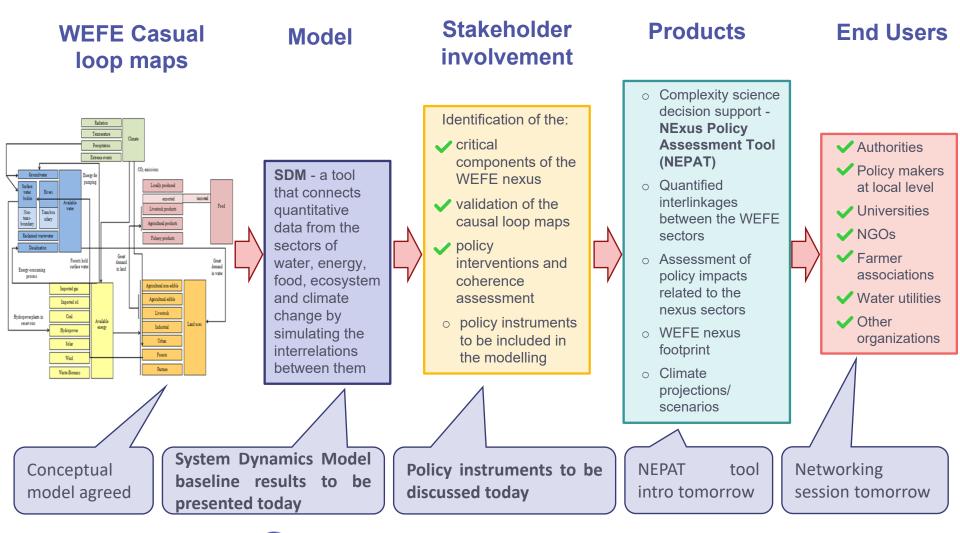


What can NEXOGENESIS do for Lielupe Case study?





Nexus System Thinking and Integration





Selected priority instruments in LV and LT

Nexus sector	Lithuania	Latvia
Water	Reduce water pollution load from urban areas: Nature-based solutions, e.g., constructed wetlands for smaller agglomerations	
Energy	Increase differentiation of energy sources in the energy mix, i.e., solar for small-scale application	Increase differentiation of energy sources in the energy mix, i.e., solar for small-scale application, wind for large commercial application, revenue for municipalities, biomethane 2-nd generation
	Reduce GHG emissions from (heat) energy consumption, i.e., energy performance of buildings, energy efficient technologies	NA
Food/agriculture	Increase biological farming , i.e., application of fertilizers, biologically grown products Alternated agricultural practices , e.g., minimal tillage, certification of fields, soil	
	quality protection	
Ecosystem		Ensure sufficient ecological flow , i.e., removal of obstacles, river restoration

Priority instruments defined during the 3rd SH workshop in Vilnius, on 15 June 2023



Paving the way towards long-term stakeholder cooperation

Governance assessment



 2 stakeholder interview rounds in Latvia and Lithuania

Cros-border cooperation

Promotion of regional & local cooperation activities for integrated management of the Lielupe River Basin resources:

 Transboundary stakeholder workshop in Bauska, Latvia

Stakeholder agreement

Facilitating process towards the design and adoption of a (transboundary) **stakeholder agreement** for integrated management of the Lielupe River Basin resources at various levels

NEPAT

shall promote communication, bridging national and local level stakeholders

Practical steps towards SH agreement to be discussed today



You are kindly invited to follow NEXOGENSIS

- NEXOGENESIS website: <u>https://nexogenesis.eu/</u>
- NEXOGENESIS social media:



X: <u>@NEXOGENESIS_eu</u>



- LinkedIn: <a>@NEXOGENESIS
- YouTube: <u>@nexogenesis4209</u>





