



Latvia University
of Life Sciences
and Technologies



WE 4 GREEN

LOCAL GREEN DEALS:
OUR MUNICIPALITIES
FOR THE GREEN
TRANSITION

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The Svēte River as a Model for Ecosystem Services: Triple Helix and Citizen Engagement for Sustainable Development

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WE4GREEN – WP3 – EVENT 3

WE4GREEN online European Conference

16th – 17th January 2025

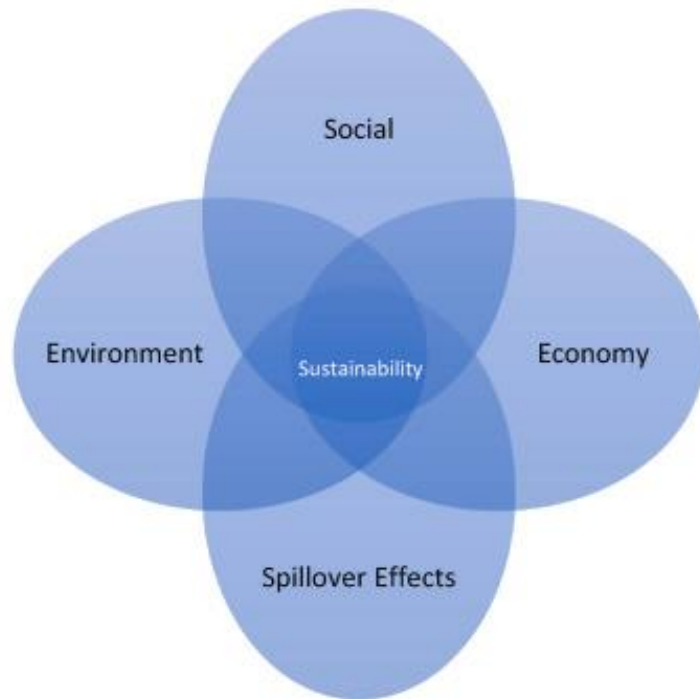




a- Weak sustainability



b- Strong sustainability



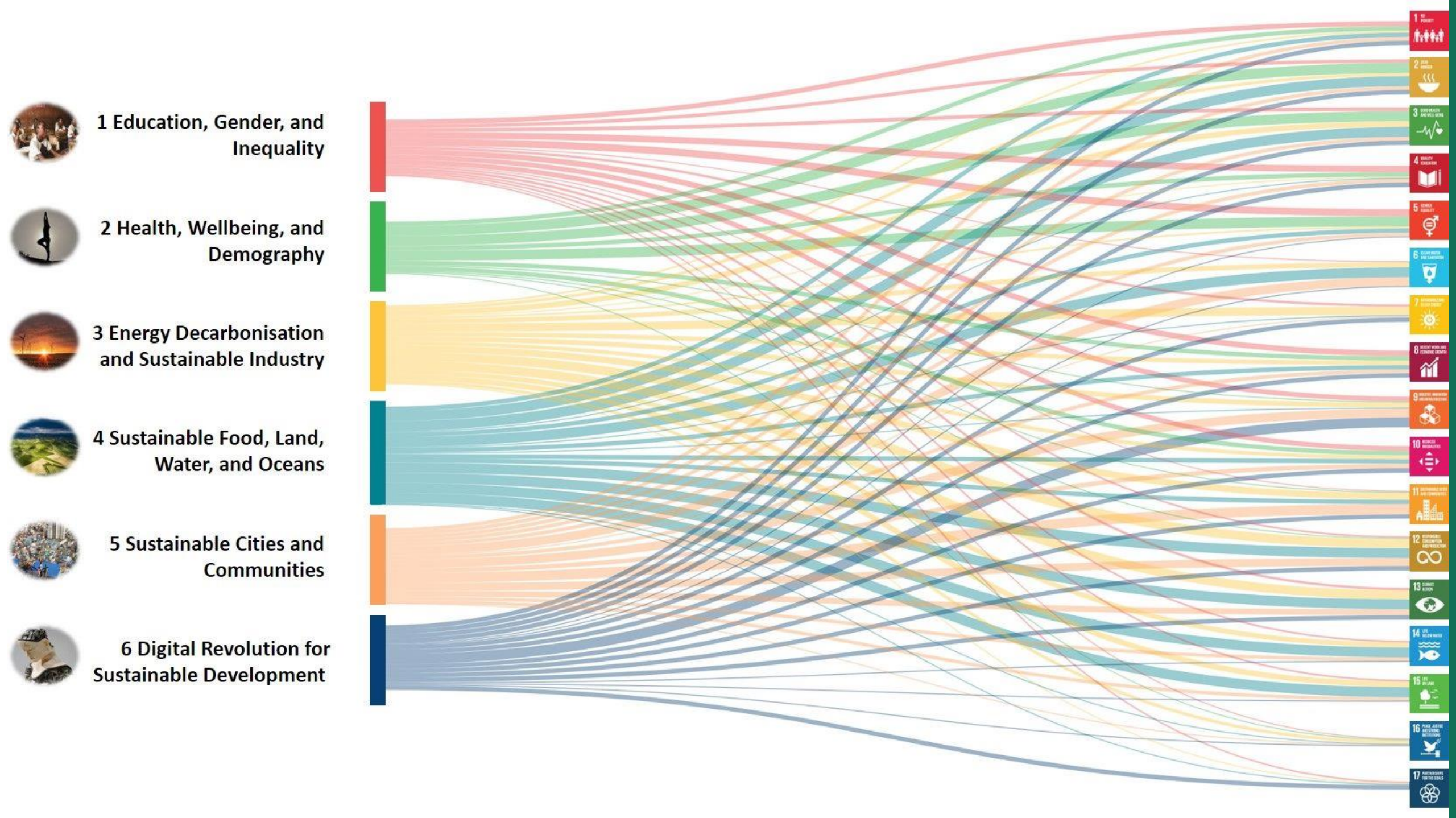
c- Integrated sustainability

(Taghvaei et.al. 2022)



The idea of sustainability have been changed during last 30 years:

- Weak sustainability
- Strong sustainability
- Integrated sustainability





The Triple Helix Concept

- University
- Industry
- Government

-

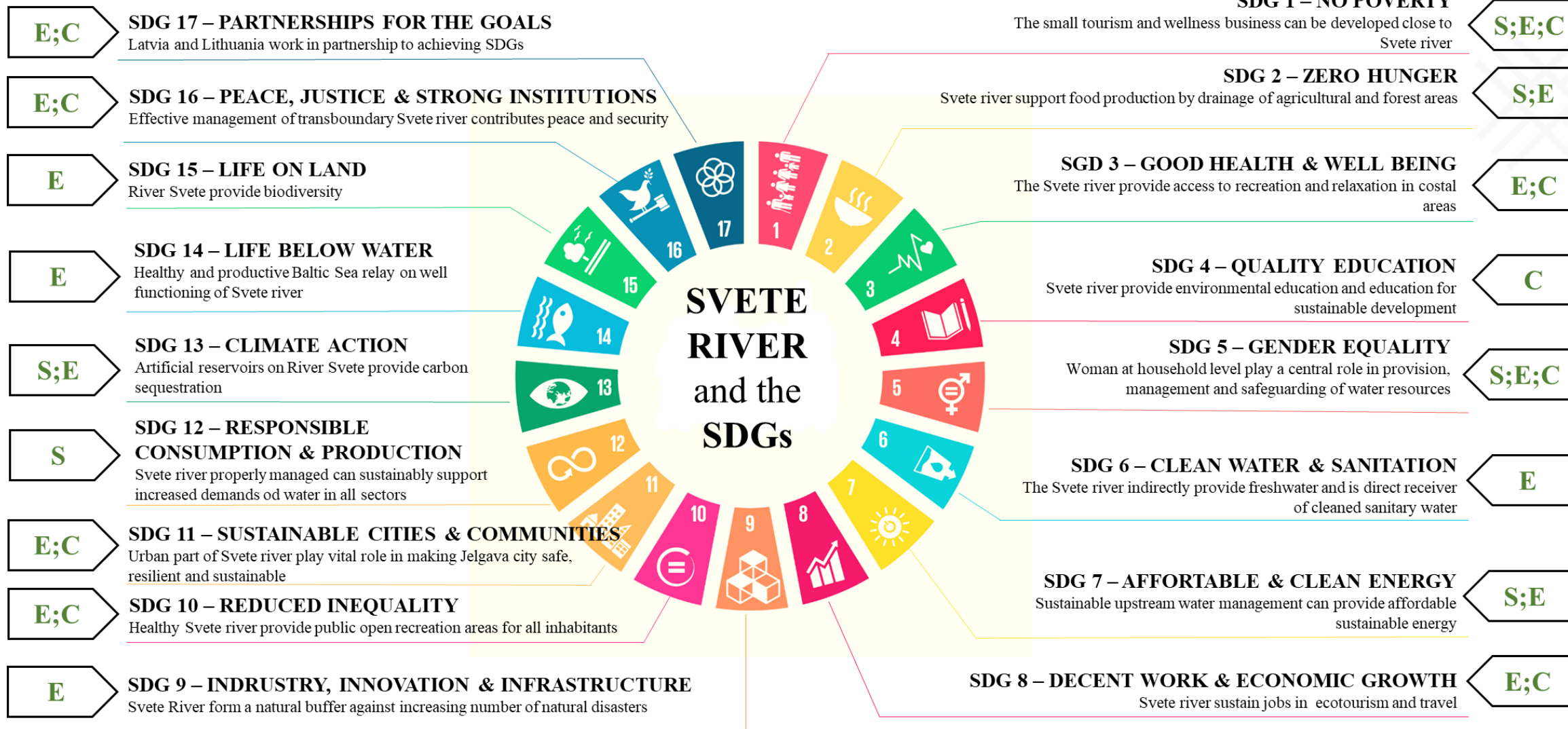
Kurzemes Region
 Latgales Region
 Rīgas Region
 Vidzemes Region
 Zemgales Region
 udensteces_line selection
Roads
 National roads
 Regional roads
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Assessment of Ecosystem Services

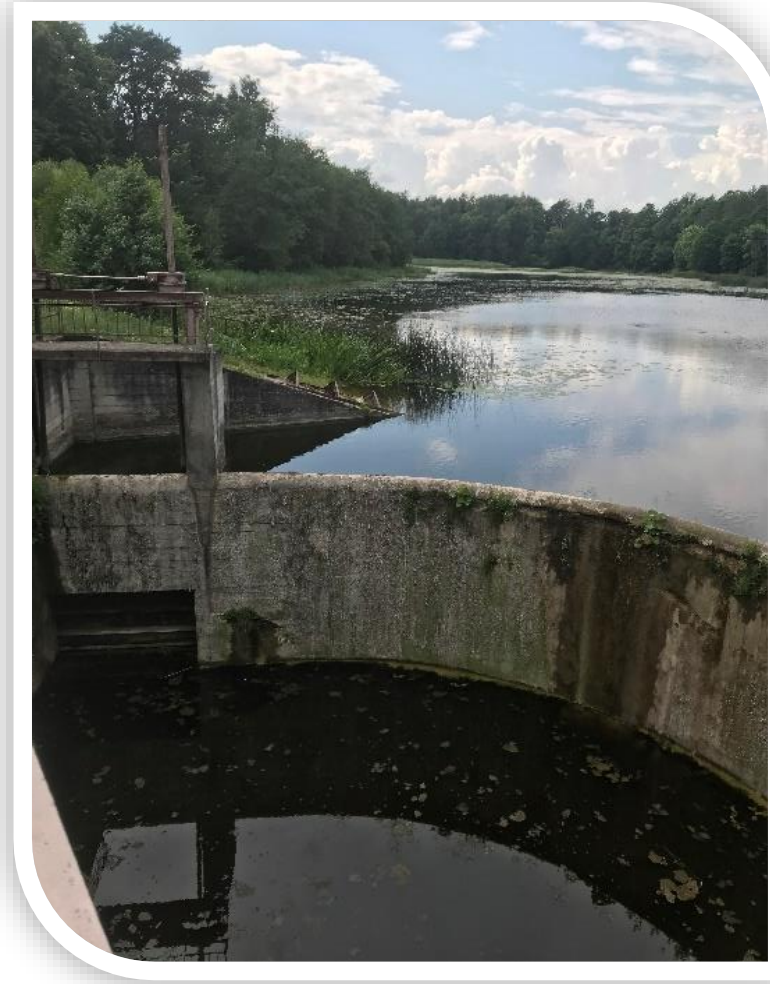
- ◆ The assessment of ecosystem services has been carried out in determining the useful value of ecosystem services:
 - 1) **biophysical assessment** (the structure and functions of the ecosystem);
 - 2) **social assessment** (clarifying ecosystem services of relevance to society);
 - 3) **economical assessment**.

Ecosystem services

- ◆ In this stage, ecosystem services (**Supply services (S); Environmental and support services (E); Cultural services (C)**) were analysed in the context of SDG and for each purpose a set of ecosystem services for the Svete River was identified, which is geared towards achieving the specific objective.



SDG 1- NO POVERTY



SDG 3 - GOOD HEALTH & WELL BEING

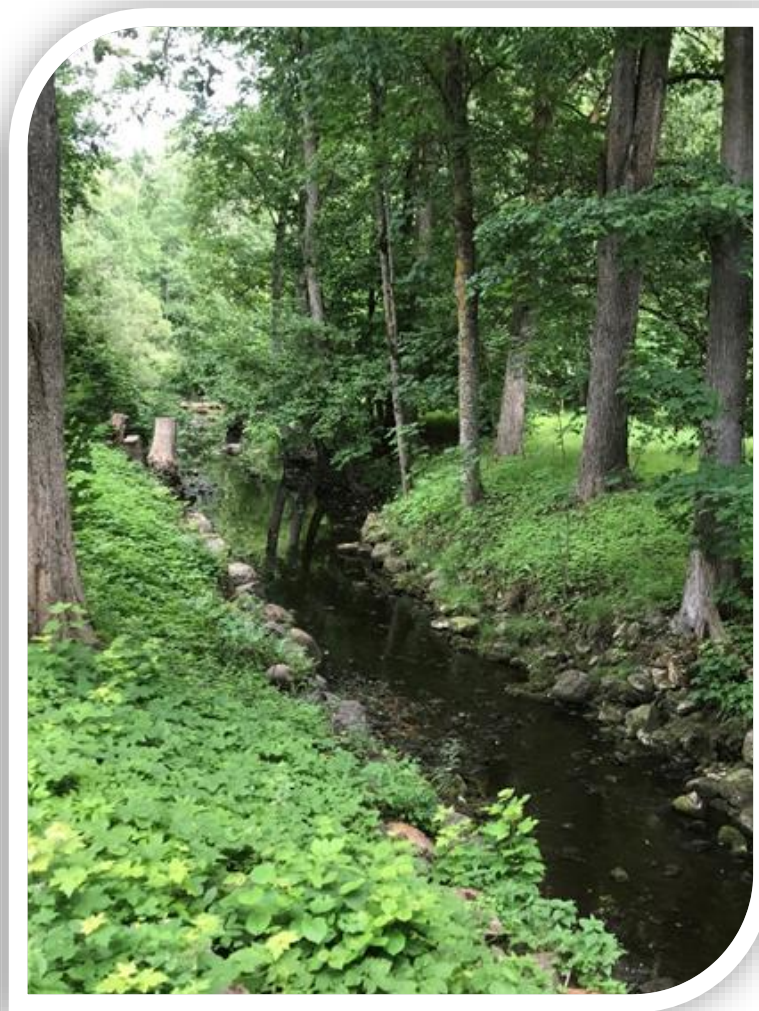




SDG 14 - LIFE BELOW WATER



SDG 15 - LIFE ON LAND



Conclusions

- ◆ Water quality, a healthy ecosystem and the restoration of biodiversity will benefit not only freshwater ecosystems and downstream users, including fast-growing cities, but also marine life in coastal areas and oceans.
- ◆ The Ecosystem Services of freshwater ecosystems play important roll on providing stability and sustanabilty of region. The development and promotion of ecosystem services by local municipalities will force achievement of Sustainable Development Goals.



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*The Earth is not a platform for
human life. It's a living being.
We're not on it but part of it. Its
health is our health.*

/Thomas Moore/

Thank you!

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