



NEXOGENESIS
STREAMLINING WATER RELATED POLICIES

Discussion on critical water-energy-food-ecosystems (WEFE) Nexus

Baltic Environmental Forum – Latvia

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*Baltic regional thematic workshop «Agriculture and good water quality: policy and management measures»
Session II: NEXOGENESIS*



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Discussion is related to the future development trends

- What does the socio-economic development mean for the municipality perspective?
- How socio-economic development interfere with biophysical parameters?



Meetings with stakeholders to discuss on Nexus interlinkages helps to elaborate the conceptual map for Lielupe River Basin

Issues at Nexus sectors in Lielupe river basin district

Water:

- Pollution is rather a problem compared to the availability of resource
- Rain-fed agriculture, drainage systems
- Water use for energy production – small HPPs & problems of obstacles to the water flow

Energy:

- On large scale – production from imported source (natural gas) and biomass
- Pressure on ecosystems by using natural resources (biomass, water)
- Future potentials seen for wind and solar energy sources

Climate:

- Horizontal sector
- Climate and food industry are very much interconnected



Issues at Nexus sectors in Lielupe river basin district

Food:

- Focus on food processing/ production industry sector
- Raw production material from local and imported sources

Land:

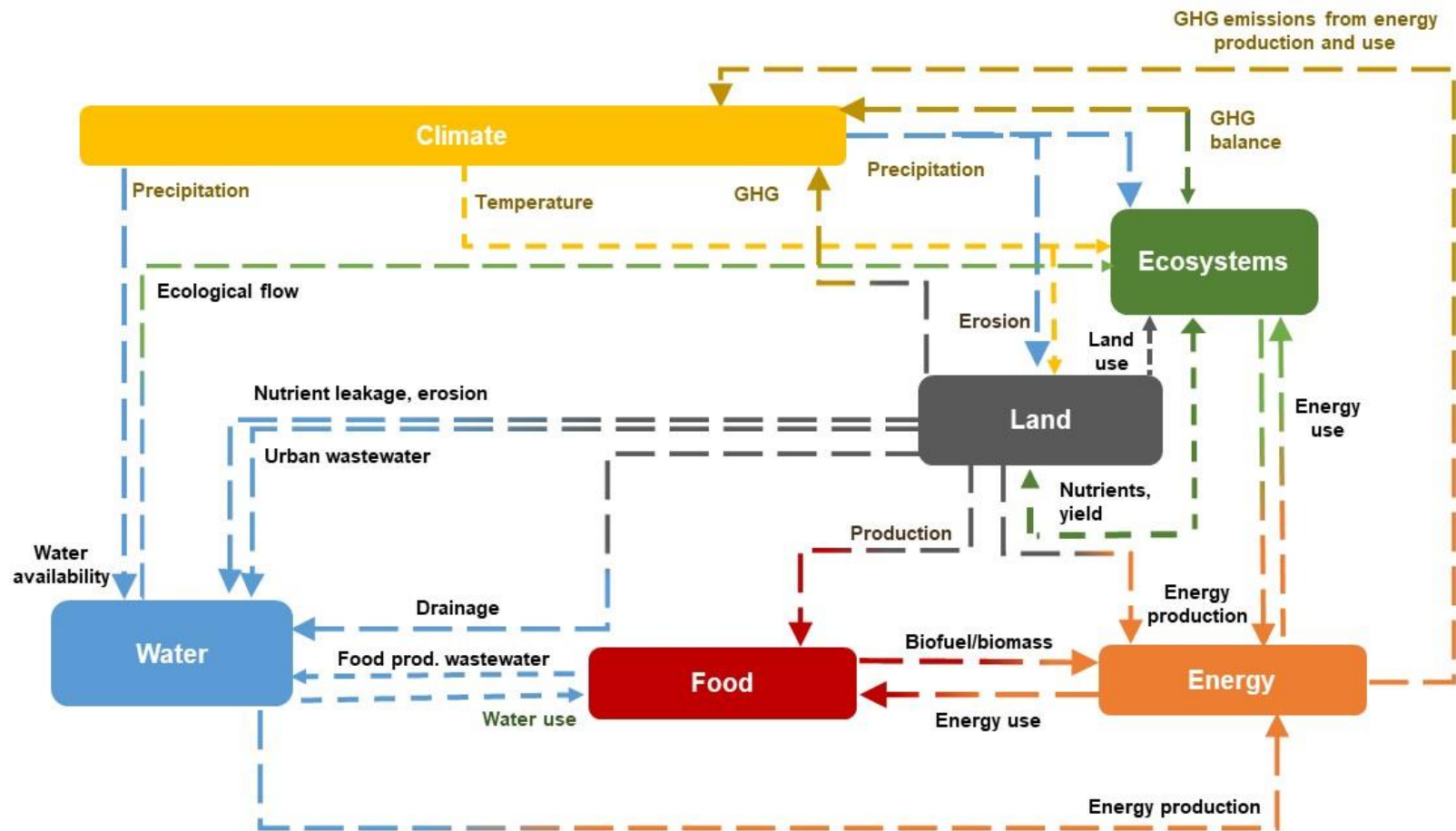
- Included as an important sub-sector
- Land-use options important for economic sectors, e.g., tourism, agriculture (crop production), energy
- Land-use practices have substantial impacts on water and ecosystem nexus

Ecosystems:

- Focus on ecosystem services and biodiversity
- Affected by energy, land, water sectors



Water-Energy-Food-Land-Ecosystems interlinkages



Which interlinkages may become more outstanding in future?

Working group discussion

1. Which are 3 of the most crucial **interlinkages** considering socio-economic development by 2050 for:

- reduction of **water pollution** in the Baltic Sea?
- achieving of **policy goals** in Latvia and Lithuania?
- **prosperity of local communities** within Lielupe river basin district?

Why these interlinkages are so important?

2. Which are the **key policies and instruments** to apply or to develop for maximizing benefits and reducing drawbacks?



Water-Energy-Food-Land-Ecosystems interlinkages

