



Water-Energy Nexus: Sustainable Renewable Energy Investment and Deployment

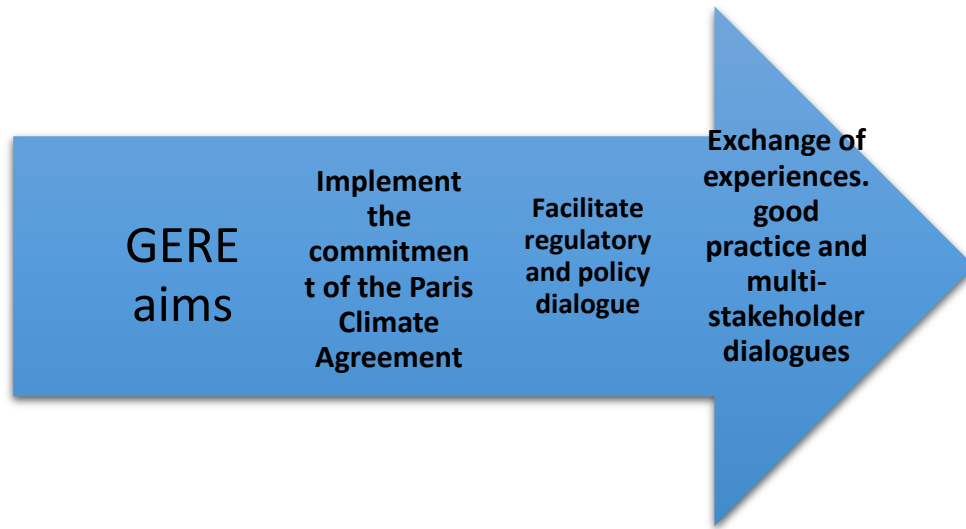
Nexus approach to foster cross-sectoral action

**Konstantyn Gura, Chair of the UNECE group of Experts
on Renewable Energy**

**6th Meeting of the Water-Food-Energy-Ecosystems Nexus under the Water
Convention
Session 3 Promoting nexus approach: key themes and partnerships**



UNECE GROUP OF EXPERTS ON RENEWABLE ENERGY (GERE)



Work Plan for 2020-2021

Assess opportunities for more sustainable and environmentally RE through inter-sectoral synergies (nexus)

Tracking progress in the uptake of renewable energy sources

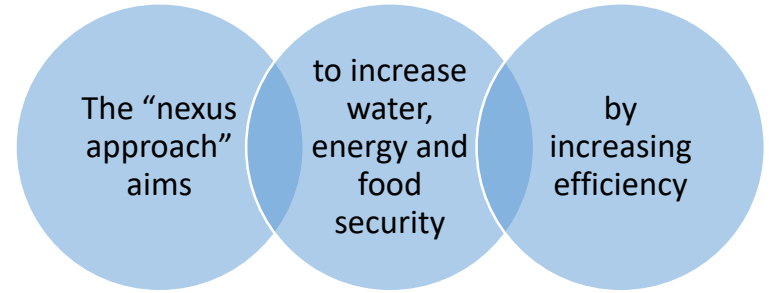
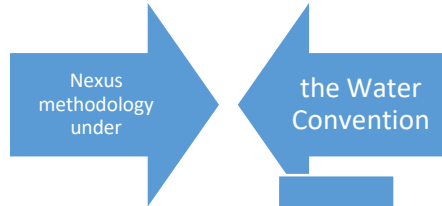
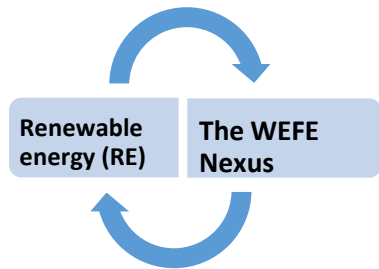
Using initiatives to concrete solutions for the reduction of barriers

Strengthen cooperation between public and private sectors

Promote information within workshops, seminars, roundtables



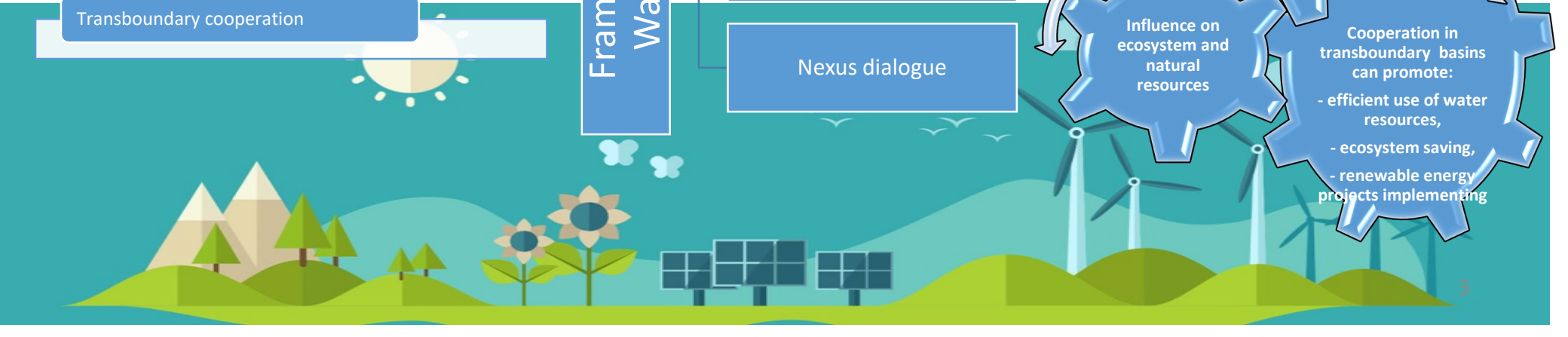
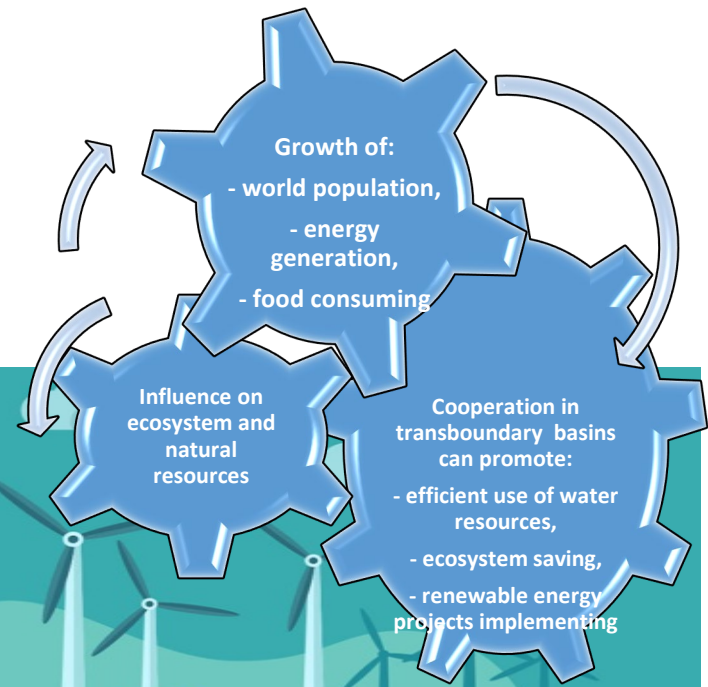
The Water-Food-Energy-Ecosystem (WEFE) Nexus



- GERE contributes:**
- Cross-sectoral synergies and benefits
 - Cross-sectoral trade-offs
 - Transboundary cooperation

Framework under the Water Convention

- Identification of key sectors and stakeholders to be included in the assessment
- Identification of basin conditions and the socioeconomic context
- Identification of intersectoral issues
- Nexus dialogue



Water-energy coop. focused on Renewable Energy



- Why? All RE has transboundary impact, and hydro competitiveness needs to be better understood
- Cooperation between **Environment** and **Sustainable Energy** Divisions at **UNECE**
 - Policy Brief on RE, nexus and SDGs (UNECE, 2017)
- “**Hard Talks**” on energy, considering water and environment (follow-up to **Drina Nexus Assessment 2016**)
 - ✓ Bosnia and Herzegovina 2018
 - ✓ Serbia 2019
- **Sustainable RE Deployment – a toolkit for Policy Makers** (UNECE, 2020)



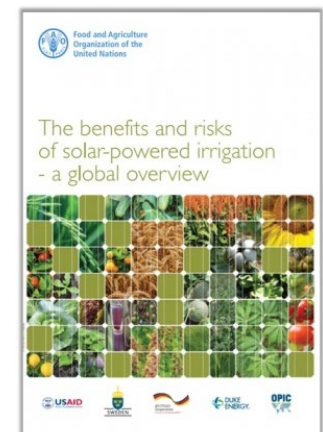
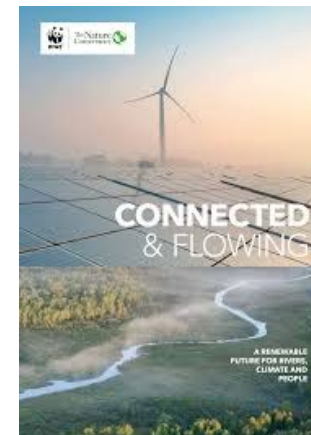
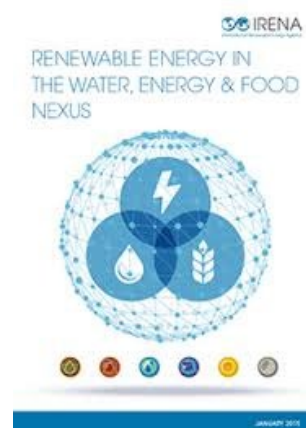
Increasing demands of water, food, energy – pressure on (transboundary) ecosystems



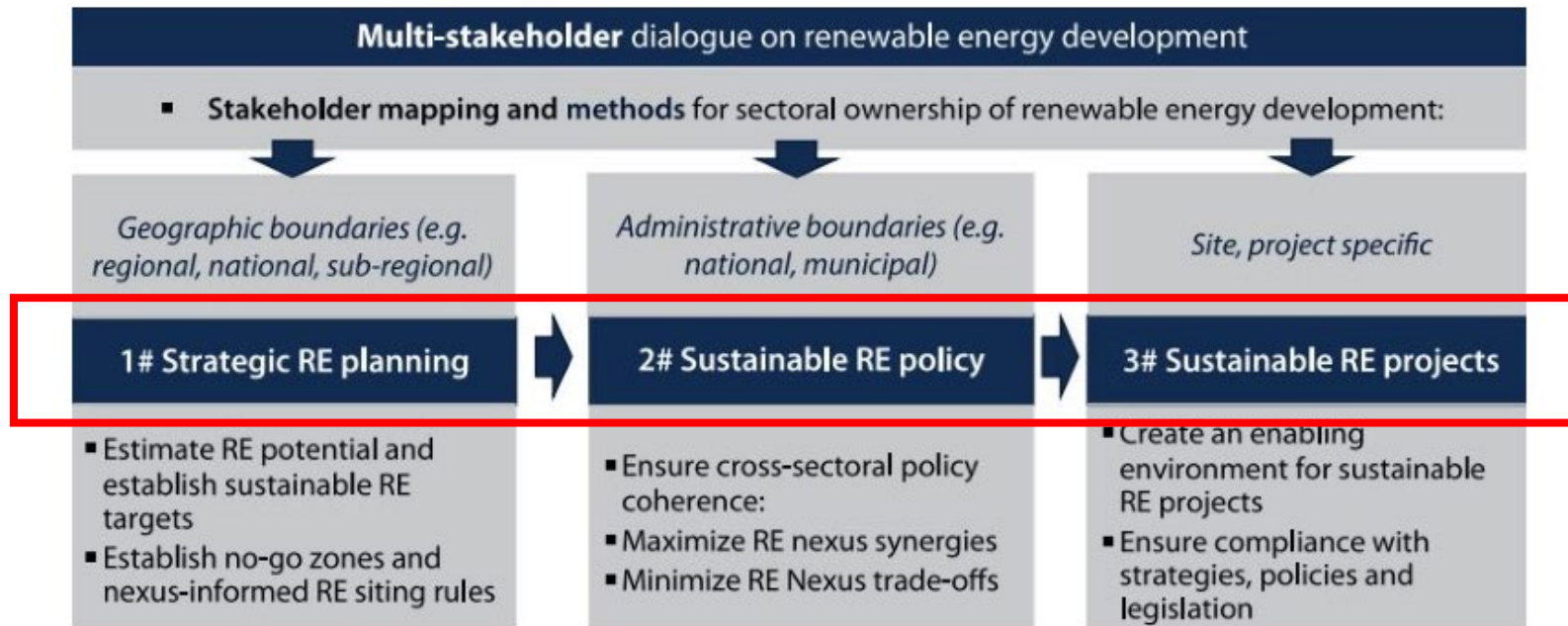
Demand of resources by 2050 and water-energy-food-ecosystem nexus

*“energy-related objectives can be achieved more effectively through integrated and consultative planning in **synergy with environmental and other sectoral objectives**, notably those of the water and agricultural sectors”*

Same conclusion from different perspectives on RE deployment:



Sustainable RE deployment along 3 tracks



Multi-stakeholder dialogue and the three tracks of sustainable renewable energy development: planning, policy and project



Concluding remarks

- **RE deployment with water and environment benefits** can effectively deliver on climate action (climate action = mitigation + adaptation)
- **UNECE toolkit supports cross-sector policy makers** in identifying and addressing synergies and tradeoffs through parallel tracks of RE development process
- **Coordinated water-energy approach is necessary** and is beneficial and effective for climate action.
- **Need for awareness rising** -> inclusive and effective public participation is crucial
- **Need for transboundary cooperation and coordination** to facilitate RE deployment at regional level – sustainably and efficiently
- Engage with UNECE Group of Experts on Renewable Energy and UNECE Task Force on Water-Food-Energy-Ecosystems Nexus to advance water-energy nexus on climate agenda.

