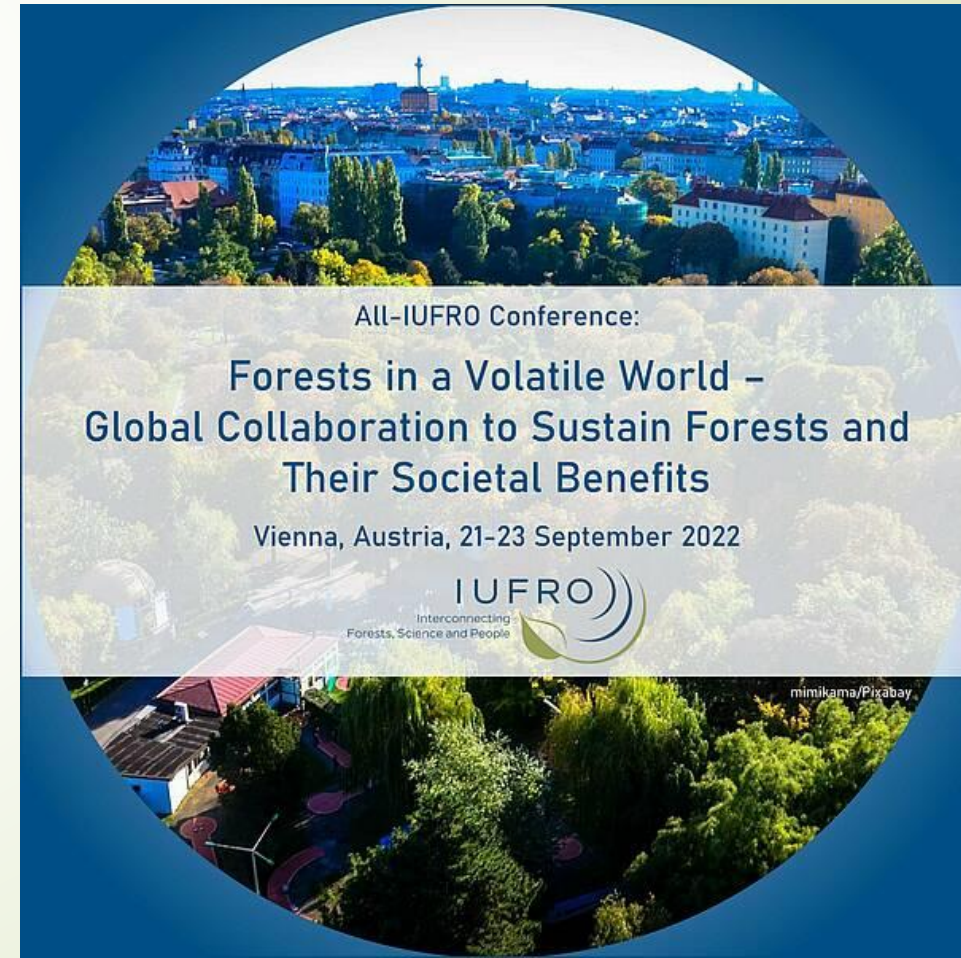


All-IUFRO CONFERENCE

Forests in a Volatile World – Global Collaboration to Sustain Forests and Their Societal Benefits

WRAP UP SESSION

**University of Applied Arts
21-23 September 2022**

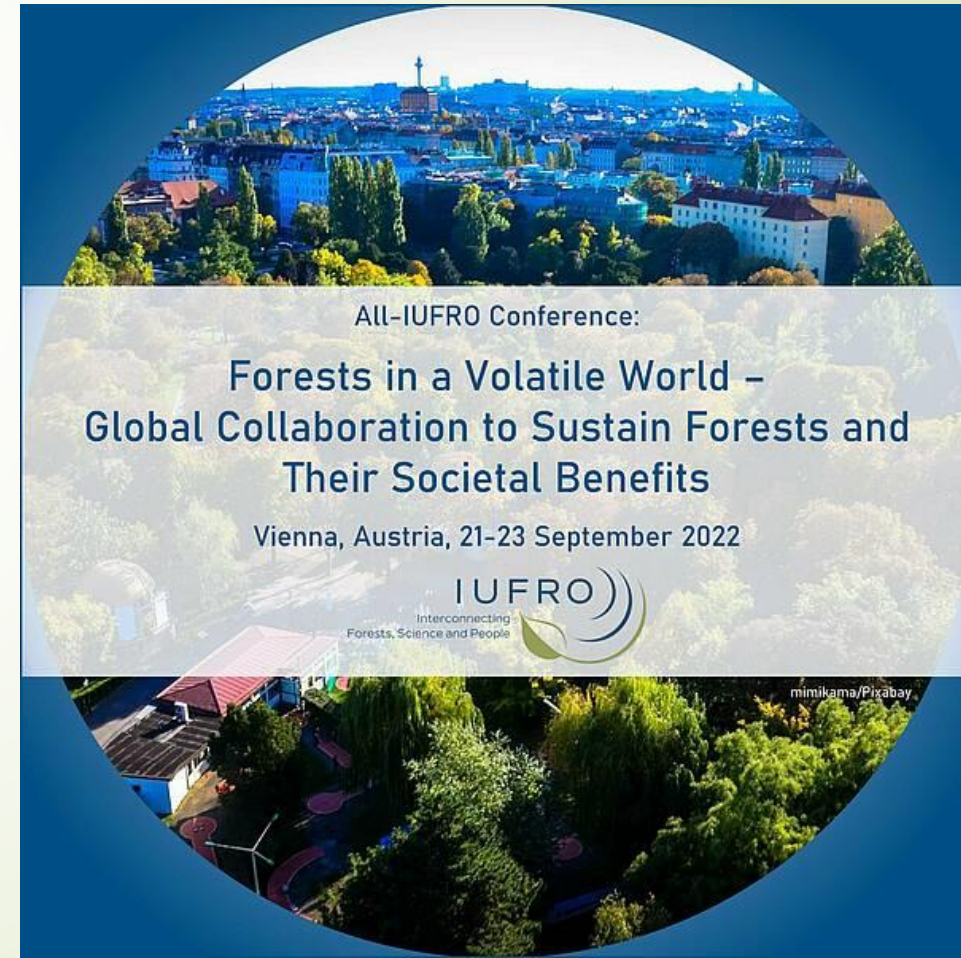


All-IUFRO CONFERENCE

Forests in a Volatile World – Global Collaboration to Sustain Forests and Their Societal Benefits

Identify Research and Collaborative Opportunities

**University of Applied Arts
21-23 September 2022**





Thoughts on Conference Sessions

Keynotes

- ***Daniela – transition from Production Logic (markets/states) to Community Logic is ongoing but incomplete***
Key difference is including people, access, and use
- ***Florian – challenges (climate change, land use change, effective mitigation) are SIGNIFICANT***

Thoughts on Conference Sessions

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FORESTS MUST DO IT ALL



Thoughts on Conference Sessions

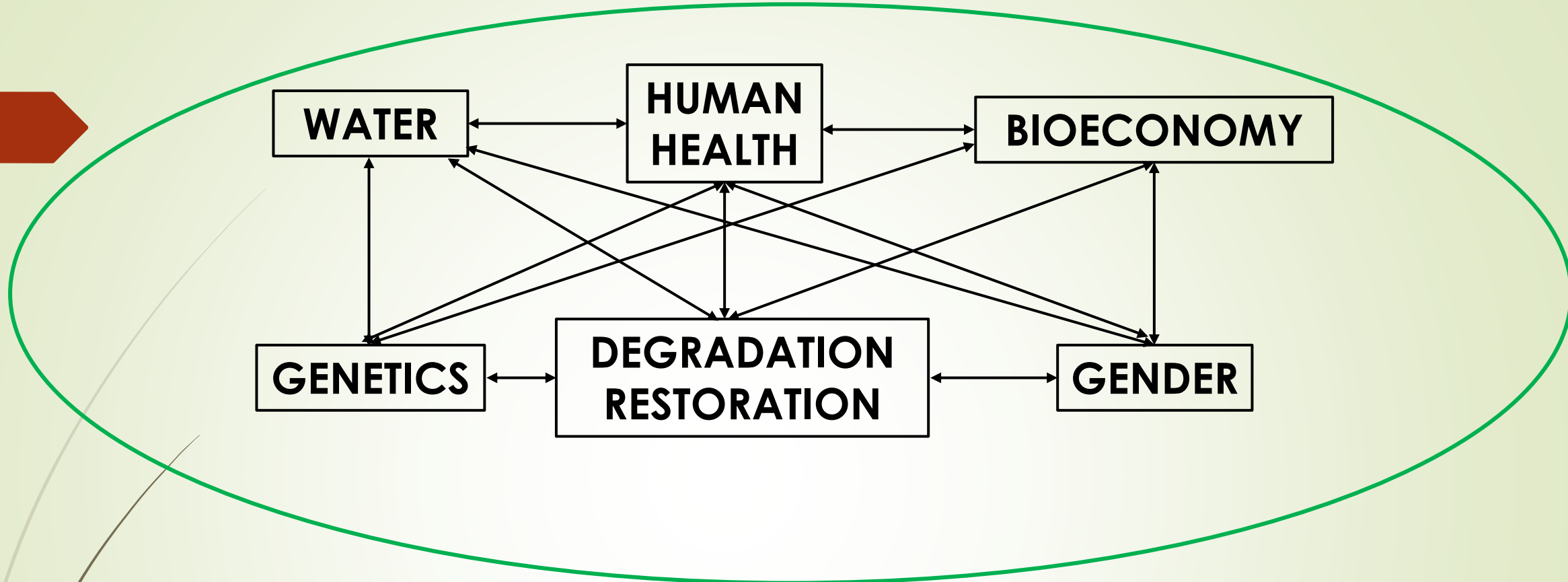
Opportunities

- *Afforestation under changing climate*
- *Management is key, but it must include people*
 - *People's needs – access, traditional uses*
 - *Local values/needs, social impacts*
- *Technical issues can be addressed, but how realistic given individual and societal needs*



Thoughts on Conference Sessions

- *Communication is Key*
 - *People must be at center of management, restoration, decisions*
- 





Plenary Session Highlights/Questions

Forests and Human Health

- **Forests are essential for our health and wellbeing, in many ways. Most people-forest relationships result in positive health outcomes, but we also need to manage potential negative outcomes of forest-people interactions.**
- **Although our knowledge on the relationships between forests and human health is expanding (especially for urban areas in high-income countries) there are still substantial knowledge gaps. We especially need to know more about forest-health relations in low-income countries.**
- **Emerging frameworks like the One Health approach can help with raising the importance of forests for human health within medical and other policy domains. These frameworks can also enhance cross-sectoral collaboration.**

Plenary Session Highlights/Questions

A Forest-Based Bioeconomy

- **Bioeconomy in the forest sector incorporates many aspects and dimensions**
- **Social and cultural aspects are integral to a bioeconomy**
- **Sustainability of jobs is critical - inclusion and equitable opportunities for informal sector and for women**
- **Bioeconomy should include a wide range of ecosystem services, including those linked to water, human health, traditional wood products, and NTWPs**

Plenary Session Highlights/Questions

Forest Degradation and Restoration

- **Forest Landscape Restoration (FLR) are rather a societal than a technical task.**
- **A proper detection and monitoring system for forest mortality and degradation and their causes is critical for successful FLR.**
- **There are no one-size-fits-all solutions for FLR available**
- **Collaboration, communication, and fair participation of all actors and stakeholders are critical.**

Plenary Session Highlights/Questions

Gender (un-)Equal Networking of IUFRO

- **The current unequal representation within IUFRO excludes a pool of knowledge**
- **It is important to pay attention to internal practices of research and its potential effects on knowledge production**
- **Change to the better requires commitments by all of us**





Plenary Session Highlights/Questions

Forest Genetic Resources for Future Resilient Forests

- **No matter how small the available resources, there are always ways to apply genetic principles to identify and use more adequate forest genetic resources in land restoration and forestry.**
- **Local communities know the value of genetic resources and can recognize genetic differences in tree species provenances for their best use.**
- **Breeding is an adequate tool to deal with multiple societal demands from forests as well as abiotic and biotic threats, and should be at the base of land restoration efforts.**
- **Given limited funding, efforts to characterize genetic resources must be adjusted to their potential use.**

Plenary Session Highlights/Questions

Forests and Water

- **Forests affect water cycles across watershed and national boundaries, but international governance does not have the capacity**
- **The holistic perspective on climate-forest-water-soil nexuses must be considered**
- **Practical tools can greatly support forest management for water provision**
- **But must consider 'hot spots' and 'critical areas'**
- **Ecological restorations have multiple effects on water, carbon and other functions /service**
- **May have trade-offs between carbon sequestration and water resources**



Discussion/Questions

Discussion Questions/Research Needs

- **How can we better integrate forest and human health aspects into relevant policies, including those at the global level?**
- **What can be done by IUFRO and other stakeholders to further enhance research on forests and human health, especially also in the Global South?**
- **How do we incorporate the circular bioeconomy concept into forest research programs involving other aspects covered in the Conference?**

Discussion Questions/Research Needs

- **How IUFRO can provide a platform for these considerations; to encourage transition to a forest-based bioeconomy?**
- **Is there a role for IUFRO to facilitate a more concise and clearer definition of a bioeconomy, which will cover all forest functions that differentiates a circular economy?**
- **Is there a need for a Task Force that specifically examines what is entailed by a forest-based bioeconomy**



Discussion Questions/Research Needs

- **Need monitoring data to show how forests influence cross-region or cross-continent vapor transport, and to understand the forest-climate-soil-water nexuses**
 - **Need modeling and management tools that integrate forest ecosystem processes with hydrological process under changed conditions**
 - **Need better definitions of hydrological ecosystem services to better assess forest benefits to aquatic ecosystems and people**
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