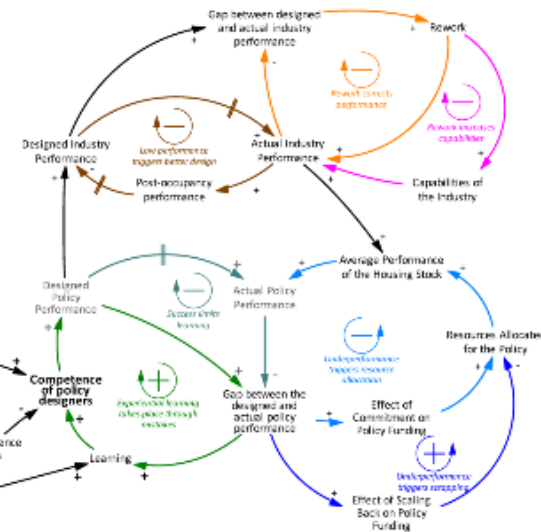


Social-ecological systems perspective on agriculture, food systems and biodiversity conservation



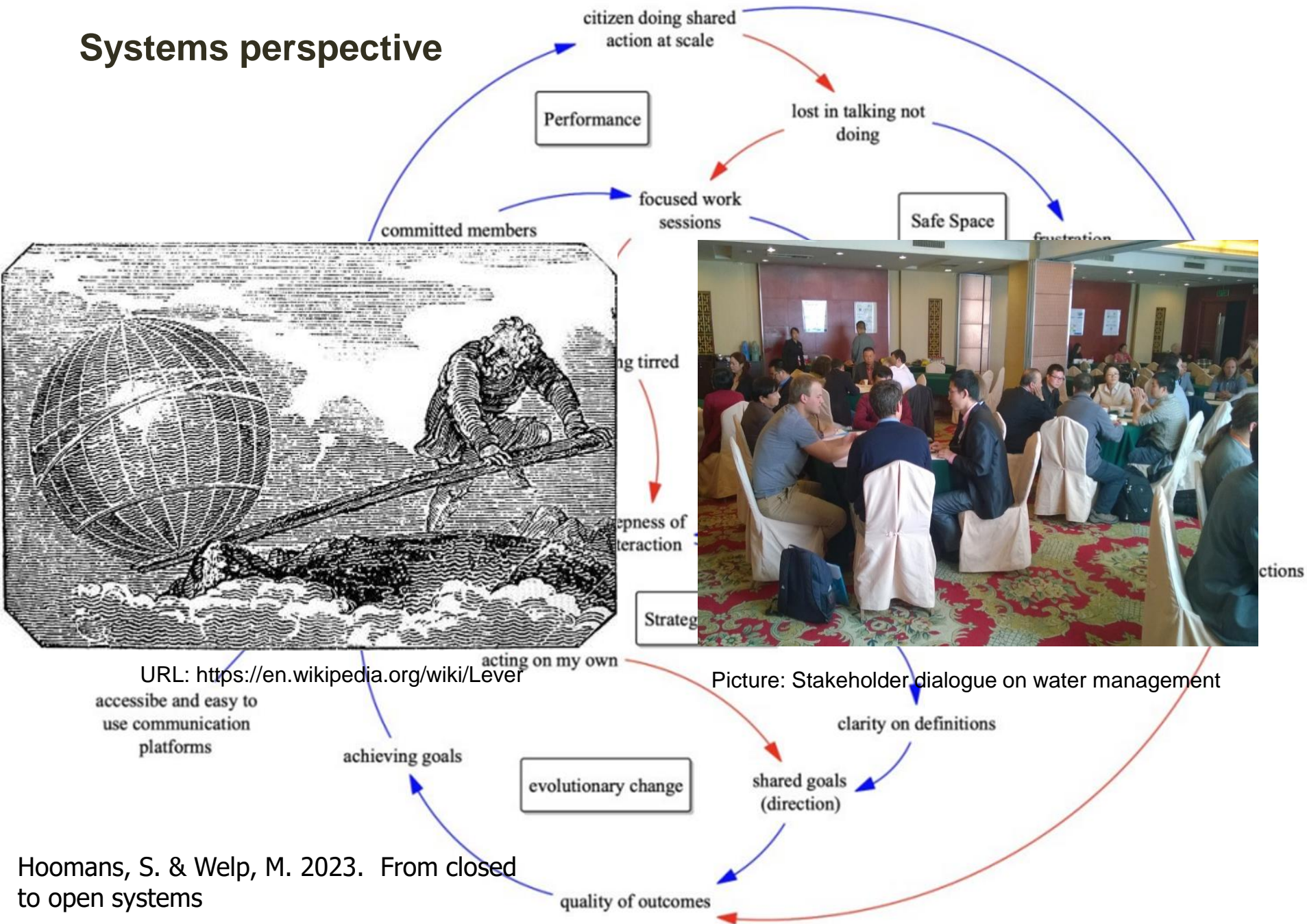
Prof. Dr. Martin Welp
Socioeconomics & Communication
Faculty of Forest and Environment

Challenge of food sovereignty



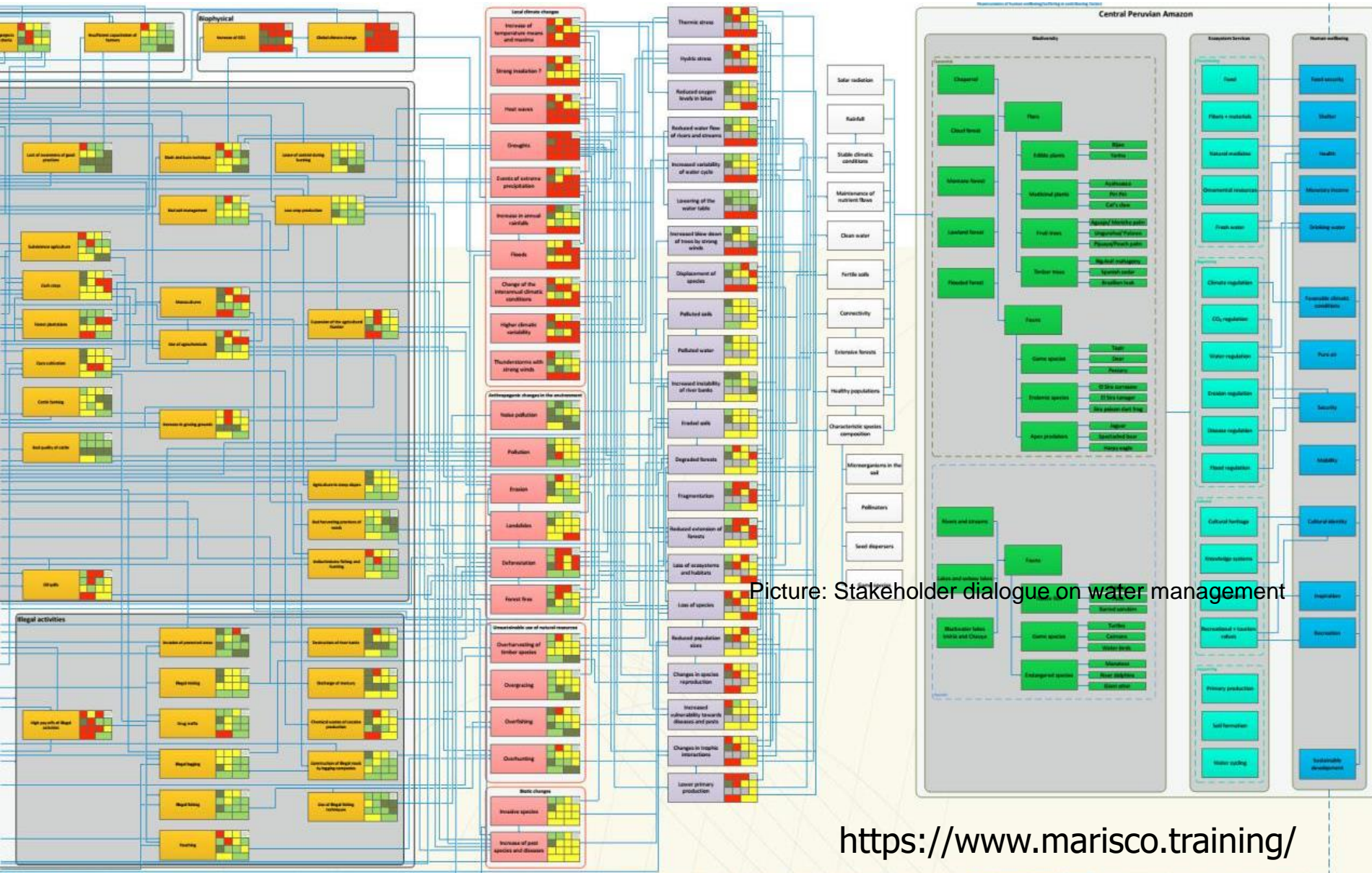
- Reduction of arable land (5%) due to urbanization and land degradation
- Share of agricultural imports grew from 7% to 14% of all imports since 2016

Systems perspective



Hoomans, S. & Welp, M. 2023. From closed to open systems

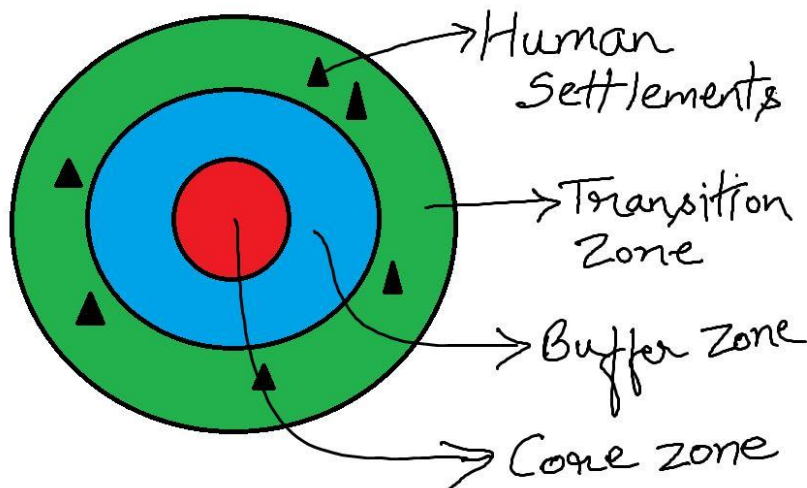
Systems perspective



Picture: Stakeholder dialogue on water management

Exemplary leverage points

1 Biosphere reserves



www.biospherereserves.institute

2 Agroforestry systems



Thevs et al. 2022. Potential of Agroforestry to Provide Wood Resources to Central Asia

Leverage points

3 Urban ecosystems

Junghans, L., Kreft, S. & Welp, M. 2018.
Inclusive Visions for Urban Transitions

4 Dietary preferences

<https://eatforum.org/>



Thank you! 谢谢!



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