



ESR9: Critical nodes in economic connectivity: a multi-method application to facilitate structural transitions

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A bit about myself: Education

- BSc. Land Resource Management– Nanjing Agricultural University, China
- MSc. Resource and Environmental Economics (*cont.*) - Nanjing Agricultural University, China
 - *“Designing Policy Instruments for the Long-term Sustainability of the Post-Tree-Crop Intercropping program in rural Xinjiang, China: a Choice Experiment Approach”*
- MSc. Rural Development – Ghent University, Belgium & Humboldt University, Germany
 - *“The transformational role of information and knowledge governance on climate change adaptation: a formal systematic review”*
 - *“Policy incentives and disincentives of deforestation-free palm oil plantation by smallholders in Indonesia”*

A bit about myself: Background/Interests

- Agri-environmental policies
- Social-ecological system: from the perspective of New Institutional Economics
- Quantitative and qualitative
 - Software: STATA, GAMS, MAXQDA

My role as ERS9 in i-Conn

Research objectives:

- To develop a suites of applicable methods that can be used to identify critical nodes and determinants of changes in SC and FC
- To apply such methods to environmental problems such as WEF nexus, energy transition, floodplains as SES (*others? Urban transformation; Trading dynamics; etc*)
 - Input-output analysis
 - Social/Ecological network analysis
 -?

Thoughts

Social-ecological network analysis:

- How to use the language of connectivity science to conceptualize the dynamic SES shaped by various relevant stakeholders with their own decentralized decisions of i.e. resource use?
 - Conflicting interests of different actors and sectors
- How to depict the interaction of the bio-physical, ecological thresholds and social system?
- What are the role of technologies here? Information and Communication Technology (ICT)?
 - i.e. more connected people and information; massive amount of data arising; changing governance structure; digital divide/unequal position and power

Thoughts

Others:

- Transdisciplinary collaboration
 - Research synergies? How to structure a better “informational governance” among us?
 - Inputs from other disciplines, especially natural science?
- Relevant trainings: i.e. IOA; SNA; Environmental/Ecological modelling



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THANK YOU!