

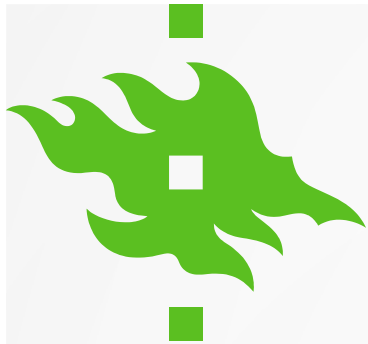
# ■ TRANSFORMATIONS AND TRANSFORMATIVE CAPACITIES IN RIVER BASIN MANAGEMENT

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&

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- Sustainable management of water is needed to achieve sustainability transformations
- We looked at water-related changes and river basin management
- We were primarily interested in institutional perceptions
- To get a thorough overview, mixed methods were used
- We found that
  - Relationships between water-related risks and land use changes are recognized
  - A transformation towards sustainability is desired
  - Transformative capacities are needed in enabling transformations



- Policies related to water and land were not usually integrated
- There were problems in proposing transformative strategies
- There was a scale mismatch between drivers and strategies
- Transformations and transformative capacities are in a multidimensional relationship with each other across scales
- We need
  - To consider the nexus between land use and water management
  - Governance targeting the root causes of risks and vulnerabilities
  - A shift in values and priorities
  - Transdisciplinary mixed-methods research



# THANK YOU!

**The presentation was based on the following papers:**

**Räsänen, A., Nygren, A., Monge Monge, A., Kanninen, M. & Juhola, S. From divide to nexus: Interconnected land use and water management changes shaping risks and vulnerabilities. Submitted manuscript.**

**Räsänen, A., Juhola, S., Monge Monge, A., Käkönen, M., Kanninen, M. & Nygren, A. Identifying mismatches between institutional perceptions of water-related risk drivers and water management strategies in three river basin areas. Submitted manuscript.**

**Räsänen, A., Schönach, P., Jurgilevich, A., Heikkinen, M. & Juhola, S. Role of transformative capacity in river basin management transformations. Submitted manuscript.**

## **See also:**

**Räsänen, A., Juhola, S., Nygren, A., Käkönen, M., Kallio, M., Monge Monge, A. & Kanninen, M. 2016. Climate change, multiple stressors and human vulnerability: a systematic review. *Regional Environmental Change*. DOI 10.1007/s10113-016-0974-7**

**More information about the project:  
<http://www.helsinki.fi/henvi/research/ENGOV.htm>**

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