Resilience Thinking: the Need for New Perspectives

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The Holocene - **10 000 years of grace**

Stockholm Resilience Centre and Rockström and others, Ecology and Society 2009:14
Scale – human dominated planet

1700

Ellis et al. 2010
Spread – human dominated planet

![Map showing spread of human-dominated areas](image)

Legend:
- **Very Low Impact (<1.4)**
- **Medium Impact (4.95–8.47)**
- **High Impact (12–15.52)**
- **Low Impact (1.4–4.95)**
- **Medium High Impact (8.47–12)**
- **Very High Impact (>15.52)**

Halpern et al. 2008
Speed: The Great Acceleration
Connectivity: Water related Tipping Elements in the Earth system

Water related possible tipping points

- Deforestation moisture feedback
- Land mismanagement (e.g. soil loss, land degradation)
- Salinisation
- Glacier melt
- Groundwater collapse
- River basin closure/river depletion
- Regional processes
- Sea level rise and salt water intrusion
- Drastic rainfall regime change
Building Social-Ecological Water Resilience: for an uncertain and uncontrollable world
Natural Alternatives to Water storage
The Global Resilience Partnership is an open alliance of public and private organisations working together to help millions of vulnerable people better adapt to shocks and stresses, and invest in a more resilient, prosperous and sustainable future.

The GRP Secretariat is hosted by the Stockholm Resilience Centre.

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