

Circle 2 Share Workshop

Cross-sectoral Vulnerability, Risk and Economic Assessments for Adaptation Strategies

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Cross-sectoral impact-based assessments:

Different methods - common challenges

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Purposes of cross-sectoral climate impact assessments

1. Policy Perspective:

- identifying priorities of adaptation
- assessment of adaptation potential
- setting priorities in adaptation plans
- comparison with other developments

➤ What is most important?

➤ What should we do?

2. Science Perspective:

- investigation of climate and socio-economic developments and their interactions in a complex system
- development of new methodologies and tools

➤ What can we learn?

➤ What can we create?

Differences in definitions and methods

1. Definitions:

- Economic assessment
- Risk assessment
- Vulnerability assessment

➤ **key term: amount of damage potential of climate change impacts**

2. Methods:

- qualitative
- quantitative

➤ **assessments/models based on climate projections, socio-economic scenarios and policy assumptions**

Common challenges

Assessing potential future effects and COMPARE damage potential across sectors:

- project future climate and socio-economic change
- project and assess future impacts of these changes
- make different impacts comparable
- assess, weight and aggregate different impacts

- visualize, interpret,

COMMUNICATE and USE results



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Common problems

- **uncertainties in projections (future!), data constrains**
- **make things comparable, which are not comparable**
- **normative judgments: what is important for whom?**



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Misfit of policy expectations and scientific possibility, but interesting scientific results

- How to close the science-policy gap?
- How to deal with it and with the existing results, i.e. how to apply, communicate and use them better in the adaptation process to steer adaptation actions?



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Objectives

- I. A concrete description of the **science-policy gap**,
- II. Ideas how we can minimize the science-policy gap or deal with it, and
- III. Some concrete benchmarks on which of the basic three approaches (or a combination) is most promising for which purpose.



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- **proceeding of the workshop**
- **overview on purposes and methods for cross-sectoral vulnerability, risk and economic assessments used for adaptation strategies in Europe,**
- **including scientific challenges, identifying research and knowledge gaps**



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