

A global analysis of adaptation case studies: state of the art

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Research objectives

- To **collect examples, or case studies**, of implemented adaptation measures used both globally and in Europe
- To **extract lessons learned** for the broader adaptation and research community
- To characterize adaptation measures and **methods for measure selection and development** by “randomly” selecting case studies
- To analyse the existing adaptation measures reported in the major EU and Global Adaptation platforms, especially on **economic assessment methods** and **participatory methods**

Methodology

- Review of **relevant European and international databases** focusing on adaptation case studies, e.g. INFOBASE, Global Adaptation Network, Climate-ADAPT, CAKE, weADAPT, UNFCCC, MEDIATION
- Complemented with general **internet search** and review of **national portals** such as www.klimaanpassung.at and www.klimatilpasning.dk
- **Geographic spread**: Europe, North America, South America and Singapore (19 countries covered)
- **136 case studies selected** based on following **inclusion criteria**:

- Geographic scope of analysis,
- Clear Indication of type of measure,
- Indication of applied methodology (stakeholder-based and/or economic assessment methods)
- Clear indication of implementation of measure (proposed measures with no indication of implementation were excluded)
- Sufficient data availability

- **In-depth assessment** of 9 case studies

Characterization of 136 case studies

Figure: Sectors in reviewed case studies

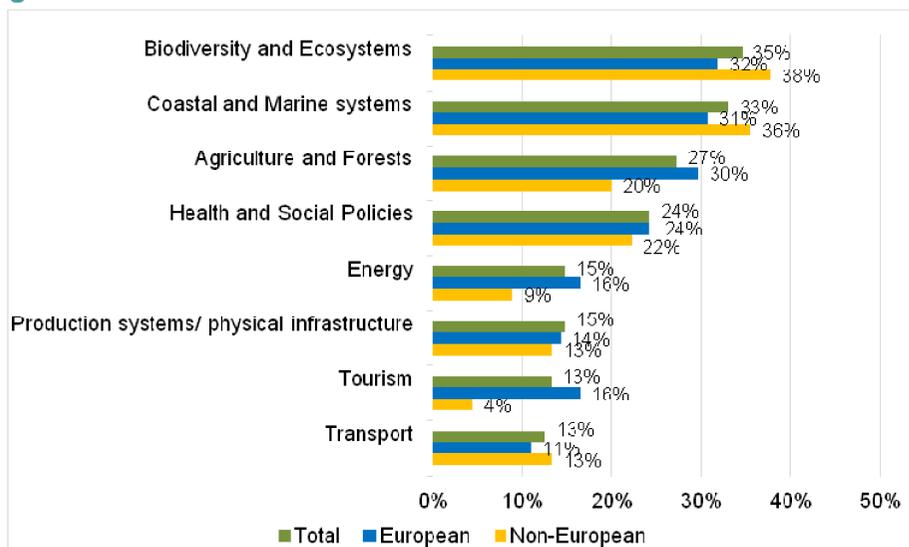


Figure: Economic decision support tools in reviewed case studies

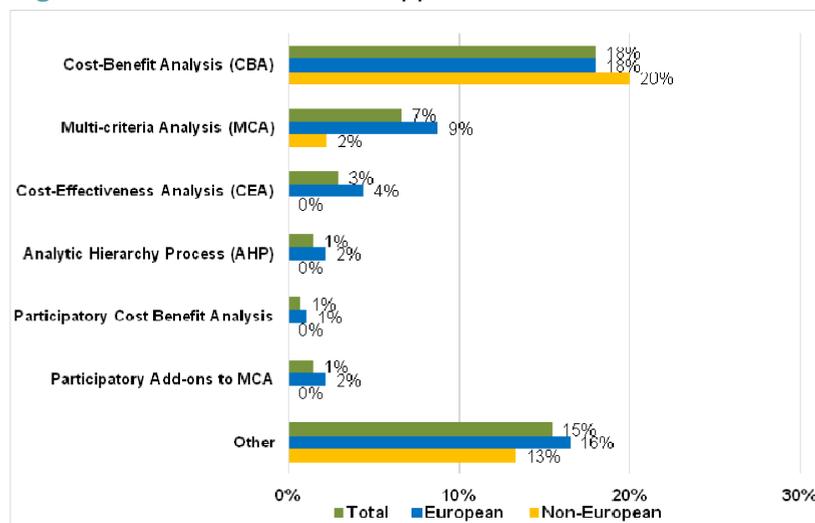
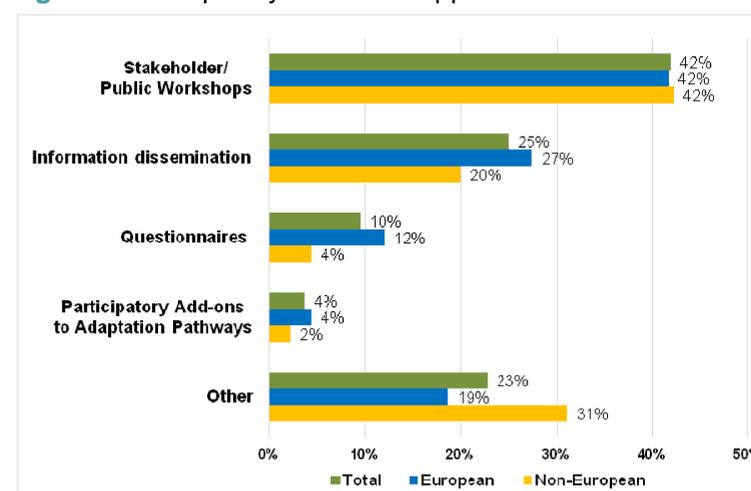


Figure: Participatory decision support tools in reviewed case studies



Conclusions

- **Databases** vary in the amount of information provided and are often **lacking information**, such as on the **decision-making process** or **assessment tools** used.
- **Participatory methods** are often very fruitful and can be critical to the success of projects. -> An innovative way to include knowledge from local stakeholders, research partners and clients
- Very little information in regard to **economic methods** and their application is available.
- A **mix of measures** seems to be for many circumstances advantageous e.g. the combination of grey and green infrastructure measures for flood protection.
- **Documentation of adaptation projects** should include information on methods and reasons for selection of measure.

Reference and Contact

Boteler, B. et al (2015): Experiences in bottom-up adaptation approaches in Europe and elsewhere. Available online at: <http://base-adaptation.eu/>



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