Policy information and tools

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Policy information and tools

• Policy information for climate adaptation prepared by projects/different stakeholders is essential to support policy adjustments and adaptation decision-making processes

• In the last years – many projects developed web-tools/portals/platforms on (economic) assessment of adaptation

• Short overview on a selection of developed products and their aims:
  • General overview on types of tools
  • 5 short descriptions of tools including cost & benefits/economics of adaptation
  • Summary
Overview of different tools/portals

• Brief screening of 14 portals and toolboxes on assessment of climate adaptation, including WeAdapt, CLIMATE ADAPT, MEDIATION, etc.

• Portals have a very broad focus, mainly beyond economic assessment of adaptation, including different steps of adaptation decision making

• Some portals deliver climate data information and the possibility to analyse impacts and suitable adaptation options

• Tools which propose steps which can be taken for adaptation decision making (including assessment of options, but without delivering any data, etc. – e.g. UKCIP Adaptation Wizard)

• Portals which are focused on cost&benefits, methods for economic assessment

ECONADAPT
# Overview of different tools/portals

<table>
<thead>
<tr>
<th>Different types of tools/portals</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapping of existing/future impacts/vulnerability</td>
<td>Plan2Adapt, CLIMSAVE, TopDad Data Exploration Tool</td>
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<tr>
<td>Measures/case studies/literature</td>
<td>ADAM, CLIMATE ADAPT, ToPDaD Data Exploration Tool, ECONADAPT-Toolbox, ECONADAPT-Library</td>
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<tr>
<td>Decision-making support</td>
<td>MEDIATION, UKCIP Adaptation Wizard, CLIMATE ADAPT, ECONADAPT-Toolbox, RAMSES</td>
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<td>Share experience platform</td>
<td>WeAdapt, CLIMATE ADAPT, Adaptation Learning, Climate Collaborium</td>
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<tr>
<td>Simulate adaptation options</td>
<td>SIMCLIM</td>
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ToPDaD Data Exploration Tool

Objective/Content:

• Present assessment results for a variety of case studies over the 3 sectors Transport, Energy, Tourism

• To provide guidance concerning the ToPDaD methodology and comprehensive access to the outcomes at different levels of detail

• It includes damage costs and adaptation costs for the three sectors (graphs, visuals)

Target group: Different stakeholders at different levels: European, national and regional policy and decision makers and adaptation scientists


ECONADAPT
Objective/Content:

- The web-based audio-visual guidance application will provide an application with comprehensive content accessible without personal guidance from experts. The most detailed layer will include target group orientated condensations of the scientific results, background information and links to further reading.

Target group:

- Policy-makers and stakeholders at city level

Access: Will be launched on 4th October 2016
PROVIA/MEDIATION Toolbox

Objective/Content:

• To provide a structured database of (economic) methods and tools that are available to support the assessment of climate change impacts and vulnerability, and adaptation decision-making

• Linked with Adaptation Pathfinder which provides decision trees for adaptation decision making

Target group:

• scientists, policy advisors or practitioners (technical/scientific background)


ECONADAPT
ECONADAPT Library

Objective/Content:

• To provide an easy access to a comprehensive overview on literature on costs & benefits of adaptation

• Interactive element of database by adding new articles by authors (at the moment almost 700 entries)

Target group:

• Scientists (mainly with economic background), policy-makers and practitioners on different levels

Access: http://econadapt-library.eu/
ECONADAPT Toolbox

Objective/Content:

• Easy reachable access to information on economic assessment of adaptation, especially on policy challenges, economic methods and practical examples - to help application of the economic assessment of adaptation

• Insights on ECONADAPT results – short summaries

• Includes interlinkages to data sources which include cost and benefit estimates for adaption measures
ECONADAPT Toolbox

• Includes interlinkages to data sources which include cost and benefit estimates for adaption measures

**Target group:** Economists and policy-makers on different levels

**Access:**
http://econadapt-toolbox.eu/
Further policy information

- ECONADAPT Policy briefs
- Review of the costs and benefits of adaptation was published in an OECD book
- Separate detailed ECONADAPT Policy report
- Policy summaries,...
Further policy information

- Insight into the economic analysis of climate adaptation decisions – for policy-makers, e.g. including information suitable methods for different policy challenges and information on strengths & weaknesses of methods.

<table>
<thead>
<tr>
<th>Approach</th>
<th>Summary</th>
<th>Potential use</th>
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</thead>
<tbody>
<tr>
<td>Cost-Benefit Analysis (CBA)</td>
<td>Values all costs and benefits to society of all options, and estimates the net benefits/costs in monetary options</td>
<td>To identify low- and no-regret options in the near future. As a decision support tool within iterative climate risk management</td>
</tr>
<tr>
<td>Cost-effectiveness analysis</td>
<td>Compares costs against effectiveness (monetary/non-monetary) to rank, then cost-curves for targets/resources</td>
<td>As above, but for market and non-market sectors where benefits are not monetised</td>
</tr>
<tr>
<td>Multi-criteria analysis</td>
<td>Allows consideration of quantitative data together for ranking alternative options</td>
<td>As above, but for scoping options. Can complement other tools and capture qualitative aspects.</td>
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<tr>
<td>Iterative risk management</td>
<td>Uses iterative framework of monitoring, research, evaluation and learning to improve future strategies</td>
<td>For appraisal over medium-longer term. Also applicable as a framework at policy level</td>
</tr>
<tr>
<td>Real-option analysis</td>
<td>Allows economic analysis of future option value and economic benefit of waiting / information / flexibility</td>
<td>Economic analysis of major capital investment decisions over the medium term. Analysis of flexibility within major projects</td>
</tr>
<tr>
<td>Robust decision-making</td>
<td>Identifies robust (rather than optimal) decisions under deep uncertainty, by testing large numbers of scenarios</td>
<td>Identifying low- and no-regret options and robust decisions for large investments with long life-times</td>
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<tr>
<td>Portfolio analysis</td>
<td>Economic analysis of optimal portfolio of options by trade-offs between return (NPV) and uncertainty (variance)</td>
<td>Project based analysis of future combinations. Designing portfolio mixes as part of iterative pathways</td>
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Summary

• Different tools/toolboxes/portals to support adaptation decision making available
• General guiding tools including economic information – e.g. RAMSES
• Interactive tools to present data on cost & benefits – e.g. ToPDaD
• Specific up-to-date methodological developments, strengths & weaknesses of methods, case study/examples – e.g. ECONADAPT Toolbox
• CLIMATE ADAPT – main portal which includes interlinkages to many products, tools, examples of projects
Further information:

- Website: [www.econadapt.eu](http://www.econadapt.eu)
- ECONADAPT Library: [http://econadapt-library.eu/](http://econadapt-library.eu/)