

ECRAN –TAIEX workshop on national climate adaptation
policies and legislation

Zagreb, Croatia
9 – 10 November 2015

Climate-ADAPT Adaptation Support Tool

Step 2

Assessing risks and vulnerabilities to
climate change

Adaptation Support Tool

Step 1: Preparing the ground for
adaptation

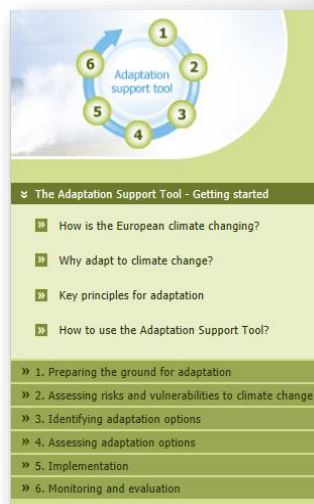
Step 2: Assessing risks and
vulnerabilities to climate change

Step 3: Identifying adaptation options

Step 4: Assessing adaptation options

Step 5: Implementation

Step 6: Monitoring and evaluation



Step 2

Sub-steps

- 2.a.** Analyse how past weather events have affected your country
- 2.b.** Undertake a **climate change risks and vulnerability** assessment
- 2.c.** Take **trans-boundary issues** into account
- 2.d.** Develop approach for addressing **knowledge gaps** and for dealing with **uncertainties**
- 2. e.** Select your area's **main concerns** and set your **strategic direction**

Step 2.a.

Analyse how past weather events have affected your country

Where to find information:

- National Risk Assessments
- National Meteorological Agencies
- Information from wide range of stakeholders in various vulnerable sectors
- Media reports
- Insurance company data
- Research projects

Step 2.b.

Undertake a climate change risks and vulnerability assessment

Where to find existing information:

- International analyses – EEA (for Europe), IPCC (global)
- Research projects – European and national
- Sectoral assessments, including private sector

What knowledge to collect or develop:

- Develop **climate scenarios** and combine with **climate trends**
- Identify **most likely hazards** and overlay with **population, infrastructure and assets distribution** -> risk maps
- **Timescale** of projected risks (short-, medium-, and long-term)
- Level of **confidence** in risks happening (in the light of uncertainties)
- **Socio-economic, technology and other developments** and factors that can influence adaptive capacity/vulnerability

Methods of Assessing physical vulnerability

| Group | Method | Description |
|--------------------------|---|--|
| Empirical methods | Analysis of observed damage | Based on the collection and analysis of statistics of damage that occurred in recent and historic events. Relating vulnerability to different hazard intensities. |
| | Expert opinion | Based on asking groups of expert on vulnerability to give their opinion e.g. on the percentage damage they expect for a particular sector having different intensities of hazard/impact. |
| | Score Assignment | Method using a questionnaire with different parameters to assess the potential damages in relation to different hazard levels. |
| Models | Climate/impact/adaptation Models | Projection of potential future climate and potential future physical, ecological, social and economic impacts. |

Step 2.c. Take trans-boundary issues into account

Establish contact with neighbouring countries to:

- inform about the **adaptation process** and
- inform about **areas of concern** with regard to cross-border impacts
- identify **approaches for coordination** over different political, legal and institutional settings
- **start joint adaptation and disaster risk management** efforts based on the identification of common threats
 - Common regional strategies/activities
 - EU-wide mechanisms

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Step 2.d.

Approach for addressing knowledge gaps and for dealing with uncertainties

Knowledge:

- **Recognize** gaps
- Seek ways to **fill the gaps**
- **Update** assessments and adaptation plans based on new knowledge

Uncertainties

- Make **explicit**
- Use **confidence rating**
- **Update** with new information

Prioritize:

- **flexible** adaptation measures
- **no-regret** actions
- measures with most **co-benefits**

Step 2.e.

Select your area's main concerns and set your strategic direction

Main concerns:

- Impacts happening **already today**;
- Risks that **will increase significantly** due to climate change;
- Will affect **systems with long life span** or **key infrastructure**;
- Will affect systems **irreversibly**;
- Will increase due climate change combined with **additional non-climate drivers**

Questions?



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