

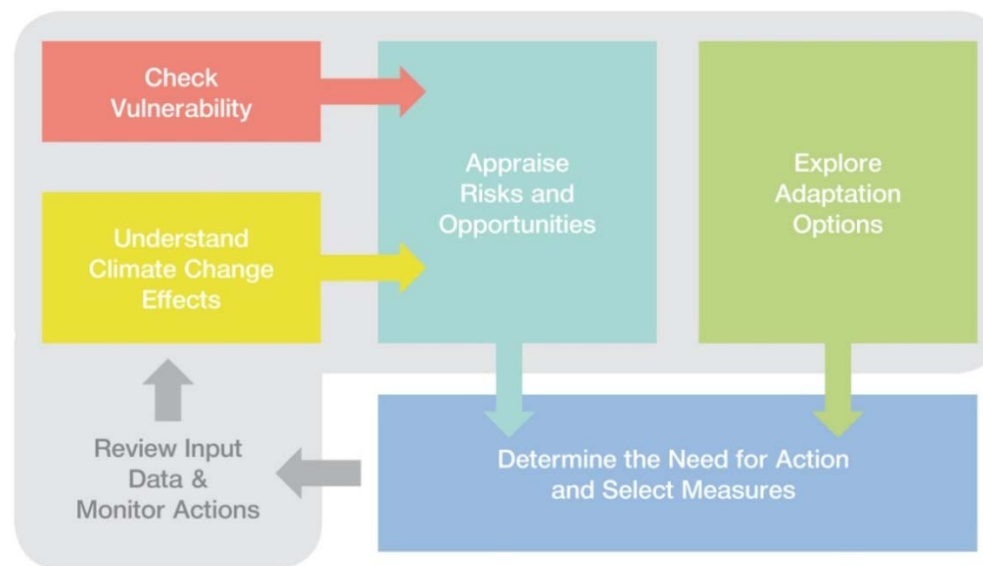
What is it about?

In a city, almost all departments are facing the impacts of climate change. They must adapt their policy and practice. Measures taken by one department might also meet the adaptation needs of another. On the other hand an adaptation action of one department may conflict with the adaptation aim of another urban structure. This is where the Adaptation Compass starts from:

- It is a guide to interlink different stakes and to check the vulnerability and adaptation options across sectors.
- The Future Cities Adaptation Compass aims to help planners and experts in cities and water boards structure work steps, provide good-practice examples and highlight issues and possible barriers.
- Applying a pre-structured assessment and documentation layout, this Compass enables the user to plan the stages to create climate proof cities.
- The Adaptation Compass can be applied to a region, a city or a project area.
- The tool provides general information and automated answers. It also gives the user the opportunity to submit local information.



The *Future Cities Adaptation Compass* is built up of five modules to be used as a whole or part.



The **VULNERABILITY CHECK** for a city region or parts of a city provides the basis to determine the current vulnerability.



UNDERSTAND CLIMATE CHANGE EFFECTS – here the Compass informs how to get the relevant information. It advises how to cope with the uncertainties involved in climate projections and related effects.



For the **APPRAISAL OF RISKS AND OPPORTUNITIES** a method is proposed that uses the results from the vulnerability check and the projected climate change trends.



The module **EXPLORE ADAPTATION** explores the various adaptation options: especially the combination of different measures based on the practical experiences of the Future Cities partnership.



Last but not least, the **NEED FOR ACTION** can be determined. The core problems and problem areas can be identified and suitable adaptation measures can be found.

The user can save the results, **REVIEW** input data later and update, if required. Examples for **MONITORING** the results of measures are also provided.

Find more information in the brochure about the Adaptation Compass.

Available for download: www.future-cities.eu

Spotlights from Future Cities



Check Vulnerability

The UK partner, Hastings Borough Council, explored its local vulnerability by conducting a Local Climate Impacts Profile. The process raised awareness among the various departments of the administration as they were requested to gather the necessary information. The Future Cities Adaptation Compass provides a similar approach to explore the current vulnerability by checking former events.

The Dutch city of Arnhem focuses on the urban vulnerability due to heat and the urban heat island effect. Based on the analysis of the urban climate a "Heat Attention Map" is developed to provide recommendations for urban planners and developers.



Explore Adaptation Options

Greening the city of Nijmegen in the Netherlands: A green wall was placed on the outside of a lift shaft of a Nijmegen public building to contribute to improving the urban climate in city centre.

The German water board Lippeverband is creating a green-blue corridor in the city of Kamen to improve the city microclimate. In combination with the ecological enhancement of the stream "Heerener Mühlbach", storm water from private properties is disconnected from the sewer system to reduce potential sewer overflow in case of heavy rainfall.



- Common evaluation methods for climate-adapted towns and cities – the "Adaptation Compass"
- Action plans adapt existing structures in the participating regions
- Implementation of combined measures: selected construction solutions in pilot projects
- Awareness raising of decision-makers and disseminators for pro-active ways of tackling adaptation to climate change impacts.
- New ways to finance and visualise adaptation

Project partners:

Lippeverband/D (Lead Partner), City of Arnhem/NL, Emschergenossenschaft/D, Hastings Borough Council/UK, City of Nijmegen/NL, Rouen Seine Aménagement/F, City of Tiel/NL, West-Vlaamse Intercommunale/B

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Contact Lead Partner

Marie-Edith Ploteau
Lippeverband
Kronprinzenstraße 24
D - 45128 Essen
Phone +49 (0)201 104 2699
Fax +49 (0)201 104 2231
ploteau.marie-edith@eglv.de

Project Support and
Development of the Adaptation
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INFRASTRUKTUR & UMWELT,
Professor Böhm und Partner
Julius-Reiber-Str. 17
D - 64293 Darmstadt



THE FUTURE CITIES ADAPTATION COMPASS

A guidance tool for developing
climate-proof city regions

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