

Together. Measurable. Effective. IndiKlimA sets the standard for municipal climate adaptation

IndiKlimA – Indicator-based climate adaptation monitoring at the regional and local levels



**EFRE/JTF
Program
NRW 21–27**

IndiKlimA develops practical indicators and monitoring approaches for local climate adaptation to enable the systematic and comparable assessment of the impacts of climate change and the effectiveness of adaptation measures. In collaboration with municipalities and regional partners, standardized indicators and a digital monitoring tool are being developed, which are intended to be integrated into political and administrative decision-making processes in the long term. In this way, IndiKlimA contributes to the implementation of the federal and state Climate Adaptation Acts (KAnG) as well as to transparent progress monitoring of municipal climate adaptation. The project is funded through Regio.NRW – Transformation.

The consequences of climate change are increasingly posing major challenges for municipalities. Stronger and increasingly frequent heavy rainfall events, flooding, and heat waves require long-term strategies to make cities and regions resilient to future climate developments. At the same time, there has often been a lack of standardized methods to assess the impacts of climate change and the effectiveness of municipal adaptation measures in a transparent and comparable manner. This is precisely where the IndiKlimA project comes in.

The goal of the project is to develop an indicator-based monitoring system for municipal climate adaptation. The project is based on the European Environment Agency's DPSIR model, which describes the relationships between driving forces, environmental conditions, impacts, and societal responses. IndiKlimA focuses in particular on impact and response indicators. While data on climatic driving forces is already widely available, there is still a need for research and development, particularly when it comes to assessing specific climate impacts and the effectiveness of adaptation measures.



The project therefore develops standardized assessment methods that can be used to present climate impacts such as flooding or heat stress in a comprehensible and comparable manner. At the same time, a monitoring concept is being developed that makes progress in municipal climate adaptation traceable over the long term. Adaptation measures should not only be documented but also evaluated in terms of their effectiveness. By linking climate impacts and adaptation activities, it becomes possible to continuously track developments and derive scenarios for future adaptation strategies.

Particular emphasis is placed on the practical applicability and transferability of the approaches developed. In collaboration with the Regionalverband Ruhr (RVR), the district of Mettmann, and the municipalities of Remscheid, Solingen, and Wuppertal, the project takes into account a variety of administrative structures and spatial levels. This results in solutions that are applicable to both independent cities and regional associations. At the same time, a high degree of standardization is sought in order to make the results accessible to other municipalities in the future.

IndiKlimA builds on extensive preliminary work and experience from existing research and practical projects. Findings from projects such as BESTKLIMA, ExTrass, or R2K-Klim+ are incorporated, as are existing municipal climate adaptation concepts and monitoring approaches. The project combines scientific research with concrete requirements from administration and politics, thereby creating a foundation for transparent, long-term, and strategic climate adaptation monitoring in municipalities and regions.

Project overview

PROJECT TITLE

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PROJECT PERIOD

01/2026 – 12/2028

PROJECT PARTNERS

Regionalverband Ruhr (RVR); Disy Informationssysteme GmbH; Kreis Mettmann; Stadt Remscheid; Klingenstadt Solingen; Stadt Wuppertal

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SUPERVISED BY

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