

Integrated Climate Adaptation Concept for the City of Werdohl

FiW e. V. and GERTEC GmbH developed an integrated climate adaptation concept for the city of Werdohl including baseline and impact assessment, participation and an action plan.



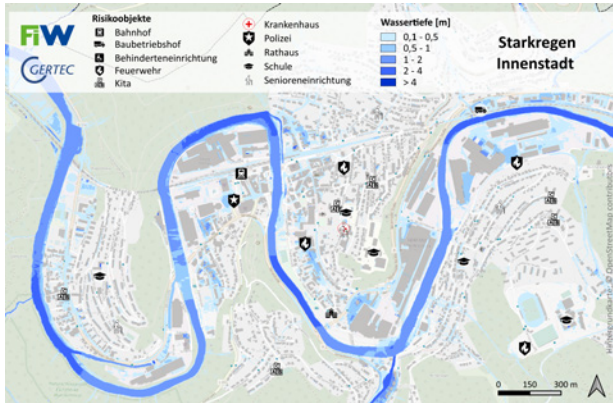
Werdohl is located along the rivers Lenne and Verse in a valley setting where heavy-rainfall runoff and river flooding can become effective very quickly. To assess climate risks systematically, prioritise them spatially and translate findings into implementable steps, the City of Werdohl commissioned an integrated Climate Adaptation Concept in 2024. Over a one-year process, FiW e. V. and GERTEC GmbH delivered the concept, including a baseline and impact assessment, technical workshops and public participation formats, as well as a concrete action plan.

Werdohl's valley setting along the rivers Lenne and Verse shapes runoff dynamics during heavy rainfall events and increases the relevance of a spatially differentiated assessment of climate-related risks. The aim of the commission was to create a robust, locally applicable decision-making basis that makes needs for action transparent, supports prioritisation and translates results into an implementation-oriented roadmap.

As part of the concept development, FiW e. V., together with GERTEC GmbH, assessed Werdohl's vulnerabilities and

the status quo with regard to climate adaptation. Building on this, spatial focus areas ("hotspots") were identified and prioritised, and corresponding courses of action were derived.

A key component was linking technical analyses with the results of stakeholder participation. To this end, a public citizens' event and an idea workshop were held; in addition, inputs from public participation formats as well as expert workshops were collected, assessed and incorporated into the development of measures.



Water depths during an extreme heavy-rainfall event with an intensity of 90 mm in Werdohl's city centre. (Data source: Märkischer Kreis heavy-rainfall hazard map). © FiW e. V.



Flow velocities during an extreme heavy-rainfall event with an intensity of 90 mm in Werdohl's city centre. (Data source: Märkischer Kreis heavy-rainfall hazard map). © FiW e. V.

The project delivered a final Climate Adaptation Concept for the City of Werdohl combining baseline and impact assessment, a hotspot perspective and a concrete action plan. The resulting catalogue of measures is structured along key fields of action and supports step-by-step implementation of climate adaptation at municipal level – with clear priorities and options for mainstreaming and long-term continuation.

Project overview

PROJECT TITLE

Support for developing an integrated Climate Adaptation Concept for the City of Werdohl

PROJECT PERIOD

06/2024 – 06/2025

PROJECT PARTNERS

GERTEC GmbH

CUSTOMER

City of Werdohl

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Status

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