

Governing climate change adaptation at the Baltic Sea Coast (GoCoase)

BACKGROUND: The rising sea level and the increasing frequency of extreme weather events raise the likelihood of **storm-generated floods** that are the most common and widespread of all natural hazards. This increasingly exposes human populations, critical infrastructure and other assets to these hazards.

RELEVANCE: By providing integrated science-based information on coastal adaptation options the project will **support informed decision-making** at the regional and local level. At the national level, it will make a valuable contribution to the **German Adaptation Strategy (DAS)**, in particular in the focus area 'Water Resources, Water Management, Coastal and Marine Protection'.



AIM: The overall aim of the project is to develop and evaluate **adaptation scenarios to climate change impacts** at the regional level **on the German Baltic Sea Coast**.

METHOD: Quantitative (population survey and choice experiments) and qualitative methods (interviews and workshops) will be applied.

PERSPECTIVE: An **inter- and transdisciplinary approach** is used, involving societal stakeholders (including the industry, science and NGOs) and political decision-makers. The project brings together the disciplines coastal engineering, environmental and institutional economics and natural sciences.

Joint evaluation of coastal adaptation strategies

Evaluation of adaptation pathways

Coastal protection strategies: The work package aims to evaluate potential coastal adaptation strategies from a coastal engineering perspective, including:

- Identification of coastal sections with protection need and assessment of vulnerabilities
- Evaluation of adaptation potentials and pathways

Cost-Benefit-Analysis: The work package addresses the economic effects of the protection measures with a focus on affected non-market goods and services, including:

- Assessment of the preferences of the German population for different coastal protection strategies based on discrete choice experiments
- Comprehensive Cost-Benefit-Analysis and distributional analysis of protection measures

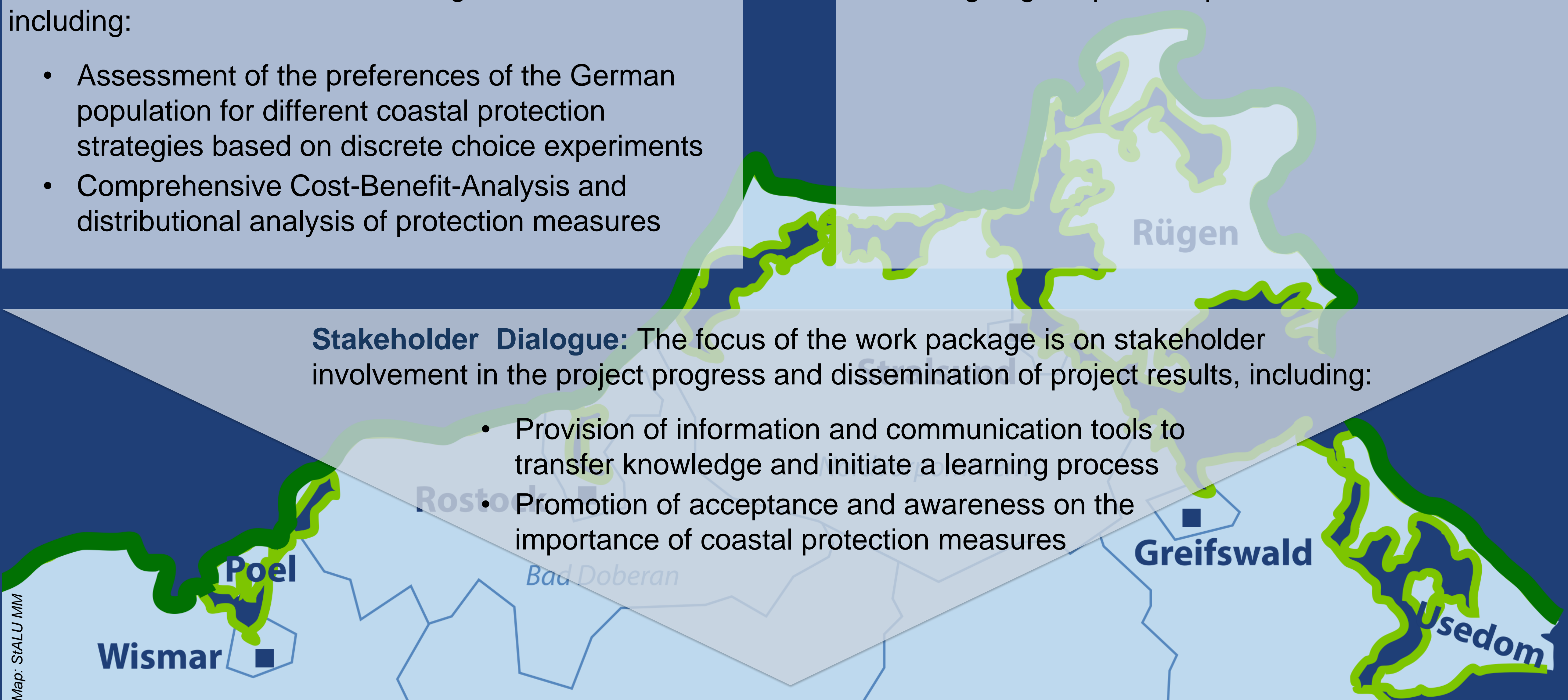
Institutions and governance

Institutional set-ups and governance structures: The work package's purpose is to analyse the formal and informal institutions, processes of decision-making and involved actors in coastal protection, focusing on:

- Role of institutions and different stakeholders concerning different adaptation strategies in administrative and societal decision-making processes
- Use and integration of (economic) knowledge for designing adaptation options

Stakeholder Dialogue: The focus of the work package is on stakeholder involvement in the project progress and dissemination of project results, including:

- Provision of information and communication tools to transfer knowledge and initiate a learning process
- Promotion of acceptance and awareness on the importance of coastal protection measures



Public events and communication of results

Generating knowledge

Knowledge utilisation