



Further information

This project is supported by:



Federal Ministry
of Education
and Research

as part of the funding activity KLIMZUG

(„Managing climate change in the regions for the future“)

www.klimzug.de/en/index.php

Project Management Agency:
German Aerospace Center (DLR)



Duration: July 2009 – June 2014

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Further information on RADOST is available under:

www.klimzug-radost.de

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RADOST

Regional Adaption Strategies
for the German Baltic Sea Coast



climate change in regions

Background

The German Baltic coastal region is affected by climate change in various ways. New challenges for **coastal protection** arise not only from sea level rise: climate alterations also influence water current patterns, floods and storms. The **tourism** sector might



benefit from higher average temperatures but might be negatively affected by other factors, such as a deterioration of water quality. Already, nutrient inputs from **agriculture** constitute a problem, and this could be aggravated in the future. A unique **natural heritage** is affected by multiple claims on land use, to which climate-change induced alterations of environmental conditions add further stress.

The RADOST project

The RADOST project's aim is to develop adaptation strategies for the Baltic coastline of Mecklenburg-Western Pomerania and Schleswig-Holstein through a dialogue between research institutions, businesses, public administration and civil society. In addition to research institutions and engineering companies, the core team of 17 partners includes several Federal State authorities and one non-governmental organisation. Furthermore, the project involves a multitude of network partners. At the time of proposal submission, the **RADOST network** included around 60 partners; it will expand continuously throughout the course of the project. The regional dialogue is complemented by an exchange of information on the national and international level involving partner regions in Europe, North America and North Africa.

Research in the **natural and engineering sciences** in RADOST combines previously unconnected physical and ecological models, which allows new possibilities for forecasting climate change impacts. The modelling scales range from individual coastal sections to the entire western part of the Baltic Sea. The subjects of analysis include:

- water levels, sea state, currents and sediment transport,
- water quality and
- ecosystems.

The **socio-economic research** within RADOST analyses the consequences of both climate change and adaptation options for the regional economy using input-output modelling and extended cost-benefit analysis.



Practical applications will illustrate the economic opportunities provided by responses to climate change. The 16 envisaged **implementation projects** include: innovative methods for coastal protection; adaptation strategies for ports and tourism; concepts for the aquaculture industry; route-specific design optimisation for ships in the Baltic Sea; combining coastal protection constructions with geothermal energy generation.

Research, dialogue and networking activities concentrate thematically on six **focus topics**; and geographically, on six **focus areas** (see graphic on the reverse side).

