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## **Regional Adaptation Strategies for the German Baltic Sea Coast (RADOST)**

### **Project**

### **Research Program**

[KLIMZUG](#)

### **Duration**

Jul 2009 - Jun 2014

### [RADOST Project Website](#)

The Ecologic Institute coordinated the five-year project RADOST (Regional Adaptation Strategies for the German Baltic Sea Coast). The Baltic coastline of Mecklenburg-Western Pomerania and Schleswig-Holstein is one of seven model regions in Germany that were supported by the Federal Ministry of Education and Research (BMBF) through the initiative KLIMZUG ("Managing climate change in the regions for the future"). The aim of the RADOST project was to develop regional adaptation strategies in a dialogue between research institutions, business, public administration and civil society.

The essential idea of the project was to establish a close linkage of research and practice. In addition to a core consortium of 17 partners, RADOST involved a multitude of network partners from research organisations, business, public authorities and non-governmental organisations, parts of which contributed to the research activities as subcontractors. At the time of proposal submission, this network included already around 60 partners and was continuously expanded in the course of the project. The regional dialogue was complemented by a national and international information exchange involving partner regions in Europe, North America and North Africa.

Today, millions of euros per year are already invested in coastal protection in the region. The efficient usage of these funds requires predictions about the coast line's future development to be as precise as possible. However, the specific impacts of climate change – caused by the rising sea level, modified currents or an increase of surges – are still very uncertain. Another challenge is posed by water quality alterations in a warmer climate with modified river discharge patterns.

In order to more accurately assess the dynamics of future environmental conditions, RADOST used combinations of existing models to illustrate changes in more detail than before. RADOST activities in the field of natural science included investigations into hydrodynamics, sediment transport, water quality and ecosystems. In addition, the socio-economic consequences of climate change and adaptation options in the region were assessed. Research and strategy development activities focused on the issues of 1) coastal protection, 2) tourism and beach management, 3) water management and agriculture, 4) ports and maritime economy, 5) nature conservation and use, 6)

renewable energies.

Implementation projects with local partners illustrated the economic opportunities of innovative responses to climate change. The practical applications included combining coastal protection constructions with diving tourism activities or geothermal energy generation; concepts for the aquaculture industry; design optimisation of ships for the use on routes through the Baltic Sea; and new marketing strategies for beach tourism.

Further information on RADOST is available on the [project's website](#).

## Funding

[Federal Ministry of Education and Research](#) (BMBF), Germany

## Partner

[Ecologic Institute](#), Germany

[Company for Environment and Coast](#) (ICZM), Germany

[Coastal Research and Management](#) (CRM), Germany

[The Coastal Union Germany](#) (EUCC-D), Germany

[Großmann Ingenieur Consult](#) (GICON), Germany

[H.S.W. Ingenieurbüro](#) (H.S.W.), Germany

[Institute of Applied Ecology](#) (IfAE), Germany

[Helmholtz-Zentrum Geesthacht, Zentrum für Material und Küstenforschung](#) (HZG), Germany

[Thünen-Institut](#) (Thünen), Germany

[Institute for Ecological Economy Research](#) (IÖW), Germany

[State Agency for Agriculture, Environment and Rural Areas Schleswig-Holstein](#) (LLUR), Germany

[Government-Owned Company for Coastal Protection, National Parks and Ocean Protection Schleswig-Holstein](#) (LKN-SH), Germany

[Leibniz-Institute of Freshwater Ecology and Inland Fisheries](#) (IGB), Germany

[Leibniz Institute for Baltic Sea Research Warnemünde](#) (IOW), Germany

[Staatliches Amt für Landwirtschaft und Umwelt Mittleres Mecklenburg](#) (STALU MM), Germany

Christian-Albrechts-Universität zu Kiel, [Department of Geography](#), Germany

Universität Rostock, [Fachgebiet Küstenwasserbau](#), Germany

## Team

[Dr. Grit Martinez](#)

Daniel Blobel

Karin Beese

Franziska Lehmann

[Anneke Klasing](#)

Susanne Müller

Christian Bruhn

[Doris Knoblauch](#)

[Sandra Cavaliere](#)

[Jennifer Reck](#)

Dr. Martin Hirschnitz-Garbers

[Dr. Zoritz Kiresiewa](#)

Andrew Reid

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[Mobility](#)

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