

Participatory coastal adaptation

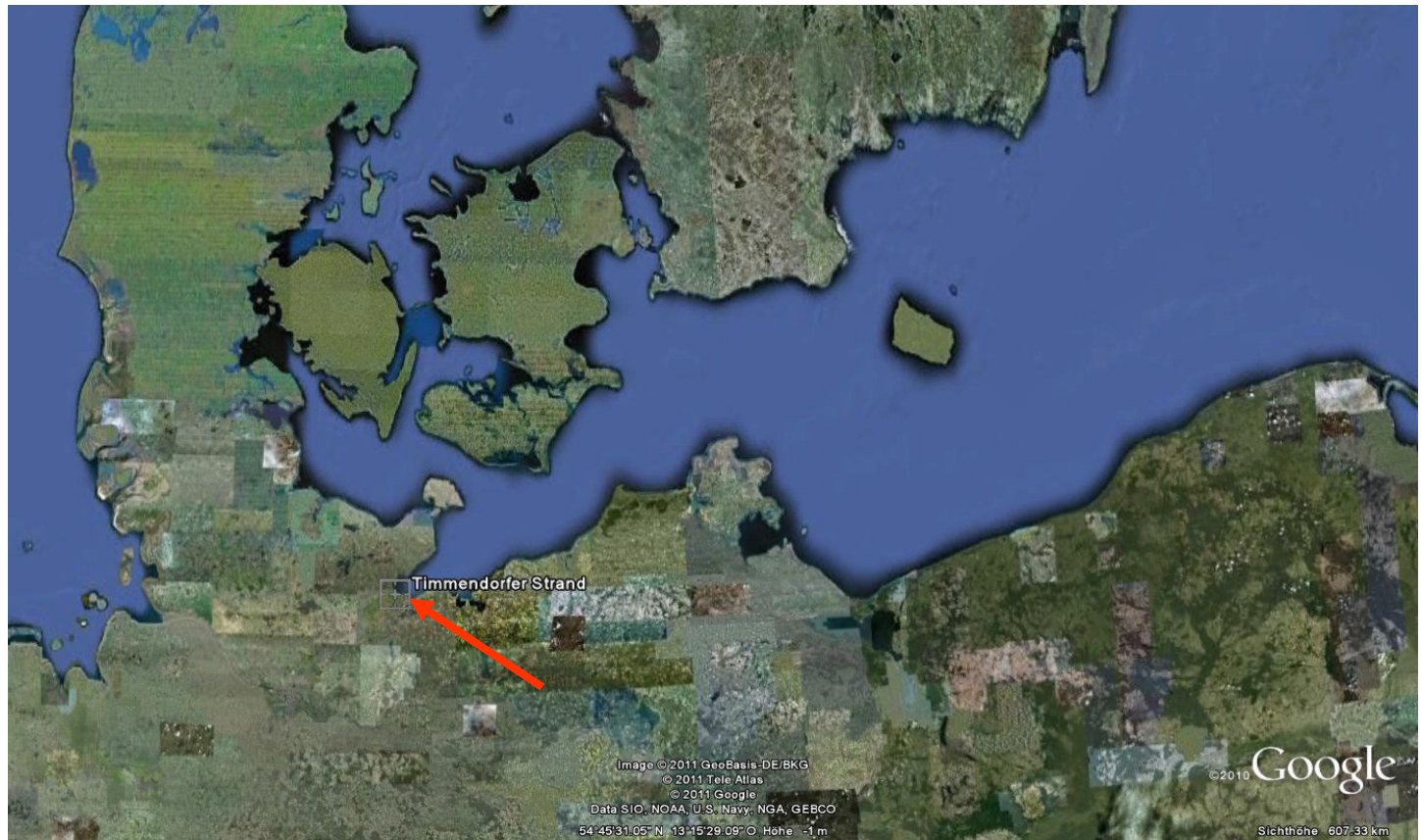
A good practice example of Timmendorfer Strand,
Germany

**Linking Biodiversity to National Economic and Social
Priorities in the EU Member States,
Berlin, 19 June 2017
Nico Stelljes**

Outline

- Area
- Climate Threats
- Responses

Area



Area

- ▶ 9.000 inhabitants
- ▶ 6 km of coastline
- ▶ more than 200.000 tourists per year
- ▶ approx. 1.2 Mio overnight stays per year







Climate Threat / Risk

- ▶ Sea Level Rise
- ▶ Storm Floods
- ▶ Erosion

Storm flood



Timmendorfer
Strand / Niendorf

Had the highest
previously known
flood in November
1872 (3.3meters)

Source: Gemeindearchiv Timmendorfer Strand

Erosion



Responses / Adaptation

1. Sensitivity analysis
2. Ideas competition
3. Implementation



Sensitivity analysis

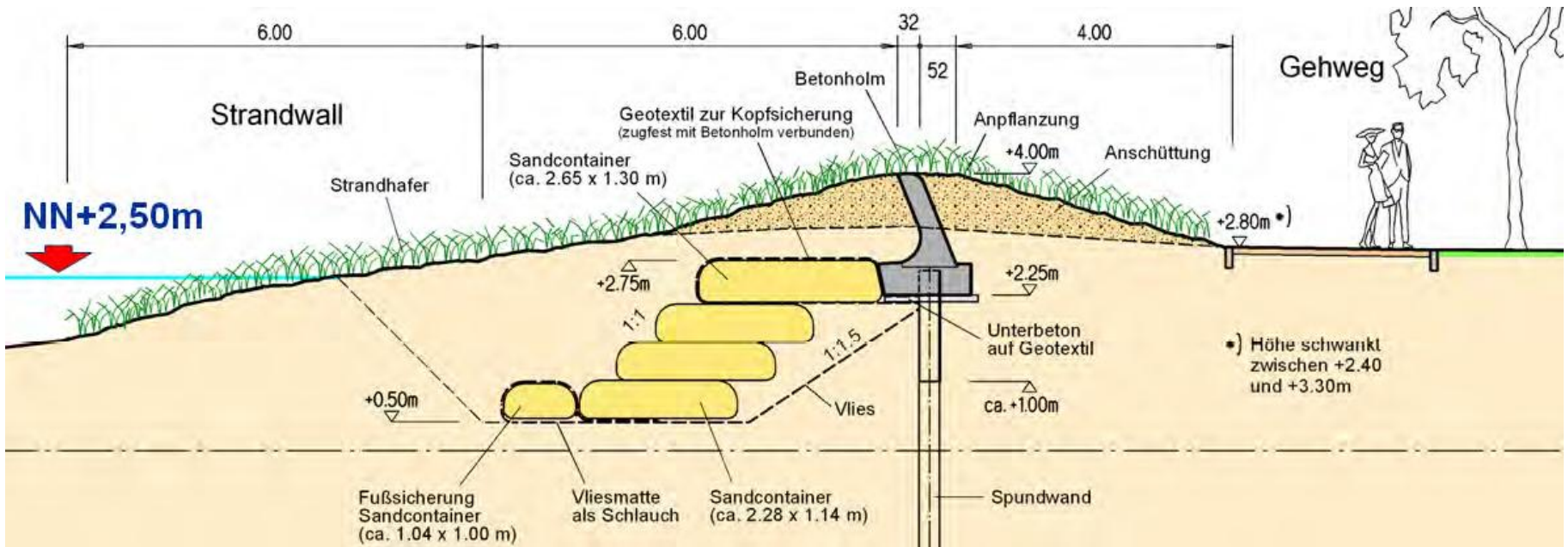
Problem: Lack of awareness

Solution:

- 1. Building Scenarios**
- 2. Discussion with stakeholders**
- 3. Defining best options**
- 4. Information of local people**



Ideas competition



Implementation

Holmes



**mobile shore
protection**



**glazed
retention
walls**





Landscaping





Information



Costs

**30 mio. Euro overall costs,
community 9.5 mio. Euro**



Success factors

Involve the key stakeholders from the very beginning

The mayor of the town was a key person. With his support for the project, it was possible to get other stakeholder into the discussion.

Understand the needs of the stakeholders

Important to understand the viewpoint of the different stakeholders and why they might not be willing to cooperate or support the adaptation measure.

Have financial support

To implement 'extra' measures (e.g. glazed retention wall, landscaping project) that ensured the support of the stakeholder, the financial back-up had to be guaranteed.

Use results of damage cost analysis, CBAs as argument

Arguments based on costs and benefits helped to 'convince' the stakeholder. In this case the results of a damage potential analysis showed that the values damaged by coastal floodings could be very high. This helped to raise awareness and was one important part in changing the local stakeholders' attitude towards coastal protection.

Take your time

The whole process took over 10 years from its start to the implementation. It is important to have time for such a process. On the other side, the long time also might become an obstacle when responsibilities change or the stakeholder and/or public lose interest in that topic.

Ecologic Institute

Science and Policy
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Thanks! Any more Questions?

Dr. Nico Stelljes

nico.stelljes@ecologic.eu

Ecologic Institute

Pfalzburger Str. 43/44

10717 Berlin

Germany

Tel. +49 (30) 86880-0

ecologic.eu

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