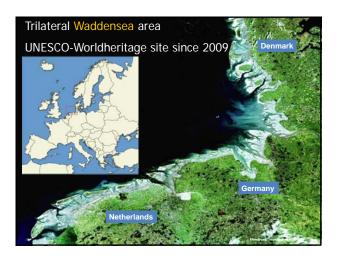


Ambition ...to develop the Wadden Sea Region into an incubator for widely applicable integrated knowledge of sustainable development of a coastal area, in which natural values are a key element and form the foundations of the local and regional economy. The region is a meeting place for scientists from the Netherlands and elsewhere, administrators, policymakers and management agencies. Together, they develop sustainable and innovative solutions based on interdisciplinary knowledge. By 2020, the trilateral Wadden Sea Region will be the best monitored and best understood coastal system in the world.











Trilateral research necessary

for the management of the World Heritage Site Wadden Sea, by:

- Making the concept of safeguarding "ecosystem integrity" operational through delivering the scientific basis for managing cross border challenges, in particular
 - Invasive alien species and biodiversity
 - Impacts of sea level rise and sedimentation
 - Bird population developments along the Flyway
 - Interaction economy and ecology: energy (gas extraction, powerplants, coolingwater, windenergy), fisheries, harbour activities, tourism, etc.

The need for trilateral research was strongly supported by the 13th Scientific Wadden Sea Symposium



13^e ISWSS 21/23 november 2012



Recommendations symposium Theme 1: climate and water

- -Study the regional climate change in the Wadden Sea Region;
- -Explore cross-border safety strategies including the possibility of large-scale sand nourishments;
- -Improve our understanding of morphological processes in the Wadden Sea and North Sea in relation to sea-level rise;
- -Develope innovative ways of dealing with climate change related challenges including sea-level rise and salinization.

Recommendations symposium Theme 2: biodiversity

- -Studies indicate that biodiversity enhances the resilience of the Wadden Sea ecosystem which stresses the importance of prevention of biodiversity loss;
- -Gain further insight into food-web functioning with a focus on ecosystem engineers and explore ways to restore key species;
- -Treat invasive species no longer exclusively as enemies to the system but also look at their added value;
- -Study bird populations at the major staging/feeding areas along the East-Atlantic flyway, not just the Wadden Sea.

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Recommendations symposium: Theme 3: science for management and policy

- Critically analyze the functioning of the science-policy interface;
- Develop an integrated monitoring system with a focus on the accumulation of processes at different spatial and temporal scales;
- Create and maintain a data portal for Wadden Sea research;
- Stimulate publication in open access journals.

Hamburg, march 6, 2013

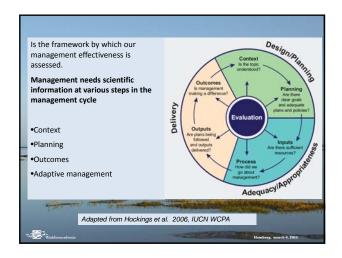
Recommendations symposium Theme 4: sustainability and ecosystem services - Safeguard the protection of the natural values of the Wadden Sea in (EU) fisheries management; -Take action to restore the morphology and ecology of estuaries; -Explore and monitor the opportunities for tourism provided by the UNESCO world heritage status; -Study and preserve our important cultural heritage.

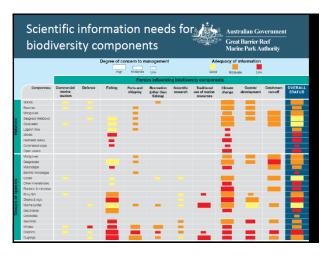
Conclusions and recommendations of the trilateral scientific symposium

- The overall management of the trilateral Wadden Sea World Region requires cross-border and interdisciplinary research
- The main themes for trilateral research have been identified and receive broad support
- The implementation requires a Trilateral Research Platform and a Trilateral Research Fund

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How to achieve this?

- Option 1: A trilateral Waddenacademie (TRIWAD)
- Option 2: Three Wadden Academies
- Option 3: A common Wadden Science Council
- Status as trilateral UNESCO Institute

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Organizational options

Option 1: A trilateral Waddenacademie (TRIWAD)

In this option, the Dutch Waddenacademie is broadened by one or two board members from Germany and Denmark.

Advantage: Relatively simple to implement

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Disadvantage: Too strong influence from the

Netherlands

...

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Organizational option 2

Option 2: Three Wadden academies

In this option, each country arranges its own Wadden science organization. Two members of each of the three countries form together the trilateral science council.

Advantage: Equal involvement of scientists

from the three countries and each country has its own organizational

arrangement

Disadvantage: Lack of uniformity and coordination

...

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Organizational options

Option 3: A common Wadden Science Council

In this option, a council of about 12 broad-minded scientists from the three Wadden countries with active research in the Wadden Region meet on regular terms to prioritise trilateral Wadden research.

Advantage: Equal involvement of scientists from Germany,

Denmark and the Netherlands;

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Disadvantage: Makes no use of the experience and reputation of

the Dutch Waddenacademie;

....

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Trilateral Research Fund

Options for Trilateral Research Fund

- Continuation and broadening of Georisk/Biorisk programme (currently funded by national science ministries NL and D)
- To be created from Dutch Waddenfonds, Lower Saxonian Wattenmeerstiftung,
- Apply for European Funds, Horizon 2020, INTERREG, etc.

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Global Trend of Green Growth requires a better understanding about how the ecological, social and economic systems work and interact with each other in the UNESCO World Heritage Wadden:

Trilateral management & policy + trilateral UNESCO Wadden Scientific Institute

Hamburg, march 6, 2013