









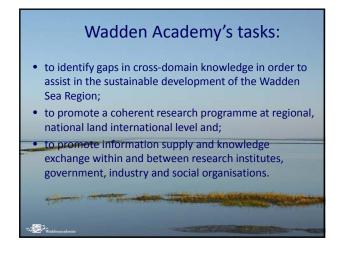


Green growth strategy requires integrated research

- it combines **two or more disciplines** with the emphasis on feedbacks and interactions;
- it focuses attention on the interactions between space and time scales;
- it focuses attention on the accumulation of processes, interventions and effects;
- it is based on the **co-production of knowledge** in which knowledge demands are generated, knowledge is used and generated in close interaction between scientists, practitioners and policymakers (**engaged scholarship**)

Incentives for the foundation of the Waddenacademie -Final report of the Advisory Group on Wadden Sea Policy (Meijer Committee, 2004): policy and management of the Wadden Sea Region had reached an impasse; -Recommendations included: improve the natural qualities of the Wadden Sea Region; reform the policy and governance structure; shellfish fisheries and gas extraction within limits of the natural system; a better knowledge structure for the Wadden Sea Region -Government decisions: quit mechanical fisheries on cockles; allow gas extraction following 'hand on the tap' principle; establishment of the Wadden Fund (800 million euro; 20 years) for enhancement of the natural values and a sustainable economy; establishment of the Waddenacademie for the development of a good knowledge structure.





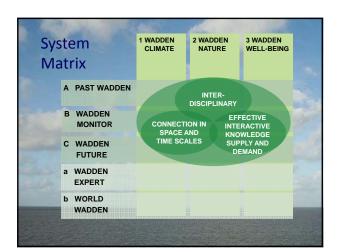


Characteristics Waddenacademie - Network organisation

- Links science to policy (interface)
- NOT a research institute
- Organizes workshops, symposia
- Publications: scientific articles/reports and also for the general public
- Compact: five parttime boardmembers (1 day per week) and small staff (4 fte)







Important research questions (1)

- •Safety: how can the safety of the Wadden Sea Region and its population be guaranteed in the long-term, also taking into account the possible harmful effects of climate change?
- •Climate-neutral: how can a sustainable energy balance for the region be realised?
- •Protection: how can the natural values be safeguarded?
- •Development: which regional economic developments are possible within the constraints?

Important research questions (2)

- •Adaptation: how will the natural environment adapt to climate change, the introduction of invasive species, changes in the global economy?
- •Sustainable economy: how can work and income for the residents be guaranteed in a sustainable manner?
- •Liveable community and quality landscape: how can social cohesion, a recognisable man-made landscape and living heritage be safeguarded?
- → New research institute of the Royal Dutch Academy of Sciences: Waddenacademy For more information: www.waddenacademie.nl

Ambition Waddenacademie ...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.













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.

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.

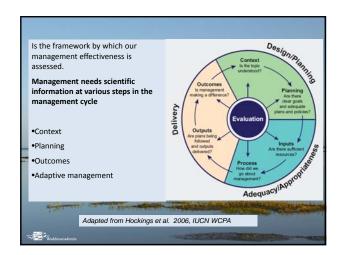
Recommendations symposium Theme 4: sustainability and ecosystem services

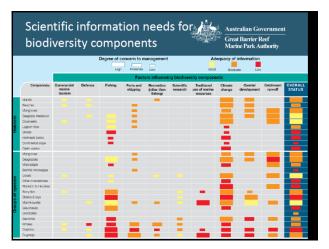
- Safeguard the protection of the natural values of the Wadden Sea in (EU) fisheries management;
- -Take action to restore the morphology and ecology of estuaries;
- -Explore and monitor the opportunities for tourism provided by the UNESCO world heritage status;
- -Study and preserve our important cultural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

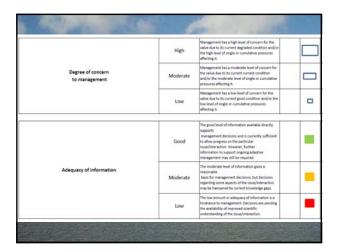
Conclusions and recommendations of the trilateral scientific symposium

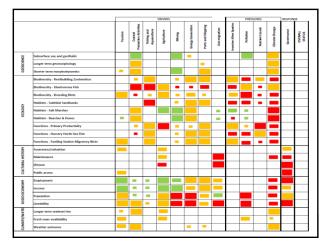
- The overall management of the trilateral Wadden Sea World Region requires cross-border and interdisciplinary research
- The main themes for trilateral research have been identified and receive broad support
- The implementation requires a Trilateral Research Platform and a Trilateral Research Fund











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

