



M A R K I S

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*Maritime Competence and Innovation Skagerrak & Kattegat*

# THE MARITIME CHALLENGES

The maritime sector is facing a series of significant common challenges.

From 2010 international regulations that enforces the reduction of marine- and air pollution from ships will be stepped up. How can shipping meet these stringent regulations to reduce harmful emissions to air and water?

European maritime competitiveness and growth is subject to increasing pressure. How can innovative solutions to reduce harmful emission to air and water be turned into new business opportunities?

Tomorrow's employees within shipping and other maritime industries are being shaped now. How can we educate and attract the best people in order to generate innovative power and international competitiveness?

In the Skagerrak & Kattegat region, we are welcoming these challenges as opportunities. Opportunities to foster green growth and to create new jobs within the maritime industry.

Through MARKIS - Maritime Competence and Innovation Cooperation in Skagerrak and Kattegat, we will strive to support sustainable shipping and green growth in maritime businesses and to create attractive maritime innovation environments in the Skagerrak & Kattegat region.

The vision is to create a maritime region with no harmful emissions to air and water from shipping and globally competitive maritime clusters.



Photo: Colourbox

# THE FOUNDATION IS SOLID

We believe that this vision can be realised. A large number of preconditions are already in place:

- The maritime industries in Southern Norway, Western Sweden and Northern Denmark have long maritime traditions and jointly make up a strong, maritime cluster
- Experienced and well-established maritime educational and knowledge institutions have already been established with great expertise within environmental and energy technologies
- In all three countries, the maritime area is considered to be a strategically important target area
- Scandinavia is well-known for its strong environmental profile

The willingness to cooperate is essential. 16 partners from maritime, business networks, universities, educational institutions, regions and communities have all agreed to lead the way - and more will hopefully join in underway.







Photo: Jørgen Anker Simonsen, Frederikshavn Kommune

# THREE ARENAS FOR COLLABORATION

MARKIS organizes three cross-border arenas designed to become permanent meeting points for future maritime activities in Scandinavia.

- The Maritime Innovation Arena is where maritime business, research and education meet for networking and cooperation to create the required foundation for developing green solutions to the shipping industry. For example, by development and increased use of alternative fuels, cleaning technologies, lightweight materials and energy efficiency
- The competence arena where education and research meet for networking and cooperation to establish a strategic competence development process for the Scandinavian maritime cluster, to maintain and increase its competitive advantage globally
- The Maritime Communication Arena supports innovation and competence building across geographic and disciplinary boundaries by providing a new interactive communication structure to facilitate collaboration

The activities within the respective arenas are expected to result in concrete projects between companies, educational and knowledge-based institutions across the Scandinavian borders.



IDEA



INNOVATION



COMPETENCE



COMMUNICATION



PRODUCT

# WHAT'S IN IT FOR ME?

Regardless of whether you represent a maritime business, a maritime organisation, an educational or knowledge-based institution or a public authority, there is something in it for you if you decide to get involved.

By attending conferences and innovation seminars, you will be given access to the knowhow, technologies and networks that are part of the MARKIS framework.

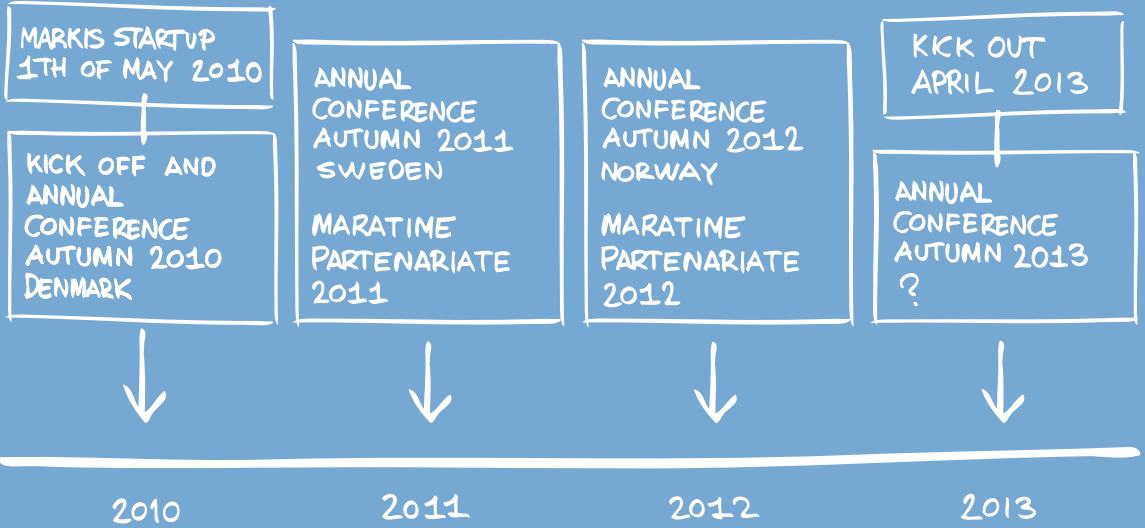
- The annual conference is held every autumn at the same time as the Maritime Partenariat (Partnership), a Scandinavian meetingpoint for maritime businesses
- The arenas are working with concrete themes within maritime environmental technologies, as e.g.: alternative fuels, cleaning techniques, lightweight material and energy efficiency . You may become part of these innovation projects
- The arenas will also function as the location where you will meet new cooperation partners, customers and suppliers that will provide you with access to new maritime markets or products in Scandinavia

If you wish to participate or need further project details, please feel free to contact:

Project Manager Agneta Pettersson  
Västra Götalandsregionen  
Agneta.pettersson@vgregion.se

Communication Officer Gitte Hyttel Nørgård  
Frederikshavn Municipality  
gihy@frederikshavn.dk

Or pay a visit to: [www.markis.eu](http://www.markis.eu)



## Markis partners:

- Aalborg Universitet
- Chalmers Tekniske Højskole
- Frederikshavn Erhvervsråd
- Frederikshavn Kommune
- Høgskolecentrum Bohuslän
- Høgskolen i Vestfold
- Innovasjon Norge
- Maritimt Center for Optimering og Drift, MARCOD
- Maritimt Forum Sørøst
- Maritime Training and Education Center, MARTEC
- Oslo Maritime Nettverk
- Region Nordjylland
- Svenskt Marintekniskt Forum
- Telemarks Fylkeskommune
- Uddevalla kommun
- Västra Götalandsregionen
- Vestfold Fylkeskommune

## The MARKIS project is funded by:



DEN EUROPÆISKE  
UNION  
Den Europæiske  
Regionale  
Udviklingsfond



Interreg IV A  
DRIBSUND - KATTEGAT - SPAGEBRÅK



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