



GENERATION BALT

Linking maritime education
with the changing job market
for a new generation
of Baltic Sea experts

INTRODUCTION TO THE PROJECT

Prof. Dr. Gerhard Graf (Project Leader)
Dr. Frank Hansen (Project Coordinator)
Dr. Manuela Görs (Information Officer)
- University of Rostock (Lead Beneficiary) -

Jan & Kasia Fidler, Cecilia Torres
- External Project Coordination Office -



Part-financed by the European Union
(European Regional Development Fund)

- Change from **industry to innovation based economy** (global markets, climate change consequences: energy, coastal protection, green technologies); **Blue Growth concept**
- Increasing utilisation of **Baltic Sea and coastal regions** ➡ **conflicts**
- **Need for skilled professionals**
- **Vulnerable environment:** need for professionals with **interdisciplinary understanding** of ecosystemary relations and legal conditions
- Large number of **unemployed graduates** of maritime studies

➡ **Generation BALT will match supply and demand**

- **Co-financed by the South Baltic Programme:**
 - => Priority Axis: Economic Competitiveness
 - => Measure: Integration of Higher Education and Labour Markets
- **8 Partners + 10 Associated Organisations from 5 countries:**
universities, national business associations and R&D institutes
- **Goal:** adaptation of higher education curricula to changes on the maritime job market
- **Total budget:** 2 Mio. Euro
- **Duration:** 1. July 2011 – 31. June 2014



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Project Consortium Partners



Germany

University of Rostock (Lead Partner)

Poland

University of Szczecin

University of Business and Administration, Gdynia

Polish Chamber of Maritime Commerce, Gdynia

Gdansk University of Technology

Lithuania

Klaipeda University

Klaipeda Science and Technology Park

Sweden

Linnæus University, Kalmar

Baltic Maritime Forum, Svetlogorsk 28th May, 2013



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Project Consortium

Associated organizations



Germany

Association of Maritime Technology, Hamburg
Chamber of Industry and Commerce, Rostock

Poland

Institute of Oceanology of the Polish Academy of Science, Sopot
Union of the Baltic Cities, Gdansk
Gdynia Academic Initiative Foundation
Pomeranian Maritime & Vistula Catchment Basin Cluster, Gdynia
Maritime Institute in Gdansk

Sweden

Baltic University Programme, Uppsala
Marine Centre, Simrishamn Municipality

Russia

Baltic Fishing Fleet State Academy, Kaliningrad

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Aims of the project

- **Increase** carrier options for graduates of marine-related studies
- **Establishment** of long term partnerships between universities and maritime industry associations
- **Collaboration** of academic institutions to balance curricula and pinpoint local strengths
- **Modernisation and Internationalisation** of existing curricula
- **Creation** of an inspiring and creative learning environment for students

Baltic Maritime Forum, Svetlogorsk 28th May, 2013



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Duration of project	2012	<p>⇒ Foresight of the maritime job market in the SB region</p> <ul style="list-style-type: none"> - Identification of highest demand for skilled professionals - Analysis of the <i>current</i> educational offer - Identification of <i>missing</i> educational offer
	2013	<p>⇒ Pilot post-graduate / master course:</p> <ul style="list-style-type: none"> - 5 longer weekend courses (modules) - Assignment, e-learning tools - summer school - internship
	2014	<p>⇒ Match-making activities between graduates and employers:</p> <ul style="list-style-type: none"> - internet job portal for the new maritime sector - internships - job fairs, exhibitions and other events - Maritime Alliance: partnerships with maritime industry

- **Prospect** for the development of the Maritime Sector (Questionnaire) until 2017
- **Estimations** on the demand for work force & key qualifications (Questionnaire)
- **Evaluation** of the Labour Market (un)employment structure, development & trends
- **Summary** of higher Educational Offer: Compilation of existing programmes & courses
- **Framework** of political conditions / educational policies

AIM: Definition of promising segments for future employment
Development of a Supplementary Study Programme

Questionnaire survey: 261 experts from 5 countries:

- A. Which maritime sectors will develop most within the next 5 years?**
- B. Which maritime sectors will create highest demand of skilled experts within the next 5 years?**
- C. Please describe key qualifications demanded for chosen sectors!**

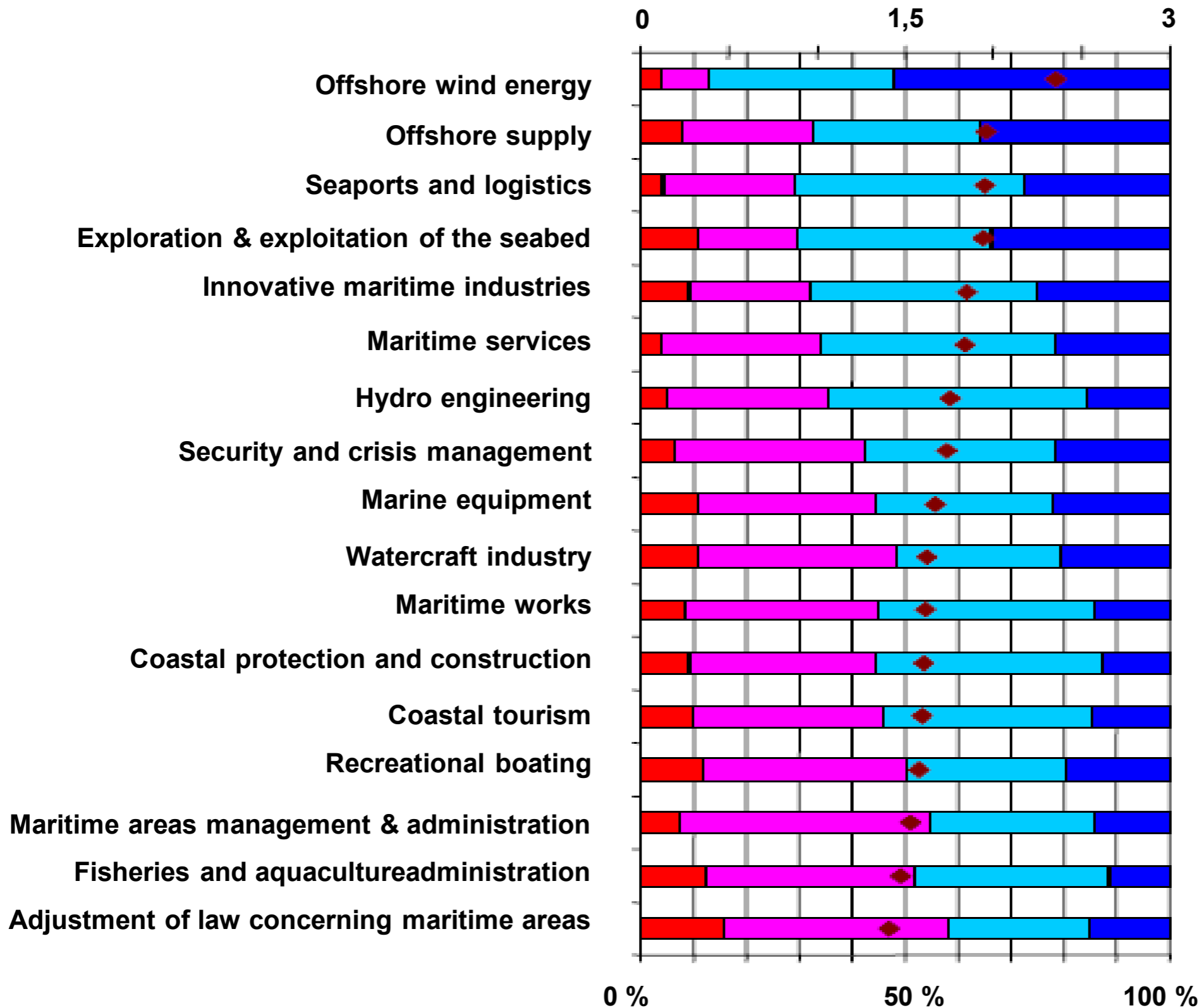


Figure 1:

Structure of answers and mean ratings for development prospects of maritime segments

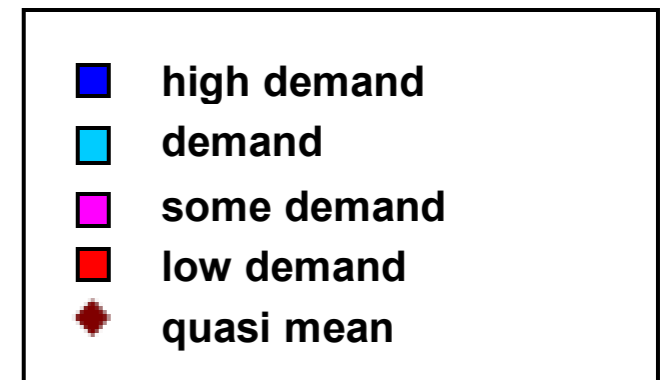


Figure 2:

Differences in ranking between countries

	Germany	Sweden	Poland	Lithuania	Russia
1	Offshore wind energy	Adjustment of law concerning maritime areas	Offshore wind energy	Innovative maritime industries	Fisheries and aquaculture
2	Offshore supply	Offshore supply	Recreational boating	Watercraft industry	Innovative maritime industries
3	Exploration and exploitation of the seabed	Exploration and exploitation of the seabed	Coastal tourism	Seaports and logistics	Offshore wind energy
4	Innovative maritime industries	Offshore wind energy	Exploration and exploitation of the seabed	Offshore wind energy	Seaports and logistics
5	Maritime services	Maritime services	Hydro engineering	Marine equipment	Coastal protection and construction

Examples for the desired skills:

- multidisciplinary thinking & holistic understanding
- being innovative & open minded
- understanding environmental issues
- capable using e-engineering
- entrepreneurial skills
- practical skills

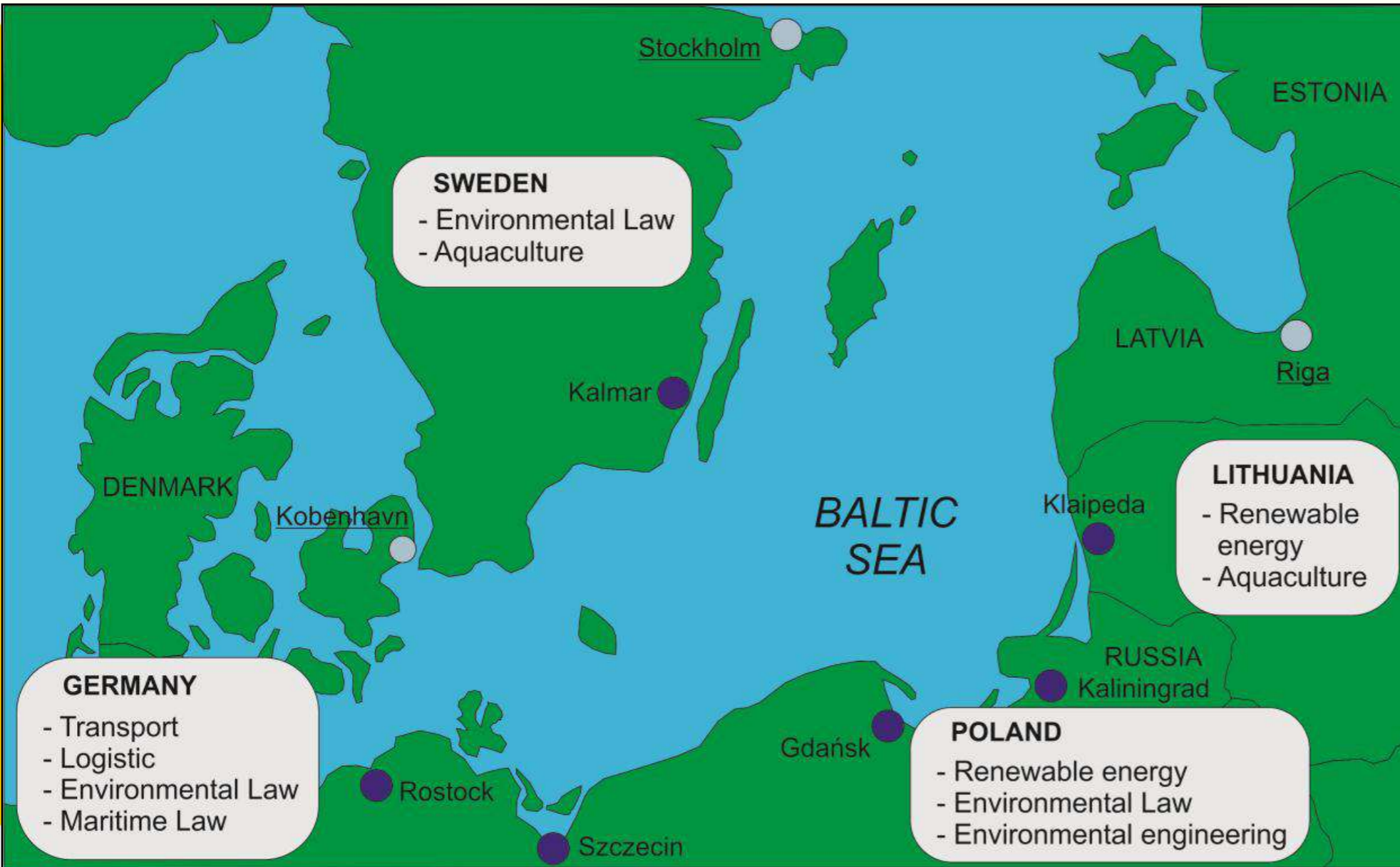


Figure 3:

Gaps in educational offer in the South Baltic Region

- **Target group:** ambitious last year students, graduates & unemployed maritime professionals
- **Modules:** 25- 30 participants, balanced mix of countries and educational background
- **Teaching:** Interdisciplinary, holistic understanding, creative, hands-on, intercultural
- **Method:** lectures, group work, exercises (e.g. SWOT-analysis), home assignments, excursions
- **Award:** 2 modules + summer school + internship => Generation BALT Diploma
3 modules + summer school => 7.5 ECTS credit points by LNU, Sweden

- **5 WEEKEND COURSE MODULES**

- I) **Aquaculture, Offshore Wind Energy & Combined Solutions** Rostock, Germany
- II) **Green Ship – Energy – Risk;** Kalmar, Sweden
- III) **Towards Green Shipping;** Klaipeda, Lithuania
- IV) **Coastal Zone Under Pressure;** Szczecin, Poland
- V) **Offshore Wind Energy Technology;** Gdansk, Poland



- **SUMMER SCHOOL**

Eco-Innovation in Maritime Technology, Transport & Resource Use in the Baltic Sea
Gdansk, Klaipeda & Kaliningrad

- **INTERNSHIPS**



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Thank you for your kind attention!

www.generationbalt.eu

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