



Maritiem  
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Centrum

**Water (Maritime) call STW,  
open march-june 2014**

Info-action towards non-familiar universities

**MKC MT 27-02-2014**

# Examples of relevant challenges

- How to operate in the deep ocean environment
- How to get 5 MW into the deep ocean
- How to transport from and to the deep sea
- Human Factors @ sea
- Marine environment: license to operate, combine technology / ecology/ biology in such a way that sustainable use of the marine environment can be achieved
- Safety @ sea
- Material challenges in very large structures in extreme conditions (deep sea /arctic / extreme weather); including corrosion, fouling
- Control algorithms and special sensors
- Integration of complex systems

# Examples of relevant challenges (2)

- **Renewable energy from the sea**
- **Strategies for Cost Effective Maintenance**
- **Emissions (air/water, gases and noise) and energy efficiency**
- **Material challenges in very large structures in extreme conditions (deep sea/arctic/ extreme weather); including corrosion, fouling**
- **Control algorithms and special sensors**
- **Integration of complex systems**
- **Renewable energy from the sea**
- **Strategies for Cost Effective Maintenance**
- **Emissions (air/water, gases and noise) and energy efficiency**

# Links to other sectors

- **HTSM / Automotive / Aerospace**
  - Cost effective lightweight materials
  - Thermal shock of materials
  - System engineering/integration
- **Energy**
  - Offshore wind
  - Tidal constructions
  - LNG and related materials/emissions

# En hoe dit aan te vliegen?



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- Algemene presentatie bij universiteiten,
  - Gericht op info over sector?
  - Gericht op specifieke onderzoeksvragen sector?