



# Technology seminar

## Marine spatial planning enabling blue growth in cold regions

Wednesday, 22 January 2020, 8.30–16.30  
Marina Congress Center, Helsinki, Finland

New technology offers opportunities for blue growth in cold regions. Environmental impacts and climate change bring challenges to sustainable offshore energy production, aquaculture and the use of seabed resources. Marine spatial planning is in key role for tackling these challenges and enabling blue growth. SmartSea project provides science-based guidance and new innovations for the sustainable use of Finland's marine resources especially in the Gulf of Bothnia.

### Agenda

- 8.30 Registration and coffee
- 9.00 **Opening Session**  
Opening words, Jari Haapala, FMI & SmartSea  
Toni Ahlqvist, University of Turku: *Maritime system transitions: emerging technologies, blue growth and maritime spatial planning*
- 9.40 **Session: Possibilities and requirements of offshore renewable energy**  
Heidi Paalatie, Finnish Wind Power Association: *Future of offshore wind power in Finland*  
Toni Sulameri, Suomen Hyötytuuli: *Experiences and future prospects of offshore wind energy technologies*  
Jaakko Heinonen, VTT: *Offshore foundation solutions for wind energy in ice*  
Elina Virtanen, Syke: *Marine Spatial Planning of offshore wind farms: environmental values and costs*  
Panel discussion
- 11.30 Lunch break
- 12.45 **Session: Cold region fish farming - new technologies**  
Juliane Borge, Multiconsult, Norway: *Sea based salmon farming in Norway – existing and emerging technologies and challenges in a cold climate*  
Alessandro Ciattaglia, Badinotti, Italy: *Oceanis 2 designed to Baltic sea icy conditions*  
Markus Kankainen, Luke: *Marine fish farming and production conditions in the Baltic Sea*  
Panel discussion
- 14.20 Coffee
- 14.50 **Session: Seabed resources - Opportunities and Challenges**  
Sander de Jong, Ministry of Infrastructure and Waterworks, Netherlands: *Sea Use Management and Sand Extraction in the Netherlands Northsea*  
Kirsi Kostamo, Syke: *Environmental impacts of seabed mineral utilisation*  
Jyrki Hämäläinen, GTK: *Guidelines and best practises for the use of seafloor resources*  
Panel discussion
- 16.30 End of the day

[Please register through this link](#)

#### More information about the event:

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#### More information about the SmartSea project:

<http://smartsea.fmi.fi/>  
<https://twitter.com/SmartSeaProject>

