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SUMMETH

Sustainable Marine Methanol

Final Seminar
6 December 2017

Welcome!

PROJECT PARTNERS



Program

10:00 Registration and coffee

- Welcome
- Introduction: *Peter Peterberg, Swedish Transport Administration, Road Ferry Operations*
- Alternative combustion concepts for methanol engines: *Bengt Ramne, ScandiNAOS*
- How to convert a marine diesel engine to methanol operation: *Patrik Molander, ScandiNAOS*
- Towards ultra-efficiency and zero-emissions with methanol engines: *Martin Tunér, LTH*

12:15 – 13:15 LUNCH

- Methanol with additives for diesel engines: *Päivi Aakko-Saksa, VTT*
- How to convert a road ferry to methanol operation: *Joakim Bomanson, ScandiNAOS*
- Safety Assessment of Methanol for Smaller Vessels: Road Ferry Case Study: *Joanne Ellis, SSPA*

14:45 – 15:05 Coffee Break

- Market Study - Finding vessels with total installed power between 250 - 1200 kW in North West Europe: *Torbjörn Rydbergh, Marine Benchmark*
- Environmental Performance and Provision of Sustainable Methanol for the Smaller Vessel Fleet: *Joanne Ellis, SSPA*

16:05 – 16:30 Wrap up & end of day discussion: *Bengt Ramne*



Photo: Kasper Dudzik₂

Previous and Current Marine Methanol Research Projects

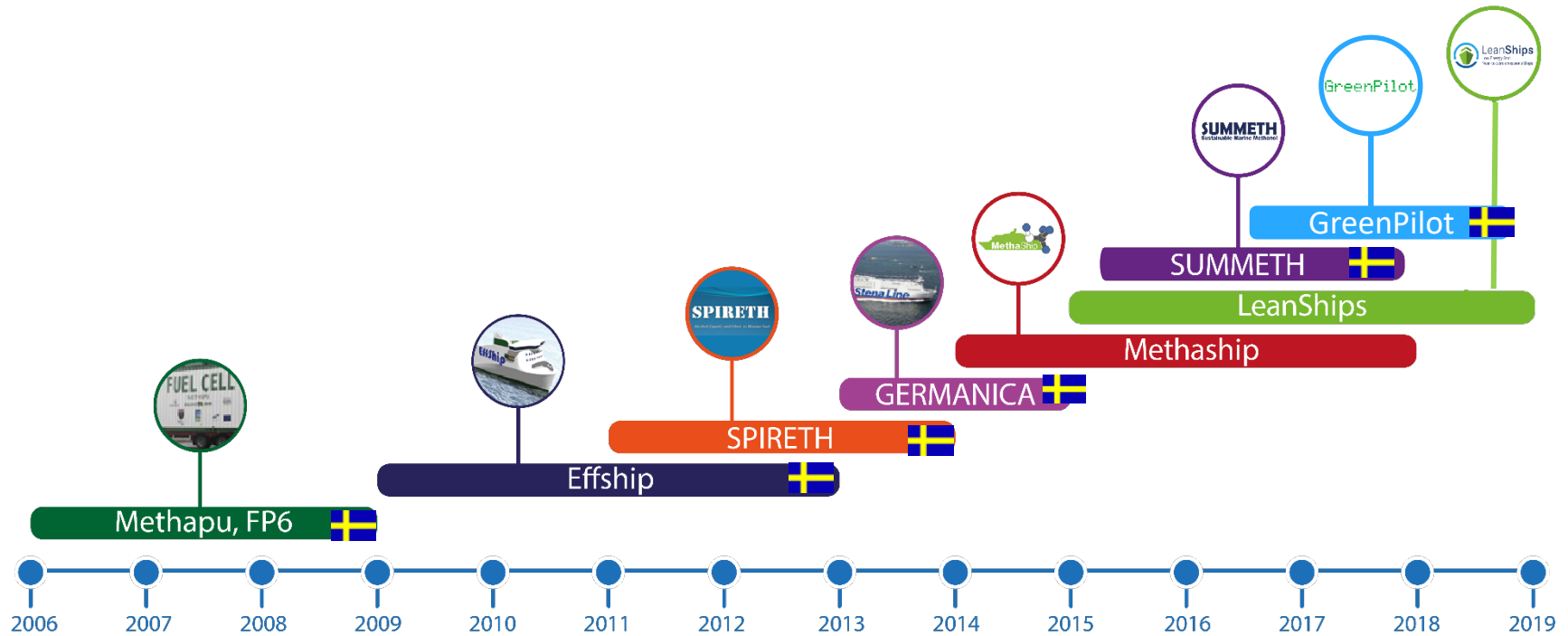


Figure adapted from: Ellis, J., and K. Tanneberger. 2015. Study on the Use of Methyl and Ethyl Alcohols as Alternative fuels in Shipping. Report prepared for EMSA.

Drivers for methanol fuel development for smaller vessels

- No engines commercially available for the smaller marine engine segment (up to 1200 kW range) and no smaller vessels had been converted – but many vessels that could potentially benefit from a methanol fuel solution
- Smaller passenger vessels often operating in populated areas where emissions reductions are important for air quality
- Different challenges and opportunities for developing methanol solutions for smaller vessels



SUMMETH Objectives

- Test and evaluate methanol combustion techniques for smaller engines
- Develop a case study design for methanol conversion of a Swedish road ferry
- Market study of smaller vessels in NW Europe
- Investigate renewable methanol supply chains for marine fuel

Overall aim is to contribute to a solution to reduce emissions and carbon footprint of smaller vessels



Photo: Kasper Dudzik₅