

The TrAM-project

Transport Advanced & Modular

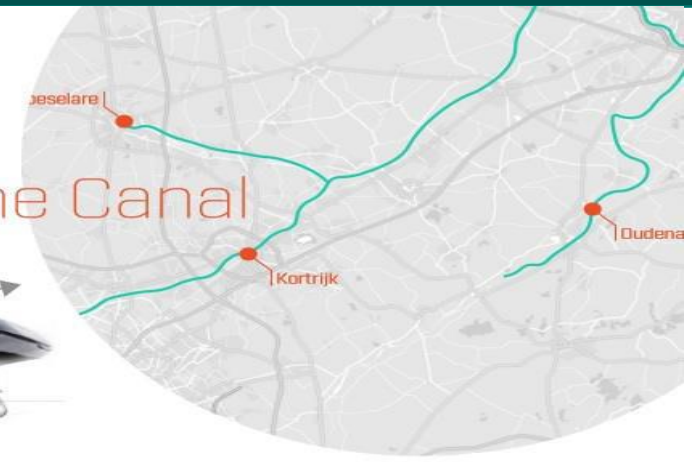


WORK PROGRAMME 2016 – 2017

11. Smart, green and integrated transport: MG-2.4-2017. Complex and value-added specialised vessels



CASE B
Belgium / Zenne Canal



Barge module



CASE A
Stavanger / Hommersåk



Passenger module



CASE C
London / River Thames



Specific challenge: European yards and marine equipment manufacturers, often consisting of SMEs, are world leaders in the construction of complex vessels, in small and medium-sized, value-added vessels and in highly specialised vessels. In addition to making the production and use of existing vessel concepts more efficient, new waterborne business cases require more specialised and customised vessels. The specific challenge is to explore the best design concepts and construction and production principles for complex, one off and small series vessels, and for modular standardised vessels, also in terms of marketability (technology push) and future skills requirements along the value chain (especially as regards SMEs active in this area).

Scope: In order to meet this challenge, proposals should address one or several of the following aspects:

—Develop and validate advanced ferry concepts for European waters (urban, inland waterways and short sea), covering hull designs, equipment and operations, including optimised land-side interfaces.

—Explore and validate low impact cruise and passenger ship designs and operations (noise, discharges, ballast water management), in particular for all seasons operations and challenging environments.

—Develop and validate modular standardised workboat concepts.

—Develop and validate vessel concepts and designs for new waterborne transport and transport support operations, including low-viscous resistance frames and where appropriate novel and more efficient ice-breaking technologies.

The Commission considers that proposals requesting a contribution from the EU of between EUR 8 to 12 million each would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected impact: The outcome of activities will contribute to the competitiveness of the sector by bringing forward innovative solutions that build on the current and future technological capacities and human resources of European companies: proof of concept up to the level of demonstrators including the assessment of cost-benefits (ferries/passenger vessels), development of standardisation approaches and modular production methods including demonstrators (workboats); market/marketability analysis and preliminary proof of concept (entirely new vessel concepts and ice breaking technologies). The exploitation of results for the benefit of engineering and manufacturing SMEs will be facilitated.

Type of action: Innovation Actions

11.7M Euros to the TrAM project

Development of next generation's high-speed passenger vessel



Norwegian partners:



Norwegian Centres of Expertise
NCE Maritime CleanTech



International partners:



National Technical
University of Athens



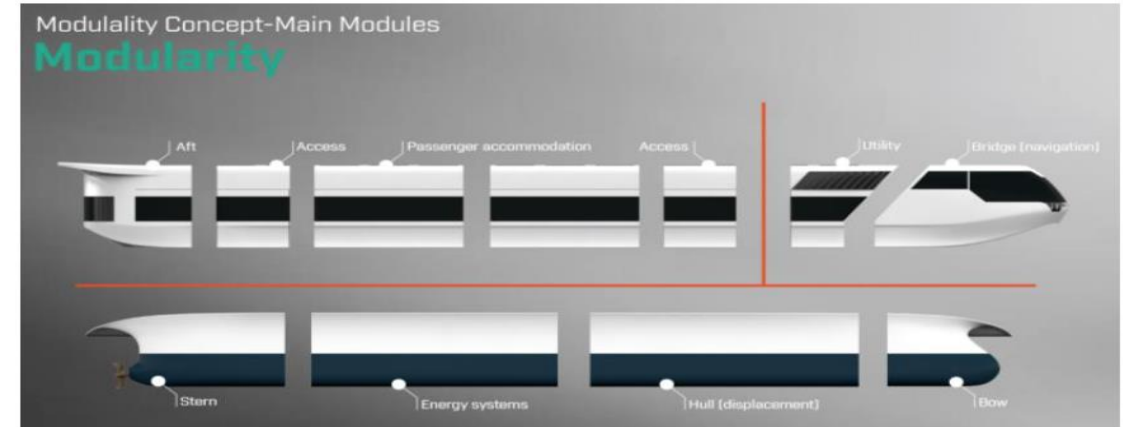
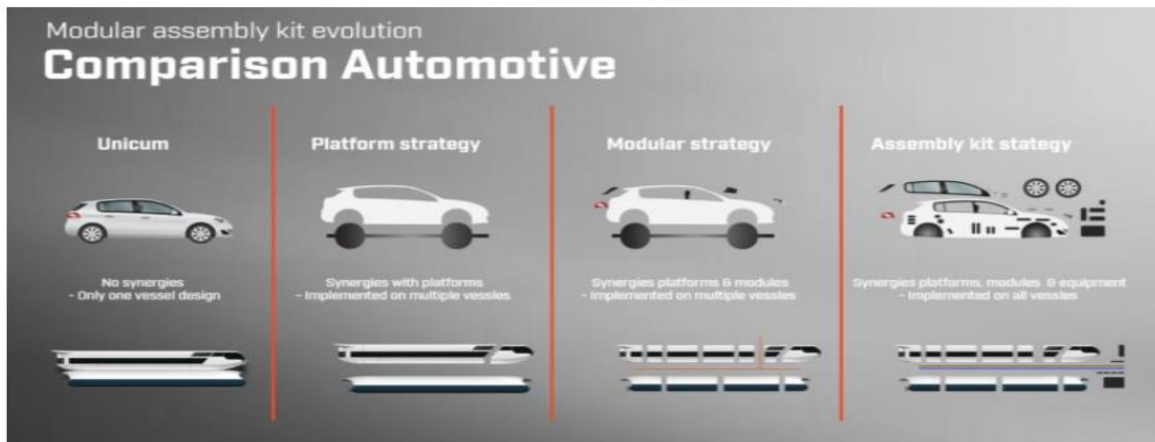
Transport: Advanced and Modular – TrAM



Main target:

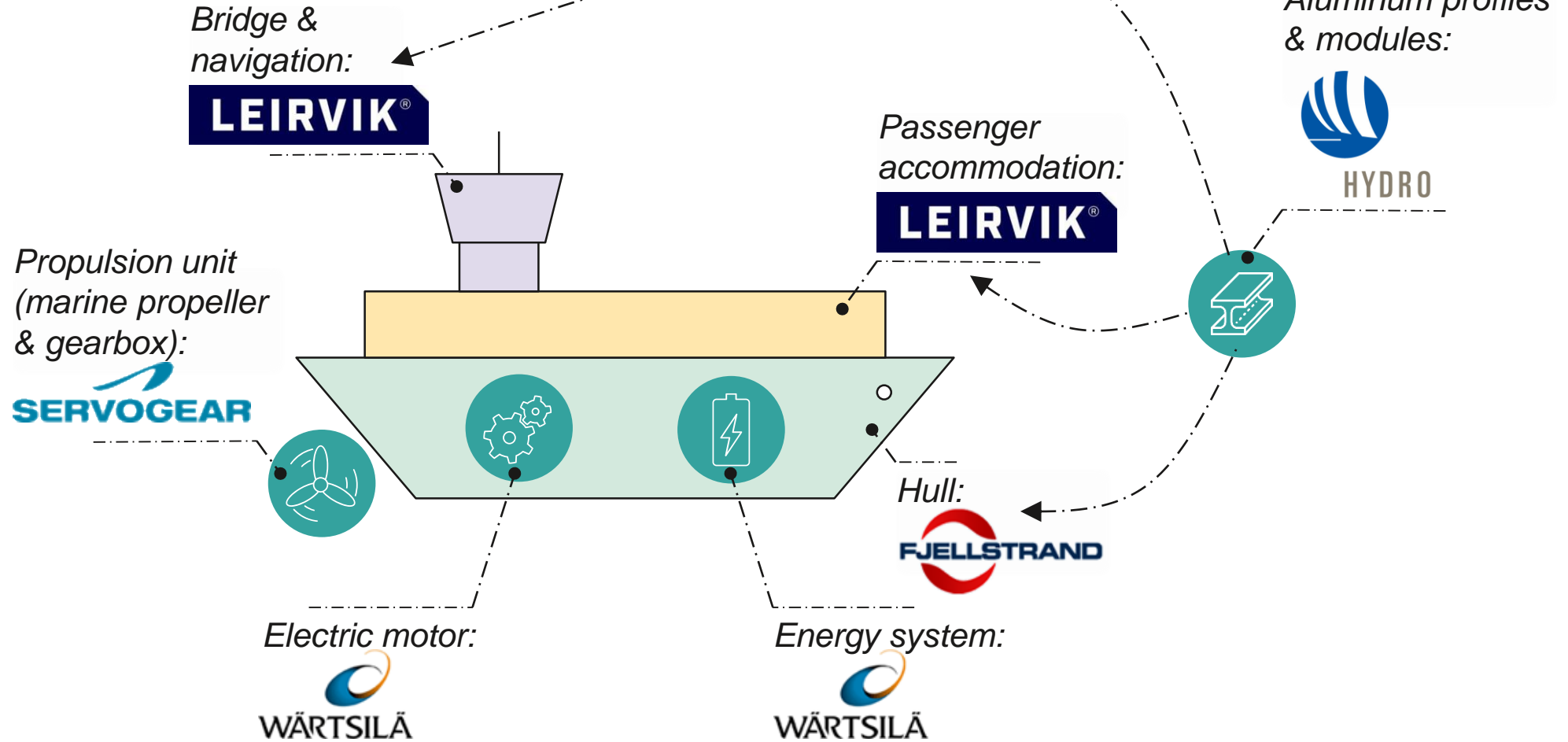
Develop and demonstrate a concept for modular design and construction, with main focus on electrically driven vessels for protected waters.

The project will reduce production costs by 25 % and design and engineering costs by 70 %.

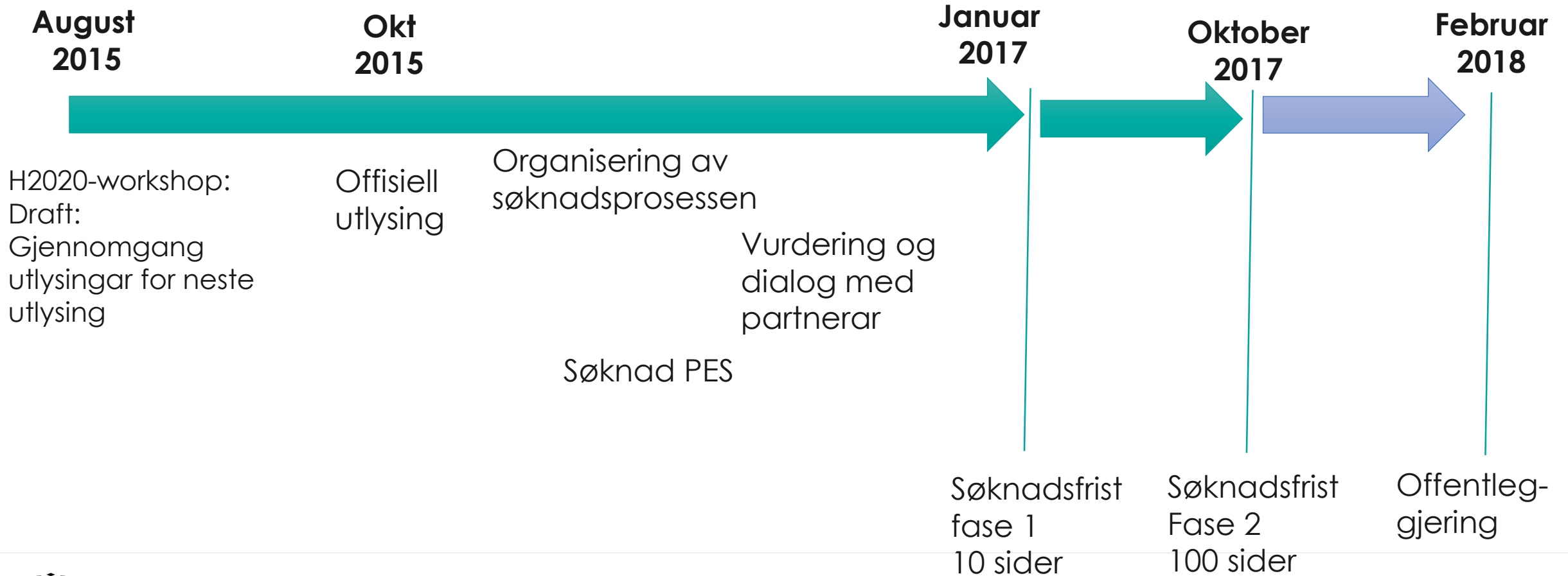


Stavanger demonstrator

Overview of industry partners



Søknadsprosess TrAM



Erfaring frå TrAM - Korleis nå igjennom EU sitt nålauge?

- Start tidleg med å planlegge søknadsprosess!
- Er utlysingane relevant ifht egne strategiske målsettingar? (ny teknologi, nettverk, PR, internasjonalisering, kva blir finansiert, forskingsinnhald osv)
- Vurder nøye samansetning av konsortiumet – koordinator, SME, internasjonale partnerar osv, antal partnerar
- Søk hjelp i søknadsfasen (med finansiering frå Forskningsrådet – PES-midlar): oppbygging av budsjett, arbeidspakkar etc
- Første gangs søker? Delta i konsortium med erfarne partnerar



Andre tips

- Satsing på områder der Norge har eit fortrinn – havnæringar
- Underbygg erfaring og kompetanse med referansecase
- Technology transfer ref frå luftfart til maritim sektor
- Fokuser – ikkje delta i mange prosjekt

