

Networks, Research and Development for Sustainable Vessel Operations in Ice-Covered Waters Based in Northern Norway

Chris Petrich, Norut Narvik AS
christian.petrich@norut.no

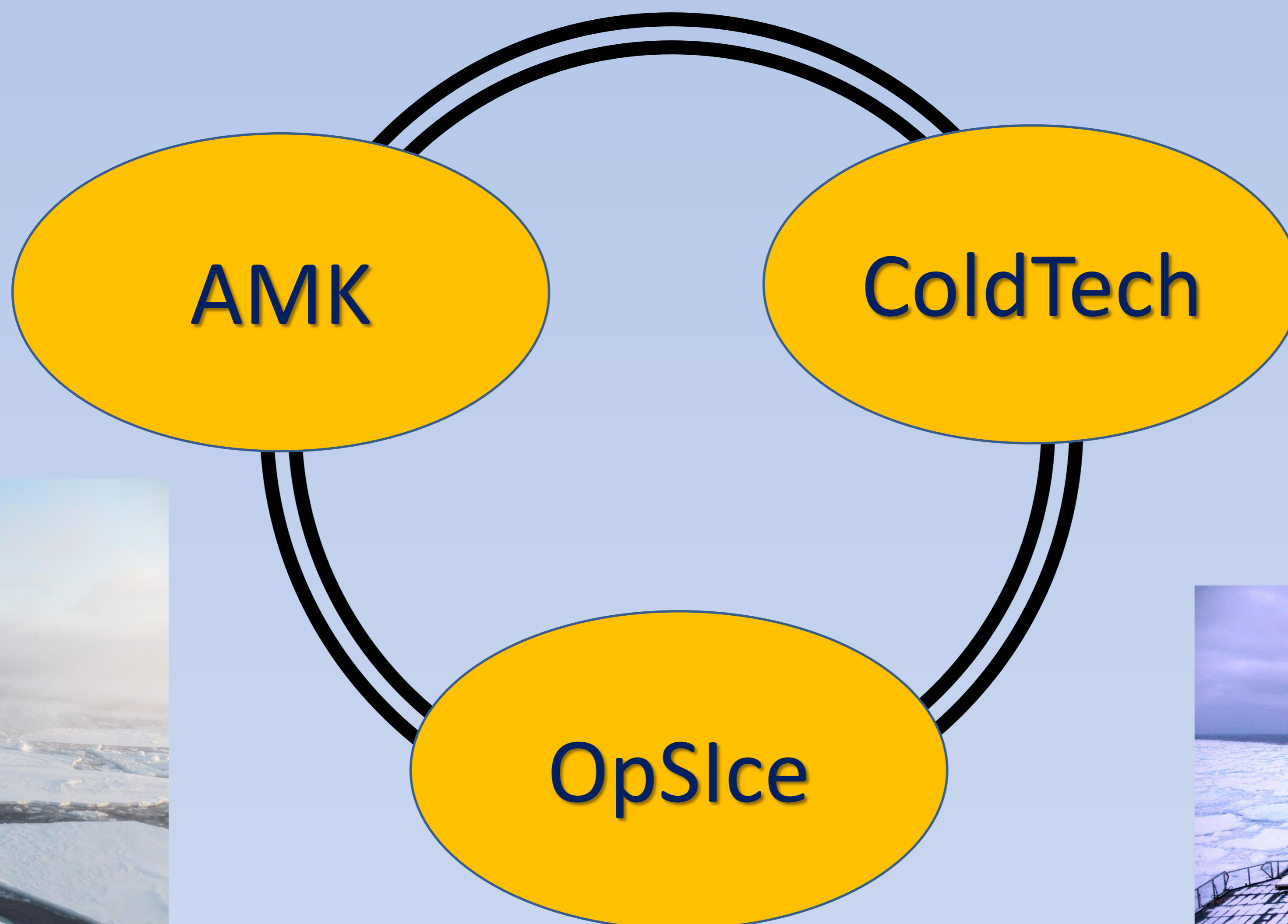


Tor Husjord, Maritimt Forum Nord
tor.husjord@maritimt-forum.no



Operations in polar waters are subject to particular safety risk and environmental challenges. Some of these challenges are addressed in networks, research and development programs based in northern Norway. Currently, operations in ice-covered waters are addressed in three programs that include stakeholders in industry, interest groups and research institutes with circum-Arctic partnerships. Tight interconnection and exchange of ideas is exemplified by partners participating across several programs.

Arktisk Maritim Klynge (AMK) is a network with strong industry participation to develop and implement equipment, design, and processes for arctic maritime operations.



ColdTech is an international, industry co-sponsored research program based in north Norway working toward the development of sustainable cold climate technologies, including technologies relevant to arctic shipping.



The Network on Safe and Economic Operations in Seasonally Sea Ice-Covered Waters (OpSIce) is a circum-Arctic partnership to promote exchange and

cooperation between research and industry a regional, national, and international scale. It focuses on the development of longer-term applied research projects.

Partners OpSIce: Norut Narvik, Maritimt Forum Nord, Center for High North Logistics, DNV GL, Norut Tromsø, Nansen Environmental and Remote Sensing Center, University Center in Svalbard, National Research Council Canada, University of Alaska Fairbanks (USA), Luleå University of Technology (Sweden), Alfred Wegener Institute (Germany), Center for Arktisk Teknologi (Danmark), Universität Hamburg (Germany)
Supported by: Norwegian Ministry of Foreign Affairs
Project owner: Norut Narvik

Partners AMK: Torghatten Nord, Seaworks, Hurtigruten, Chrisship Gruppen, Troms Offshore, Nor Supply Offshore, Tschudi, LKAB, Westcon, Hamek, Grovfjord Mek. Verksted, Skarvik, ballstad slip, Nord-Norsk skiskonsult, polarkonsult, SMV Hydraulic, PTN, Data Process, Rapp Marine, Transportutvikling, Mercur Solutions, Noweco, Harstad Elektro, Teknor, Namek, Narvik Havn, Norut Narvik, UiN, HiN, UiT, Marintek, Kystverket, Kystvakten, Kunnskapsparken Bodø, Maritimt Forum Nord
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Partners ColdTech: Norut Narvik, Narvik University College, Norut Alta, DNV GL, Luleå University of Technology (Sweden), National Research Council Canada, Shell, Total E&P, Det norske, North Energy, Hammerfest Energi, Nordkraft, Statkraft, IKM, DAPA AS, B&E Senteret, Multiconsult, Maritimt Forum Nord
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<http://opsice.com/>

<http://maritimt-forum.no/nord-norge/>

<http://arctic-technology.com/>