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Norwegian Perspectives

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(AUTOSTRIP)



Common challenges, complex systems – requires collaboration

- Autonomy is new for all
- The systems are highly complex
- Requires multidisciplinary collaboration, e.g.
 - Technology
 - Human factors
 - Business development
- No one can solve it alone
- However the technology race continues – some day it will all somehow be solved

Norwegian test arenas

- All arenas offers unique features and capabilities:
 - Trondheim
 - Close to NTNU/SINTEF/industry
 - Large areas and offshore
 - Ålesund
 - Close to NTNU/ship building industry
 - Large waves
 - Horten
 - Close to USN/Technology industry/NDRE
 - Yara Birkeland, ASKO Autobarge
 - High traffic



How to develop a national cooperation on maritime autonomy

- Cluster development is key
 - Norwegian Forum for Autonomous Ships (NFAS, ship specific, national)
 - Sustainable Autonomous Mobility Systems (SAMS, national, domain unspecific)
 - Autonomy Cluster (around Trondheim)
 - Maritime CleanTech (western coast)
 - Nordic Edge (national, smart city)
 - Blue Maritime (north-western coast)
- Bridging clusters is next through collaboration projects

Collaboration is about overcoming the major hurdles

- The very nature of the complexity along with the need of market development fosters competitor collaboration
- No university or research institute can provide all the answers
- Basic research as well as applied research equally important
- Domain competence is key
- An autonomous ship is only a small piece of the autonomous logistics puzzle
- National collaboration projects are emerging
 - Autonomous Water Shuttle
 - Test arenas
 - Large research projects



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