SYSTEM LEVEL DIGITAL TWINS Professor Pentti Kujala

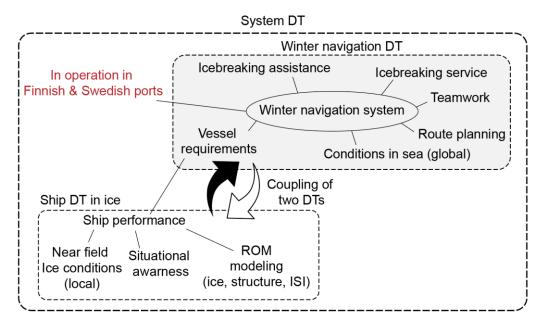
The aim is to build system level understanding of the maritme activities in Estonian waterways. Starting from the numerical modeling and simulation of individual ships we can build digital twins for the whole system including also digital presenation of the fairways and ohter important infrastructure such as icebreakers, wind farms, intelligent fairway marks.....

Current Research focus:

- Effect of the planned windfarms on maritime traffic (Inga Zaitseva-Pärnaste)
- Maritime cyber security (Ahmed Nasr)
- AIS data analysis, intelligent fairway infra (Kirill Sustov)
- Autonomous oil recovery ecosystem (Proposal under review)
- Optimised ship maintenance (Valentin Bratkov)







ROM - Reduced Order Modeling, something that is quick and deployable in DSS onboard. Similar what was in DO-IT proposal

