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ABSTRACT SUBMISSION — SOUMISSION DE RESUME

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ABSTRACT / RESUME:

Shaping the Next Generation VTS

How unique partnerships between authorities and industry advance VTS technology and improve operations

The Next Generation Operations Centres and maritime domain awareness systems will not spring fully formed from the minds of engineers but will instead arise from unique partnerships between authorities and industry.

Next Generation systems and centres will be required to handle massive amounts of data, provide the human operators with the necessary applications to interpret the data, and rely on innovative display technology and Human Machine Interface (HMI) design to present and make sense of it all. This paper explores three distinct project partnerships between Industry and Authorities.

First, Kongsberg Norcontrol and the Norwegian Coastal Administration have worked closely for over two years to develop a new operations support system called OSS. This new system has been developed with a human centered design process, undergoing several iterations. The result is an application tailored to the specific needs of the operators.



Next, industry and academia have come together with the Norwegian Coastal Administration to form the BEAN project. This project seeks to develop smart algorithms that sift through mountains of data in order to detect potentially dangerous behavior of vessels in Norwegian waters. The goal is to revolutionize decision support so that VTS operators and other shore authorities receive better information about which vessels are at risk in their area, as well as fewer false alerts.

Finally, in collaboration with the Maritime Port Authority of Singapore (MPA), Kongsberg has established a Living Lab in Singapore where new and emerging technologies can be tested with real operators in realistic conditions. By testing emerging display technologies and e-Navigation solutions, the Living Lab will provide evidence for pursuing specific control centre and HMI designs for the Next Generation VTS.

The paper concludes with a call for Authorities to seek collaborative relationships with local and international industry to make greater use of Human Centered Design and Human Factors research in order to improve their operations.

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