

Closing the loop for lifecycle product management in Norwegian subsea systems

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Abstract. Systems that we deploy in subsea natural environments face many of the same challenges as space-based systems. This means that they are complex and often embedded as systems of systems. Norwegian firms excel in this industry and are increasingly applying systems engineering processes to ensure the success of their projects. However, these processes are defined as product development activities that do not accommodate the full product lifecycle. This paper investigates the project execution processes of a Norwegian subsea supplier and compares them to the systems engineering process baseline provided by ISO/IEC 15288:2008 for further analysis. Insights from this analysis are used to propose modifications to the current practices by closing the loop with a unified lifecycle model that bridges departmental divides. The research was performed as part of the master's thesis by the first author. Reflections on the usefulness of the standard as guidance are also offered.