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HPC in the De Beers Marine R&D Context

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The unique nature of the underwater mining environment has resulted in R&D playing an important role within De Beers Marine. Physical and numerical simulation methods form an integral part of the R&D concept development pipeline. Computational Fluid Dynamics has been increasingly used for concept exploration, risk mitigation as well as to enhance understanding of physical simulations. HPC has been an enabler for using Computational Fluid Dynamics to solve multi-phase problems that were previously deemed to be too large and/or complex. Most recently, this capability has been used in the feasibility stage of a new marine mining vessel.

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