Cross-Sector Applications & Solutions

Fri. Nov 13, 2026 2:00 PM - 3:30 PM JST | Fri. Nov 13, 2026 5:00 AM - 6:30 AM UTC | Room D (Icho) (3F)

Oral D5 Corss-Sector Applications & Solutions

Chair: Klaas Deneudt, Michio Kawamiya

3:00 PM - 3:15 PM JST | 6:00 AM - 6:15 AM UTC

[8uJbD0lg-05] The Moment of Catch: Linking Resource Extraction to the Digital

*Eva-Kristin Varheim[1] (1. Transparency in the Moment of Catch (Norway))

NorDITO is developing a national framework for a Norwegian Digital Twin of the Ocean by connecting heterogeneous ocean observations, Earth observation, operational models, analytical services and digital infrastructures through interoperable interfaces and reusable components. The initiative addresses the challenge of moving from distributed data and modelling capabilities towards a more integrated system-of-systems that can support operational and decision-oriented marine applications. Particular emphasis is placed on standards-based interoperability, metadata and semantics, APIs, reusable computational workflows and portability across infrastructures. NorDITO also explores how national capabilities can connect with the wider European Digital Twin of the Ocean ecosystem, including EDITO and related digital-twin initiatives, while retaining the flexibility needed for national and regional applications. The presentation will outline the emerging architecture, key technical building blocks and priority use cases, and discuss how Norway’s strong ocean-observing and modelling capabilities can contribute to a scalable and federated DTO ecosystem.

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