

Digital Twin for Innovation in Oceanic Visualization and Exploration DIVE

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The DIVE project is responding to the Priority Area 1: Digital Twins for Oceans (DTO), considers 3 European sea basins, and aims at contributions to environmental objectives 1. Climate change mitigation, 2. Climate change adaptation, 3. The sustainable use and protection of water and marine resources, it supports EU policy implementation in areas of environment, climate, fisheries.

OBJECTIVES

- O1: Provide a multimodal, in-situ and remote sensing, reference Analysis Ready Data set
- O2: Implement DTO Components
- what-if explorer
 - causal explorer
 - ocean visualizer
- O3: Establish a joint living lab for 3 European basins
- O4: Elaborate a quadruple helix model for integration with European Digital Twins systems for ocean

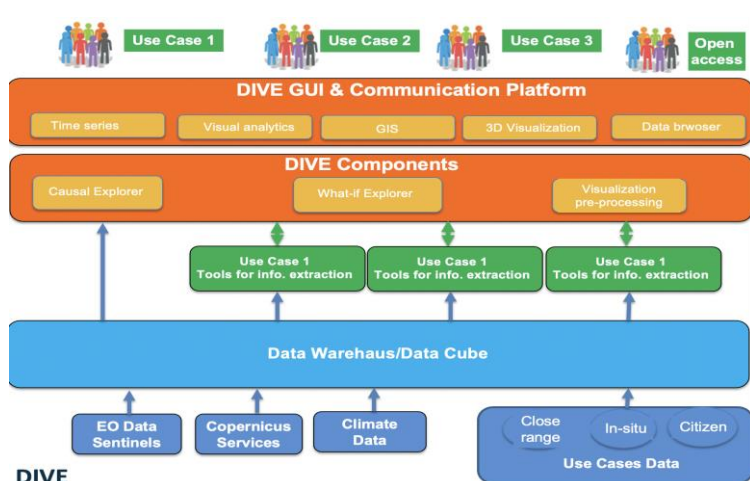
Use case 2: Lofoten-Vesterålen (LoVe) Blue Economy Digital Twin

Use case 3: Rain radars application to offshore wind French Atlantic coastline

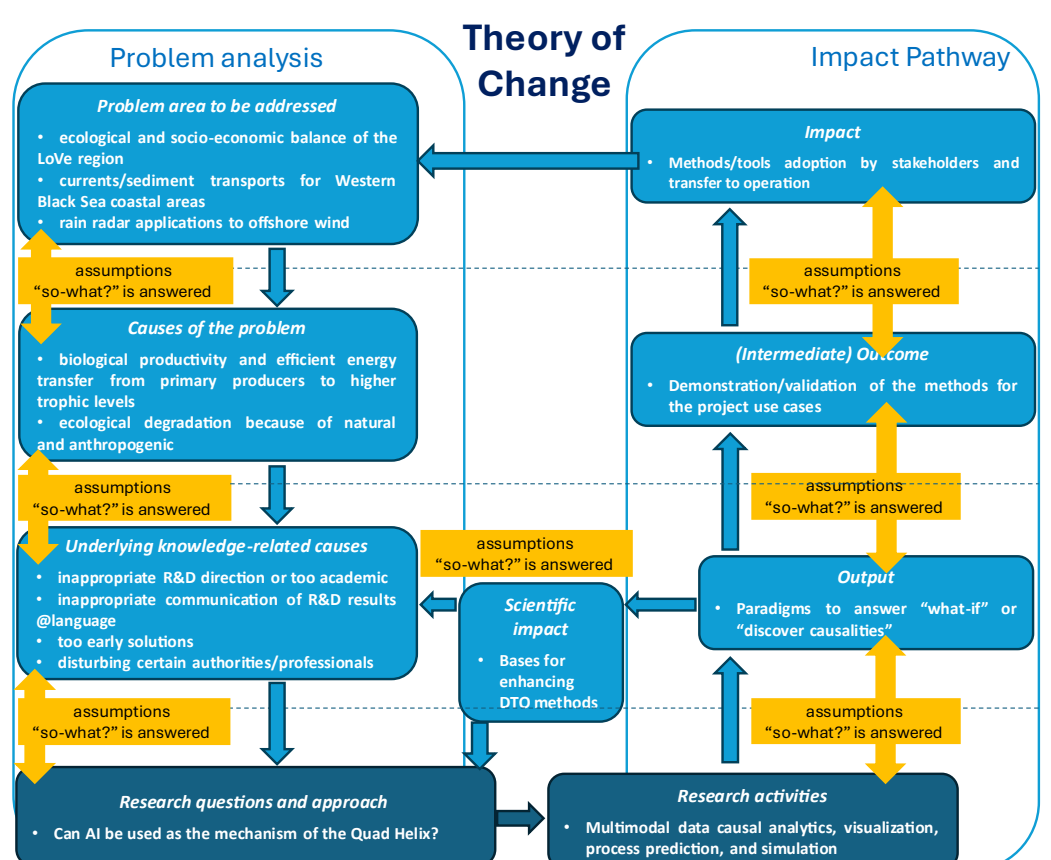
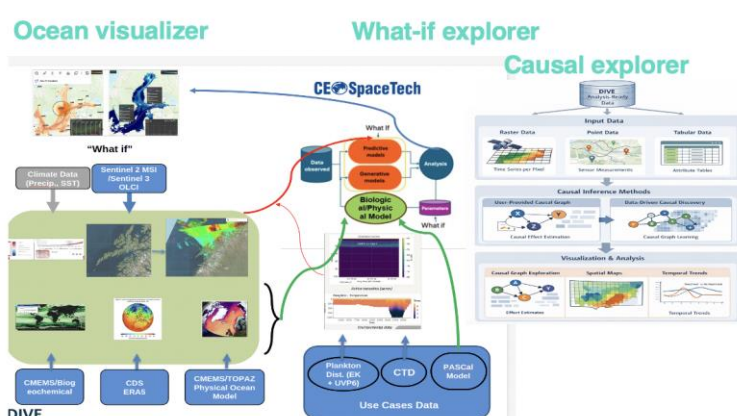
Use case 1: Currents and sediment transports within the Western Black Sea coastal areas



DIVE ARCHITECTURE



DIVE COMPONENTS



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EUROPEAN PARTNERSHIP