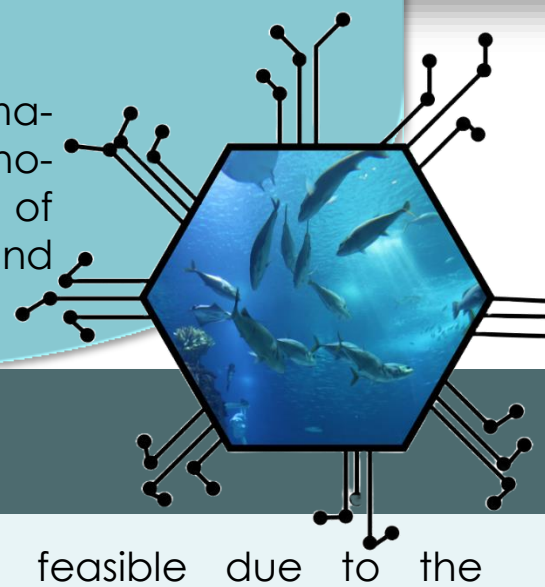
Next-generation monitoring and mapping tools to assess marine ecosystems and biodiversity

Objective

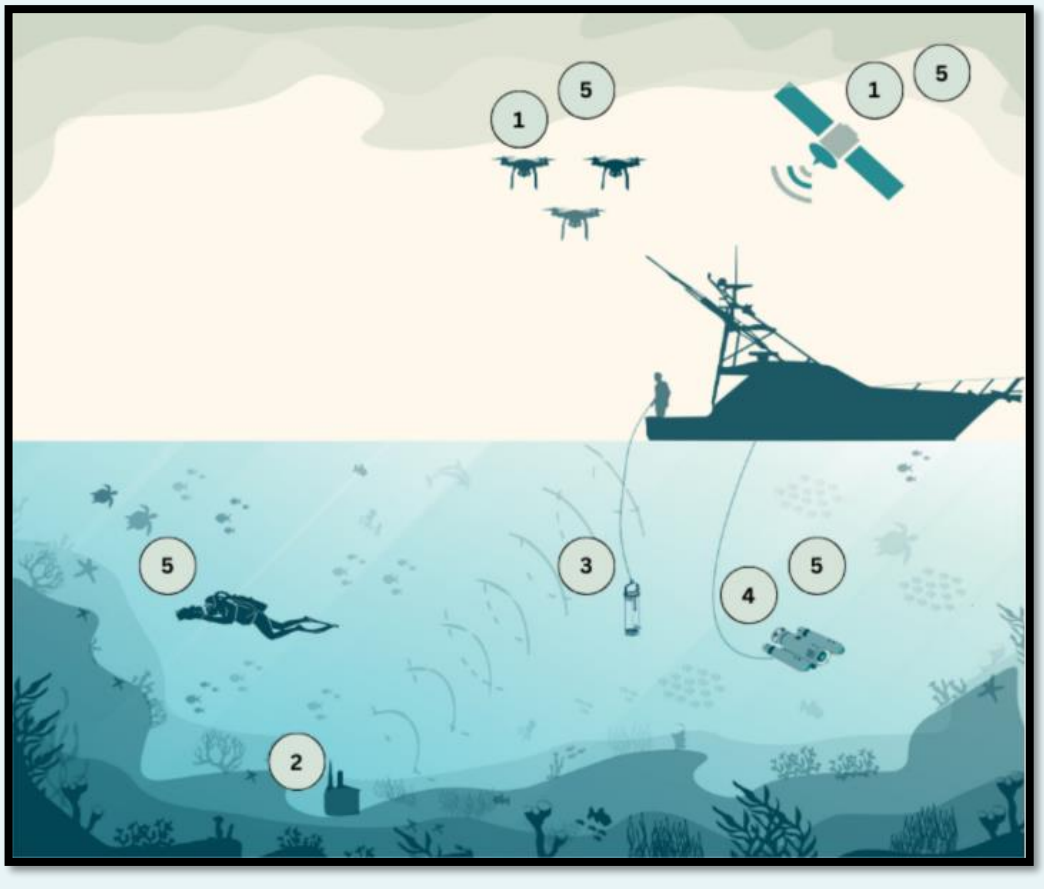
Developing next-generation, fit-for-purpose, user-friendly, and smart marine biodiversity observation, mapping, and monitoring tools, and methodologies for data interpretation and analyses, to advance knowledge of marine and coastal ecosystem processes and our ability to understand biodiversity declines and drivers of change, including inva-sive species.



What makes NEMO-Tools stand out:

NEMO-Tools is ambitious in the diversity of hard (Remotely Operated Vehicle (ROVs), drones, Unmanned Ground Vehicle (UGV)) and soft (eDNA, AI) technologies that are tested with spatial replication and in producing innovate-ve data-driven measures of biodiversity and ecosystem change at different spatial and te-mporal scales.

These novelties are feasible due to the unprecedented availability of biodiversity da-ta and computational methods and have been inspired by our experience in such ana-lyses at local, national, regional and global scales.



1. Remote sensing
2. Acoustics
3. eDNA
4. Autonomous & Remotely Operated Vehicles
5. Artificial Intelligence

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