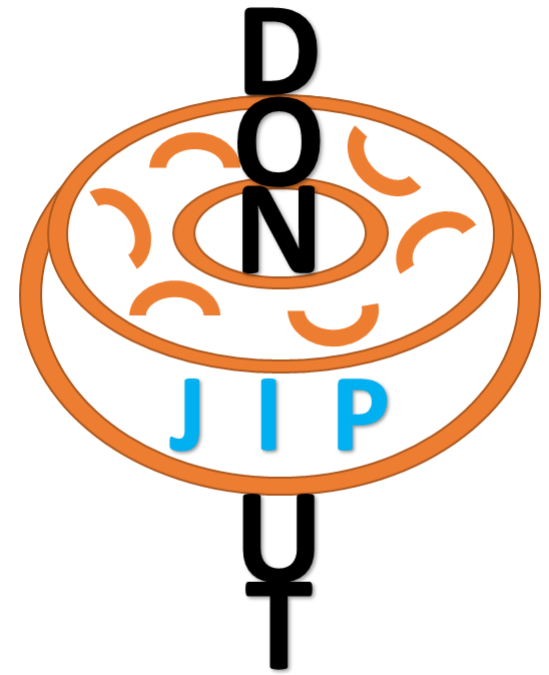


Digital Twin for Mooring Systems

A hybrid and non-intrusive technology



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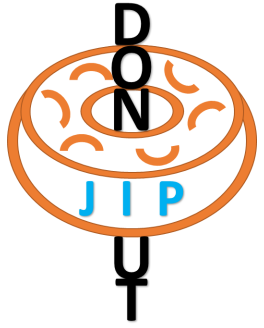
Deliverable





Digital twin of mooring lines
including
damage diagnosis and prognosis

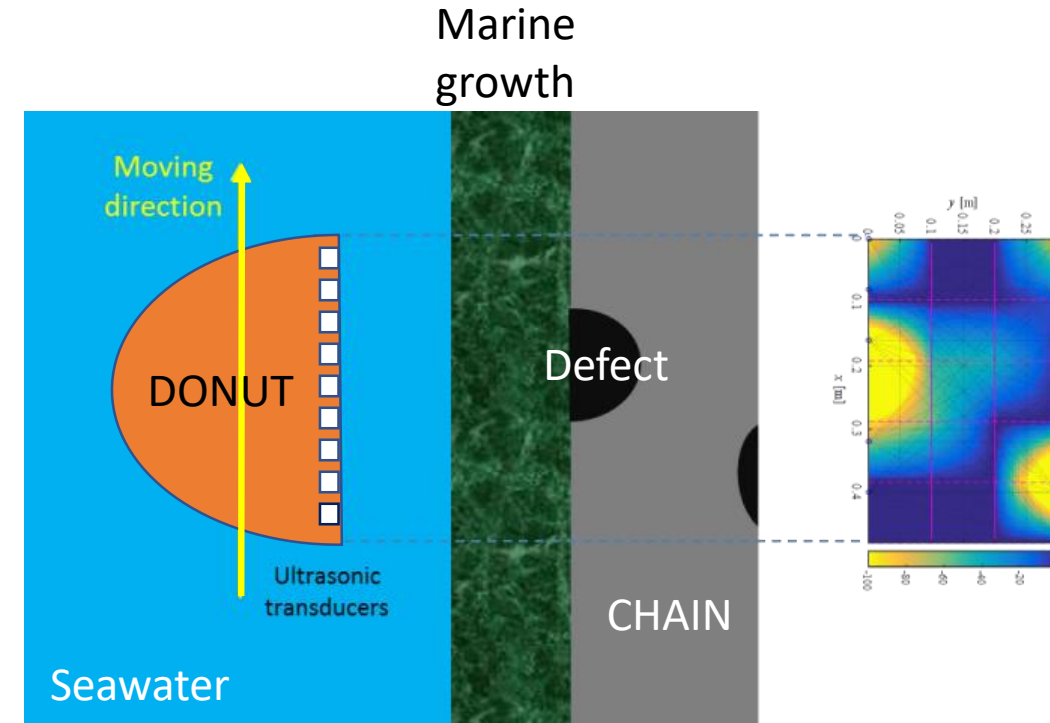
which will eliminate/reduce
use of divers/ROVs



Approach



-  • Diagnosis with colocated active and passive ultrasound tomography systems
-  • Load measurement system on the mooring line
-  • Damage prognosis based on the diagnosis results and load measurement
-  • Laboratory and field demonstrations

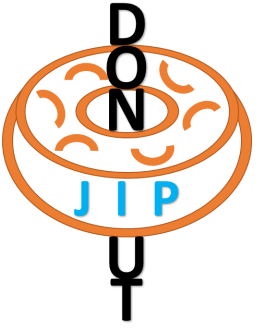


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Important features

- Building on knowledge and experience gained in other projects
- Non-intrusive (i.e. no cleaning of chain needed)
- Autonomous
- Deployable and retrievable by ROV



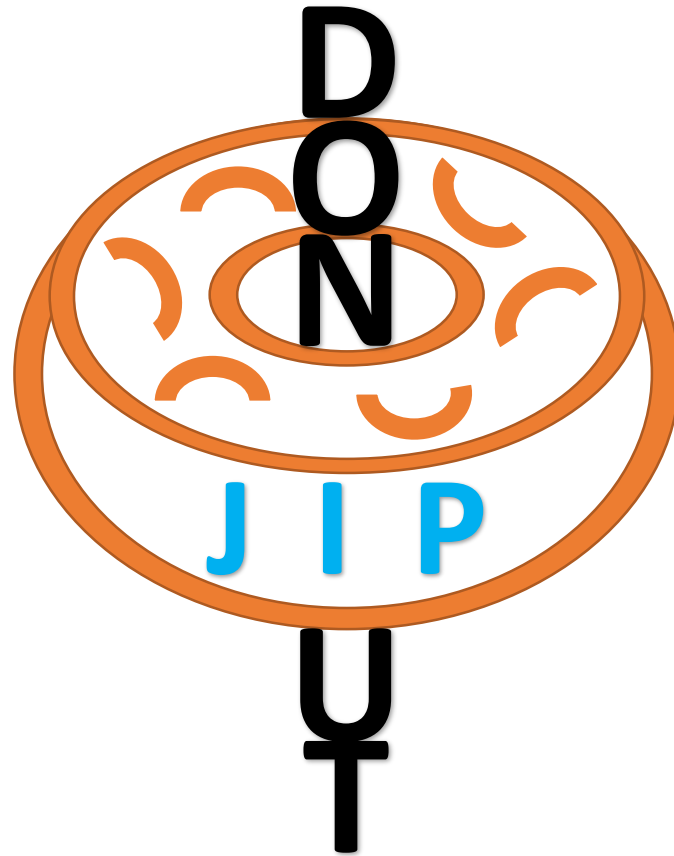
Project organization – Phase 1

- Feasibility demonstration
- Contribution: 20 k€/participant
- Budget estimate 120 k€
- Duration: 1 year



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