iMagine

iMagine aims to deploy, operate, validate, and promote a dedicated AI framework and platform, connected to EOSC and AI4EU, to give researchers in aquatic sciences **open access to a diverse portfolio of AI-based image analysis services and image repositories** from multiple RIs, of relevance to the overarching theme of **Healthy oceans, seas, coastal and inland waters.**

Use cases

1. Aquatic Litter Drones: Aquatic Litter monitoring system using drones (DFKI, MARIS, OGS)
2. Zooscan – EcoTaxa pipeline: Taxonomic identification of zooplankton using Zooscan (EMSO ERIC, UPC, Ifremer, MI)
3. Ecosystem monitoring at EMSO sites by video imagery (SU)
4. Oil Spill Detection: Oil spill detection from satellite images (CMCC, OrbitalEOS, UNITN)
5. Flowcam phytoplankton identification: Taxonomic identification of phytoplankton using Flowcam images (VLIZ)

3 Prototypes

Prototype 1

Underwater Noise Identification: Underwater noise identification from acoustic recordings using spectrograms (VLIZ)

Prototype 2

Beach Monitoring: Posidonia oceanica berms and rip-currents detection from beach monitoring systems (SOCIB)

Prototype 3

Freshwater diatoms identification: Identification of freshwater diatoms using microscopic images (UL-LIEC - lead)

Use cases & Prototypes led by domain experts and supported by the iMagine Competence Centre

Best practises and training materials

A competence centre will oversee the best practices developed by the use cases and collect them in ad-hoc documentation for wider distribution. Training materials on the infrastructures will also be available for interested users to explore all options and start experimenting themselves.

START: 01/09/2022
END: 31/08/2025
PROJECT BUDGET: €4,5 M
CONSORTIUM: **25 partners** from Belgium, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Slovakia, Spain, Turkey, the UK.

Visit our website at **imagine-ai.eu**

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