

MarinEye – A prototype for multitrophic oceanic monitoring

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MINISTÉRIO DA AGRICULTURA E DO MAR





MarinEye Goal

Develop an innovative multitrophic autonomous system with adequate sensors and sufficient autonomy and robustness to improve integrated physical-chemical and biological monitoring of the marine environment

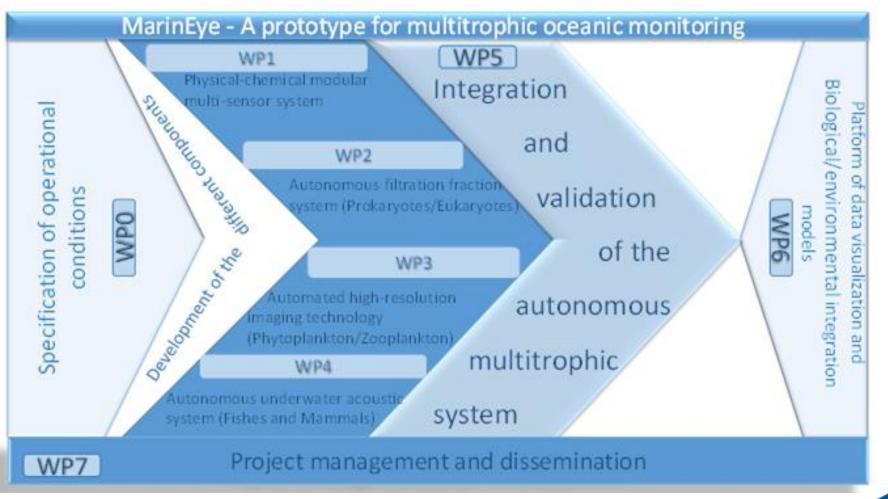


MarinEye concept and approach

Biological Compartments		Autonomous Technology Holistic approach				
Predators	Fish Mammals		Hydroacoustic • Activesonar • Hydrophone	mplementation in fixed and mobile ocean observatories	vironmental	n marine cal functions
1 st Consumers	Zooplankton		Autonomous filtration • 0.8 μm Eukaryotes Image Detection	mobile ocea	l biological and en ocean monitoring	ormation or and biologi
Producers	Phytoplankton (Prokaryotes Eukaryotes)		 Autonomous filtration 0.2 μm Prokaryotes 0.8 μm Eukaryotes Image Detection 	n in fixed and	Synchronized biological and environmental ocean monitoring	Provide essential information on marine systems interactions and biological funct
Biogeochemist	Physical-chemic ry parameters	ca logo	Multi-sensor system Optical sensors	mplementatio Synchre	Provide ecosystems	



MarinEye workflow and organization





MarinEye Team



