

# MarinEye – A prototype for multitrophic oceanic monitoring

#### *PT02\_Aviso4\_0017*



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

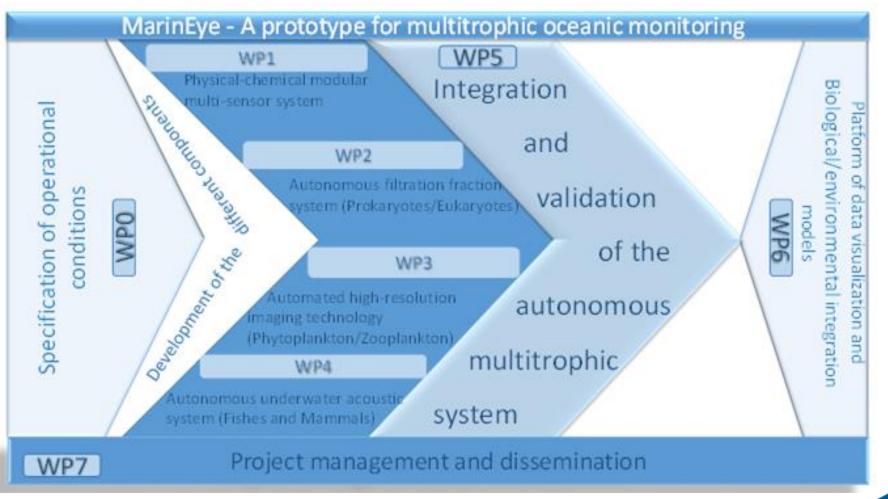


#### MarinEye concept and approach

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 <sup>st</sup> 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)		<ul> <li>Autonomous filtration</li> <li>0.2 μm Prokaryotes</li> <li>0.8 μm Eukaryotes</li> <li>Image Detection</li> </ul>	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



