



Inspired to the experience of Green Bubbles Project

# 4DIVE

(4-Dimensional Immersive Visual Experience)

**Learn, promote, assess underwater heritage**

## WHAT IS IT?

**4Dive** is an innovative Citizen Science program designed for the SCUBA diving sector. Thanks to **4Dive** you can help researchers and scientific community to collect multidimensional environmental data for mapping, monitoring and assessing conditions of the underwater natural and cultural heritage.

The initiative, promoted by UBICA srl ([www.ubicasrl.com](http://www.ubicasrl.com)) in collaboration with DAN Europe ([www.daneurope.org](http://www.daneurope.org)) and Polytechnic University of Marche ([www.univpm.it](http://www.univpm.it)), is creating a shared database of images and 3D models of the seabed and underwater heritages accessible by researchers, diving operators and general public. **4Dive** is one of the outcomes of EU-funded Green Bubbles project, dedicated to sustainable diving.

## HOW DOES IT WORK?

**4Dive** is an innovative mapping tool consisting of a Web portal where divers can upload images of a subject (wrecks, seafloors, marine specimens, anchors or other objects) acquired according to a specific protocol. The portal, connected to our server, will process the images using photogrammetry software and will then return to the users the 3D model of their subject.

## HOW TO PARTICIPATE?

The event will begin with a brief lecture on the basics of underwater photogrammetry, during which you will learn to acquire images exploitable for reconstructing 3D models of wrecks or other underwater subjects. After the field training, you will upload the photos to our Web portal. Our system will then finalize the photogrammetric process and send you the 3D model of your subject.

You don't need to be a professional in underwater photography. You just need to bring your camera or action-cam with you! Marine biologists and professionals with great experience in the field of underwater monitoring and photogrammetry will be at your side to assist you in the learning process.

## WHY TO PARTICIPATE?

**4Dive** is an innovative way to enjoy differently the underwater experience while preserving and promoting the underwater wonders of our seas.

The results and the imagery database will be useful to researchers for mapping habitat distribution, monitoring climate change and collecting visual and structural environmental data. In addition, divers and diving operators may use the 3D models to promote dive sites and their own businesses, to share their experiences, to increase their knowledge and promote awareness regarding the marine environment.

**Join the program and become a 4D Citizen Scientist!!!**

**We are waiting for you at NAUTIC TEAM Diving Center (Marsalforn – GOZO)**

**on August 29th 2018**

**For further information send an e-mail to [info@ubicasrl.com](mailto:info@ubicasrl.com)  
and visit our web site [www.greenbubbles.eu](http://www.greenbubbles.eu)**

**For reservation call NAUTICTEAM Diving Center +356 21 558507  
or send an e-mail to [info@nauticteam.com](mailto:info@nauticteam.com)**

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