UNDERWATER INFORMATION SYSTEMS

SCIENTIFIC DIVING / 3D RECONSTRUCTION

UNDERWATER PHOTO-GRAMMETRY.

Connect underwater imagery with recorded positions to support 3D reconstruction and site documentation.



Wreck orthoimage from the Signilskär field case

FROM IMAGE CAPTURE TO 3D MODEL

01

Plan & capture

Set up UWIS, synchronize the camera and tracking time, and capture overlapping footage or stills. Follow the camera diver and review coverage in UWIS Tracker.

02

Match images to positions

Export the recorded dive data from the UWIS log. Match image or video-frame timestamps to positions and prepare a CSV with coordinates and the vertical reference required for import.

03

Reconstruct & reuse

Import the imagery and CSV into Agisoft Metashape. Use positions as a reference for alignment, scale and georeferencing. A georeferenced orthoimage can be reused as a navigation overlay.

UWIS records the camera diver's track. Image matching and 3D reconstruction take place after the dive.

FIELD CASE / BALTIC SEA



Underwater footage from the wreck survey

Mapping a fragmented wreck at Signilskär

Nautic Club Urheilusukeltajat ry. surveyed the wreck for the Åland Maritime Museum. The team matched UWIS positions to imagery and produced a textured 3D model and an orthoimage in Metashape.

Read the field case Watch the field video

TALK TO UWIS

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