

Archaeological heritage in the North Sea

Development of an efficient assessment methodology and approach towards a sustainable management policy and legal framework in Belgium.



Threats to the UCH within the Belgian part of the North Sea



Commercial activities



Lack of regulations regarding UCH





United Nations Educational, Scientific and Cultural Organization



The Protection of the Underwater Cultural Heritage



Complex state structure in Belgium



Main objectives

1) Technology / Methodology

To develop a reliable survey methodology based on geophysical and remote sensing techniques that allows accurate and cost-effective evaluation of the archaeological potential of marine areas under development (offshore, nearshore, and intertidal areas).

2) Management / Policy

To develop a transparent and sustainable management policy and legal framework in Belgium regarding the marine historic environment.

3) Outreach / Communication

To develop practical guidance towards the stakeholders (marine industry, fisheries, government agencies, harbor authorities, ...), on how to implement the new methodology and management approach, and to increase the general awareness with regards to UCH.

Project Partners









Subcontractors





Stakeholders & Advisory committees

-Government agencies

-Marine Industry (dredging, aggregates, renewable energy...)

-Fisheries

...

-Harbour authorities

-Scientific world

-Public/social sector

Results so far

1) Technology

-Assessment of the geophysical & remote sensing technology (offshore + intertidal)

-Study of the archaeological & geological data

-Selection of test sites

-Survey planning

Selection of testsites



Survey October 2013,

Ostend valley (offshore)

-Wide range of acoustic sources and receivers (single- & multichannel)
-Where possible simultaneously ('one-sweep survey'),
-Gas + gas-free areas
-Emphasis on advanced ('smart') processing

Winter 2013-2014

Nearshore /Intertidal research with focus on

-Integration LIDAR and bathymetry

-S-waves and surface waves (in view of gas-rich sediments)

GIS based Spatial Data Infrastructure



Archaeological, geological, geophysical, remote sensing... data & metadata

Project partners, stakeholders and external parties...

Consult and visualize the available data via a user friendly interface & WebGIS

-Strong tool for scientific research

-Basis of a Decision Support System

(Licensing & monitoring)

Results so far

2) Management

-large scale consultation of all stakeholders.

-Integration of UCH protection into Belgian Marine Spatial Planning

-Find Protocols

Protocols for archaeological discoveries































Results so far

3) Outreach

-Increase general awareness regarding the UCH

(Continues dissemination)

-Lectures, project leaflets, poster, website....-Visiting vessels, wharves, harbours...





www.sea-arch.be