

WP1.1

2nd year activities and results

Objective

DELOS WP 1.1		Workpackage description									
		23.09.2000 Description of Work page 11 EVK3-2000-22038									
Workpackage number :	1.1. Inventory of engineering properties of LCS										
Start date/ event:	Month 0										
Participant codes :	UB	UR3	MOD	AAU	DHI	UCA	UPC	INF	UoS	AUTH	
Person-months per participant:	6	3	3	9	0.5	1	3.5	0.5	2	2	
1 Objectives: The objective is to establish an inventory on physical (engineering) properties of the structures, mainly within EU but not strictly.											
2 Methodology / work description: The format of the inventory will be discussed and decided upon in the start-up meeting, see WP 6.1. The parameters necessary for characterisation of the structures and their performance will be identified according to the following groups: a) geometry and construction materials b) local meteomarine conditions (incl. waves, tide, currents, etc) c) seabed and beach characteristics (incl. sediment size and transport) d) structural performance e) coastal protection performance The data for completion of the inventory will be collected by the partners from the seven EU countries represented in the research proposal. Input comes from the literature and from local and national authorities, scientific institutions, design offices and contractors who has knowledge and experience related to the actual type of structures. Data from other countries will be retrieved solely through literature studies, e.g. from Japan where more than 3,000 structures exist. The inventory data will be organised in a data bank. The activities will be co-ordinated with the model inventories in WP 1.2 and WP 1.3.											
3 Deliverables including cost of deliverable as percentage of total cost of the proposed project. D5: Inventory of engineering properties and a related data bank. The inventory will include statistical information and where possible also explanations and conclusions with respect to observed performances. The results will form an important basis for the more detailed planning of the activities in Research Tasks 2, 3 and 4, and will be directly used in Research Task 5. (cost 2.7 %)											
4 Milestones including incremental cost of the Milestone as percentage of total cost of the proposed project. Month 4: completion of inventory (cost 2.7%)											

The objective is to establish an inventory on physical (engineering) properties of the structures, mainly within EU but not strictly.

- a) geometry and construction materials
- b) local meteomarine conditions (incl. waves, tide, currents, etc)
- c) seabed and beach characteristics (incl. sediment size and transport)
- d) structural performance
- e) coastal protection performance

New attempt to collect additional information

# 1	<ul style="list-style-type: none"> Partners input to Table 1 (wishes for data in statistics concerning <u>brief</u> cases) Selection of sites for further <u>detailed</u> investigation Partners approval of new deadlines 	February 5 th 2002
# 2	AAU will suggest which parameters to be included in the database.	February 11 th 2002
# 3	<ul style="list-style-type: none"> Partners approval of the final subjects in Table 1 	February 20 th 2002
# 4	AAU will forward the new separate (partly empty) databases to each partner.	February 28 th 2002
# 5	<ul style="list-style-type: none"> Completed, corrected and approved <u>brief</u> cases in the new databases. Delivered by partners. Completed <u>detailed</u> descriptions (by partners) 	September 2 nd 2002
# 6	<ul style="list-style-type: none"> New summary and statistics by AAU 	December 2002 (or before 2 nd year meeting)

List of parameters included in brief LCS descriptions

<i>Subject</i>	<i>Parameter</i>	<i>Answer</i>
<i>Coastal protection performance</i>	<i>Whether a general retreat or advance in the shoreline have occurred since the structures were built.</i>	<i>Advance Retreat</i>
	<i>Beach response</i>	<i>No sinuosity Salient formation Tombolo formation</i>
	<i>Is fill placed?</i>	<i>Yes, No</i>
	<i>Problems with down drift erosion?</i>	<i>Yes, No, Don't know</i>
<i>Structural performance</i>	<i>Problems with erosion or instability of slopes?</i>	<i>Yes, No, Don't know</i>
	<i>Problems with local erosion of sea bed/scour?</i>	<i>Yes, No, Don't know</i>
<i>Construction material</i>	<i>Rock type (e.g. concrete blocks)</i>	
	<i>Armour layer stone size D_{n50} [m]</i>	
<i>Beach material</i>	<i>Beach material (e.g. quartzite)</i>	
	<i>Beach material grain size D_{n50} [m]</i>	

New information in inventory

Country	Additional brief info
NL	(not relevant)
UK	√
ES	-
DK	√
GR	√
IT	-
FR	(no more info possible)
Non-EU	(no more info possible)

Additional detailed information about two sites in Spain and one site in Greece

Inventory February 2003

	Holland	U.K.	Spain	Denmark	Greece	Italy	Non EU
Partner	INF	UoS	UPC	DHI	AUTH	MOD/UR3, UB	UCA
Brief descriptions	6	34	28	4	4	18+56	25
Detailed descriptions	0	0*	2	0*	2	4	0

* More detailed descriptions in study site report

Inventory of structures on the French coast (CSIC/CREOCEAN)

Conclusions

- Close the work package for further information.
- Transfer the databank to the project www-page www.delos.unibo.it.