

PROJECT REQUIREMENTS

ORGANIZATION

PROJECT NAME	Robotic Cooperation in Coastal Preservation		
DATE	23/11/2024	AUTHOR	Marília Lyra Bergamo

DOCUMENT CONTROL

VERSION	EDITIONS COMPLETED BY	DATE	EDITION DESCRIPTION
1.0	Marília Lyra Bergamo	23/11/2024	Establishment of project directions

PROJECT

OVERVIEW | Detailed information describing proposed solution, what the project aims to achieve and commercial justification

The project consists of a speculative conceptual design investigation that aims to assess the feasibility of a robotic structure cooperating with the coastal conservation environment in local beach vegetation areas. It also aims to comprehend whether artificial life has an affective or aesthetic value for such a goal.

TECHNICAL REQUIREMENTS

FUNCTIONAL REQUIREMENTS		
ID	DESCRIPTION	COMMENTS
01	Monitoring the situation (canopy) and temperature, wind and soil.	
02	Monitoring insect in polling season	
REPORTING REQUIREMENTS		
ID	DESCRIPTION	COMMENTS
01	(optional) Fugui levels can help to understand the soil.	
SAFETY REQUIREMENTS		
ID	DESCRIPTION	COMMENTS
01	Should regulate with humans' agents.	

FLOW OF TECHNICAL PROCESSES

The technical process must work in a small-world network. A series of points must communicate their current state to others and change the reading focus according to neighbouring nodes. The reading result must be established by a diagram of points and data for each point, which can also present a graph of data changes for the various nodes.

CONSIDERATIONS

Strong reasons for choosing a specific plant

Carpobrotus glaucescens it holds the sand in place
Acacia Longifolia because it spreads and grows into a bush

ADDENDUMS AND ANNEXES

HRE - 10 short interviews.docx
HRE - 10-minute anonymous online survey.docx
HRE - An anonymous 5-minute online exercise .docx
HRE - design focus group.docx
HRE - Participant Info Statement.pdf