



Kick-off Meeting Report

Project title: reduced complexity **modelling** of **barrier island** adaptation to
sea level rise - MOBILE

Project reference: 16266

Operation codes: ALGARVE-FEDER-00742700 & LISBOA2030-FEDER-00742700

July 2025

Meeting Details

Location:	Web meeting through MS-Teams
Date:	July 24, 2025
Time:	16.00 – 16.40
Attendees:	
UAlg-CIMA:	Aikaterini Kompiadou (AK), Susana Costas (SC) & Carlos Loureiro (CL)
FCiências.ID:	Maria Conceição Freitas (MCF) & Rui Taborda (RT)
IPMA:	Teresa Drago (TD) & Tanya Silveira (TS)

Meeting resume

1. Welcome and meeting agenda

AK opened the meeting, welcoming all participants and requesting permission to record the meeting. After receiving the consent of all team members, the meeting started (Figure 1).



Figure 1. Snapshot of the beginning of the meeting. At the right panel, the participant's screens (from top to bottom) show 1) SC, AK and CL from CIMA-UAlg, 2) MCF from FCiências, 3) TD from IPMA, 4) TS from IPMA and 5) RT from FCiências.

The main issues in the meeting agenda included:

- Information on administrative issues and the progress for the researcher contract.
- Presentation of project structure with revised timeline deliverables/milestones.
- Presentation of milestone M2 (project logo and website).
- Determination of next steps.

2. Review of project structure and key objectives

AK made a brief presentation of the project structure and the timeline, revised after the definition and approval of the project Terms of Acceptance from the consortium and the funding programme agencies.

- The presentation (see Annex - meeting presentation) included key dates, project milestones and indicators of project implementation and of outcomes. The members were reminded of the main objectives of each task, the person leading the task leaders and the timings, limestones and deliverables of the project.
- Special attention was given to the deliverables of Task 6 (Dissemination and outreach), with brief discussions on the outreach activities planned for students and stakeholders and the indicators determined at project submission.
- The MOBILE logo and website (<https://cima.ualg.pt/mobile/>) were officially presented to the project members, marking the fulfilment of project milestone M2.
- Administrative issues related to the project and its economic management were also briefly discussed, with information shared on available procedures and guides.
- The members also discussed the student scholarships (bolsas; 3 foreseen in the project) and the allocation of time between participants and within the project duration and its tasks.
- Finally, the members briefly discussed the field data collection and analysis planned within Task 2, with the decisions on details remaining to be finalised in the 2nd project meeting.

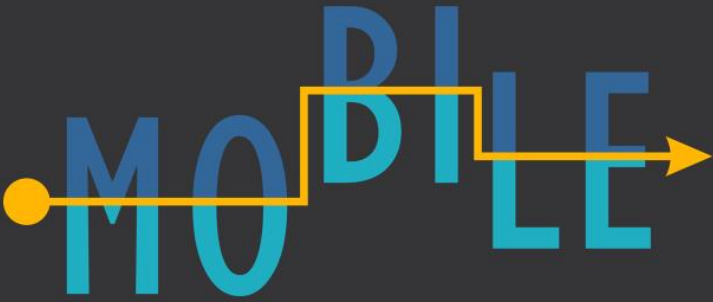
3. Scheduling of next project meeting and closure

All members agreed to hold the next meeting on September 15th, at 09.30 A.M. with the following objectives:

- Work related to Task 1:
 - Share information on researcher contract status.
 - Discuss status of the payment advance.
 - Discuss and plan administrative steps needed to advance the 3 studentships foreseen in the project.
- Progress and planning in Task 2:
 - Discuss the status and next steps for the MOBILE database.
 - Plan and organise the fieldwork for core collection at established backbarrier marshes of the eastern flank in Ria Formosa (determine timings, locations, equipment, etc.).
- Organise preliminary work on Task 3 and determine the need for a focus-group meeting to address specific issues on the RCM formulation and initial testing.

Having concluded the work agenda and the discussions between the team members, the project kick-off meeting (project milestone M1) was therefore determined concluded.

Annex - meeting presentation



reduced complexity modelling of barrier island
adaptation to sea level rise

Kick-off meeting | 24 de julho 2025



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ALGARVE-FEDER-00742700
LISBOA2030-FEDER-00742700



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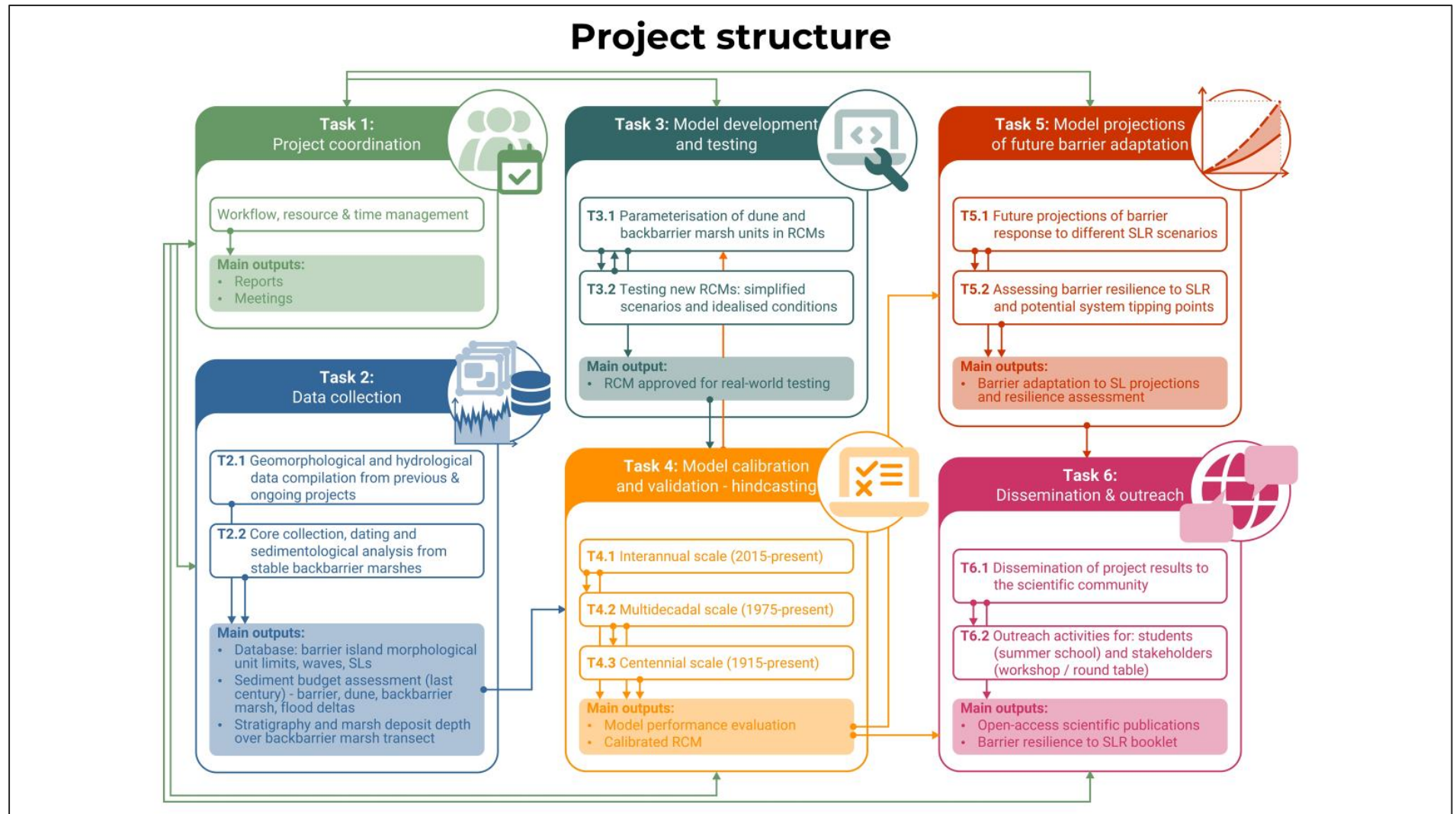
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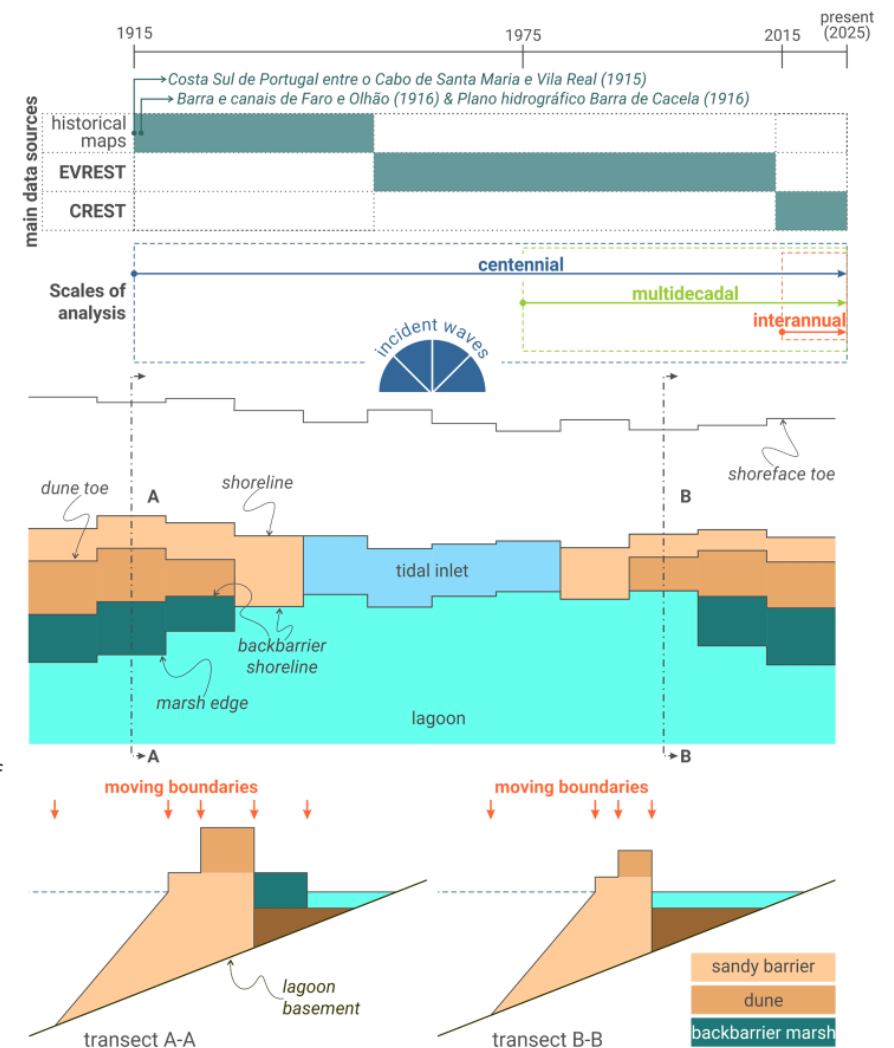


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Tasks

- **Task 2: Data collection** (18M, 07/25-01/27)
 - morphological data: mapped 'boundary lines': beach, dune, marsh, flood deltas
 - hydrodynamic data: waves and SLs from model (e.g., ERA5 and CERA-20C) and in situ data (buoys & tide gauges)
 - sediment data: cores along broad backbarrier marsh platforms
- **Task 3: Model development and testing** (28M, 07/25-11/27)
 - Incorporation of simplified, physics-based approximations for the evolution of new units (dune and backbarrier marsh) and changes to overwash parameterisation.
 - Idealised experiments: test the ability of the RCM to reproduce anticipated morphological changes (i.e., long- and cross-shore growth, coastal retreat, breaching, rollover, and drowning) under controlled and stable forcing conditions and considering simplified initial barrier morphologies.
- **Task 4: Model calibration and validation - hindcasting mode** (23M, 12/25-11/27)
 - simulation periods extended from interannual (T4.1→storm erosion and recovery), to multidecadal (T4.2→adaptation to human interventions) and to centennial (T4.3→naturally evolving barriers and impact of inlet stabilisations) timescales of barrier change.
- **Task 5: Model projections of future barrier adaptation** (12M, 05/27-05/28)
 - 2 emission scenarios (one moderate and one pessimistic: SL and wave projections): assess adaptation to climate change (SLR and storminess), identify critical thresholds and tipping points and test mitigation measures (e.g., nourishments, dune restoration, living shorelines).



Tasks

- **Task 6: Dissemination and outreach** (35M, 08/25-07/28)
 - The **project website** (M2, 09/25), along with other online platforms (e.g. social media of CIMA-UAlg, FCIências.ID and IPMA), will be used to share updates, events, findings and deliverables.
 - Research findings will be published in open-access, peer-reviewed scientific **journals** (at least 3 foreseen) and presented at **national and international conferences** (at least 6 foreseen).
 - The **MOBILE e-booklet** (M5, 05/28), an electronic short publication that will communicate the main results on the future resilience and adaptation of the east Ria Formosa barriers to sea-level rise to the public, will be produced and made available through the project webpage.
 - A **summer school on 'Long-term coastal morphodynamics and modelling'**, directed to PhD and master's students, will be planned for the 3rd year of the project.
 - **Science communication activities with primary and secondary school students** will be organised with the assistance of the Portuguese national network of science dissemination centres (Centros de Ciência Viva) of Faro and Tavira. Educational materials (e.g., infographics and videos) to communicate key project findings and raise awareness will also be prepared and disseminated to the public onsite at the centres of Faro and Tavira (e.g., video projections), via their websites and through the MOBILE webpage.
 - The **final event of MOBILE** (M6; 06/28) will be a workshop where the results from the future simulations and potential mitigation measures (from T5) will be presented and discussed with targeted stakeholders (government agencies such as APA and Parque Natural da Ria Formosa, City Councils of Faro, Olhão and Tavira, interested citizen groups like the Associação de Moradores da Ilha da Culatra, etc.) in the format of a round table discussion. This will provide a platform for dialog and knowledge sharing and will enhance the relevance of the project results to real-world decision-making.
 - In terms of training, three master's student scholarships are foreseen within the project.

Indicators

Indicadores

Indicadores de realização

CÓDIGO	DESIGNAÇÃO	TIPO	REFERÊNCIA	META	
RPO035	Grau de concretização das atividades previstas no projeto	Realização	0 - 0	100 - 2028	✓
RCO07	Organizações de investigação que participam em projetos de investigação conjunta	Realização	0 - 0	3 - 2028	✓

Indicadores de resultados

CÓDIGO	DESIGNAÇÃO	TIPO	REFERÊNCIA	META	
RCR102	Empregos de investigação criados nas entidades apoiadas	Resultado	0 - 0	1 - 2028	✓
RCR06	Pedidos de patente apresentados	Resultado	0 - 0	0 - 0	✓
RCR08	Publicações resultantes de projetos apoiados	Resultado	0 - 0	6 - 2028	✓