

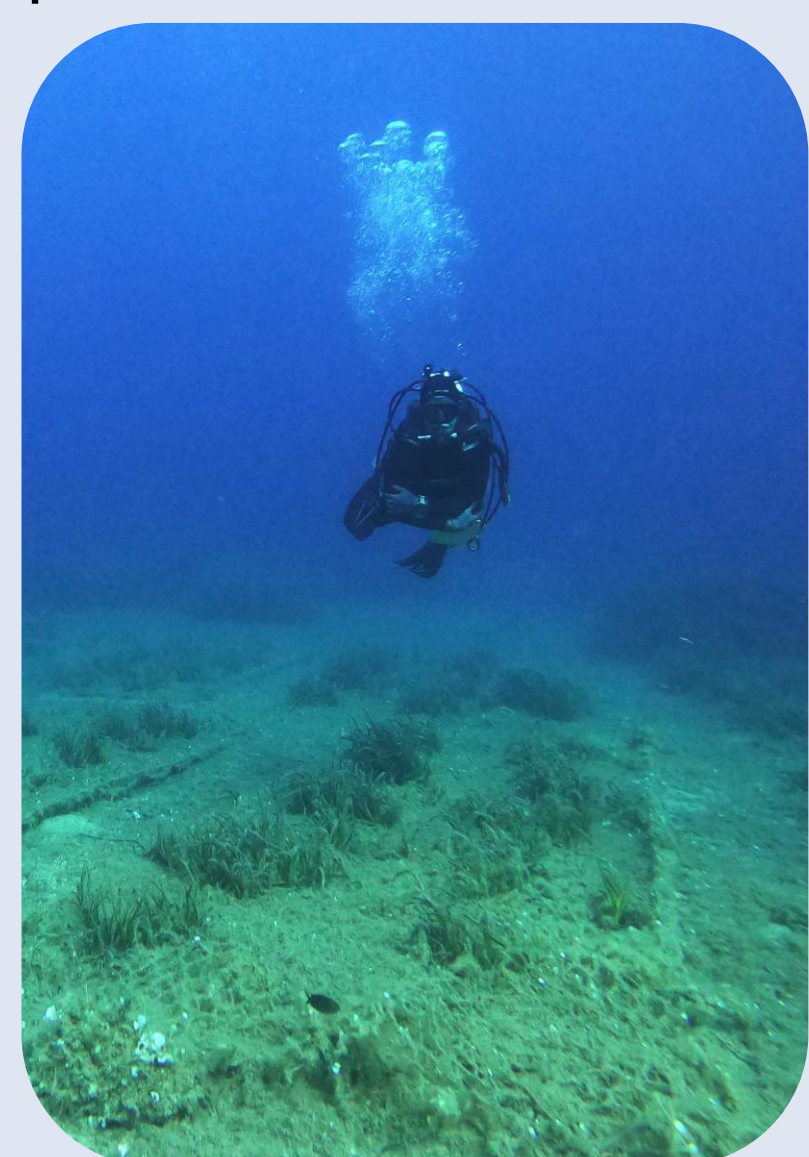
SEAGRASS FOREST RESTORATION IN MEDITERRANEAN IS POSSIBLE: INSIGHT GAINED FROM A META-ANALYSIS

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INTRODUCTION

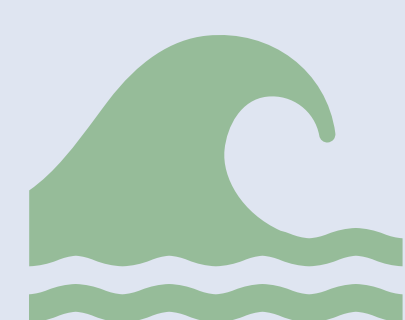
Seagrass restoration represents a global priority to reverse their decline and regain their ecosystem services. Despite that, defining the real effectiveness of restoration actions remains controversial, probably due to the wide selection of procedures that have been experienced mainly on short-term periods and local scales.



What is the effectiveness of *P. oceanica* restoration?

METHODS

A meta-analysis reported the summary of 40 years of scientific on experimental works and active restoration actions of the foundation seagrass *Posidonia oceanica*.



PHYSICAL CHARACTERISTICS OF THE SITES

- Receiving site
 - P. oceanica* previous presence, depth, substrate, stressor, protection
- Donor site
 - depth, stressor
 - Donor-receiving distance, depth

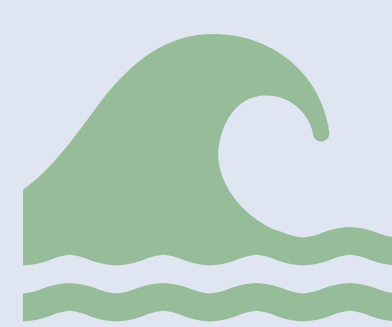
PROCEDURAL CONTEXT OF THE TRANSPLANTING INTERVENTION

- Transplanted area
- Transplanted plant portion
- n° of shoots/plant portion
- Transplant density
- Anchoring technique
- Start of intervention
- Season of intervention
- Monitoring period

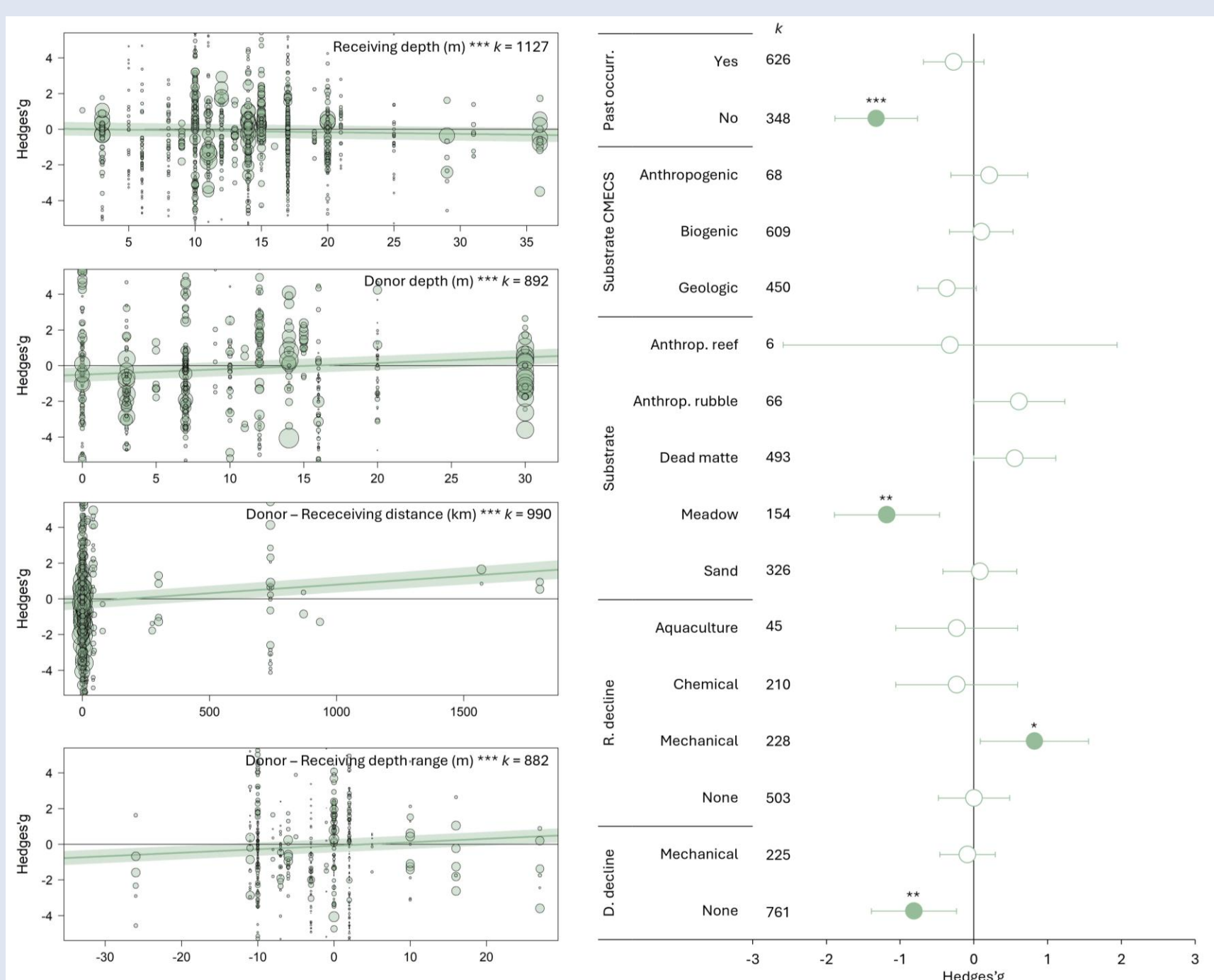
RESTORATION OUTCOME INFORMATION

- CTRL type
- Response variable
- Variable category
- CTRL mean, n, SD
- Transplanted mean, n, SD

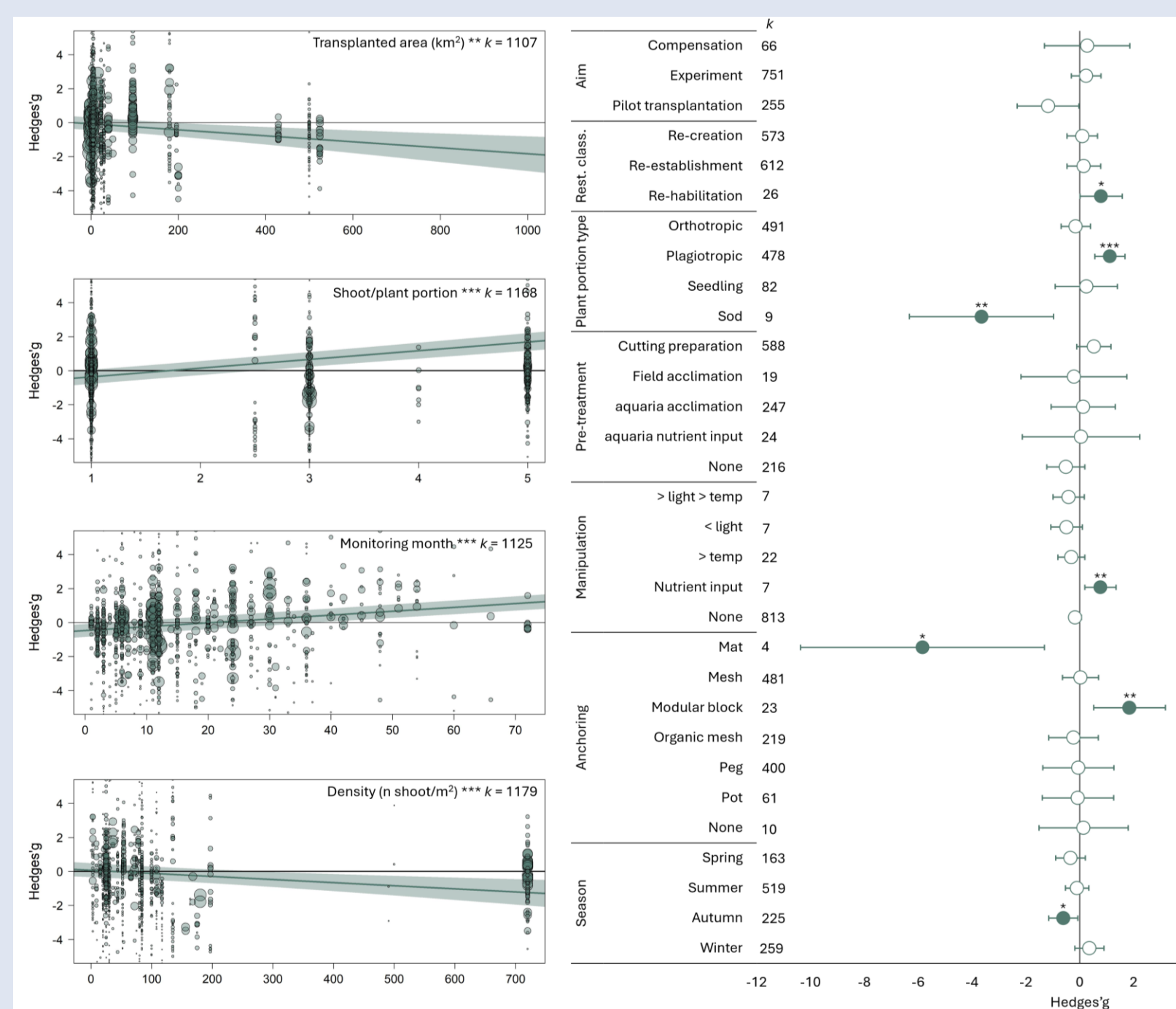
RESULTS



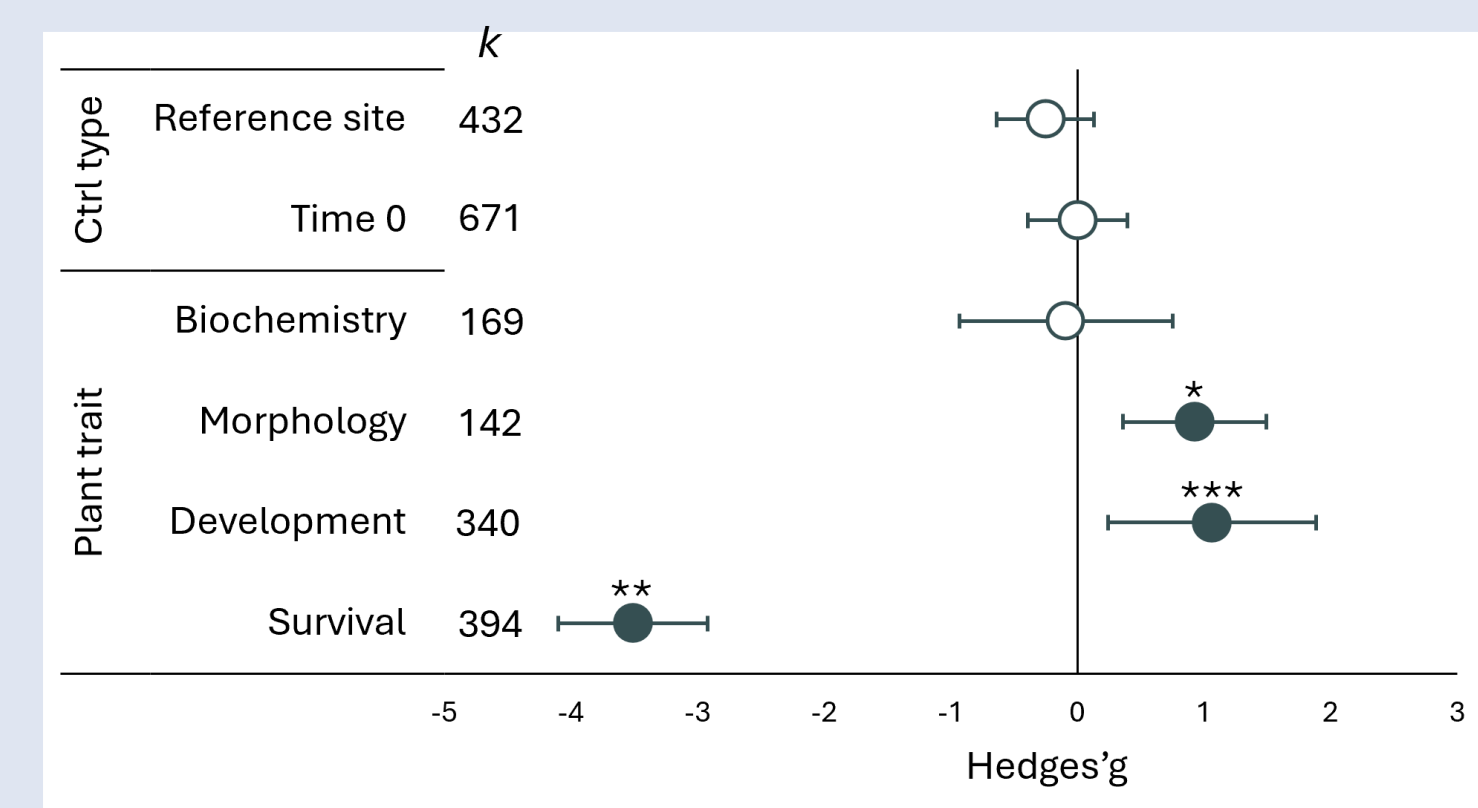
PHYSICAL CHARACTERISTICS OF THE SITES



PROCEDURAL CONTEXT OF THE TRANSPLANTING INTERVENTION



RESTORATION OUTCOME INFORMATION



BEST PRACTICES

- Identify a site where the seagrass previously occurred, transplant plagiotropic cuttings from deeper depths, preferably the drifted ones, using modular anchoring techniques.
- Monitor extensively in space and time, considering several plant traits to define plant performance.

