

BOSKALIS

Royal Boskalis Westminster is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength.

With our committed professionals in engineering, project management and operations, 900 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients in the offshore industry push boundaries and create new horizons.

INTRODUCTION

The Romanian coast along the Black Sea is subject to erosion. Coastal erosion contributes to the loss of particularly valuable lands, loss which can affect coastal ecosystems and bring economic and social damage for such area. Therefore, Water Basin Administration Dobrogea-Littoral has defined the Masterplan "Protection and Restoration of the Coastal Area". The Mamaia area (Lot 2), is one of the 11 lots identified as part of the Reduction of Coastal Erosion Phase II (2014-2020) under this Master Plan. (photo A)

SCOPE OF WORK

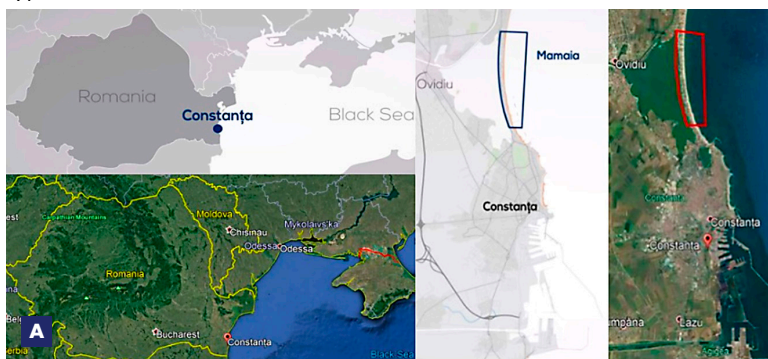
The project area is located between the ports of Constanta and Midia.

The Scope of Works consists of the design and construction of the following elements:

- Extension of a groin by 65 m
- Nourishment over a length of 6,950 m, to create a beach with a width of 100 m

FEATURES

Client	Water Basin Administration Dobrogea-Littoral
Location	Mamaia, Romania
Period	2020 - 2021
Length of costal defense	7 km
Value of the project	40.5 mil Euro
Type of contract	Yellow FIDIC

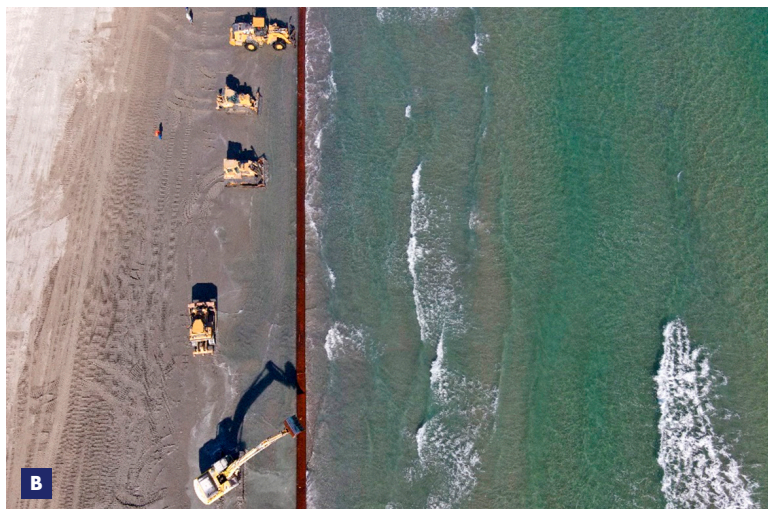


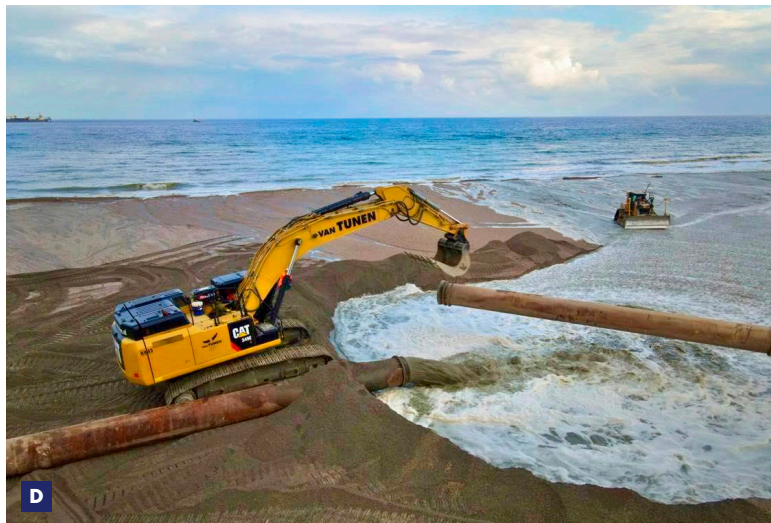
A Project location
B Launching of the sinker line

The design team of Boskalis has used physical and numerical models to design the extension of the groin and the beach, with minimum requirements:

- A lifetime of 50 years
- Average beach width of 100 m
- Warranty period of 13 years

More than 5.000.000 m³ of sand has been pumped ashore by our TSHD Gateway (photo C) through a sinkerline of 2 km (photo B), for 6 months. Despite the COVID 19 difficulties, Boskalis team worked 24/7 and delivered the beach in time, just before the start of the summer season.





- C** TSHD Gateway and Multicat BKM 103
- D** Dry earth moving equipment
- E** Mamaia beach being replenished