

Autonomous Beach Cleaning Vehicle

EFFICIENT AUTONOMOUS PROTOTYPE FOR BEACH WASTE COLLECTION



KEY WORDS

ROBOT,
BEACHES,
ENVIRONMENT

DESCRIPTION

Vehicle designed for efficient and sustainable beach waste collection. Its lightweight and modular structure moves smoothly over sand, operating autonomously using navigation, mechanical, and electronic technologies. It minimizes environmental impact and adapts to changing coastal conditions.

POTENTIAL BENEFITS OR IMPACTS

Promotes ecological maintenance of coastal areas by ensuring clean and safe recreational spaces. Addresses the growing demand for sustainable tech solutions in environmental management, enabling autonomous waste collection without manual labor.

TECHNOLOGY MATURITY LEVEL (TRL)

TRL 3: experimental proof of concept

AREA OF APPLICATION

Plastics
Environment

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