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Interreg Atlantic Area
European Regional Development Fund

EUROPEAN UNION

DURABLE

MAINTENANCE DRONES AND ROBOTS TO ENHANCE RENEWABLE ENERGY SYSTEMS IN THE ATLANTIC AREA

DURABLE will accelerate the deployment of renewable energies in the Atlantic area through the validation and demonstration of previous developed aerospace technologies applied in robotics to operation and maintenance activities in wind and solar energy systems.

- 5 ATLANTIC COUNTRIES
- 3.9 M€ BUDGET
- 13 PARTNERS
- 36 MONTHS (2019-2022)
- 6 ASSOCIATED ENTITIES

DURABLE will identify technologies with potential application to O&M of solar PV and wind energy, adapt them both to navigation/surveillance and maintenance/repair purposes, and finally implement them in two pilot sites for their validation.

Joint mapping of technologies and expected needs

Main aspects that affect O&M in solar and wind energy production and robotic and aerospace technologies with potential application in the target field will be identified.

Adaptation of technologies for navigation and surveillance

Approaches for control and surveillance such as non-destructive testing (NDT) by robots (UAVs or UGVs), contact inspection (ultrasonic, thermographic), autonomous and intelligent navigation will be applied.

Navigation and surveillance

Maintenance and repair

- Unmanned Aerial Vehicle (UAV)
- Nondestructive Testing (NDT)
- Additive Manufacturing (AM)
- Unmanned Ground vehicle (UGV)
- Augmented Reality (AR) and Virtual Reality (VR)
- Automated composites repair technology

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Demos

The project will demonstrate the implementation feasibility of these pilots´ innovative solutions in at least 3-4 regions thanks to transnational cooperation.

13 partners from 5 atlantic countries are joining forces to transfer previous developed aerospace technologies applied in robotics for operation and maintenance activities to wind and solar energy systems.

PARTNERS

ESTIA INSTITUTE OF TECHNOLOGY

ALERION

CATEC ADVANCED CENTER FOR AEROSPACE TECHNOLOGIES

Cluster Energía BASQUE ENERGY CLUSTER

c+t=a^n Corporación Tecnológica de Andalucía

DCU

edp

IK4 LORTEK Research Alliance

Ingeteam

TÉCNICO LISBOA

UNIVERSIDAD DE SEVILLA

UWE Bristol University of the West of England

VALEMO exploitation & maintenance EnR

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