DEEPFIELD

DEEP LEARNING IN FIELD ROBOTICS: FROM CONCEPTUALIZATION TOWARDS IMPLEMENTATION

INESCTEC

Universitat de Girona

HERIOT WATT UNIVERSITY

POLITECNICO MILANO 1863

DEEPFIELD
DEEP LEARNING IN FIELD ROBOTICS

AIM

INESC TEC wants to explore research in deep-learning for field robotics applications following the trend in Europe Industry 4.0. For addressing these challenges, core competencies in deep-learning robotics applications need to be acquired and develop from a new scientific and technological perspective. Robotics research areas of interest such as: autonomous underwater intervention, underwater scene understanding, semantic mapping, multi-robot cooperation and aerial mapping, can benefit tremendously from deep-learning research by bringing a new approach and fresh perspective on how to solve some of the problems in this type of robotic applications.

The implementation of the DEEPFIELD concept will be done by means of two complementary set of coordination and support activities with the aim of contributing to the two ultimate **goals** of this twinning action: 1) raise the scientific knowledge of INESC TEC researchers in key areas of deep-learning in field robotics; 2) improve the INESC TEC researcher profile in deep-learning applied to field applications.

DEEPFIELD project will also contribute to extend INESC TEC networking capabilities through the partners' contacts and scientific meetings with the key players in the market.

START DATE OCTOBER 2019
END DATE SEPTEMBER 2022

PARTNERS
INESC TEC (Portugal) **/** Heriot-Watt University (United Kingdom) **/** Max Planck Society (Germany) **/** Politecnico di Milano (Italy) **/** Universitat de Girona (Spain)

BUDGET
~800K

INESCTEC