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OpenDR



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OpenDR H2020
Research Project



OpenDR

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Consortium

The OpenDR consortium consists of five top-ranked academic and research institutes: Aristotle University of Thessaloniki (Greece), Tampere University (Finland), Aarhus University (Denmark), Delft University of Technology (Netherlands), University of Freiburg (Germany) and three leading industry partners: CYBERBOTICS (Switzerland), PAL Robotics (Spain) and Agointelli (Denmark).



ARISTOTLE
UNIVERSITY
OF THESSALONIKI



Tampere University



AARHUS UNIVERSITY



TU Delft

AGROINTELLI

PAL
ROBOTICS

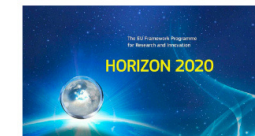


CYBERBOTICS
professional mobile robot simulation

Deep
open Robotics

Open Deep Learning toolkit for Robotics

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This project has received funding from the Horizon 2020 program under grant agreement No. 871449. The content of this brochure reflects only the author's view. The European Commission is not responsible for any use that may be made of the information it contains.

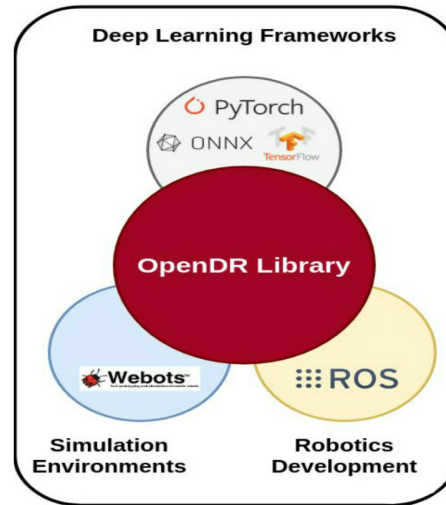
OpenDR

OpenDR aims to develop a modular, open and non-proprietary toolkit for core robotic functionalities by harnessing deep learning so as to provide advanced perception and cognition capabilities, meeting in this way the general requirements of robotics applications in the areas of healthcare, agri-food and agile production.

The OpenDR toolkit will contain easy to train and deploy real-time, lightweight Robot Operation System (ROS) compliant deep learning models for robotics.

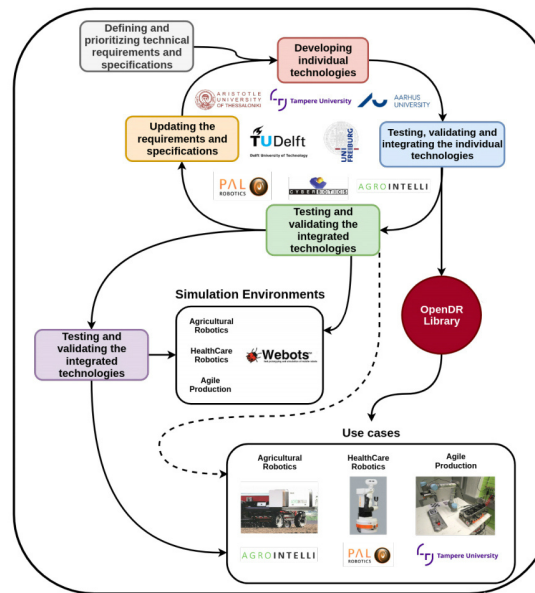
The project will propose, design, train and deploy models that go beyond static computer vision, towards real-time active robot perception on high-resolution data, providing deep human-centric and environment active robot perception as well as enhanced robot navigation, action and manipulation capabilities

OpenDR Toolkit



Robotic autonomy will be enhanced by exploiting lightweight deep learning for deployment on robots and devices with limited computational resources.

OpenDR Development and Validation Circle



OpenDR is expected to improve the technical capabilities in robotics beyond the current state of the art by providing easily deployable, efficient and novel DL tools.

The project will also enable a greater range of robotics applications that can be demonstrated at TLR3 and above, thus lowering the technical barriers within the prioritized application areas and strengthen the competitiveness of companies by lowering the cost to access robotics-oriented DL tools.

OpenDR at a glance!