



## **OpenDR**

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### **Open Deep Learning Toolkit for Robotics**

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Lead contractor: Aristotle University of Thessaloniki

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<b>Authors:</b>	Anastasios Tefas, Nikos Nikolaidis	
<b>Lead Beneficiary:</b>	AUTH (Aristotle University of Thessaloniki)	
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## Document History

<b>Version</b>	<b>Date</b>	<b>Reason of change</b>
1.0	17/1/2020	First complete draft
2.0	19/2/2020	Final draft for internal review
2.1	21/2/2020	Revised version including internal reviewer's comments
2.2	24/2/2020	Final draft to be circulated
3.0	27/2/2020	Final version to be submitted to the EU



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# Executive Summary

This document contains the 1st Project Press Release of the OpenDR project.



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# 1. Introduction

This document contains the 1st Project Press Release of the OpenDR project. The press release, which provides an overview of the project aims and expected impact, as well as brief information regarding the project partners and the project social media channels, is provided in Section 2. This press release was submitted (in Greek) to the Press Office of Aristotle University of Thessaloniki for dissemination through its communication channels and it has already appeared in more than 10 Greek media. The press release was also disseminated through OpenDR's web site (<https://opendr.eu/press-release>), as well as using the social media of the project (Facebook, Twitter, LinkedIn). All OpenDR partners will further disseminate this press release by using their communication channels and making the appropriate adjustments (e.g., translating the press release to other languages and revising the content to reach the intended audience), when necessary.



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## 2. Press Release



Thessaloniki (Greece) February 2020 – OpenDR “Open Deep Learning for Robotics Toolkit”, is a new EU 2020 Project which was launched on January 2020 and aims to develop a modular, open and non-proprietary toolkit for core robotic functionalities by harnessing deep learning 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 project is coordinated by Prof. Anastasios Tefas at Aristotle University of Thessaloniki in Greece. It will be running throughout the period of January 2020 to December 2022. In total there are 8 partners from 7 different countries participating in the project.

OpenDR will enable real-time robotic visual perception on high-resolution data and enhance the robotic autonomy exploiting lightweight deep learning for deployment on robots and devices with limited computational resources. In addition, it aims to propose, design, train and deploy models that go beyond static computer vision, towards active robot perception, providing deep human-centric and environment active robot perception, as well as enhanced robot navigation, action and manipulation capabilities.

OpenDR’s expected impact is to improve the technical capabilities in robotics by providing easily deployable, efficient and novel Deep Learning tools, as well as to lower the technical barriers by providing a modular and open platform for developing Deep Learning for Robotics tools. Concerning industry, OpenDR’s expected impact is to enable a greater range of applications in agri-food, healthcare robotics and agile production, as well as to strengthen the competitiveness of companies by lowering the cost to access robotics-oriented Deep Learning tools.

The OpenDR consortium consists of 5 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 3 leading industry partners: CYBERBOTICS (Switzerland), PAL Robotics (Spain) and AgroIntelli (Denmark).

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For more information visit OpenDR’s website: [www.opendr.eu](http://www.opendr.eu) or contact the project coordinator, Prof. A. Tefas (tefas@csd.auth.gr)

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