

# Inclusive Robotics for a better Society



D6.5: 3rd documentary video on interactive robotics applications and impacts

Version 1.2

27.05.2021



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## DOCUMENT HISTORY

<b>HISTORY OF CHANGES</b>			
<b>Version</b>	<b>Date</b>	<b>Modified by</b>	<b>Change</b>
1.0	24.05.2021	Garbiñe González	Initial version
1.1	27.05.2021	Pilar Raya	Review and some changes suggestion
1.2	27.05.2021	Garbiñe González	Final version

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# 1. Context

## 1.1. Communication strategy of INBOTS

This third documentary is part of the project's communication strategy, presented in detail in Deliverable D7.3. The overall objective of this strategy is to make sure that results from the INBOTS project reach relevant stakeholders and the general public, as well as to ensure its sustainability beyond the duration of the project.

Within the mentioned strategy, the three documentaries (one for each year of the project's development) should depict the current state-of-the-art of interactive robotics and its impacts on society, and are aimed at raising awareness among the general public about interactive robotics.

One of the key problems identified in the project is, in turn, its value proposition: INBOTS will stand out by overcoming the lack of clear understanding and communication between all involved stakeholders, and by creating a community hub capable of bringing together experts to debate and create a responsible research and innovation paradigm for robotics. This objective is present in both documentaries.

## 1.2. 1<sup>st</sup> and 2<sup>nd</sup> documentary videos

This 3rd documentary video on interactive robotics applications and impacts of the INBOTS Project is a complementary continuation of the first and second documentaries (Deliverables [D6.3](#) and [D6.4](#)).

In the first documentary, an industrial aesthetic was utilized in order to present the project's objectives mainly through messages from members of the consortium. Thanks to the use of chroma, images of CSA meetings, shots of the different partners and fragments of text alluding to the problems dealt with in the project's different work packages were projected on the background.



The second documentary was focused on two general objectives for the project. On the one hand, it sought to establish a working synergy between external stakeholders in Interactive Robotics in Europe, filming their experiences and learning about related projects they are involved in (raising first-hand awareness on the INBOTS project, as well). On the other hand, the format moved away from the classic industrial aesthetic to draw closer to a different aesthetic, one inspired by

research documentaries and film styles that strive to have a deep effect on end users and the general public.

The main objectives met in this two works were to increase awareness about INBOTS, and also on the consortium members, for the primary and secondary target groups identified in Deliverable D7.3.

## 2. 3rd Documentary video

### 2.1. Introduction



The aim of this third documentary is to present the main conclusions of the INBOTS final white papers and to present the state of the art of the interactive robotics. To do so, we interviewed the leaders of the work packages related to the six INBOTS areas of expertise: entrepreneurship and non-technical support to SMEs, debate on legal, ethics and socio-

economic aspects, accessible and multidisciplinary education programs, standardization and benchmarking, regulation and risk management framework and societal and socio-economic uptake.

Due to the pandemic situation, we have changed the format of interviews and events used in the two previous documentaries. For this documentary, we have set up an online panel discussion around a series of questions. To do so, we brought together, via TEAMS, the leaders of the main activities of INBOTS and recorded their interventions in the panel discussion.

### 2.2. Concept

The questions asked in the documentary are based on the current robotics roadmaps in Europe and the research work carried out at INBOTS. The intention is to show the current state of robotics and the needs to be addressed in the future, following the analyses and studies carried out in the project.



The questions asked in the panel discussion are the following:

1. INBOTS supports the current efforts of technology road mapping in robotics in Europe such as the Robotics Strategic Research Agenda and Multi-Annual Roadmap. According to this Roadmaps the market domains most impacted by robotics technology are manufacturing, healthcare, agriculture, civil, commercial, transport and logistics and consumer robots.  
Does this domain organisation and the specified domains fit with the current state of robotics? Which ones should be considered in the new technology road mapping in robotics?
2. In the current roadmap we find the aerospace sector as a sub-domain within manufacturing. Do you consider that such important and strategic sectors for R&D are being neglected in this roadmap?
3. Regarding the main operating environments for robotic technology, the MAR sets out five: on the ground, in the air, on/under water, in space and on/inside the human body. Do you consider them enough? Do this operating environment facilitate standardisation and benchmarking?
4. Continuing with standardisation. Which are the main gaps that you've identified in the current regulatory framework, existing standards and benchmarking approaches for Interactive Robotics? Do you think that a common regulatory framework would be more useful than having different frameworks for the different domains? Please explain
5. Landing to the market, which sectors involve interactive robotics and what is the impact of interactive robotics on the labour market? What measures need to be taken in the short and medium term to adapt labor market to interactive robotics?
6. One issue to consider in relation to the adoption of interactive robotics in working and non-working life is the skills and knowledge that these technologies require in order to take full advantage of their functionalities. Robotics education is a key aspect to consider, what progress has been made so far in this area and what remains to be addressed?
7. On interactive robotics and its inclusion in society and in the public sector. What is the main trend and what are the main challenges?
8. The AI, Data and Robotics Partnership is one of 46 public-private partnerships proposed in the upcoming Horizon Europe Programme. It seems that the trend is for robotics to be a sub-discipline of AI, what is your opinion on this?

## 2.2. Objectives

1. To outline the progress made by INBOTS in its different areas: standardisation, entrepreneurship and business, legal and ethics, education and society, to address the next steps that can be taken after the end of the project, in order to enhance all that has been achieved so far.
2. To analyse the current state of the art in interactive robotics and to outline the next steps to effectively address the challenges of the future of robotics.
3. To convey to the general public in Europe the importance of interactive robotics for the development of society.

## 2.3. Panel Discussion

The round table was moderated by the actual responsible for the communication activities of the INBOTS project and had 8 participants in total: the project coordinator and the leaders (and/or team members) of the work packages 1,2,3,4,5 and 6.

### 2.3.1. Participants

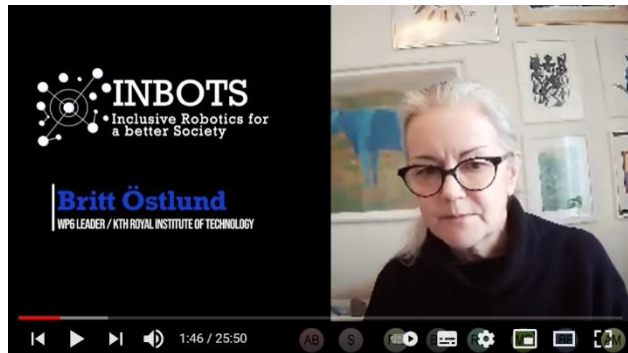
Work Package	Name	Organization
Project Coordinator	Juan C. Moreno	The Spanish National Research Council (CSIC)
WP6 leader	Britt Östlund	Royal Institute of Technology (KTH)
WP5 leader	Andrea Bertolini	Sant'Anna School of Advanced Studies (SSSA)
WP5 participant	Enrico Bonadio	The City University of London
WP1 leader	Roberto Conti	Founding Partner of IUVO
WP4 leader	Saskia Maresch	German Institute for Standardisation (DIN)
WP2 leader	Amparo Grau	Complutense University of Madrid (UCM)
WP3 participant	Maria Pozzi	University of Siena (UNISI)

## 3. Results

### 3.1. Present status

The documentary has been finished and it will be launched in June. It lasts 25 minutes and it has been uploaded at the INBOTS Youtube channel:

<https://youtu.be/ZJIY6cmwEVg>



### 3.2. Final launch

The launching of the final version of the documentary will be on June on the consortium's YouTube channel, as a perfect closing of the INBOTS project. Given that the documentary wants to arrive to the general public, it will be subtitled in English. Communication activities has been designed and will be promoted in order to spread the documentary to the relevant stakeholders and general public.