Inclusive Robotics for a better Society

D7.5: Final report on communication, dissemination and exploitation activities

Version 2.0

07.07.2021

This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 780073

DOCUMENT HISTORY

HISTORY OF CHANGES			
Version	**Date**	**Modified by**	**Change**
1.0	27.06.2021	Garbiñe González	Initial version
1.1	05.07.2021	Pilar Raya	Revision and suggestion of changes
1.2	06.07.2021	Garbiñe González	Revision and changes adaptation
1.3	07.07.2021	Pilar Raya	Final Revision
2.0	07.07.2021	Garbiñe González	Final Version

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1. Executive Summary

This document is the **Deliverable 7.5 Final Report on Communication, Dissemination and Exploitation activities** of the Work Package 7 - ORGANIZE DISSEMINATION & ROBOTICS COMMUNITY OUTREACH ACTIVITIES of the project **Inclusive Robotics for a better Society** funded by the European Commission under the H2020-ICT- 28-2017 Robotics Competition, coordination and support topic under the grant agreement no. 780073.

In accordance with the H2020 Online Manual[1], INBOTS must communicate and promote the project and its results, "providing targeted information to multiple audiences, in a strategic and effective manner and possibly engaging in a two-way exchange". In addition, INBOTS project is a Coordination and Support Action (CSA), where communication activities are one of the main tasks that must be undertaken.

1.1. INBOTS communication, dissemination and exploitation

This deliverable summarises the communication, dissemination and exploitation activities carried out in INBOTS, following the strategy detailed in deliverables D7.3 Communication Plan, and D7.4 Plan for Exploitation and Dissemination of Results.

INBOTS is a project that arises from the need of the European Commission to increase the acceptance of Interactive Robots by society, for which it is necessary to create a legal, business and societal environment in which researchers and developers of this type of technology are able to build new technological solutions adapted to a market ready to integrate them and meet all the legal and functional requirements that different sectors of society demand.

To achieve this, it was necessary to develop an extensive communication and dissemination strategy highlighting the benefits of this technology to overcome the lack of a clear understanding and communication between all the involved stakeholders.

In this context, the Work Package 7 (WP7) of INBOTS aimed to **establish a framework that allows the widest outreach of information about Interactive Robotics** (IRs) through communication and dissemination activities. **WP7 has been focused on presenting the project progress** to the end users and general public, increasing the awareness of the project-related subjects among the interested stakeholders, synchronising communication and dissemination plans within partner's institutions, disseminating the INBOTS project related information regarding its objectives, course of execution and results, sharing project results with the scientific community, supporting the best information flow between the consortium partners and clustering with relevant EU and international programmes and initiatives in order to **promote the CSA outcomes and receive useful inputs** from other relevant stakeholders.

[1]http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/communication_en.htm

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2. Objectives

The main communication, dissemination, and exploitation objective within INBOTS is to ensure the **outreach of INBOTS results** among relevant stakeholders and general public, as well as ensuring its sustainability beyond the runtime of the project.

INBOTS has worked on the basis of a Communication Plan and an Exploitation and Dissemination Plan defined at the beginning of the project to i) ensure that INBOTS generates the greatest possible impact on the environment in which it operates and on society as a whole, and ii) ensure that the results of the project provide a solid basis to continue working in the future to better incorporate Interactive Robotics into everyday life.

To ensure the best visibility of the project and to increase its impact and outreach, INBOTS has undertaken the following activities:

1. Create a visible and distinguishable **visual identity** of the project to make it easily recognisable in a way that all the communicative actions undertaken during the project are traceable.
2. Deploy a **media planning** to ensure that all the milestones of the project have an accurate broadcasting and reach the targeted audience having the expected impact.
3. Make an intense **follow-up** of the communication and dissemination plan deployment, ensuring its correct working and making the necessary corrections when needed.
4. **Lay out the communication and dissemination activities** among all the partners to ensure a correct deployment of the strategy.
5. **Coordinate with external stakeholders**, such as related projects, institutions and media to ensure a high outreach of the communication activities.

CSIC leaded the 'dissemination and exploitation of results' activities based on the Plan for Dissemination and Exploitation of Results, supported by INNCOME as WP7 leader. INNCOME leaded the communication activities, based on the Communication Plan.

At the same time, all partners took part in both actions with contributions and suggestions. The communication and dissemination activities and the responsibilities of each partner are defined in Table 1:

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DISSEMINATION ACTIVITIES	INNCOME	WP7 Leader: CSIC	WP1 Leader: IUVO	WP2 Leader: UCM	WP3 Leader: UNISI	WP4 Leader: DIN	WP5 Leader: SSSA	WP6 Leader: KTH	Left Partners
Website									
Upgrade and management	C	L							
Contents and deliverables	C	L	ALL PARTNERS COMMITTED TO THE TASK						
Newsletter									
Content	L	They will be asked to provide content and dinamize							
Dissemination	L	ALL PARTNERS COMMITTED TO THE TASK							
Social networks									
Project social networks	L								
Partners owned social networks	L	ALL PARTNERS COMMITTED TO THE TASK							
Videos, Printed & Digital materials									
Production of printed and digital materials in support of specific project activities	C	L							
Production of video to promote INBOTS	C	L	They will be asked to provide content and dinamize						
Publications									
Publications in specialized journals, magazines or newsletters		L	ALL PARTNERS COMMITTED TO THE TASK						
Publications in owned media	L	ALL PARTNERS COMMITTED TO THE TASK							
Owned Events									
INBOTS Conference	C	L	ALL PARTNERS COMMITTED TO THE TASK						
Planning and organization of Workshops	C	L	ALL PARTNERS COMMITTED TO THE TASK						
Promote and assistence to project events	C	L	ALL PARTNERS COMMITTED TO THE TASK						
Organize INBOTS final event	C	L	ALL PARTNERS COMMITTED TO THE TASK						
External events									
Disseminate project results in expecialized events	C	L	C	C	C	C	C	C	C
Promote networking and cooperation with other on-going projects	C	L	C	C	C	C	C	C	C
Assesment and Strategy Revision									
Monitoring of the project dissemination activities	L	C							
Revision of the project dissemination activities	L	C							

Table 1 Dissemination activities and roles distribution (L: Leader, C: Contributor)

3. INBOTS communication activities

3.1. Communication channels, tools and activities

INBOTS results have been disseminated through various channels outside the consortium in order to reach the targeted audiences, considering, for each audience, the best media planning.

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3.1.1. Visual identity

A detailed Communication Plan and the INBOTS project Visual Identity and style were developed during the first months of the project.
The communication plan describes the main communication actions and the best use of the INBOTS communication tools. The project Visual Identity and style document, which includes the INBOTS graphic charter, define the unique identity of the INBOTS project (logo, colours and writing style).
Following the project identity and style throughout the project communication activities ensured that the INBOTS actions are immediately recognisable by its audience.

3.1.1.1. Logo

We have developed a trademark specially for this project where we assembly the project name, it's purpose and an iconic representation that refers to the moving and collaborative network that we want to create with this project.

For the identification of the project on social media, we have created a combination of the project logo with the mandatory requirement to announce the public funding nature of this project with EU funds:

3.1.1.2. Typography

The selected typography for this project has been 'Tahoma', a very extended typography that is easily legible, mostly on computers.

3.1.1.3. Colours

We have selected a frame of pastel colours that goes from purple to green. The reason why we have made these pastel colours is because they are more delicate and soft, what makes turquoise colour less aggressive,

- SlateBlue: it represents creativity
- SteelBlue: anima a la comunicación y a la sensibilidad, algo que en principio no se asocia con los robots
- MediumAquamarine: se asocia con la naturaleza y la ecología, al crecimiento y el cuidado

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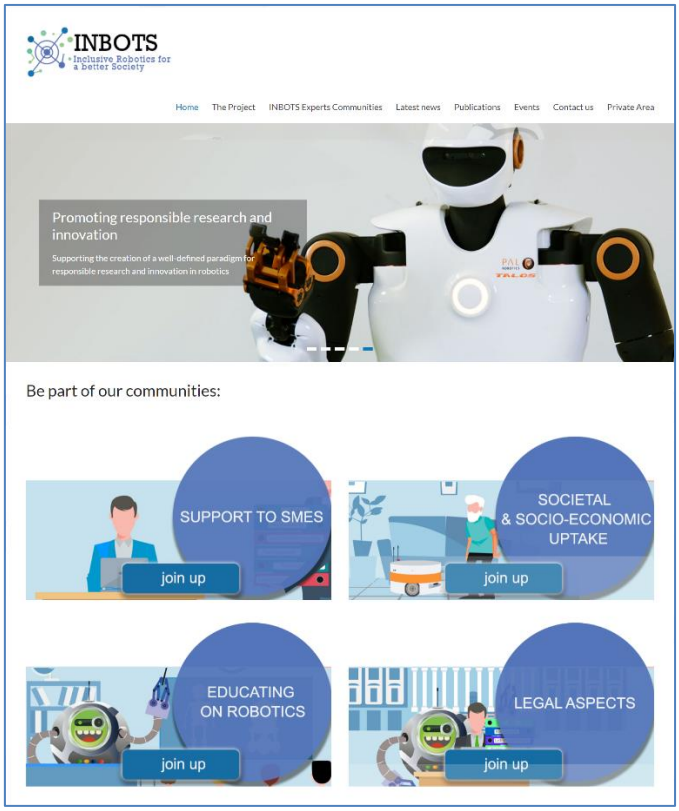
3.1.2. Website

The INBOTS website (www.inbots.eu) has been developed in order to reach all audiences, although a greater number of visits is expected from those groups that are more technical and related to the subject matter of the project. The main communication objectives of the INBOTS website are:



- To provide relevant and current information to a wide audience.
- To ensure information is provided in an accessible and usable manner.
- To be a common documentation base for all the partners, containing the main project documentation and deliverables.
- To be an information database of all the activities and deliverables carried out by INBOTS project and its partners.

The web is divided in the following main sections:

- Home page: It is a welcome centre for the project partners and the general public.
- The Project: it introduces the Project and outlines: general project information, including project need and purpose, project objectives and methodology used. As a subdomain it contains The Consortium, with a list of the Partners and links to their webs, and Synergies, with a list of related projects and links to each one of them.
- INBOTS Experts Communities. It is a general page where are linked all the INBOTS communities: Support to SMEs, Educating on Robotics, Societal & Socio-economic uptake, Legal Aspects.
- Latest news: the main outcomes and activities developed in the project are listed here, with a link to a detailed description.
- Publications:
- Events: it provides an overview of the planned activities.
- Contact: The idea behind this contact page is to provide only a small contact form, but give visitors the chance to connect.

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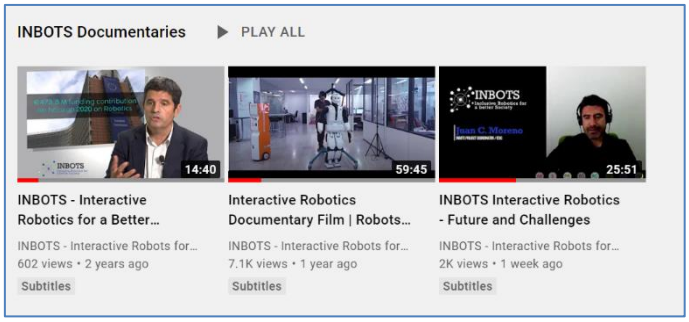
- Private Area: it links to the website intranet that has been developed for internal communication between consortium members to share documents regarding general information of the project, project meetings, progress reports of work packages and documents related to the periodic reports.

3.1.3. Brochure

A general brochure has been created to facilitate the explanation of INBOTS purpose and its opportunities. This brochure was designed to be able to be printed also as a billboard. This document has been distributed in conferences, workshops and other events.

There has been created also other brochures to communicate the INBOTS Conference.

3.1.4. Documentary videos



Three documentaries (one per year) describing the current state of art of interactive robotics and its impacts in society have been produced as part of WP6 outcomes (D6.3, D6.4 and D6.5). They aimed to rise general public awareness about interactive robotics.

They are uploaded in the INBOTS YouTube channel:

- INBOTS Interactive Robotics - Future and Challenges: https://youtu.be/ZJIY6cmwEVg (3rd documentary)
- Interactive Robotics Documentary Film | Robots are leaving the factories; will we be ready? https://youtu.be/h0QjNC8XQ1U (2nd documentary)
- INBOTS - Interactive Robotics for a Better Society: https://youtu.be/Nt4qwcVc1o8 (1st documentary)

More audio-visual materials have been created for communication actions. Such as:

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- the project presentation video:

  - INBOTS Inclusive Robotics for a better society: https://youtu.be/zbHrRujhetw

- the series of interviews with experts on the impact of Interactive Robotics on the Covid-19 crisis.

  - How Interactive Robotics can help in the protection against new pandemic: https://youtu.be/99j8LopS1ew
  - Our Partner TECNALIA shows how they have adapted their technology to fight Covid 19: https://youtu.be/D7s2bUtGp4c
  - Interactive robots can easily be adapted to assist humans during COVID19 crisis like PAL Robotics: https://youtu.be/KrGUNfcVhrM
  - Will Covid 19 contribute to the acceptance of Interactive Robots?: https://youtu.be/U-tNYmNJkTA
  - How can children keep learning about robotics during COVID19 pandemic lockdown: https://youtu.be/WzytK9s0NR4
  - Interactive Robots & AI might help elderly people during Covid19 lockdown: https://youtu.be/B4KOTdHfdhU

3.1.5. Newsletters

Each quarter (from M4) an external newsletter has been sent to present the latest results of the projects, success stories, news from the partners, upcoming events, events where project consortium members assist, etc.

There have been sent 20 newsletters during the project lifetime: in addition to those sent every 4 months, special newsletters have been created to invite to specific events, such as the INBOTS conferences or to invite to participate in the LinkedIn group, "Robotics Uptake - The Community for Inclusive Robotics".

3.1.6. Releases and articles

The major achievements and milestones of the project have been released and published in the project website and delivered to mass media around Europe.

List of publications in different digital media:

Table 2 Publication in digital media

Date	Media	Format	Link
15/01/2018	company web	Web reference	http://edumotiva.eu/edumotiva/?page_id=28
18/01/2018	Tribuna Complutense	Interview	http://www.tribuna.ucm.es/43/art3077.php#.WmcCzUle6UI
19/01/2018	company blog	Disseminative publication	http://blog.pal-robotics.com/blog/inbots-building-bridges-between-robots-businesses-and-society-inbots/
02/02/2018	company web	Disseminative publication	http://www.pkf-attest.es/hemeroteca/pkf-attest-inncome-acude-mano-csic-al-lanzamiento-dos-proyectos-europeos-en-bruselas

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02/02/2018	company blog	Interview	http://www.d-bruselas.csic.es/en/jose-luispons/
05/02/2018	La Vanguardia.es	Disseminative publication	http://www.lavanguardia.com/tecnologia/20180205/44563766757/la-culpa-es-del-robot.html
05/02/2018	EFE Futuro	Disseminative publication	http://www.efefuturo.com/noticia/robots-culpables/
05/02/2018	ABC.es	Disseminative publication	http://www.abc.es/tecnologia/abci-puede-culpar-robot-danar-humano-201802051643_noticia.html
06/02/2018	company web	Web reference	https://www.din.de/en/innovation-and-research/research-projects/industry-4-0/inbots-260120
16/02/2018	RNE (A hombros de gigantes)	Interview	http://www.rtve.es/alacarta/audios/a-hombros-de-gigantes/hombros-gigantes-culpa-del-robot-19-12-18/4479030/
27/02/2018	company news web	Disseminative publication	https://www.city.ac.uk/news/2018/february/dr-luke-mcdonagh-and-dr-enrico-bonadio-are-the-uk-legal-leads-for-eu-funded-horizon2020-interactive-robotics-consortium
20/04/2018	company web	Workshop	https://www.city.ac.uk/news/2018/april/city-law-school-academics-organise-mexico-knowledge-exchange-forum
25/04/2018	ICAD blog	Workshop	http://web.icam.es/actualidad/noticia/4748/El_futuro_que_dibuja_la_rob%C3%B3tica_y_sus_retos_jur%C3%ADdicos_centran_la_nueva_jornada_de_la_Secci%C3%B3n_de_Rob%C3%B3tica
14/05/2018	company web	Conference	https://www.city.ac.uk/news/2018/may/city-law-school-establish-links-at-mexico-knowledge-exchange-forum
04/06/2018	RRSS	Disseminative publication	https://www.linkedin.com/feed/update/urn:li:activity:6409371367950680064
04/09/2018	diario la Ley	article	http://diariolaley.laley.es/Content/Documento.aspx?params=H4sIAAAAAAAAEAMtMSbH1czUwMDA0s7QwMDdRK0stKs7Mz7M1MjC0MLA0MFHLy09JDXFxti3NS0lNy8xLTQEpyUyrdMlPDqksSLVNS8wpTlVLTcrPz0YxKR5mAgCwakp7YwAAAA==WKE
06/09/2018	Leon Noticias	Workshop	https://www.leonoticias.com/universidad/riesgos-digitalizacion-trabajo-20180906182644-nt.html
15/10/2018	Tecnomedicina	Disseminative publication	http://www.tecnomedicina.it/al-via-a-pisa-icnr2018-werob-e-inbots/
28/02/2019	University Leiden	Disseminative publication	https://www.universiteitleiden.nl/en/news/2019/02/inbots-and-cost-action-16116-on-wearable-robots
04/03/2019	Universität Wien	Disseminative publication	https://medienportal.univie.ac.at/uniview/forschung/detailansicht/artikel/neue-technik-neue-fragezeichen/
15/03/2019	Cinco Días	Disseminative publication	https://cincodias.elpais.com/cincodias/2019/03/15/fortunas/1552673979_365293.html
			https://tv.um.es/videos?serie=23961
08/04/2019	Nature Artificial Intelligence	Disseminative publication	https://www.nature.com/articles/s42256-019-0040-5
16/10/2018		Disseminative publication	https://research.utwente.nl/en/publications/user-involvement-device-safety-and-outcome-measures-during-develo
07/02/2020	KTH blog	Disseminative publication	https://www.kth.se/blogs/digitizinglife/2020/02/why-is-social-uptake-of-interactive-robots-lagging-behind-in-europe/
04/01/2020	KTH blog	Scientific publication	https://www.kth.se/blogs/digitizinglife/2020/01/new-study-shows-that-older-peoples-involvement-matters-but-it-hasnt-reached-its-full-potential/
08/10/2019	Sant'Anna	Disseminative publication	https://www.eura.santannapisa.it/multimedia/inbots-inclusive-robots-better-society
28/02/2019	Leiden University	article	https://www.universiteitleiden.nl/en/news/2019/02/inbots-and-cost-action-16116-on-wearable-robots
17/03/2020	Rusian robotics page		http://edurobots.ru/event/shkola-inbots-afiny-2020/
05/03/2020	Association for Teacher	Facebook page	https://www.facebook.com/permalink.php?id=100787391788738 31&story_fbid=2807795135968218

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	Education in Europe		
22/01/2020	University magazine	article	http://tribuna.ucm.es/43/art3983.php#.XpbmS8gzaCo
07/01/2020	Open Access	Disseminative publication	https://www.openaccessgovernment.org/interactive-robotics-advanced-machines/80309/
15/04/2020	CSIC media	Dissemiantive publication	https://www.csic.es/es/actualidad-del-csic/el-csic-presenta-el-documental-los-robots-salen-de-las-fabricas-estaremos
24/04/2020	Tecnalia blog		https://www.tecnalia.com/es/salud/noticias/trabajamos-en-una-estrategia-de-estandarizacion-para-robots-interactivos-en-el-ambito-de-la-fabricacion-la-salud-y-el-consumidor-inbots.htm

INBOTS has also published numerous news in its website, in order to disseminate the project advances. These news were normally disseminated through INBOTS social media channels and newsletters. **89 News on the INBOTS website** have been published, below the complete list:

- INBOTS Curricula & Open Educational Resources for an Inclusive Robotics Education -15 June, 2021
- International EURA Conference "Regulating UncertAInty" (8-9 April, 2021) - 24 March, 2021
- New methods to prevent, investigate and mitigate tax crime in the EU - 26 January, 2021
- One approach to include horizontal aspects in standardisation could be through the funding of European research projects with a Technology Readiness Level of six or higher - 4 December, 2020
- Health care includes advanced robots that have been used for a while such as robotized assistance for surgery and robots for social care- 28 October, 2020
- Where robotic solutions can do a better job than humans, there are good opportunities.- 26 October, 2020
- When does AI become a producer & consumer of Copyright? - 5 October, 2020
- Will a robot be the next Nobel Prize in Literature? - 21 September, 2020
- INBOTS at the CYBATHLON Symposium - 18 September, 2020
- ROBOTIZING CARE FOR OLDER PEOPLE. - 9 September, 2020
- EURA INDUSTRY 4.0 INNOVATION BOOT CAMP - 2 September, 2020
- A step closer to benchmarking on robotics - 2 September, 2020
- The strengthening allowed by biorobotics - 23 July, 2020
- What is the future of educational robots? What is the vision of educational robot industry? - 8 July, 2020
- Ciencia, tecnología y soledad - 5 June, 2020
- The first benchmarking framework for robotics is closer - 1 May, 2020
- INBOTS collaboration with ROTECO - 24 April, 2020
- Are construction workers closer to work from home? - 23 April, 2020
- Join the AI-ROBOTICS vs COVID-19 initiative of the European AI Alliance - 9 April, 2020
- Why is social uptake of interactive robots lagging behind in Europe? - 6 April, 2020
- The role of labour jurists in the digital revolution - 11 March, 2020
- WP3: UNISI, leader on tasks for development of educational programs. - 2 March, 2020
- Artificial Intelligence and Robotics: Threat or Opportunity? - 13 February, 2020
- The elderly's involvement in technology - 6 February, 2020
- INBOTS: The Transition towards a Robotics Society - 24 January, 2020
- Interactive Robotics Documentary Film - 15 January, 2020
- The INBOTS team begin 2020 on the right track - 13 January, 2020
- WP4: The German Institute for Standardisation leads the Interactive Robotics standardisation strategy for Europe - 26 December, 2019
- Interview to Francesco Ferro - 13 December, 2019
- INBOTS attends the COP25 - 12 December, 2019
- Workshop on self-coaching tools for conducting responsible research and innovation (RRI) with social robots - 27 November, 2019
- Educating children to create their own Robots - 20 November, 2019
- The INBOTS curricula - 18 November, 2019
- BOOSTING INNOVATIN THROUGH STANDARDS - 15 November, 2019

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- INBOTS at Maker Faire Rome 2019 - 23 October, 2019
- INBOTS IPR aspects spreaded around Japan - 15 October, 2019
- The social robots of the future are in Sweden - 10 October, 2019
- Inbots in Labour2030, Oporto, 2019. - 23 September, 2019
- Workshop on Inclusive Robotic & brain-machine technologies - 12 September, 2019
- WP6: KTH, a leader in technical research leading the robotics uptake - 5 July, 2019
- INBOTS Collaboration with DIH2 - 5 July, 2019
- INBOTS visit the Waseda University to talk about relevant issues concerning Robotics - 18 June, 2019
- Research on robots taxation systems - 30 May, 2019
- THE IMPORTANCE OF ETHICS IN THE WORLD OF AI AND ROBOTICS - 14 May, 2019
- INBOTS is presented at the law school of Maynooth University - 7 May, 2019
- Artificial Legal Personalities, Are there new subjects to contribute due to the progress in robotics and AI? - 25 April, 2019
- INBOTS impact on Nature Artificial Intelligence - 9 April, 2019
- INBOTS Workshops at ERF 2019 - 27 March, 2019
- INBOTS collaboration with RobotUnion - 6 March, 2019
- International Seminar "NEW TECHNOLOGIES AND LAW. CHALLENGES AND OPPORTUNITIES ARISING FROM ROBOTICS AND ARTIFICIAL INTELLIGENCE" - 5 March, 2019
- INBOTS & COST Action 16116 on Wearable Robots - 19 February, 2019
- RobotUnion launches its second open call with €4 million public funding for startups and SMEs - 15 February, 2019
- Workshop on Digital Economy and Social Protection Systems - 7 February, 2019
- Interview to Jaime Duarte - 1 February, 2019
- Setting the roadmap for a consensus on a responsible research & innovation for the development & uptake of Interactive Robotics - 20 January, 2019
- INBOTS at the International Tax Cooperation Congress 2019 - 19 January, 2019
- Interview to Jody Saglia - 13 January, 2019
- Survey on Robotics in education - 8 January, 2019
- EUROBENCH project FSTP-1 Open Call first results - 21 December, 2018
- INBOTS shares experiences in the education on robotics - 17 December, 2018
- Interview to Nicola Vitiello - 13 December, 2018
- New study on Legislation & regulation drones for civil use - 10 December, 2018
- INBOTS Workshop with teachers on the Uptake of Robotics in Education - 1 December, 2018
- Wondering the best way to support SMEs & entrepreneurs - 29 November, 2018
- A survey to hear the experts on standardization of Interactive Robotics - 20 November, 2018
- INBOTS participates in the "Science and Innovation Week " - 20 November, 2018
- INBOTS promotes education on robotics among females - 11 November, 2018
- The INBOTS project holds its first annual Conference - 23 October, 2018
- INBOTS organises the first workshop on Funding Opportunities for Robotics - 3 October, 2018
- Presentation of the lecture "Implications of robotics in safety at work" by Yolanda Sánchez-Urán - 20 September, 2018
- A unified benchmarking framework for bipedal robotics - 3 September, 2018
- INBOTS Conference 2018 - 27 July, 2018
- INBOTS INTERNATIONAL WORKSHOP on Responsible Research and Innovation in Robotics held in Madrid on July 12th - 27 July, 2018
- INBOTS at SUMMER COURSE: Technological revolution and the future of labour - 5 July, 2018
- Summer Course: Technological revolution and the future of work - 27 June, 2018
- First INBOTS Conference in October 2018 - 27 June, 2018
- INBOTS discuss about where is the work of the future going - 21 June, 2018
- Getting ready for INBOTS Conference - 18 June, 2018
- INBOTS collaboration with COST Action - 13 June, 2018
- WP1: IUVO, a spin-off to promote entrepreneurship - 11 June, 2018
- AI and Robotics, a threat or an opportunity - 4 June, 2018
- International Summer School: "The Regulation of Robotics in Europe: Legal, Ethical and Economic Implications" - 8 May, 2018
- INBOTS connects European IP with Mexican Universities - 3 May, 2018
- WP2 leaders at the Ilustre Colegio de Abogados de Madrid - 25 April, 2018
- Presentation of the paper "The impact of robotics, especially inclusive robotics, on the workplace: labour law and fiscal aspects" - 7 April, 2018

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- Interview to Jose L. Pons about INBOTS Project - 19 February, 2018
- Kick off meeting of INBOTS CSA project - 11 January, 2018
- The date of the Kick-off meeting is settle - 18 December, 2017
- Project will start soon. - 23 October, 2017

3.1.7. Social networking communication tools

INBOTS owns project profiles on social media to increase the impact and generate straight communication channels to allow interactions with the audience thought different tools depending on the communicative objective. The presence of the project on social media has been fundamental to accomplish the communication objectives and this social media has been used as a relevant tool to reach third parties, the research community and to interact with the general public.

Social media has been used to report on the project's progress, announce new results and inform the robotics industry, disseminating the project's results and creating a scientific core interested in collaborating with the project. The content has been generated by INNCOME with the collaboration of other consortium members. The consortium members have also published relevant information in their social networks. Deliverable D7.3 specifies in more detail the work done on social media during the project.

3.1.7.1. Twitter

Twitter has been used for a big scale bidirectional communication, with all the audience present on this social media, but focusing on a technical audience from the robotics area. This social media has been crucial on Events, Conferences or Workshops to broadcast INBOTS role on these scenarios and to attract followers through real time information.

INBOTS CSA Project - Twitter: https://twitter.com/INBOTS_CSA

See table 3 for Twitter activity throughout the project. We have measured the monthly activity carried out on Twitter in the three years of the project, taking into account the publications (Tweets), their impact (Tweets impressions), the interaction with other entities/experts who have commented on INBOTS in their networks (Mentions), as well as the number of new followers (New Followers).

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We currently have **970 followers, 435 Tweets published and 534 mentions**.

Table 3 Twitter publications and interactions track

Twitter - INBOTS					
Year	Month	New Followers	Tweets impressions	Tweets	Mentions
2021	6	9	2,598	1	16
	5	19	30.5K	14	34
	4	10	5,858	6	22
	3	4	2,283	2	8
	2	7	5,48	6	8
	1	13	3,455	6	10
2020	12	13	2,231	3	22
	11	13	3,294	3	17
	10	4	7,237	10	13
	9	10	8,143	9	7
	8	10	3,075	2	4
	7	6	6,786	13	7
	6	-1	5,429	8	11
	5	16	7,89	4	4
	4	40	27.4K	20	30
	3	14	18.7K	21	7
	2	22	12K	9	31
	1	21	13.4K	13	33
2019	12	6	9,137	8	12
	11	21	18.1K	10	15
	10	22	12K	12	11
	9	9	13.5K	5	9
	8	21	9,068	9	4
	7	11	4,967	7	7
	6	13	10.4K	11	15
	5	22	12.1K	15	3
	4	8	6,665	5	7
	3	34	17.9K	22	21
	2	18	13.5K	18	8
	1	37	34.7K	14	16
2018	12	16	18.5K	17	19
	11	30	9,947	5	4
	10	38	29.6K	22	23
	9	48	26.1K	16	12
	8	224	35.9K	18	11
	7	14	20.3K	21	6
	6	14	19.1K	10	8
	5	4	3,529	6	3
	4	13	10.3K	12	19
	3	18	5,937	4	6
	2	19	3,783	7	3

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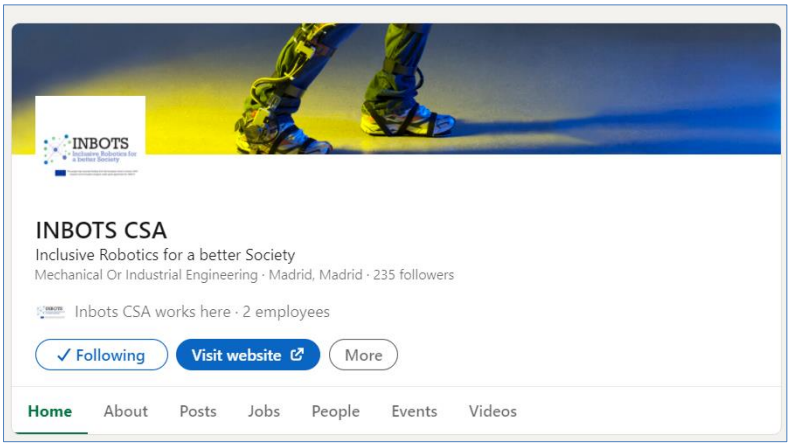
	1	56	10.6K	11	8

3.1.7.2. LinkedIn



LinkedIn is a professional social network and has been used to reach a business and scientific audience. It has been the scenario to share news and articles about the progress and outcomes of the project.

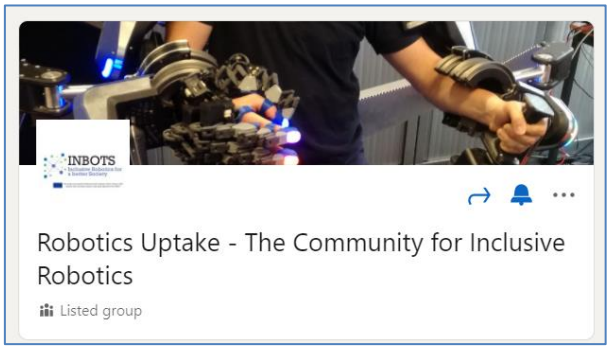
INBOTS CSA - LinkedIn: https://www.linkedin.com/company/inbots-csa/?viewAsMember=true

A community around interactive robotics has been created on LinkedIn. In addition to the INBOTS profile on LinkedIn, a specific group "Robotics Uptake - The Community for Inclusive Robotics" has been created to connect experts and promote dialogue and debate.

The tool used to track activity on LinkedIn is LinkedIn Analytics. At this moment INBOTS has **235 followers on LinkedIn and more than 225 publications.**

Linkedin Group - **Robotics Uptake – The Community for Inclusive Robotics**: https://www.linkedin.com/groups/12465548/

A LinkedIn group has been created to make the INBOTS project more accessible, to network around Interactive Robotics, **to connect all the experts in the various areas of robotics and to promote dialogue and debate**.



This group is open to anyone working in the field of robotics to participate, share work, contribute and publish any ideas or questions about Interactive Robotics. The main objective is to connect professionals and organisations interested in robotics, with experts open to help with legal issues, entrepreneurship support, standardisation requirements and any use of robotics in education and society.

This group was created at the beginning of 2020 and has more than 50 publications from different experts and 186 subscribers.

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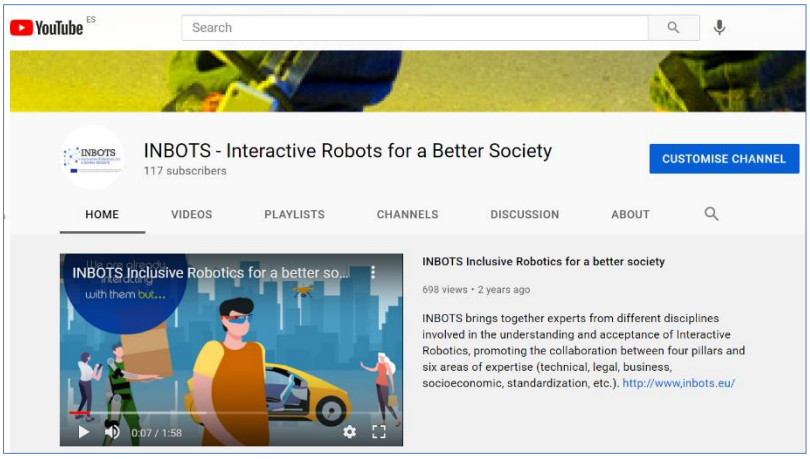
3.1.7.3 YouTube



YouTube has been used to share audio-visual contents that at the same time has been shared on other social media, web and platforms.

INBOTS CSA - YouTube: https://www.youtube.com/channel/UCl6xIOCZY33cH-rR36iepdg

The INBOTS YouTube channel contains 22 videos including those specified in the Communication Plan: video presentation of the project and the three documentaries. In addition, it includes a special action that was carried out during the Covid-19 crisis, with expert assessments on the involvement of robotics in providing solutions to the Covid-19 crisis.

Playlist – **INBOTS Documentaries**

- INBOTS Interactive Robotics - Future and Challenges: https://youtu.be/ZJIY6cmwEVg (3rd documentary)
- Interactive Robotics Documentary Film | Robots are leaving the factories, will we be ready? https://youtu.be/h0QjNC8XQ1U (2nd documentary)
- INBOTS - Interactive Robotics for a Better Society: https://youtu.be/Nt4qwcVc1o8 (1st documentary)
-

Playlist – **INBOTS Work**

- ROBOTIZING CARE FOR OLDER PEOPLE | What should be atomized when robots enter home care?: https://youtu.be/ajYOEMVV-Os
- INBOTS interview to Costas Sisamos, founder of ENGINE: https://youtu.be/HBa2GfSORMk
- INBOTS educational robotics pilots by EDUMOTIVA: https://youtu.be/iAQM_qFkey4
- Legal aspects of robot-human physical similarities: https://youtu.be/1ZpUbYINOoA

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- INBOTS - Interactive Robotics for a Better Society (SUBTITLED - English): https://youtu.be/EC6eFhpON3w
- INBOTS Inclusive Robotics for a better society: https://youtu.be/zbHrRujhetw (project presentation video)

Playlist - **INBOTS experts opinions about COVID 19 crisis**

- How Interactive Robotics can help in the protection against new pandemic: https://youtu.be/99j8LopS1ew
- Our Partner TECNALIA shows how they have adapted their technology to fight Covid 19: https://youtu.be/D7s2bUtGp4c
- Interactive robots can easily be adapted to assist humans during COVID19 crisis like PAL Robotics: https://youtu.be/KrGUNfcVhrM
- Will Covid 19 contribute to the acceptance of Interactive Robots?: https://youtu.be/U-tNYmNJkTA
- How can children keep learning about robotics during COVID19 pandemic lockdown: https://youtu.be/WzytK9s0NR4
- Interactive Robots & AI might help elderly people during Covid19 lockdown: https://youtu.be/B4KOTdHfdhU

Playlist - **INBOTS areas of expertise**

- INBOTS: supporting SMEs: https://youtu.be/nvIvl8YW1BQ
- INBOTS: promoting robotics uptake by general public: https://youtu.be/PGF_6Ujuihs
- INBOTS : proposing a regulatory & risk management framework for interactive robotics: https://youtu.be/fL2U28pR22I
- INBOTS standardisation robotics: https://youtu.be/NKu6MKA7JzM
- INBOTS: educating in robotics: https://youtu.be/mwijWP_fDa8
- INBOTS: Supporting policy makers: https://youtu.be/s-teGzzyUHI

Playlist – **INBOTS on media**

- Interview to Jose Luis Pons in "A hombros de Gigantes" RNE: https://youtu.be/pfzSnRCqTU4

4. INBOTS dissemination and exploitation activities

4.1. Communication channels, tools and activities

INBOTS results have been disseminated through various channels outside the consortium in order to reach the targeted audiences, considering, for each audience, the best media planning.

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4.1.1. Public deliverables

All public deliverables of INBOTS have been published on the website. 24 deliverables in total.

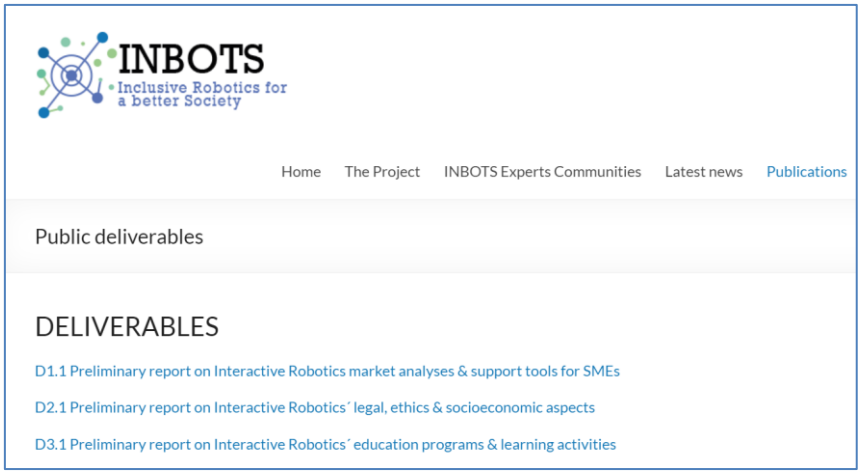

Table 5 INBOTS Public Deliverables

Dev. #	Deliverable name	WP	Lead participant	Type	Dissemination level	Delivery date
D1.1	Preliminary report on Interactive Robotics market analyses and support tools for SMEs (business models and exploitation strategies)	1	IUVO	Report	Public	18
D1.2	INBOTS White Paper on Interactive Robotics market analyses and support tools for SMEs (business models and exploitation strategies)	1	IUVO	Report	Public	39
D2.1	Preliminary report on Interactive Robotics' legal, ethics & socioeconomic aspects	2	UCM	Report	Public	18
D2.2	INBOTS White Paper on Interactive Robotics' legal, ethics & socioeconomic aspects	2	UCM	Report	Public	42
D3.1	Preliminary report on Interactive Robotics' education programs and learning activities	3	UNISI	Report	Public	18
D3.2	INBOTS White Paper on Interactive Robotics' education programs and learning activities	3	UNISI	Report	Public	39
D4.1	Preliminary report on Interactive Robotics' standardization and benchmarking strategies	4	DIN	Report	Public	18
D4.2	INBOTS White Paper on Interactive Robotics' standardization and benchmarking strategies	4	DIN	Report	Public	39

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D5.1	Preliminary report on Interactive Robotics regulatory and risk management framework	5	SSSA	Report	Public	18
D5.2	INBOTS White Paper on Interactive Robotics regulatory and risk management framework	5	SSSA	Report	Public	39
D6.1	Preliminary Report on Interactive Robotics public awareness and acceptance	6	KTH	Report	Public	18
D6.2	INBOTS White Paper on strategies to increase Interactive Robotics public awareness and acceptance	6	KTH	Report	Public	42
D6.3	1st documentary video on interactive robotics applications and impacts	6	CSIC	Video	Public	12
D6.4	2nd documentary video on interactive robotics applications and impacts	6	CSIC	Video	Public	24
D6.5	Final documentary video on interactive robotics applications and impacts	6	CSIC	Video	Public	39
D7.1	INBOTS CSA website	7	CSIC	Websites	Public	1
D7.2	Report on networking activities	7	INNCOME	Report	Public	42
D7.3	Communication plan	7	INNCOME	Report	Public	4
D7.4	Plan for Exploitation and Dissemination of Results	7	INNCOME	Report	Public	4
D7.5	Final report on communication, dissemination and exploitation activities	7	INNCOME	Report	Public	42
D8.1	Project management handbook	8	CSIC	Report	Public	3
D8.2	Quality assurance plan	8	CSIC	Report	Public	2
D8.3	Report on advisory boards conclusions and recommendations	8	CSIC	Report	Public	40
D8.4	INBOTS White paper "Design and description of the candidate INBOTS AISBL for the future of Interactive Robots everywhere"	8	CSIC	Report	Public	41

4.1.2. Publications and journalistic articles

Project results has been also disseminated in the form of scientific publications targeted at peer-reviewed professional journals.

4.4.2.1. Scientific publications in journals

1. A Bertolini, Artificial Intelligence and civil law: liability rules for drones, Study for the European Parliament, Juri Committee, 2018, 1-74 http://www.europarl.europa.eu/RegData/etudes/STUD/2018/608848/IPOL_STU(2018)608848_EN.pdf
2. A Bertolini, F Episcopo, E Palmerini, Study on Safety of non-embedded software; Service, data access, and legal issues of advanced robots, autonomous, connected, and AI-based vehicles and systems (SMART 2016/0071), Study for the European Commission DG Cnect
3. A Bertolini, Human-Robot Interaction and Deception, in Osservatorio del diritto civile e commerciale, 2018, 2, 647-660

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4. A Bertolini – G Aiello, Robot Companions an Ethical and Legal Analysis, in The Information Society, 2018, 34, 3, 130-140
5. E. Palmerini, M. Biasiotti, G. Aiello (a cura di), Diritto dei Droni. Regole, questioni, prassi, Collana Diritto delle nuove Tecnologie, Giuffrè, Milano, 2018, ISBN: 9788828805434.
6. E. Palmerini, I droni per uso civile nella prospettiva giuridica: appunti per una sistemazione concettuale e normativa, in Diritto dei Droni. Regole, questioni, prassi, Collana Diritto delle nuove Tecnologie, Giuffrè, Milano, 2018, pp. 3-21, ISBN: 9788828805434.
7. E. Palmerini et al., Il Fintech e l'economia dei dati: profili civilistici e penalistici, Quaderni Fintech n. 2, dicembre 2018, Consob, Roma-Milano, pp. 1-97, ISBN: 9788894369700.
8. E. Palmerini et al., Profili di responsabilità, in La digitalizzazione della consulenza in materia di investimenti finanziari, Quaderni Fintech n. 3, Jannuary 2019, Consob, Roma-Milano, pp. 69-91.
9. E. Palmerini, Dalle smart cities allo scoring del cittadino, in I confini del Digitale. Nuovi scenari per la protezione dei dati, Atti del Convegno 20 Jannuary 2019, Garante per la protezione dei dati personali, Roma, s.d. (2019), pp. 20-31.
10. E. Palmerini, Negozio e automazione: appunti per una mappa concettuale, in Decisione robotica, a cura di A. Carleo, Il Mulino, Bologna, 2019, ISBN: 978-88-15-28393-1
11. P. Salvini, E. Palmerini, B.-J. Koops, Robotics and Responsible Research and Innovation, In International Handbook on Responsible Innovation: A global resource, edited by R. von Schomberg and J. Hankins, Edward Elgar Publishing, 2019, pp. 405-424
12. Chang, F. & Östlund, B. (2018) Perspectives of Older Adults and Informal Caregivers on Information Visualization for Smart Home Monitoring Systems: A Critical Review. Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018) pp 681-690. 2018
13. Grimmer, M., Riener, R., Walsh, C.J., Seyfarth, A. (2018) Mobility related physical and functional losses due to aging and disease - a motivation for lower limb exoskeletons. Journal of NeuroEngineering and Rehabilitation, JNER, 16.2
14. Wolf, P., Riener, R. (2018) Cybathlon: How to promote the development of assistive technologies?. *Science Robotics*, Vol. 3, eaat7174
15. Novak, D.; Sigrist, R.; Gerig, N.; Wyss, D.;Bauer, R.; Götz, U.; Riener, R. (2018) Benchmarking brain-computer interfaces outside the laboratory: the Cybathlon 2016. *Front. Neurosci*. 11, 756 52
16. Östlund, B. Etiska dilemman och risker med teknik och digitalisering [Ethical Dilemmas and Risks with technology and digitization]. Chapter in Ekstedt, M. & Flink, M. (eds) Hemsjukvård. Olika perspektiv på trygg och säker vård [Home Care. Perspectives on safe and secure care]. Liber AB, 2019, pp. 422-439. 2019
17. Novak, D., Sigrist, R., Riener, R. (2019) Brain-Computer Interface Racing at the Cybathlon 2016. Frontiers for Young Minds, in press.
18. Auberger, R., Russold, M.F., Riener, R., Dietl, H. (2019) Patient motion using a computerized leg brace in everyday locomotion tasks. *IEEE Transactions on Medical Robotics and Bionics,* in press.
19. D. Alimisis, D. Loukatos, E. Zoulias, R. Alimisi, The Role of Education for the Social Uptake of Robotics: The Case of the eCraft2Learn Project. In Proceedings of the 1st INBOTS conference, Springer (in press)
20. Frennert, S., Aminoff, H., Östlund, B. (2019) Care Robots: Attitudes and Values of Implicated Actors. Journal of Information Technology and People. Under review

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21. Sapounidis, T., & Alimisis, D. (2020). Science and Mathematics Education for 21st Century Citizens: Challenges and Ways Forward (pp. 167–190). **Educational Robotics for STEM**: A Review of Technologies and Some Educational Considerations.
22. Enrico Bonadio, Luke McDonagh (2020) Artificial Intelligence as Producer and Consumer of Copyright Works: Evaluating the Consequences of Algorithmic Creativity
23. Ana Lambea Rueda. Robótica, cine y derecho Bioderecho.es Númro 9, 2019
24. Ana Lambea Rueda. Entorno digital y menores de edad. Revista de Derecho Civil vol. V, número 4 (octubre-diciembre,2018)

4.4.2.2. Scientific publications/presentations in conferences

1. T. Ausín: X Jornada de Seguridad y Protección de datos de carácter personal, UPV, Vitoria,
   October 2018 (with Kontuz project).
2. D. López, A. Monasterio: III Jornadas sobre Inteligencia Artificial y Desarrollo Humano: la
   transformación de la educación por y para la Inteligencia Artificial organizadas por la Cátedra de Privacidad y Transformación Digital Microsoft-Universitat de València, Santiago de Compostela, June 2019 (attendance and participation in the debate).
3. Bertolini, AI Alliance Assembly, Brussels, EU Commission, DG Cnect, 26 June 2019.
4. Bertolini, Panellist at the Conference for the Celebration of the 30 Years of the Jean Monnet Action, EU Commission EACEA, Brussels, 18 June 2019.
5. Bertolini, A Risk-Management Approach to Liability in Robotics, Master course, Bucharest, 20 May 2019.
6. Bertolini, A Robot in Every Home: Human Dignity and the Care of Fragile Individuals,
   TILTING Perspectives, University of Tilburg, 16 May 2019.
7. Bertolini, The regulation of robotics and AI in Europe, ACC Europe Conference, Edinburgh, 14 May 2019.
8. Bertolini, Human-Robot Interaction and Deception, Le tecnologie 'morali' e le sfide eticogiuridiche delle nuove soggettività, Università Milano Bicocca, 10 April 2019.
9. Bertolini, Presentation of the Study "Civil liability and AI: Liability Rules for Drones, before the European Parliament, JURI Committee, Brussels, 1 April 2019.
10. Bertolini, Alternative Liability Models in Robotics – European Robotics Forum 2019, Bucharest, 20-22 March, 2019.
11. Bertolini, INBOTS Conference, Pisa, 16-20 October 2018.
12. Bertolini, Lecture at the Università degli studi di Bergamo, 8 March 2019, "Interazione e relazione nel rapporto uomo-macchina e nella cura delle persone fragili".
13. Bertolini, Centro sulle dinamiche economiche, sociali e della cooperazione, Università degli studi di Bergamo, Noi e i robot scenari possibili per una nuova società, 7 March 2019
14. Bertolini, Fundamental Rights in Courts and Regulation (FRICORE), Trento, 4-5 March 2019, "AI beyond the judgment and within the judgment".
15. Bertolini, Brussels School of Competition Law, Bruxelles, 22 February 2019, Robotics, AI and Liability Rules. 53
16. Bertolini, Lecture Lezione, Dottorato in diritto privato della Suor Orsolsa Benincasa, "I robot come prodotti ed i modelli di responsabilità", 11 February 2019.
17. Bertolini, Europe Regulates Robotics International Conference, Pisa, 27-28 Septembe 2018.

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18. Bertolini, OECD Workshop, Shanghai, 6-7 September 2018, "Minding Neurotechnology: delivering responsible innovation for health and well-being"
19. Bertolini, High Level Expert Group on AI, Bruxelles, 20 September 2018.
20. Bertolini, European Robotics Forum, Tampere, 13-15 March 2018.
21. Bertolini, IEEE Students and Young Professionals Congress, Porto, 25-29 July 2018.
22. Bertolini, European University Institute, Opportunities and Challenges in Regulating Robotics and Artificial Intelligence. A comparative approach, "Liability and Risk Management in Robotics and AI: the Problem of Ascertainment and Apportionment", Fiesole, 18 May 2018.
23. Bertolini, ELI-CNF-OCF-ANF Treviso, Digital Revolution: Data Protection, Smart Products, Blockchain Technology and Bitcoins. Challenges for Law in Practice, "A risk-management approach to autonomous driving" and "The Liability for Robotics", Mogliano Veneto, 20 April 2018.
24. Bertolini, European Parliament, The Economy of Robots, 9 April 2018.
25. F. Episcopo, Panellist for the "Robots and Artificial Intelligence: The New Force Awakens"
    Discussion Panel, European Youth Event 2018, 2 June 2018, European Parliament.
26. E. Palmerini, Artificial Intelligence, Internet of Things, Smart Contracts, Master in "Internet Ecosystem: Governance e Diritti", Università di Pisa, 23 March 2018, 5 April 2019.
27. E. Palmerini, L'intelligenza artificiale e l'impiego di algoritmi intelligenti, Master in Cybersecurity, Università LUISS Guido Carli, Roma, 14 July 2018, 13 July 2019.
28. E. Palmerini, Decisione negoziale, nell'ambito del Convegno "Decisione robotica" – Seminari "Leibniz" per la Teoria e la Logica del Diritto - III, Accademia dei Lincei, Roma, 5 July 2018.
29. E. Palmerini, Intelligenza artificiale e diritto, VII Congresso nazionale dell'Unione nazionale Camere civili (UNCC), "L'intelligenza artificiale e l'impatto sul giurista", Roma, 18 October 2018.
30. E. Palmerini, La medicina fra robotica e diritto. Esperienze e prospettive a confronto, Pisa, Area di ricerca CNR, 23 November 2018.
31. E. Palmerini, I confini del digitale, Dalle smart cities allo scoring del cittadino, Roma, Camera dei Deputati, 29 January 2019.
32. E. Palmerini, Legal issues elicited by robotics and automated decision-making" DNARobotics workshop, 24-27 May 2019, Oxford, St Anne's College, 27 March 2019.
33. Francesca Episcopo, Panellist for the "Robots and Artificial Intelligence: The New Force Awakens" Discussion Panel, European Youth Event 2018, 2 June 2018, European Parliament.
34. C. Amesti Mendizábal. Gobierno corporativo y robotización: Avances en la igualdad de género. VI Seminario Internacional sobre Derecho de los Negocios, RSE/RSC, Legal Compliance y Economía Colaborativa UC3M, Getafe, November 2018.
35. M. A. Grau Ruiz; Ética de la inteligencia artificial, Semana Marciana, Accenture Digital, Madrid, April 2018.
36. M. Y. Sánchez-Urán Azaña; M. A. Grau Ruiz: El impacto de la robótica, en especial la robótica inclusiva, en el trabajo: aspectos jurídico-laborales y fiscales, Ilustre Colegio se Abogados de Madrid, 25th April 2018, Madrid (web).
37. M. Y. Sánchez-Urán Azaña; M. A. Grau Ruiz: Technological revolution and the future of work, Curso de Verano UCM-OIT, Madrid, July 2018.
38. M. Y. Sánchez-Urán Azaña; M. A. Grau Ruiz: Robotics and Work: labor and tax regulatory framework, CIELO-Universidad de Santiago de Compostela, Santiago de Compostela, April 2018 (web).

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39. M. Y. Sánchez-Urán Azaña: Future of labour & digital platforms, Spanish Association of Digital Economy (ADIGITAL), Madrid, 21st June 2018 (web).
40. M. Y. Sánchez-Urán Azaña: Las implicaciones de la robótica en la seguridad en el trabajo, Jornada sobre Riesgos inherentes a la digitalización del trabajo. Nuevos horizontes para la prevención de riesgos laborales, Consejería de Empleo Castilla y León-Universidad de León, 19th September 2018 (web).
41. J.I. López-Sánchez: Robots in a new era of productivity and efficiency: Implications for industry transformation. Production and Operations Management Society (POMS) 2018 International Conference. Granada, October 2018.
42. M. A. Grau Ruiz: Robots & Big Data shaping Fair Taxation for Sustainability, International Tax Congress, University of Barcelona, Barcelona, January 2019.
43. M. A. Grau Ruiz: La transformación digital de la economía y del trabajo y su impacto en los sistemas de protección social: retos de futuro inmediato, Fundación Francisco Largo Caballero, Madrid, February 2019
44. M. A. Grau Ruiz: Artificial Legal Personalities, 2nd UB International PhD Conference in Law, University of Barcelona, Barcelona, 24th April 2019 (web).
45. Falcón Pulido: Tax and Robotics, 2nd UCM PhD day, UCM, Madrid, May 2019.
46. M. A. Grau Ruiz: El actual dilema fiscal por el impacto de la robótica: ¿ innovación o empleo?, Derecho Financiero, servicios digitales y robótica, Universidad de Málaga, Málaga, May 2019.
47. M. A. Grau Ruiz: III Jornadas sobre Inteligencia Artificial y Desarrollo Humano: la transformación de la educación por y para la Inteligencia Artificial organizadas por la Cátedra de Privacidad y Transformación Digital Microsoft-Universitat de València, Santiago de Compostela, June 2019 (attendance and participation in the debate)
48. M. Y. Sánchez-Urán Azaña: International Congress "Technological Innovation and The Future of Work", Santiago de Compostela, Spain, April 2018 (web).
49. Lambea Rueda, M. Y. Sánchez-Urán Azaña: VI Conferencia Internacional "Inteligencia artificial y economía del dato: Reglamento General de Protección de Datos. Desafíos actuales y futuros", Cátedra Google del CEU San Pablo, June 2018 (attendance and participation in the debate).
50. Plenary talk at AAAS Science. Robotics Meeting, Tokyo, Japan: "The Cybathlon: A Competition for Athletes with Disabilities Using Most Advanced Robotics". March 12, 2018
51. Plenary talk at WearRAcon, Scottsdale, Phoenix AZ, USA,: "Walk! From Bedside … to Sidewalk". March 27, 2019.
52. Plenary talk at Rome Cup 2018, Campus Bio-Medico at Rome, IT: "The Cybathlon: A Competition for Robot-Assisted Athletes with Disabilities". April 16, 2018.
53. Invited talk at OT-World, Internationale Fachmesse und Weltkongress, Leipzig, DE: "Der Cybathlon: Ein internationaler Wettkampf für roboterassistierte Parathleten". May 15, 2018.
54. Plenary talk at iCREATe, Shanghai, China: "About Cyborgs and the Cybathlon". July 14, 2018.
55. Workshop: Promote societal and socio-economic uptake of robotics. INBOTS conference in Pisa. S. Frennert. October 17, 2018
56. Conference paper: S. Frennert & B. Östlund (2018). How do older people think and feel about robots in health- and elderly care?. INBOTS conference in Pisa. October 17, 2018,
57. Keynote: R. Reiner (2018). Rehabilitation 4.0: What will robots change?. INBOTS conference in Pisa. October 17, 2018
58. Conference paper: University of Sienna (2018). Supernumerary Robotic Fingers to Compensate and Augment Human Manipulation Abilities. INBOTS conference in Pisa. October 17, 2018.

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59. Keynote: T. Rydberg (2018). Challenges and Opportunities of Robotic Innovations in Elderly Care. INBOTS conference in Pisa. October 17, 2018
60. Conference paper: K. Bauer (2018). The Cybathlon - Bionic Olympics to benchmark assistive technologies. INBOTS conference in Pisa. October 17, 2018
61. Conference paper: D. Alimisis (2018). The Role of Education for the Social and Economic Uptake of Robotics: the Case of the eCraft2Learn Project. INBOTS conference in Pisa. October 17, 2018.
62. Invited talk at French Research Group on Robotics, Paris, France: "Cyborgs for Rehabilitation and the Cybathlon. November 21, 2018.
63. S. Frennert (2018) The CPS Triangle: A suggested framework for Evaluating Robots in Everyday Life. Proceedings 10th International Conference, ICSR 2018, Qingdao, China, November 28 - 30, 2018. November 29, 2018
64. Plenary talk at Lindauer Psychotherapiewochen, Lindau, DE: "Mensch und Roboter in der Rehabilitation». April 17, 2019
65. TECNALIA gave a presentation at the COST-Action 16116 Wearable Robots event in Twenty (30th August 2018), specifically about the Working Group WG3 Application domains. This COST action integrates and develops diverse expertise and trans-domain competences essential to the development of a new generation of Wearable Robots. The presentation covered the main objectives of INBOTS, potential way of collaboration with COST action, and potential of INBOTS as a support for SMEs.

4.4.2.3. Organization of INBOTS events:

- **1st INBOTS Conference** (Middle-term Conference):
  2018 INBOTS Conference, held in Pisa from October 16th to 20th
  (http://inbotsconference2018.org)
- **2nd INBOTS Conference** (Long-term Conference):
  2019 INBOTS Conference, held in Bucharest from March 20th to 22nd
  (http://inbotsconference2019.org)
- **3nd INBOTS Conference** (Final Conference):
  2021 INBOTS Conference, held online from May 18th to 20th
  (http://inbotsconference2021.inbots.eu/)

4.4.3. Participating in events, conferences, workshops

INBOTS members have attended several workshops and conferences

Table 6 INBOTS Events attended

Date	Partner	Event Name	Organiser	Event page
13/03/2018	ALL	ERF 2018	euRobotics	https://www.eu-robotics.net/robotics_forum/
05/04/2018	UCM	International Conference "Technological innovation and the future of work: emerging aspects worldwide"	Universidad Sandiago de Compostela	http://www.cielolaboral.com/wp-content/uploads/2018/03/programa-congreso-santiago-2018.pdf

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25/04/2018	UCM	Section of Robotics, Artificial Intelligence, Virtual and Augmented Reality	Ilustre Colegio de Abogados de Madrid	http://web.icam.es/actualidad/noticia/4748/El_futuro_que_dibuja_la_rob%C3%B3tica_y_sus_retos_jur%C3%ADdicos_centran_la_nueva_jornada_de_la_Secci%C3%B3n_de_Rob%C3%B3tica
02/05/2018	CITY	Knowledge Exchange Forum on Intellectual Property, University Innovation in Robotics and Technology Transfer for Social Enterprises'	UNAM - Institute of Juridical Studies	
21/06/2018	OTHERS	The future of labour and digital platforms	ADIGITAL / The Spanish Association of the Digital Economy)	http://inbots.eu/event/the-future-of-labour-and-digital-platforms/
04/07/2018	UCM	SUMMER COURSE: Technological revolution and the future of labour	Universidad Complutense de Madrid	http://inbots.eu/event/summer-course-technological-revolution-and-the-future-of-labour/
12/07/2018	UCM	WORKSHOP: Responsible Research and Innovation in Robotics	Universidad Complutense de Madrid	http://inbots.eu/event/workshop-responsible-research-and-innovation-in-robotics/
12/09/2018	UCM	Riesgos inherentes a la digitalización del trabajo: Nuevos horizontes de riesgos laborales	Universidad de León	http://inbots.eu/wp-content/uploads/2018/09/Programas-Jornadas_PRO.pdf
16/09/2018	CSIC	Summer School on Neurorehabilitation	Instituto Cajal CSIC	http://www.ssnr2018.org/
29/03/2019	UCM	Seminario UCM - TributES	Universidad Complutense de Madrid	http://inbots.eu/event/workshop-tax-incentives-for-the-social-economy-within-the-framework-of-the-sustainable-agenda-2030/
24/04/2019	UCM	2nd UB International PHD Conference in Law	Universidad de Barcelona	https://www.ub.edu/portal/web/derecho/detalle/-/detall/24-04-de-9-a-17-30-h-jornada-internacional-ii-ub-international-phd-in-law-conference-diffuse-and-artificial-legal-personalities-
09/09/2019	UCM	Conference "inclusive regulation of interactive Robotics in the EuropeanUnion"	University of Verona	
11/09/2019	IFilosof	Hello Robot / Conference		
05/10/2019	KTH	Hej Robot		https://www.arbetetsmuseum.se/utstallning/hej-robot/
14/10/2019	SSSA	RO-MAN 2019: Responsible robotics and AI for the real world	IEEE	https://ro-man2019.org/
30/10/2019	TECNALIA	brokerage event of the EU Horizon 2020 project DIH-HERO: Digital Innovation Hubs in Healthcare Robotics,	University of Twente	https://www.utwente.nl/en/techmed/events/2019/10/234593/dih-hero-the-brokerage-event
31/10/2019	SSSA	EURA Conference		
13/11/2019	DIN	Boosting Innovation through standards	CEN / CENELEC	https://www.eu-ems.com/summary.asp?event_id=4417&page_id=10265

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13/11/2019	DIN	Boosting Innovation through standards	CEN and CENELEC	
21/11/2019	UNIVIE	Robotiuris 2019	Fide Fundación	https://www.fidefundacion.es/robotiuris19
26/11/2019	UCM	Workshop: Self-coaching tools for conducting responsible research and innovation (RRI) with social robots at ICSR	ICSR 19	http://icsr2019.uc3m.es/
26/11/2019	PAL	H2020 upcoming calls on Robotics and AI: Information and Brokerage day		
09/12/2019	UCM	FINANCIAL ACTIVITY FOR GLOBAL SUSTAINABILITY	INBOTS-UCM-CERTIFICARSE (COP25)	https://www.ucm.es/cumbreclima/dia-9-de-diciembre-de-2019
10/12/2019	UCM	XI JSPDCP - Jornada de Seguridad y Protección de Datos de Carácter Personal		
26/02/2020	UCM	CS + Law Faculty Talks	Northwestern University	https://www.mccormick.northwestern.edu/computer-science/news-events/cs-plus-law-faculty-talks.html
03/03/2020	TECNALIA	European Robotics Forum - ERF 2020	IEEE	https://www.eu-robotics.net/robotics_forum/
23/04/2020	TECNALIA	Exoskeletons and Wearable robots: current practice and future perspectives	Accelopment, Wearable Roborts, COST, Tecnalia	http://exoskeleton-event.wearablerobots.eu/
31/05/2020	EDUMOTIVA	International conference on robotics and automation (ICRA 2020)	IEEE Robotics & Automation society/ IEEE	http://icra2020.org/
13/07/2020	EDUMOTIVA	1st INBOTS European Summer School in educational robotics	Edumotiva	
13/10/2020	IUVO	ICNR - WeRob Conference 2020	CRG, Instituto Cajal, CSIC, CTAG	http://www.icnr2020.org/
20/10/2020	EDUMOTIVA	International Conference on Intelligent Robots and Systems (IROS)	IEEE Robotics & Automation society/ IEEE	http://www.iros2020.org/
26/11/2020	UNISI	EDUROBOTICS 2020 conference	UNISI	https://edurobotics2020.edumotiva.eu/
18/05/2020	KTH	World Conference on Gerontechnology	SINTE, NTNU,	https://www.sintef.no/projectweb/isgs-12th-world-conference-of-gerontechnology/
20/05/2020	UCM	Legal aspects of robot-human phisical similarities		
26/05/2020	CSIC	Annual plenary mmeting	Instituto Filosofia	http://cchs.csic.es/en/event/reunion-plenaria-anual-proyecto-europeo-inbots
29/06/2020	DIN	CEN Workshop Kick-off Meeting on"Performance test method for lower limb wearable robots for walking on irregular terrains"	DIN	http://inbots.eu/event/workshop-performance-test-method-for-lower-limb-wearable-robots-for-walking-on-irregular-terrains/
09/06/2020	KTH	Does the Corona Epidemic Speed up Digitalization of Elderly Care?	Britt	http://inbots.eu/event/does-the-corona-epidemic-speed-up-digitalization-of-elderly-care/

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05/06/ 2020	UCM	Webinar internacional: Asistencia virtual, robótica y formación	Ana Lambea	
19/06/ 2020	UCM	Semana de formación: 'Políticas públicas, Agenda 2030 y robótica e inteligencia artificial para una buena gobernanza en la protección social'	Organización Iberoamericana de Seguridad Social	https://oiss.org/microformacion-politicas-publicas-agenda-2030-y-robotica-e-inteligencia-artificial-para-una-buena-gobernanza-en-la-proteccion-social/
24/06/ 2020	UCM	Robots are leaving factories. Are we ready?	Northwestern Pritzker School of Law	
23/07/ 2020	UCM	Heidelberg University Summer School "Digitalization & Law"	Heidelberg University	https://padlet.com/visiblecore/2u8rvt73cduvx5yq
31/05/ 2020	UNISI	ICRA 2020		https://www.icra2020.org/robotics-eu
17/04/ 2020	UCM	Keynote speech about Robótica e Inteligencia artificial inclusiva en la Jornada de clausura del Curso de Perfeccionamiento en Tecnologías Digitales en Ciencias Sociales y Jurídicas	Universidad Sandiago de Compostela	
27/11/ 2020	IFilosof	XI Noche Europea de los Investigadores de Madrid: "Convivir con robots. Participación pública en la influencia de la robótica en la sociedad"	Centro de Ciencias Humanas y Sociales	http://cchs.csic.es/es/event/convivir_con_robots

5 Communication, dissemination, and exploitation impact

During the three and a half years of the project, communication and dissemination activities have been monitored in order to measure their impact and to be able to implement improvements.

In table below, are listed the KPIs used to measure the impact on communication. Each KPI has its annual target (October 2018/19/20), and current data of each KPI is shown in the blue column.

The table shows that there have been no significant deviations from the impact objectives set out in the Communication Plan. Except in the case of the number of printed brochures, which, given that all events are moving to digital format, is an impractical KPI, as communications are increasingly digital.

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Table 4 Communication and Dissemination Impact KPIs

Indicator	October 2018 Approx.	October 2019 Approx.	October 2020 Approx.	June 2021 - Closing data	Source & methodology
Number of visits to inbots.eu	2.000	6.000	10.000	12.000	Analytics
Accumulated number of brochures distributed	400	900	1.200	not aplicable	Registry of dissemination activities
Accumulated number of views of video #1	100	190	300	602	YouTube registry
Accumulated number of views of video #2	-	90	160	7,166	YouTube registry
Accumulated number of views of video #3	-	-	-	2,044	YouTube registry
Accumulated number of followers on Twitter	150	300	400	972	Twitter registry
Accumulated number of followers on LinkedIn	100	200	300	421	LinkedIn registry
Accumulated number of subscribers to the project mailing list	80	150	280	272	Internal subscriber registry
Average percentage of readers of the project mailing list	19%	20%	22%	24%	The newsletter management tool registry
Accumulated number of newsletters forwarded	2	4	6	20	Registry of dissemination activities
Accumulated number of articles published on inbots.eu	6	9	13	80	Registry of dissemination activities
Accumulated number of articles published on external media	3	6	9	38	Registry of dissemination activities
Accumulated number of relevant events on which participants participate	5	15	22	48	Registry of dissemination activities

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