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## DELIVERABLE

# D6.5 – Dissemination, Communication & Standardization Activities Report - Final Version

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## Executive Summary

This deliverable presents the final documentation of the communication and dissemination activities undertaken in T6.1 - “Public Awareness and Dissemination Planning, Implementation and Monitoring” and the final documentation of contributions to standardization and legislation activities undertaken in T6.3 - “Standardization and Legislation”. The documentation of the dissemination and standardization activities and the reporting of the communication activities described in this deliverable constitute a means to verify MS5 “Availability of 1st Functional Prototypes of AI-based solutions, 1st version of HosmartAI integrated framework, of detailed Pilot specification and 1st version of business plan. Engagement of stakeholders and other visibility enhancement activities”.

The final version of the report aims to compile the communication and dissemination activities carried out, their results, and an analysis of key performance indicators related to T6.1 and T6.3. T6.1 encompasses all communication and dissemination activities, while T6.3 pertains to standardization and legislation activities. The deliverable visually describes the communication and dissemination activities and results (corresponding to T6.1 outcomes), including the project’s corporate identity, communication materials, dissemination activities through scientific presence at various events, and synergies. It also summarizes the methods used to reach different target groups and reports on the KPIs up to M18. These outcomes are collected from visits, engagements, dissemination, and other contacts generated through communication channels (website and social media), associated materials, and opportunities for dissemination via the HosmartAI channel.

Additionally, the report provides an initial overview of the plan related to standards use and contribution within the project’s activities (corresponding to T6.3 developments). It includes a specific contribution to compliance with national and regional legal frameworks regarding pilot data, incorporating a survey report with 14 recommendations of interest to be applied across all pilots (corresponding to T6.3 outcomes). This report summarizes the evidence of a recognizable project identity used throughout the project’s lifetime and measures the key performance indicators defined within the Description of Action (DoA).

This report is an evidence of the collaboration, efficient resource allocation, and enhancement of the HosmartAI project's scientific impact. The document not only identifies and reports on communication and dissemination activities but also places HosmartAI’s efforts within the context of Key Performance Indicators (KPIs). Additionally, it outlines the planned and ongoing activities related to contributions to standardization, thus serving as a cornerstone for responsible research practices. This ensures that the project's scientific endeavours are conducted with quality, transparency, and maximum impact.

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## Definitions, Acronyms and Abbreviations

Acronym/ Abbreviation	Title
<b>B.O.</b>	Business Objective
<b>DM</b>	Dissemination Manager
<b>DoA</b>	Description of Action
<b>HCC</b>	OPEN DEI Health and Care Cluster
<b>IPR</b>	Intellectual Property Rights
<b>KPI</b>	Key Performance Indicator
<b>PC</b>	Project Coordinator
<b>PU</b>	Public
<b>WP</b>	Work Package

Term	Definition
<b>Beneficiary</b>	EC term used to designate the legal entity which has signed the Grant Agreement. This term is often substituted by the common language term ‘partner’.
<b>Consortium</b>	Group of beneficiaries that have signed the Consortium Agreement and the Grant Agreement (either directly as Coordinator or by accession through the Form A).
<b>Consortium Agreement</b>	Contractual document signed by all the beneficiaries (and not the EC), explaining how the Consortium is managed and works together.
<b>Deliverable Leader</b>	Responsible for ensuring that the content of the deliverable meets the required expectations, both from a contractual point of view and in terms of usage within the project. Is also responsible for ensuring that the deliverable follows the deliverable process and is delivered on time.
<b>Description of Action</b>	Annex 1 to the Grant Agreement. It contains information on the work packages, deliverables, milestones, resources and costs of the beneficiaries, as well as a text with a detailed description of the action. The DoA is made of Part A (structured data collected in web forms and workplan tables) and Part B (text document describing the action elements).
<b>Dissemination</b>	EC term for communication of information to a wide audience.
<b>Grant Agreement</b>	Contractual document which defines the contractual scope of the HosmartAI project. It is signed between the EC and the beneficiaries.

# 1 Introduction

## 1.1 Project information



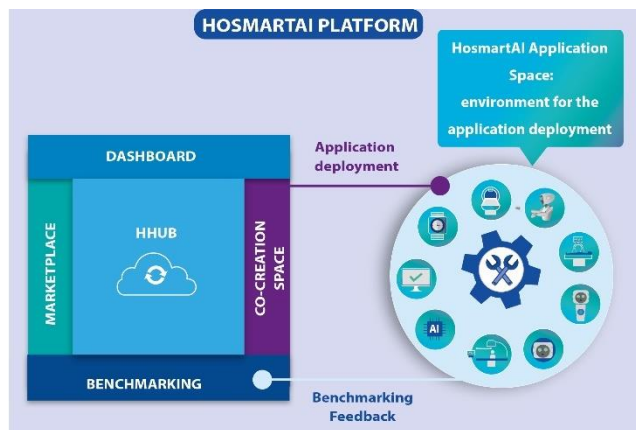
The HosmartAI vision is a strong, efficient, sustainable and resilient European **Healthcare system** benefiting from the capacities to generate impact of the technology European Stakeholders (SMEs, Research centres, Digital Hubs and Universities).



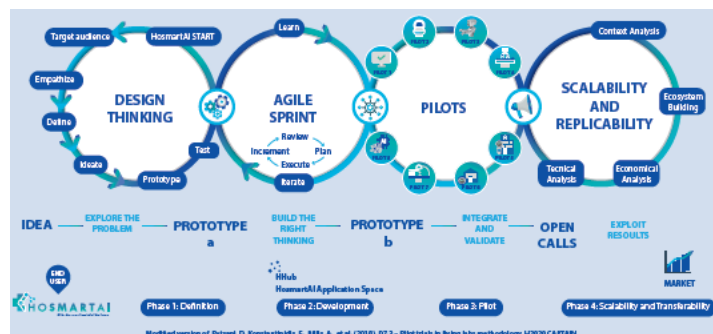
The HosmartAI mission is to guarantee the **integration** of Digital and Robot technologies in new Healthcare environments and the possibility to analyse their benefits by providing an **environment** where digital health care tool providers will be able to design and develop AI solutions as well as a space for the instantiation and deployment of an AI solutions.

HosmartAI will create a common open Integration **Platform** with the necessary tools to facilitate and measure the benefits of integrating digital technologies (robotics and AI) in the healthcare system.

A central **hub** will offer multifaceted lasting functionalities (Marketplace, Co-creation space, Benchmarking) to healthcare stakeholders, combined with a collection of methods, tools and solutions to integrate and deploy AI-enabled solutions. The **Benchmarking** tool will promote the adoption in new settings, while enabling a meeting place for technology providers and end-users.



**Eight Large-Scale Pilots** will implement and evaluate improvements in medical diagnosis, surgical interventions, prevention and treatment of diseases, and support for rehabilitation and long-term care in several Hospital and care settings. The project will target different **medical** aspects or manifestations such as Cancer (Pilot #1, #2 and #8); Gastrointestinal (GI) disorders (Pilot #1); Cardiovascular diseases (Pilot #1, #4, #5 and #7); Thoracic Disorders (Pilot #5); Neurological diseases (Pilot #3); Elderly Care and Neuropsychological Rehabilitation (Pilot #6); Fetal Growth Restriction (FGR) and Prematurity (Pilot #1).





To ensure a user-centred approach, harmonization in the process (e.g. regarding ethical aspects, standardization, and robustness both from a technical and social and healthcare perspective), the **living lab** methodology will be employed. HosmartAI will identify the appropriate instruments (**KPI**) that measure efficiency without undermining access or quality of care. Liaison and co-operation activities with relevant stakeholders and **open calls** will enable ecosystem building and industrial clustering.

HosmartAI brings together a **consortium** of leading organizations (3 large enterprises, 8 SMEs, 5 hospitals, 4 universities, 2 research centres, and 2 associations – see Table 1) along with several more committed organizations (Letters of Support provided).

*Table 1: The HosmartAI consortium.*

Number <sup>1</sup>	Name	Short name
1 (CO)	INTRASOFT INTERNATIONAL SA	<b>INTRA</b>
1.1 (TP)	INTRASOFT INTERNATIONAL SA	<b>INTRA-LU</b>
2	PHILIPS MEDICAL SYSTEMS NEDERLAND BV	<b>PHILIPS</b>
3	VIMAR SPA	<b>VIMAR</b>
4	GREEN COMMUNICATIONS SAS	<b>GC</b>
5	TELEMATIC MEDICAL APPLICATIONS EMPORIA KAI ANAPTIXI PROIONTON TILIATRIKIS MONOPROSOPIKI ETAIRIA PERIORISMENIS EYTHINIS	<b>TMA</b>
6	ECLEXYS SAGL	<b>EXYS</b>
7	F6S NETWORK IRELAND LIMITED	<b>F6S</b>
7.1 (TP)	F6S NETWORK LIMITED	<b>F6S-UK</b>
8	PHARMECONS EASY ACCESS LTD	<b>PhE</b>
9	TERAGLOBUS LATVIA SIA	<b>TGLV</b>
10	NINETY ONE GMBH	<b>91</b>
11	EIT HEALTH GERMANY GMBH	<b>EIT</b>
12	UNIVERZITETNI KLINICNI CENTER MARIBOR	<b>UKCM</b>
13	SAN CAMILLO IRCCS SRL	<b>IRCCS</b>
14	SERVICIO MADRILENO DE SALUD	<b>SERMAS</b>
14.1 (TP)	FUNDACION PARA LA INVESTIGACION BIOMEDICA DEL HOSPITAL UNIVERSIATRIO LA PAZ	<b>FIBHULP</b>
15	CENTRE HOSPITALIER UNIVERSITAIRE DE LIEGE	<b>CHUL</b>
16	PANEPISTIMIAKO GENIKO NOSOKOMEIO THESSALONIKIS AXEPA	<b>AHEPA</b>
17	VRIJE UNIVERSITEIT BRUSSEL	<b>VUB</b>
18	ARISTOTELIO PANEPISTIMIO THESSALONIKIS	<b>AUTH</b>
19	EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	<b>ETHZ</b>
20	UNIVERZA V MARIBORU	<b>UM</b>
21	INSTITUTO TECNOLÓGICO DE CASTILLA Y LEON	<b>ITCL</b>
22	FUNDACION INTRAS	<b>INTRAS</b>
23	ASSOCIATION EUROPEAN FEDERATION FORMEDICAL INFORMATICS	<b>EFMI</b>
24	FEDERATION EUROPEENNE DES HOPITAUX ET DES SOINS DE SANTE	<b>HOPE</b>

<sup>1</sup> CO: Coordinator. TP: linked third party.

## 1.2 Purpose, context and scope

The Dissemination, Communication & Standardization Activities Report – Final version is a comprehensive public deliverable, orchestrated by INTRAS (leader of T6.1) and EFMI (co-leader of T6.3), with a contribution of the HosmartAI partners. Guided by the dissemination and communication plan developed at the project's inception, this report systematically documents the activities undertaken to reach various target groups as defined in D6.1 “Dissemination, Communication & Ecosystem building Plan”. It aligns with the communication roadmap, which contributed to the milestones MS1 “Identification of HosmartAI Requirements and User Stories, Initial preparation of the Data Handling Plan, Communication roadmap” and to MS5 “Availability of 1st Functional Prototypes of AI-based solutions, 1st version of HosmartAI integrated framework, of detailed Pilot specification and 1st version of business plan. Engagement of stakeholders and other visibility enhancement activities” verification. Furthermore, it actively contributes to the dissemination, standardization and exploitation of results, connected to MS9 “Final HosmartAI Platform. Final HosmartAI Pilot results and evaluation. Engagement of stakeholders and other visibility enhancement activities. Final HosmartAI exploitation and business plan”, thereby detailing relevant dissemination results R5 and communication results R6 of the project business objective B.O.-2 achieved until M40. This includes the analysis of standardization activities and the impact from/to project results.

The Dissemination, Communication & Standardization Activities Report aims to:

- Identify the activities used to reach the different target groups defined on D6.1.
- Report the communication activities until M40.
- Report the dissemination activities until M40.
- Situate HosmartAI’s dissemination and communication in the Key Performance Indicators (KPIs).
- Describe the activities related to contribution to Standardization planned and taking place.

## 1.3 Structure and Content

The document is divided into the following chapters:

**Chapter 1** states the standardized Project’s introduction.

**Chapter 2** locates the communication, dissemination and exploitation objectives.

**Chapter 3** outlines the stakeholders reached until M40.

**Chapter 4** gives an overview of the communication materials and channels used in this final phase.

**Chapter 5** provides an overview of the dissemination activities carried out.

**Chapter 6** reports on the final results related to use and contribution to standards.

**Chapter 7** presents a resume of the key performance indicators (KPIs) of the dissemination and communication activities.

**Chapter 8** provides a summary and conclusions of the Dissemination, Communication & Standardization Activities Report - First Version.

## 2 Communication and Dissemination - overview

### 2.1 Impact

HosmartAI project is the digital transformation of the European healthcare sector. HosmartAI proposes a boost of an effective, efficient, sustainable and resilient European healthcare system through digital transformation.

This is achieved through the integration of digital and robot technologies in new healthcare environments and the possibility to analyse their benefits by providing an environment where digital healthcare tool providers will be able to design and develop AI solutions as well as a space for the instantiation and deployment of AI solutions.

To maximise the project impact, HosmartAI covers six discrete categories: 1) Dissemination activities; 2) Communication activities; 3) Research Data Management activities; 4) Exploitation planning activities; 5) Business planning activities; 6) IPR management activities.

Task T6.1 “Public awareness and dissemination planning, Implementation and Monitoring” proposes the design and implementation of dissemination activities dealing mainly with the diffusion of scientific and technological knowledge generated within the context of the project, aiming to address the full range of potential stakeholders. It also designs and implements a blend of communication and stakeholder engagement activities dealing mainly with raising awareness and attracting potential supporters, end users and customers.

### 2.2 Project’s Phases

At M40, one month before the official Project’s end, the HosmartAI consortium is in its third phase of the communication and dissemination strategy. Building up to the D6.4 (first report):

The **first phase (M1-M12) – “Action for Dissemination Awareness”** focused on the actions for dissemination for awareness. In this period, a communication and dissemination roadmap were defined and shared. These activities enabled the creation of an active community of potential users and collected feedback to be considered in the project’s activities and to support target dissemination of HosmartAI’s results.

The target audiences were reached mainly through online media. Physical communication materials, such as the project’s poster, were also used by HosmartAI partners.

The **second phase (M13-M24) – “Understanding and promoting clustering activities”**, was enriched with dissemination actions to groups of interest for understanding, promoting clustering activities amongst the industrial communities and all stakeholders involved in the Health and Care domains (with emphasis on the AI and robotics). The cluster activity to highlight is the integration on the Health and Care Cluster (later transformed to Healthy Living Cluster) and Horizon Results Booster.

Currently, the project is concluding its **third phase (M25-M41) – “Dissemination of project results to the stakeholders”**, setting the ground for **phase four (M41 forward) – “Phase IV: Post-project Communication”**.

Giving an overview, the current phase has focused on supporting and promoting the communication activities and disseminating the achieved project's results to the internal and external stakeholders.

The communication activities (and associated materials) will keep focusing on promoting HosmartAI to all target groups, providing a clear view of the project concept and goals, creating an active community of potential users and collect feedback to be considered in the project's activities and supporting target dissemination of HosmartAI results. These activities supported the exploitation strategy (connected to WP7 activities).

The dissemination activities broadcast the scientific and technological knowledge generated within and beyond the HosmartAI consortium, establishing and encouraging liaisons with other projects and initiatives for knowledge and innovation transfer, and engage the target audiences to get feedback, validating and ensuring wide applicability of the project's results.

For next directions, the consortium is developing further promotion and exploitation of the project's results beyond the contractual implementation. The ecosystem established will keep being reached to ensure sustainability and transfer of data and knowledge beyond the project duration, ensuring the continuation of research and the increased take-up of results.

## 2.3 Communication and Dissemination objectives

The HosmartAI project followed defined objectives to maximise the impact of the communication and dissemination activities.

### Communication Objectives

Aligned with the M18 efforts, the objectives related to communication activities were achieved with the straight collaboration of T6.1 – “Public awareness and dissemination planning, Implementation and Monitoring”, T6.2 – “Ecosystem Building and Industrial Clustering”, and T6.3 – “Standardization and Legislation”. These objectives were worked upon:

- Raising awareness of the project among the full range of potential adopters / users in the general public – This objective was achieved mainly through the continuous update of the project website, social media, meetings and events presence.
- To provide a clear view of the project's concept, goals and results by formulating adapted key messages, and preparing communication material – This objective was achieved through the newsletters, the continuous update of the project website and social media presence.
- To create an active community of potential users and collect feedback to be considered by the project's activities – This objective was achieved mainly through the newsletters and the continuous update of the project website and social media presence.
- To prepare the ground for the exploitation of project's results. – This objective was achieved mainly through the work carried out in T6.2, by building an ecosystem and industrial clustering for HosmartAI.

- To support targeted dissemination of the project’s results – This objective was achieved mainly through the newsletters and the continuous update of the project website and social media presence.

#### Dissemination Objectives

For the dissemination activities, the objectives were achieved with the straight collaboration of T6.1 – “Public awareness and dissemination planning, Implementation and Monitoring”, T6.2 – “Ecosystem Building and Industrial Clustering”, T6.3 – “Standardization and Legislation”, T6.6 – “Open Calls Planning and Management” and WP7. The following list, summarizes the objectives worked upon these 18 months:

- Maximize HosmartAI outreach in the target audiences via appropriate key messages – This objective was achieved mainly through the newsletters and the continuous update of the project website, social media presence and participation in dedicated events.
- Diffuse the scientific and technological knowledge generated in the project within and beyond the project’s consortium – This objective was achieved mainly through the continuous update of the project website (particularly, blog posts and deliverables), social media presence (particularly, events dissemination), participation in scientific events and the project’s newsletters.
- Establish liaisons with other projects and initiatives for knowledge and innovation transfer – This objective was achieved mainly through the work carried out within Health and Care Cluster, the Horizon Results Booster and other relevant projects within the same domains.
- Engage the targeted audiences to get feedback, validate and ensure broad applicability of the project’s results – This objective was achieved mainly through the participation in scientific events, the newsletters and participation in events that included the pitch events.
- Attract potential users / clients, foster the acceptance of the project’s outcomes by new and current users and stimulate the appropriate market segments to support the project’s exploitation strategy – This objective was achieved mainly through the work carried out in T6.2 and WP7.
- Encourage the development of further outcomes in new initiatives – This objective was partially achieved through T6.6.
- Contribute to and interact with International Standardization, mapping new standards development against some results from the project. This has been done in T6.3.

## 2.4 Communication and Dissemination plan

The structured plan elaborated and described in D6.1, was put into action through the communication and dissemination strategies (also described in D6.1). The roadmap was implemented by all HosmartAI consortium, following each partner’s domain of expertise.

## 2.5 Communication and Dissemination monitoring

The monitoring of the communication and dissemination activities followed the same protocol throughout the project's lifetime: with a focus on the dissemination log (excel format) that was defined on the D6.1.

All partners from HosmartAI consortium contributed to the communication and dissemination activities and, as good practice, continuously add the activities and their impact to this dissemination log that can be find on the project's SharePoint.

This monitoring method has proved to be essential to ensure the KPIs and the business objectives are accomplished. It also enabled the growth of the community's size beyond the project's lifetime, in particular, for the implementation of phase IV, "Post-project Dissemination".

### 3 Stakeholders results

To reach the different stakeholders in the most efficient format, the HosmartAI consortium followed a delineated roadmap that clearly stated the target audiences (Health Industry Stakeholders, research and academia, industry associations & technology clusters, participants, project partners and relevant stakeholder that were active under the AI and robotics fields, policy makers and standardized bodies, and the general public).

The diverse groups enabled HosmartAI to increase the impact of the different dimensions of the project, from the Platform to the large-scale pilots, to other transversal activities. Within the second phase's period, the main target audiences reached were: research and academia; industry associations & technology clusters; and the general public.

The main communication and dissemination channels used to reach the target audiences were: National and international conferences; Project's Website; social media; and publication in journals and presentations at conferences and press conferences.

The following titles summarise the main actions applied to reach the distinct target audiences and the number reached until M40. These numbers are collected from the dissemination log, after each partner's report of estimations for the attended events (participation or organization) and the website and social media presence.

#### Health Industry Stakeholders

For the health advocacy groups, national professional associations, hospitals, Long Term Care facilities, Home care providers, physicians, insurance companies, and pharmaceutical firms, HosmartAI's consortium registers, at least, **5955** people.

In the current state of the project (M40), this target audience was approached by the active role in events' participation.

#### Researchers and Academia

For the Individuals and universities engaged in research initiatives and/or working in research/academic institutes conducting research on health, AI and robotics, the HosmartAI team reached, at least, **4057** people.

In the current state of the project (M40), this target audience was approached by participating in the project's events and through the dissemination of the advancements within the social media presence and website.

#### Industry Associations & Technology Clusters

For the European initiatives & clusters, EU national unions related to AI and robotics, pitch events, the HosmartAI's consortium registered more than **5193** individuals.

In the current state of the project (M40), this target audience was approached by bilateral participation in events for knowledge exchange, dissemination of project's results to their members and inclusion of project's results to collaborative research activities (roadmap, white papers, position papers).



Participants, project partners and relevant stakeholders active in the H2020 related to AI and robotics in health sector

In the participants, project partners and relevant stakeholders active in the H2020 related to AI and robotics in health sector target audience, HosmartAI's consortium reached, at least, **14 teams** of other H2020 projects.

In the current state of the project (M40), this target audience was approached by identification of common topics and further synergies and collaborations for results promotion, dissemination of the project through other projects integrated in the Health and Care Cluster newsletters, and other cluster activities.

Policy makers, Standardisation Organisations

For policy makers and standardisation organizations (at any level), HosmartAI's consortium, reported **1508** individuals.

In the current state of the project (M40), this target audience was approached by dissemination and collaboration on inputs for standardization activities, and dissemination of the advancements within the social media presence and website.

For policy makers and standardisation organizations (at any level), HosmartAI's consortium, reported **1508** individuals.

General Public

For the general public, which include individuals who benefit from the project outcomes HosmartAI's consortium (such as end-users) reached more than **2530** people.

In the current state of the project (M40), this target audience was approached by dissemination of the project's advancements within the social media presence and website (newsletter included), and the local conferences and workshops, using press releases.

## 4 Communication mechanisms – report

The plan for communication activities continues to be carried out through the HosmartAI's partners' collaboration: individually, through each partner's entity activities; and collectively, through the partner's contribution to the global strategy.

### 4.1 Communication material

This chapter presents an overview of the previously created communication materials and the new ones generated for the internal and external activities, which includes the project identity, communication materials and the respective main results (when applied) of these communication activities.

The visuals were created under the direct collaboration of the WP7 activities. The complete marketing pack with the respective communication materials are showed in D7.7 "Marketing Pack – Final version".

#### 4.1.1 Visual Identity

The logo and respective visual identity incorporated a definition of the elements included in the corporate identity of the logo and the entire graphic line with the corresponding colours chosen for this project, to be used in any development that has arisen.

In this way, a brand identity has been maintained that has served as a guide for all partners in the development of any material related to the project.



Figure 1: HosmartAI visual identity.

The present section presents the **results of the communication materials** developed until M40. As previously explained, all materials are aligned with the corporate identity created.

#### 4.1.2 Factsheets and brochures

At M40, 12 projects' factsheets/brochures and more than 5 banners were created (see

Figure 2, Figure 3, Figure 4, Figure 5).



Figure 2: Factsheets overview.

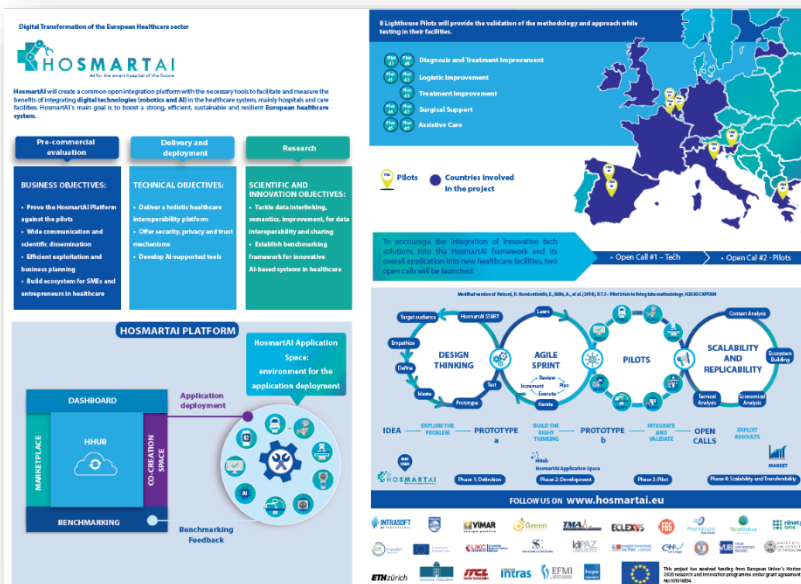


Figure 3: HosmartAI poster.



Figure 4: Banners.



Figure 5: Narratives.



Figure 6: Roll-ups.

### 4.1.3 Newsletters

The project newsletters consist in a mechanism to disseminate the project. Among the 6 newsletters to be created, the HosmartAI project has created 5 until M40: #1 issue (October 2021); #2 - special issue (March 2022); #3 issue (September 2022); #4 – special issue (May 2023); #5 (October 2023). The last newsletter (#6 issue) will be delivered in the following month of the Project’s end, to mark the date and include the most updated information as possible.

As explained in the previous report, each newsletter contains issues related to the project, such as news and progresses, events to be attended or already attended and milestones. Both newsletters launched were announced via MailChimp, through an email sent to all subscribers. These subscribers were gathered through newsletter subscription, embedded in the project’s website and advertised within the social media presence. Currently (M40), the HosmartAI newsletter has a total of **141 subscribers**. The complete issues of the newsletters can be found at the project’s website: <https://www.hosmartai.eu/knowledge-base/e-newsletters/>.

#### 4.1.3.1 HosmartAI Newsletters’ overview

*HosmartAI #1 Newsletter* was published in October 2021. This issue was published in the form of a catalogue. It aimed at the awareness of the project. The latest section was created to amplify the Health and Care Cluster that HosmartAI integrates.

*HosmartAI #2 Newsletter* was published in March 2022. This special issue was dedicated to the first open call - INNOVATE - for Startups/SMEs to develop technology components usable in AI-powered healthcare solutions.

*HosmartAI #3 Newsletter* was published in September 2022. This issue was dedicated to the project’s updates (co-creation activities, platform and pilots’ developments), events and opportunities to the readers, which marked the milestones delivery: MS4 and MS5.

*HosmartAI #4 Newsletter* was launched in May 2023. This special issue addressed the second open call results.

*HosmartAI #5 Newsletter* was launched in October 2023. This issue focused on the reached milestones: MS6, MS7 and MS8.



Figure 7: HosmartAI Newsletters overview.

#### 4.1.3.2 HosmartAI Newsletter – results

The newsletters of the HosmartAI had a significant number of subscribers (141 in total). The analytics suggest that it was not the most valued channel for the HosmartAI ecosystem. However, it is important to note that the newsletters were available around 1 month after in the Project’s newsletter, which provided a second channel to reach the newsletter (and not by email). Follows the key information to each issue launched in respect to the interaction with the email addresses of the subscribers.

Table 2: HosmartAI Newsletters – MailChimp analytics.

Issue No	Recipients	Opens (via email)	Clicks ('read more' button)
#1	38	-	-
#2	89	39	3
#3	109	37	8
#4	134	58	7
#5	134	46	8



#### 4.1.4 Videos

The YouTube channel (see Figure 8) proved to be a quite effective format to deliver the HosmartAI results. At M40, HosmartAI project launched 16 videos and is currently preparing at least 8 more videos to launch (final adjustments are being made). With the YouTube account @hosmartaiproject2686, the videos can be consulted in the following link: [Hosmartai Project - YouTube](#).

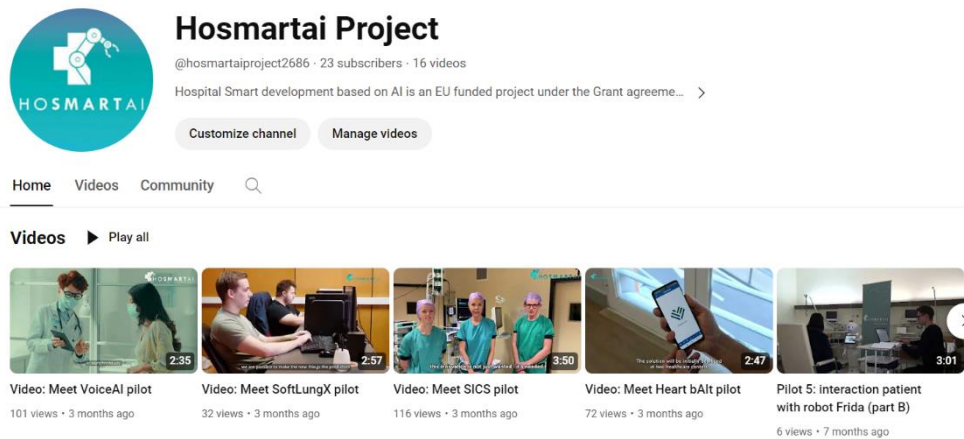


Figure 8: HosmartAI channel overview.

By M40, the HosmartAI channel had only 23 subscribers. However, its videos were popular, with **1.4K views** and **83.9 hours** of watching (see Figure 9).

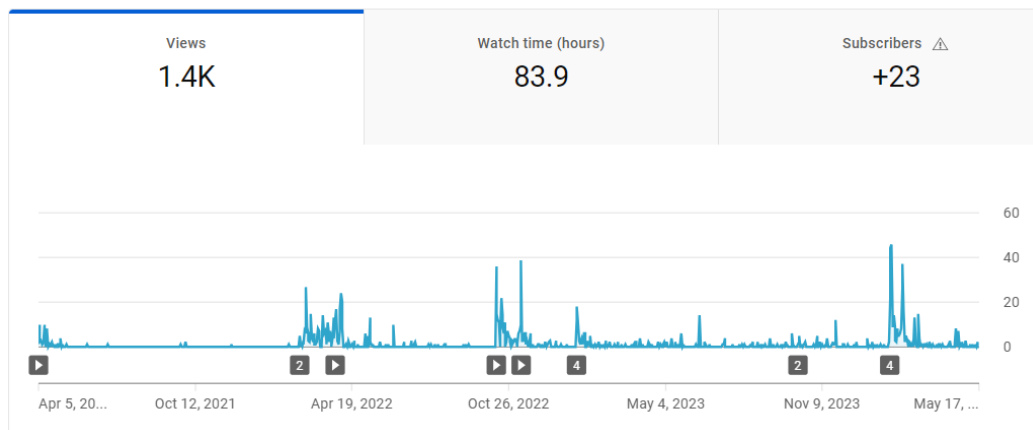


Figure 9: HosmartAI – YouTube channel – analytics.

The Open Call videos' content was the most uploaded, and consequently, the most viewed (see Table 3).

*Table 3: HosmartAI YouTube channel analytics.*

Video title	Views	View time (hours)	Subscribers	Impressions	Click-through rate of impressions (%)
Total	1414	83.9395	23	9753	3.76
HosmartAI Open Call #2 - EXPERIMENT webinar 1	246	34.1428	3	579	5.18
HosmartAI Open Call #1– INNOVATE webinar #1	239	26.246	1	648	5.4
Video: Interview SEGTNAN	117	1.8039	0	312	11.54
Video: Meet SICS pilot	116	1.8686	1	2196	2.55
HosmartAI at ERF2021	110	1.42	1	297	14.81
Video: Meet VoiceAI pilot	101	1.0356	0	839	3.1
HosmartAI Open Call #2 - EXPERIMENT webinar 2	96	4.8293	2	455	4.84
Video: Meet Heart bAlt pilot	72	1.05	0	1633	1.35
HosmartAI Open Call #1 - INNOVATE webinar #2	62	7.9855	1	218	12.39
HosmartAI Open Call #1 Teaser	47	0.351	2	152	12.5
Video: Interview EMMA	46	0.3808	0	819	1.95
Video: Meet SoftLungX pilot	32	0.4919	0	965	0.73
Video: Interview SNOMED	32	0.5084	0	191	5.24
Topic 3 (Open call #1 HosmartAI)	22	0.4999	0	0	-
Video: Interview FHIR-DIET	18	0.1631	0	153	4.58
Topic 1 (Open call #1 HosmartAI)	17	0.622	0	0	-
Pilot 5: interaction patient with robot Frida	10	0.0492	0	187	2.67
Pilot 5: interaction patient with robot Frida (part B)	6	0.0781	0	109	4.59
Topic 5 (Open call #1 HosmartAI)	6	0.1002	0	0	-
Topic 4 (Open call #1 HosmartAI)	5	0.0129	0	0	-
Topic 2 (Open call #1 HosmartAI)	5	0.1109	0	0	-
HosmartAI project	4	0.0534	0	0	-
HosmartAI Open Call #1	4	0.126	0	0	-
How to apply (Open call #1 HosmartAI)	1	0.01	0	0	-

## 4.2 HosmartAI website

HosmartAI main channel, the website, has been developed and launched in April 2021 (consult <https://www.hosmartai.eu/>). As explained on D6.1, the main portal was created after a consultation with the partners. The website includes the main subsections: the project;



platform; pilots; open calls; blog; events; knowledge base; contacts; subscribe. Most sections are powered by the cooperation between HosmartAI’s partners. Partners contribute to the pilots, platform and open call updates, and to feed the knowledge base and blog with the newest and relevant information about HosmartAI.

The HosmartAI website (see Figure 10) has been continuously updated with the progress and outcomes of the project.

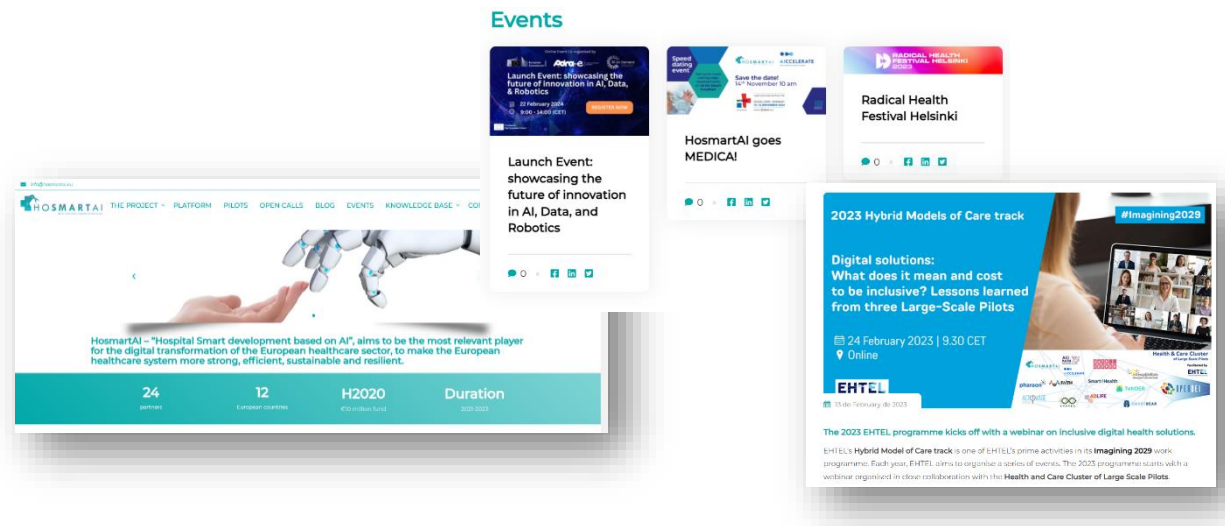


Figure 10: HosmartAI website overview.

#### 4.2.1 HosmartAI website – statistics

From **January to December 2023**, HosmartAI website counted a total of **13949 unique visitors** (see Table 4 ), 96 seconds average duration, 75096 page views.

Table 4: HosmartAI website – WordPress – analytics – 2023.

Year 2023	Total visits	Distinct visitors	Time of visit (sec)	Total visualization pages
January	544	392	118	650
February	1021	551	82	1376
March	3344	1303	78	4184
April	5187	1482	76	6303
May	4259	1440	106	4890
June	4258	1374	75	4759
July	3581	1453	86	5179
August	6564	2158	86	30698
September	5085	1618	62	10953
October	1740	1455	182	3784
November	400	173	149	535
December	1273	550	52	182
<b>TOTAL 2023</b>	<b>37256</b>	<b>13949</b>	<b>96</b>	<b>75096</b>

Figure 11 shows the distribution of the **visitors (2,989)** and **visits (5,546)** between **May 2023 and May 2024**.

The most visited sections were the main page and the blog section (1303 and 560 visits, respectively).

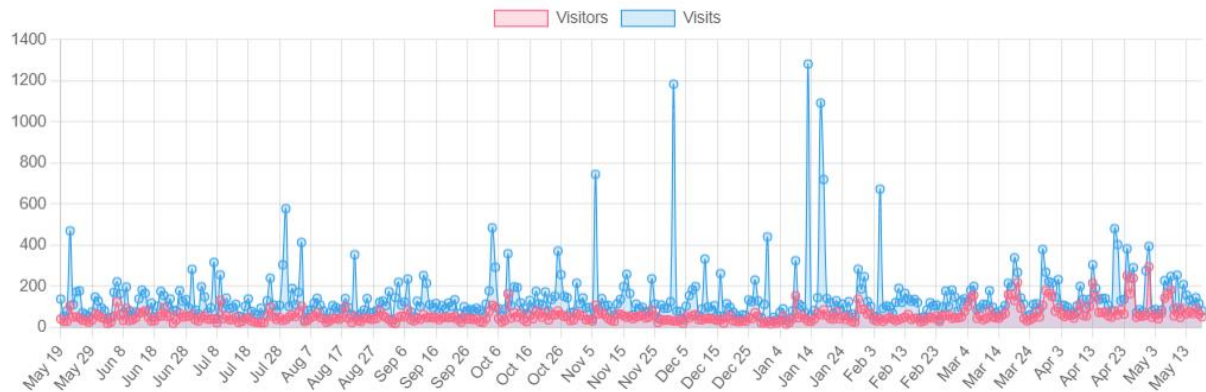


Figure 11: HosmartAI website – WordPress – analytics – over 1 year.

## 4.2.2 HosmartAI Blog

The DoA defined the creation of, at least, 50 blog posts. HosmartAI has a blog (<https://www.hosmartai.eu/blog/>) to update followers with current news that are relevant to the development of the project. The blog has currently **56 blog posts**.

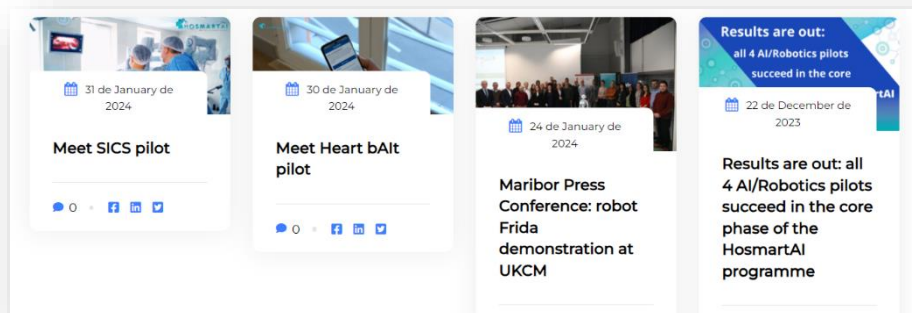


Figure 12: HosmartAI blog section overview.

### 4.2.2.1 Blog's impact

The blog section is one of the most visited pages of the HosmartAI website. Particularly, the most visited blog posts are described below (see Figure 12).

<input type="checkbox"/> Title	Author	Categories	Tags		Date		Hits
<input type="checkbox"/> Calling External Evaluators for HosmartAI Open Call #2!	admindiana	Blog HosmartAI	evaluators, external, opencall	—	Published 2022/10/24 at 08:17		3 799
<input type="checkbox"/> Calling External Evaluators for HosmartAI Open Call #1!	editor	Blog HosmartAI	—	—	Published 2022/03/11 at 10:49		4 776
<input type="checkbox"/> Exclusive Stakeholder Workshop	admindiana	Events	ecosystem, stakeholder, workshop	—	Published 2022/09/27 at 09:27		5 669
<input type="checkbox"/> Kick-off Meeting	adminhosmartai	Blog HosmartAI	—	—	Published 2021/04/12 at 17:10		0 486
<input type="checkbox"/> APPLICATIONS TO OPEN CALL #1 – INNOVATE ARE OPEN	editor	Blog HosmartAI	—	—	Published 2022/02/10 at 14:34		2 402
<input type="checkbox"/> Open Calls – FAQ	editor	Blog HosmartAI	OC#1, opencall	—	Published 2022/02/04 at 14:42		4 384
<input type="checkbox"/> <strong>Meet 4 innovative AI/Robotics pilots for smart healthcare</strong>	admindiana	Blog HosmartAI	—	—	Published 2023/04/06 at 17:12		0 378
<input type="checkbox"/> SEGTNAN	admindiana	Open Calls	—	—	Published 2022/06/30 at 10:21		9 369
<input type="checkbox"/> European Robotics Forum (ERF2021)	editor	Events	—	—	Published 2021/04/13 at 10:22		0 355

Figure 12: Blog Posts – hits.

## 4.3 Social Media

The HosmartAI project has three social media channels: **Twitter, LinkedIn and YouTube**. They match each other, using the same HosmartAI visual identity. The consistency of the images and colours ensures coherency for any visitors to all project media.

### 4.3.1 LinkedIn

HosmartAI adhered to LinkedIn in March 2021 with the creation of a personal profile ([HosmartAI EU | LinkedIn](#)). This profile gathered a total of **170 connections** and **102 posts**.

Later, in February 2022, HosmartAI proceeded with the creation of a company profile ([HosmartAI: Company | LinkedIn](#)). Currently, at M40, the HosmartAI LinkedIn reached the **1137 followers**.

The official HosmartAI profile (see Figure 13) enabled HosmartAI to create a community of companies, researchers, institutions and general public interested in and committed to this project.

Through this network HosmartAI shares the different news and developments related to this project: <https://www.linkedin.com/company/hosmartai/about/>. Also, it provides a portal to disseminate new communication materials, published deliverables, events and other relevant information.

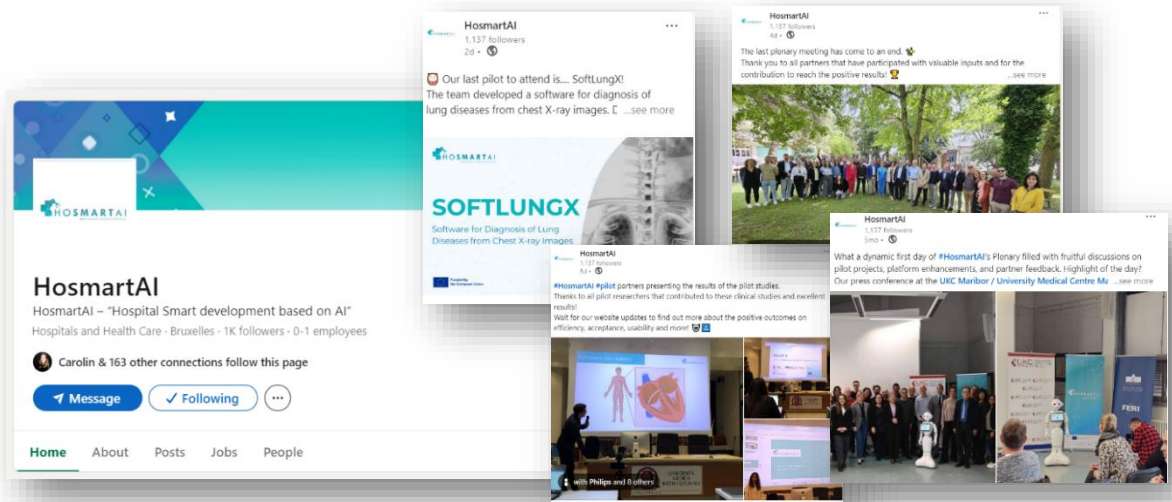


Figure 13: HosmartAI LinkedIn overview.

#### 4.3.1.1 LinkedIn Statistical Analysis

In the last year (May 2023 to May 2024), HosmartAI counted 15049 unique views and 27457 impressions (see Figure 14 and Figure 15).

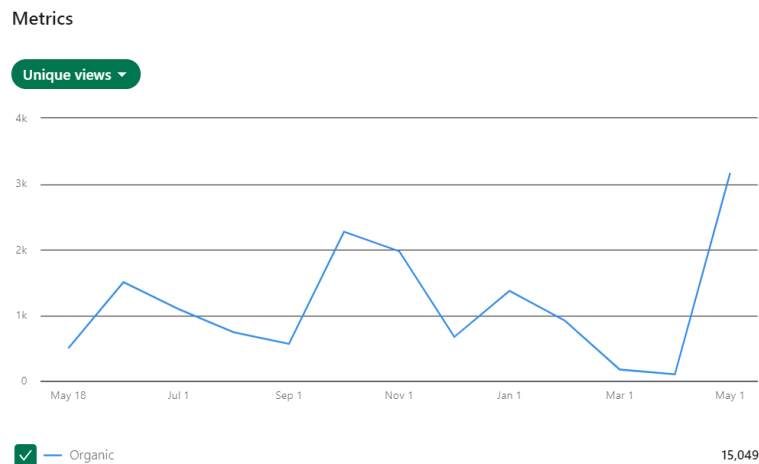


Figure 14: HosmartAI LinkedIn – years’ unique views.

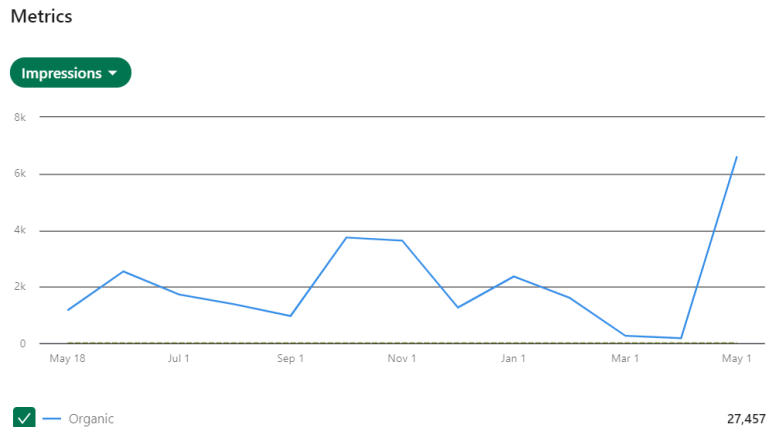


Figure 15: HosmartAI LinkedIn – years' impressions.

LinkedIn achieved a total of **300 posts** (including the personal LinkedIn) with more than **958 interactions**.

Table 5: LinkedIn analytics.

LinkedIn	Total (January 2021 - January 2022)	Total (March 2022 - March 2023)	Total (30 April 2023 - 28 April 2024)	Total
Number of posts	36	117	45	198
Interactions	4800	52526	956	58282
Engagement rate	8.40%	10.40%	9.98%	M=9.59%

In the last year, six LinkedIn posts reached more than 1K of impressions (see Figure 16):

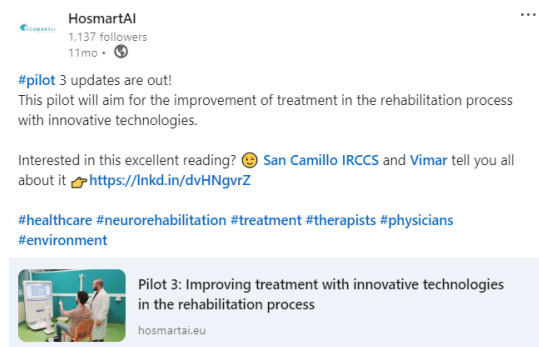
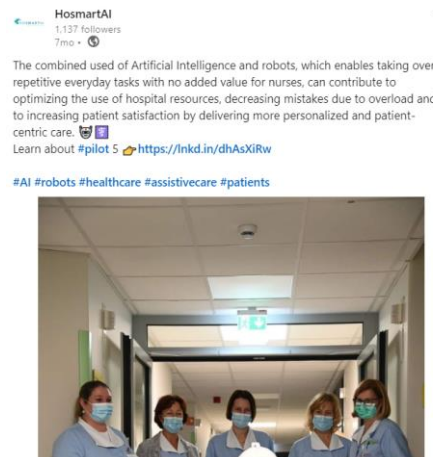
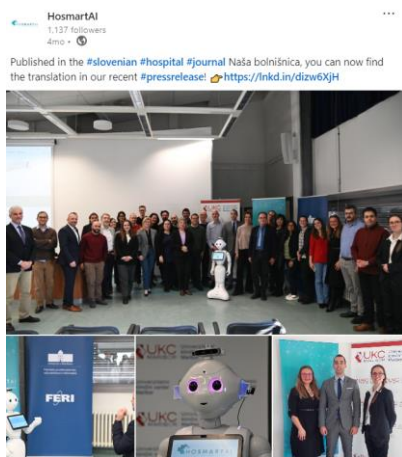


Figure 16: LinkedIn posts with most impressions – last year.

### 4.3.2 Twitter

The Twitter social media is mentioned as the most professional and widespread social in scientific communities, public institutions, enterprises and general public. The @HosmartAI (see Figure 17) account was created in March 2021: <https://twitter.com/HosmartAI>





Figure 17: HosmartAI twitter overview.

Twitter achieved a total of **332 posts** with more than **2370 interactions**.

Table 6: Twitter analytics.

Twitter	Total (January 2021 - January 2022)	Total (March 2022 - March 2023)	Total
Number of posts	172	160	332
Interactions	427	286	2375
	221	1441	
Engagement rate	2.20%	3.01%	M= 2.6%

## 4.4 Other communication activities by the consortium

Apart from the mentions in social media, other relevant communication activities are reported by HosmartAI’s partners:

- The Project newsletters disseminations that reached EIT contact points that included more than 1517 subscribers;
- The Project newsletters disseminations that reached HOPE contact points that included more than 1000 readers;
- “News about Robotka FRIDA in hospital” by UKCM/UM that reached Slovenian national television;
- The communication on the hospital television “Radiothérapie, La Recherche Avance” by CHUL that reached approx. 3500 patients/day;

- Dedicated item of IdiPAZ Informa Newsletter by SERMAS that reached more than 700 recipients.



## 5 Dissemination mechanisms – report

The dissemination plan has been carried out through the HosmartAI’s partners’ collaboration: individually, through each partner’s entity activities; and collectively, through the partner’s contribution to the global strategy.

The events that were organized and where HosmartAI partners have actively participated are herein stated (see Figure 18).



Figure 18: Events overview.

## 5.1 Organization of project events

Currently, HosmartAI sums **21 events organized or co-organized by the project** (see Table 7).

*Table 7: Organization of project events.*

Hosmart AI type of participation	Type of Event	Start Date	Finish Date	Title of event	Venue: City, Country	Event Organizer	Partner(s) involved	Dissemination Level
<b>Organizer</b>	Workshop	22-Sep-2021	22-Sep-2021	HosmartAI and Bridge Discovery Synergy	Zurich and online	ETHZ	ETHZ, SERMAS	International
<b>Co-organizer</b>	Roundtable	15-Oct-2021	15-Oct-2021	Meeting with a nursing home organization (San Rocco) in Southern Switzerland, and by an Hospital in Italy	Morbio Inferiore, Ticino, Switzerland	Nursing home society San Rocco	EXYS	National
<b>Only organizer</b>	Workshop	27-Jan-2022	27-Jan-2022	Workshop on inclusive digital health for empowering older adults	Valladolid, Spain	INTRAS	INTRAS	Local
<b>Co-organizer</b>	Forum	13-Oct-2021	13-Oct-2021	Program Councils Meeting and Open Laboratories Day	live	UMFERI	UMFERI	National
<b>Co-organizer</b>	Workshop	12-Sep-2021	17-Sep-2021	ETH Week 2021 Health for Tomorrow 12–17 September	Zurich, Switzerland	ETHZ	ETHZ	National
<b>Only organizer</b>	Other	12-Feb-2021	13-Feb-2021	Living Lab Circuit: presentation	INTRAS Headquarters -	INTRAS	INTRAS	National

<b>Hosmart AI type of participation</b>	<b>Type of Event</b>	<b>Start Date</b>	<b>Finish Date</b>	<b>Title of event</b>	<b>Venue: City, Country</b>	<b>Event Organizer</b>	<b>Partner(s) involved</b>	<b>Dissemination Level</b>
				on of HOSMART AI and Participatory methodology coming from CAPTAIN Project and Lessons Learn	MINDLab showroom (Valladolid, Spain)			
<b>Only organizer</b>	Workshop	23-Nov-2021	24-Nov-2021	EFMI-STC 2021, Satellite event - presenting HosmartAI H2020 project – EFMI perspective and contribution	Seville, Spain	EFMI	EFMI	International
<b>Only organizer</b>	Conference	28-May-2022	28-May-2022	Meet EFMI Luncheon - European Projects and Policy - HosmartAI	Nice, France	EFMI	EFMI	Global
<b>Organizer</b>	Workshop	24-nov-22	24-nov-22	Exclusive Stakeholder Workshop "Bringing AI & Robotics to the Hospital"	Best, Netherlands	EIT	HOPE	International
<b>Co-organizer</b>	Conference	08-feb-23	08-feb-23	The hospital of the future – advances in	ETH Zurich (Zurich, Switzerland)	ETHZ	ETHZ	International

Hosmart AI type of participation	Type of Event	Start Date	Finish Date	Title of event	Venue: City, Country	Event Organizer	Partner(s) involved	Dissemination Level
				healthcare robotics				
<b>Only organiser</b>	Conference	28-May-2022	28-May-2022	Workshop: Improving communication in digital health using EFMI MIMO	Nice, France	EFMI	EFMI	Global
<b>Only organiser</b>	Webinar	22-feb-22	22-feb-22	HosmartAI Open Call #1– INNOVATE webinar	Online	F6S	F6S, INTRA, ITCL, Ninety One	International
<b>Only organiser</b>	Webinar	29-mar-22	29-mar-22	HosmartAI Open Call #1: from A to Z	Online	F6S	F6S, INTRA, ITCL, Ninety One	International
<b>Only organiser</b>	Webinar	11-oct-22	11-oct-22	HosmartAI Open Call #2 – EXPERIMENT webinar	Online	F6S	F6S, INTRA, ITCL	International
<b>Only organiser</b>	Webinar	09-nov-22	09-nov-22	HosmartAI Open Call #2 Webinar - What's next and Q&A	Online	F6S	F6S, INTRA, ITCL	International
<b>Co-organiser</b>	Exhibition	01/03/2024	01/03/2024	presentation of technological projects that support the care of people in a situation of dependence	Valladolid, Spain	INTRAS	INTRAS	National

Hosmart AI type of participation	Type of Event	Start Date	Finish Date	Title of event	Venue: City, Country	Event Organizer	Partner(s) involved	Dissemination Level
Only organizer	Training	04/10/2024	04/10/2024	Pilot 6 professionals training	Valladolid, Spain	INTRAS	INTRAS	National
Only organizer	Training			Pilot 6 professionals training	Valladolid, Spain	INTRAS	INTRAS	National
Organizer	Training	07/06/2024	01/06/2024	Training with physiotherapists on HosmartAI services and technologies	Italy	IRCCS	IRCCS	Local
Organizer	Training	14/06/2024	01/06/2024	Training with physiotherapists on HosmartAI services and technologies	Italy	IRCCS	IRCCS	Local
Organizer	Workshop	4/19/2024	4/19/2024	A workshop with clinicians and experts from University Hospital Olomouc	Maribor	UKCM	UM	International

## 5.2 Participation to Conferences, Workshops and other events

At M40, HosmartAI reports participation in **87 events** (see Table 8).

*Table 8: Participation to events.*

<b>HosmartAI type of participation</b>	<b>Type of Event</b>	<b>Start Date</b>	<b>Finish Date</b>	<b>Title of Event</b>	<b>Venue: City, Country</b>	<b>Event Organiser</b>	<b>Partner(s) involved</b>	<b>Dissemination Level</b>
<b>Participant</b>	Forum	11-Jan-2021	4-Nov-2021	Web Summit	Lisbon, Portugal	Web summit	F6S	International
<b>Active Participant</b>	Other	19-Jan-2021	19-Jan-2021	ENOLL Catchup Meeting: short presentation of the HOSMART AI as a key new project at MINDLab	Online	ENNoL	INTRAS	International
<b>Active Participant</b>	Workshop	10-Mar-2021	10-Mar-2021	Final Workshops Event of the Wellco European Project	Online	GSS-CyL	INTRAS	International
<b>Active Participant</b>	Conference	20-Mar-2021	20-Mar-2021	Robotics and Automation in Electrophysiology SCRN Annual Awards Session	Online	Society of cardiac robotic navigation	ETHZ	International
<b>Participant</b>	Round table	29-Mar-2021	29-Mar-2021	OPEN DEI Healthcare Cluster Coordination meeting	Teleconference	OPEN DEI	INTRA	International
<b>Participant</b>	Round table	9-Apr-2021	9-Apr-2021	WG5 GDPR LSP HC CLUSTER meeting	Teleconference	OPEN DEI	EXYS	International

<b>Hosma rtAI type of partici pation</b>	<b>Type of Event</b>	<b>Start Date</b>	<b>Finish Date</b>	<b>Title of Event</b>	<b>Venue: City, Country</b>	<b>Event Organiser</b>	<b>Partne r(s) involv ed</b>	<b>Dissemi nation Level</b>
<b>Active Particip ant</b>	Confer ence	13- Apr- 2021	15- Apr- 2021	European Robotics Forum (ERF2021)	Teleconf erence	ERF	INTRA	Internati onal
<b>Active Particip ant</b>	Other	7- May- 2021	7- May- 2021	HCC WG2 meeting	Teleconf erence	OPEN DEI	UM	Internati onal
<b>Active Particip ant</b>	Confer ence	19- May- 2021	20- May- 2021	DIH-HERO Knowledg e Conferenc e 2021	Teleconf erence	DIH-HERO	ITCL	Internati onal
<b>Active Particip ant</b>	Forum	28- May- 2021	25- May- 2021	Virtual AI Mission Belgium 2021	Teleconf erence	NL-BE public authorities	INTRA	Internati onal
<b>Active Particip ant</b>	Confer ence	1-Jul- 2021	2-Jul- 2021	The 16th Internatio nal Conferenc e "Mechatr onic Systems and Materials " (MSM 2021)	Vilnius, Lithuani a	Vilnius Gediminas technical university, Faculty of Mechanics Kaunas University of Technology Lithuanian Academy of Sciences Opole University of Technology Bialystok Technical University IFTOMM National Committee of Lithuania	Ssol (former TGLV)	Internati onal
<b>Particip ant</b>	Forum	9-Sep- 2021	11- Sep- 2021	ARISTOTL E MEDICAL FORUM	Thessalo niki, Greece and Online	Aristotle University of Thessaloniki	AUTH	Internati onal

<b>Hosma rtAI type of partici pation</b>	<b>Type of Event</b>	<b>Start Date</b>	<b>Finish Date</b>	<b>Title of Event</b>	<b>Venue: City, Country</b>	<b>Event Organiser</b>	<b>Partne r(s) involv ed</b>	<b>Dissemi nation Level</b>
<b>Active particip ant</b>	Confer ence	16- Sep- 2021	17- Sep- 2021	RoMedinf 2021 - Digital Technolog y and Healthcar e	Teleconf erence	Romanian Society of Medical Informatics	EFMI	Internati onal
<b>Particip ant</b>	Forum	29- Sep- 2021	29- Sep- 2021	UBDAY EDGE COMPUTI NG FOR INDUSTRY	online	SYSTEMATIC	GC	National
<b>Particip ant</b>	Broker age	29/09/ 2021	01/10/ 2021	Meet in Italy for Life Sciences	Genova, Italy	EEN Liguria	VIMAR	Internati onal
<b>Active Particip ant</b>	Confer ence	7-Oct- 2021	7-Oct- 2021	10th Strategic Conferenc e Value of innovatio n Digital transform ation for informed decision- making in healthcar e	Hybrid (live + stream)	EIG (Forum)	UM	Internati onal
<b>Active Particip ant</b>	Confer ence	25- Oct- 2021	25- Oct- 2021	1st Meeting CWA Informed Consent Guide ((Lydia work group, OPEN DEI)	Online	CWA (CEN Workshop Agreement)	EXYS	Internati onal
<b>Active Particip ant</b>	Confer ence	11- Nov- 2021	12- Nov- 2021	Fifth annual internatio	Miami, USA and Online	SCRN	ETHZ	Internati onal



HosmarAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
				nal SCRN meeting				
<b>Active Participant</b>	Other	12-Nov-2021	13-Nov-2021	international Congress of Health Sciences (ICHES-IDU 2021)	Hybrid (live + stream)	İzmir Demokrasi University	UM	International
<b>Participant</b>	Forum	25-Nov-2021	27-Nov-2021	FORUM INNOVATION DEFENSE	PARIS	French Ministry of Armies	GC	National
<b>Active Participant</b>	Symposium	30-Nov-2021	1-Dec-2021	2021 Thought Leader EHTEL Symposium	Online	EHTEL	ITCL	International
<b>Active Participant</b>	Symposium	30-Nov-2021	1-Dec-2021	EHTEL Symposium 2021	Online	EHTEL.eu	TCL	International
<b>Active Participant</b>	Symposium	30-Nov-2021	1-Dec-2021	2021 Thought Leader EHTEL Symposium	Online	EHTEL	HOPE, ITCL	International
<b>Active Participant</b>	Conference	07/01/2022	07/01/2022	Next Door Project conference focused on "Activate Community to fight isolation and loneliness"	Portugal	Aproximar	INTRAS	International

Hosma rtAI type of partici pation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partne r(s) involv ed	Dissemi nation Level
				of older citizens"				
<b>Particip ant</b>	Forum	18- Jan- 2022	19- Jan- 2022	ECS brokerage event	online	INSIDE, AENEAS and EPoSS	Ssol	Internati onal
<b>Particip ant</b>	Pitch event	27- Jan- 2022	28- Jan- 2022	Health Tech Hub Styria Pitch & Partner 2022	online	SFG - Steirische Wirtschaftsf örderung - Enterprise Europe Network	Ssol	Internati onal
<b>Active Particip ant</b>	Pitch event	11- Feb- 2022	12- Feb- 2022	Student Info Days	Maribor, Slovenia	UM	UM	National
<b>Particip ant</b>	Other	23- feb-22	24- feb-22	AI4 Healthcar e Summit 2022	Online		F6S	Internati onal
<b>Active Particip ant</b>	Trade fair	1-Mar- 2022	2-Mar- 2022	AgeinFit 2022	Online	Lille and online	VIMAR	Internati onal
<b>Particip ant</b>	Other	02- mar- 22	02- mar- 22	Digital Health & Wellness Summit 2022 – ECHAAllian ce at 4YFN Digital Health	Barcelon a, Spain		F6S	Internati onal
<b>Particip ant</b>	Other	06- mar- 22	09- mar- 22	ViVE 2022 New Health Informati on	Miami Beach and virtual		F6S	Internati onal

HosmartAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
				Technology Event				
<b>Active Participant</b>	Workshop	31-Mar-2022	31-Mar-2022	7th URV Doctoral Workshop in Computer Science and Mathematics	Tarragona, Spain	URV	UM	International
<b>Active Participant</b>	Brokerage	3-May-2022	4-May-2022	KDT Kick-off and Brokerage 2022	Brussels, Belgium	AENEAS, EPOSS and Inside	SSOL	International
<b>Active Participant</b>	Conference	11-May-2022	11-May-2022		Laško, Slovenia	Slovenian Society of Nursing and Midwifery	UKCM, UM	National
<b>Participant</b>	Conference	12-May-2022	12-May-2022	IVUS 2022: 27th International Conference on Information Technology	Kaunas, Lithuania	Vytautas Magnus University, Kaunas University of Technology and Vilnius University Kaunas Faculty of Humanities	Ssol (former TGLV)	International
<b>Active Participant</b>	Symposium	13-May-2022	13-May-2022	18th Symposium on Nursing and Midwifery in Slovenia	Brdo pri Karnju, Slovenia	Slovenian Society of Nursing and Midwifery	UM	National

HosmarAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
Active Participant		30-May-2022	30-May-2022	Press event where the robot officially enters the hospital	Maribor, Slovenia	Maribor	UKCM, UM	National
Participant	Conference	2-Jun-2022	3-Jun-2022	LOGIN	Vilnius, Lithuania	Litexpo	SSol	International
Active Participant	Conference	5-Jun-2022	8-Jun-2022	ISPIM Innovation Conference 2022	Copenhagen, Denmark	ISPIM	INTRAS	International
Active Participant	Conference	26-Jun-2022	29-Jun-2022	The Hamlyn Symposium on Medical Robotics 2022	London, UK	Hamlyn Centre for Robotic Surgery, Imperial College	ETHZ	Global
Active Participant	Other	28-Jun-2022	28-Jun-2022	Digital health days	Brussels, Belgium	UNINOVA, InterOp-Vlab	UM	International
Participant	Conference	24/08/2022	27.08.2022	Joint International Meeting: 22nd EAA Congress, 15th ISGA Congress, 5th International Conference of Evolutionary Medicine	Vilnius, Lithuania	Institute of Biomedical Sciences, European Anthropology Association (EAA) and Congress Committee Faculty of Medicine Vilnius University	SSOL	International

<b>Hosma rtAI type of partici pation</b>	<b>Type of Event</b>	<b>Start Date</b>	<b>Finish Date</b>	<b>Title of Event</b>	<b>Venue: City, Country</b>	<b>Event Organiser</b>	<b>Partne r(s) involv ed</b>	<b>Dissemi nation Level</b>
<b>Particip ant</b>	Other	08- sep-22	09- sep-22	RODIN Summer Camp led by the Robotics Digital Innovatio n Networks	Oslo, Norway		F6S	Internati onal
<b>Active Particip ant</b>	Round table	13/09/ 2022	30/09/ 2022	Science Summit (SSUNGA- 77)	New York, USA	UN	INTRAS	Global
<b>Active Particip ant</b>	Trade fair	14/09/ 2022	18-09- 2022		54. MOS, Celje Showgro und		UM	Internati onal
<b>Particip ant</b>	Other	28- sep-22	29- sep-22	TechChill Milano	Milano, Italy		F6S	Internati onal
<b>Invited speaker</b>	Broker age	25/10/ 2022	27.10. 2022	BeHealth 2022	Buchares t, Romania	RoHealth- Cluster for Health and Bioeconomy	EFMI	Internati onal
<b>Active Particip ant</b>	Confer ence	26/10/ 2022	29-10- 2022	18th Internatio nal Conferenc e of Computat ional Methods	Galaxy Hotel, Heraklio n, Crete, Greece		UM	Internati onal
<b>Invited speech</b>	Confer ence	23- Nov- 2022	23- Nov- 2022	11th strategic conferenc e Value of Innovatio n	Ljubljana , Cankarje v Dom	Pharma Forum	UM, UKCM	Internati onal

<b>Hosma rtAI type of partici pation</b>	<b>Type of Event</b>	<b>Start Date</b>	<b>Finish Date</b>	<b>Title of Event</b>	<b>Venue: City, Country</b>	<b>Event Organiser</b>	<b>Partne r(s) involv ed</b>	<b>Dissemi nation Level</b>
<b>Particip ant</b>	Forum	24- Nov- 2022	25- Nov- 2022	European Forums on Electronic Compone nts and Systems	Amsterd am, Netherla nds	AENEAS, EPoSS and Inside	SSOL	Internati onal
<b>Particip ant</b>	Forum	29- Nov- 2022	30- Nov- 2022	EUROPE'S LEADING 5G ECOSYSTE M FORUM	Riga, Latvia	Electronic Communica tion Office of Latvia, LIAA, ITU	SSOL	Internati onal
<b>Active Particip ant</b>	Exhibit ion	02-dic- 22	03-dic- 22	Inaugurati on of CIAB (Compreh ensive Cancer Center Arsène Burny) od CHU de Liège	Liège, Belgium	Comprehen sive Cancer Center of the Liège University Hospital	CHUL	National
<b>Active Particip ant</b>	Other	02-dic- 22	04-dic- 22	19th Panhellen ic Scientific Event, Innovatio ns and developm ents in gastroent erology	Athens, Greece	Greek professional association of gastroenter ologists	AUTH	National
<b>Active Particip ant</b>	Other	13- feb-23	13- feb-23	HL7 Hellas General Assembly	Athens, Greece	HL7 Hellas	AUTH	National
<b>Active Particip ant</b>	Trade fair	23- feb-23	23- feb-23	FITECU – I INTERNAT IONAL FAIR OF INNOVATI ON AND TECHNOL	Villardec iervos, Spain	Cluster SIVI	INTRAS ITCL	National

HosmarAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
				OGY AT THE SERVICE OF CARE				
<b>Active Participant</b>	Round table	09-mar-23	10-mar-23	Health and Care cluster meeting	Lisbon, Portugal	EC, EHTEL, UNINOVA	INTRAPhysically, other HosmarAI partners remotely	International
<b>Active Participant</b>	Workshop	10-abr-23	13-abr-23	Smart Diaspora 2023	Timisoara, Romania	ATU, UEFISCDI, ROGOV	EFMI	International
<b>Active Participant</b>	Conference	16-abr-23	16-abr-23	EHRA 2023	Barcelona, Spain	European society of cardiology	ETHZ	International
<b>Active Participant</b>	Exhibition	19-abr-23	21-abr-23	Hannover Messe 2023	Hannover Germany	EU project Athena	UM	International
<b>Active Participant</b>	Symposium	20-abr-23	21-abr-23	2023 International Symposium on Medical Robotics (ISMR)	Atlanta, USA	IEEE	ETHZ	International
<b>Active Participant</b>	Conference	11-may-23	05-dic-23	LOGIN 2023	Vilnius, Lithuania	-	SSOL	International



HosmartAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
Active Participant	Conference	22/05/2023	24/05/2023	ICIC23	Antwerp, Flanders	IFIC	INTRAS	International
Invited Speaker	Conference	14/06/2023	14/6/2023	8th Health Technology Assessment Conference 2023	Athens, Greece	Boussias Communication	PhE	National (GR)
Active Participant	Conference	08-sep-23	09/09/2023	Contemporary materials conference	Banja Luka, Bosnia and Herzegovina	-	SoftLun gX	International
Active Participant	Conference	22-sep-23	24-sep-23	4th "Sports Cardiology 2023" Congress	International Olympic Academy, Ancient Olympia, GREECE	Spyridon Papaioannou	TMA	International
Active Participant	Conference	23-sep-23	24-sep-23	Development Conference on NAFPAKTOS 2030	Nafpaktos International Conference Center, Nafpaktos, GREECE	Plan Consulting Group	TMA	International
Active Participant	Conference	28/09/2023	29/09/2023	2nd International Conference on Chemo and Bioinformatics	Kragujevac, Serbia	-	SoftLun gX	International

HosmarAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
				(ICCBKIG 2023)				
<b>Participant</b>	Networking event	17-oct-23	17-oct-23	Dahua Partner Day 2023	Santa Eulalia del Rio, Ibiza, Spain	Dahua Technology	ITCL	International
<b>Active Participant</b>	Poster session	10-nov-23	11-nov-23	“Tailored Physiotherapy: una strategia per il futuro”	Bologna, Italy	AIFI	IRCCS	National
<b>Active Participant</b>	Conference	12-nov-23	15-nov-23	ISPOR2023	Copenhagen, Denmark	ISPOR	UM, UKCM	International
<b>Active Participant</b>	Trade fair	13-nov-23	16-nov-23	MEDICA Trade fair	Dusseldorf, Germany	MEDICALLIANCE	TMA	Global
<b>Active Participant</b>	Trade fair	13-nov-23	16-nov-23	MEDICA Trade fair	Dusseldorf, Germany	MEDICALLIANCE	INTRAS	Global
<b>Active Participant</b>	Trade fair	14-nov-23	14-nov-23	MEDICA Trade fair	Dusseldorf, Germany	MEDICALLIANCE	CHUL	Global
<b>Active Participant</b>	Trade fair	14-nov-23	16-nov-23	MEDICA Trade fair	Dusseldorf, Germany	MEDICALLIANCE	HOPE, Green Comm	Global
<b>Active Participant</b>	Trade fair	14-nov-23	14-nov-23	MEDICA trade fair	Dusseldorf, Germany	MEDICALLIANCE	EIT/HOPE 10 HosmarAI partner	International

HosmarAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
							s, 3 AICCEL ERATE partner s	
<b>Active Participant</b>	Trade fair	15-nov-23	15-nov-23	MEDICA trade fair	Dusseldorf, Germany	MEDICALLIANCE	Netcompany-Intrasoft	Global
<b>Active Participant</b>	Conference	22-nov-23	23-nov-23	WIMA Member & Exhibition and Conference	Piraeus, Greece	WIMA	TMA	National
<b>Active Participant</b>	Forum	24-nov-23	24-nov-23	Self-care as an introduction to quality treatment of a neurological patient	Ljubljana, Slovenia	ZZBNS (national association)	UM, UKCM	National
<b>Participant</b>	Conference	24-ene-24	24-ene-24	7th annual conference Slide2Open Shipping Finance 2024	Athens, Greece	Slide2Open	TMA	National
<b>Invited speaker</b>	Congress	26-feb-24	29-feb-24	Mobile World Congress 2024	Barcelona, Spain	GSM Association	ITCL	International
<b>Participant</b>	Congress	05/03/2024	05/07/2024	ESTRO 2024 Radiation Oncology: Bridging	Glasgow, UK	ESTRO.org	ITCL	International

HosmartAI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
				the Care Gap				
<b>Invited Speaker</b>	Symposium	14-mar-24	14/03/2024	Simpozij Digitalizacija v zdravstvu in umetna inteligenca: Inovacije za boljšo prihodnost	Celje, Slovenia	Faculty of Nursing (not part of UM)	UM, UKCM	National
<b>Active Participant</b>	Trade fair	14/03/2024	14/03/2024	Technosocial 2024 Andalucia	Andalucia	Consejería de Inclusión Social, Juventud, Familias e Igualdad de la Junta de Andalucía	INTRAS	National
<b>Active Participant</b>	Conference	22/03/2024	22/03/2024	ENEGG VIII	Portugal	ANG	INTRAS	National
<b>Invited presentation</b>	Event	19/04/2024	19/04/2024	Festival of Robotics	Celje, Slovenia	Tehno Park Celje	UM, UKCM	National
<b>Invited presentation</b>	Event	20/04/2024	20/04/2024	Festival of Robotics	Celje, Slovenia	Tehno Park Celje	UM	National
<b>Invited presentation</b>	Private Event	23/04/2024	23/04/2024	Festival of Robotics	Celje, Slovenia	Tehno Park Celje	UM	National

### 5.3 Workshops organised by HosmartAI

As previously shown, Table 9 filters the **7 workshops organized by HosmartAI**.

*Table 9: Workshops organised by HosmartAI.*

Hosmart AI type of participation	Type of Event	Start Date	Finish Date	Title of Event	Venue: City, Country	Event Organiser	Partner(s) involved	Dissemination Level
<b>Organizer</b>	Workshop	22-Sep-2021	22-Sep-2021	HosmartAI and Bridge Discovery Synergy	Zurich and online	ETHZ	ETHZ, SERMAS	International
<b>Only organiser</b>	Workshop	27-Jan-2022	27-Jan-2022	Workshop on inclusive digital health for empowering older adults	Valladolid, Spain	INTRAS	INTRAS	Local
<b>Co-organiser</b>	Workshop	12-Sep-2021	17-Sep-2021	ETH Week 2021 Health for Tomorrow 12–17 September	Zurich, Switzerland	ETHZ	ETHZ	National
<b>Only organiser</b>	Workshop	23-Nov-2021	24-Nov-2021	EFMI-STC 2021, Satellite event - presenting HosmartAI H2020 project – EFMI	Seville, Spain	EFMI	EFMI	International

				perspective and contribution				
<b>Organiser</b>	Workshop	24-nov-22	24-nov-22	Exclusive Stakeholder Workshop "Bringing AI & Robotics to the Hospital"	Best, Netherlands	EIT	HOPE	International
<b>organizer</b>	Workshop	11-Mar-2021	11-Mar-2021	Co-creation workshop with UM FERI and researchers	Maribor, Slovenia	UKCM	UKCM	Local
<b>Organiser</b>	Workshop	19/04/2024	19/04/2024	A workshop with clinicians and experts from University Hospital Olomouc	Maribor	UKCM	UM	International

## 5.4 Publications

A total of **28 scientific publications** and **X non-scientific publications** have been generated in the HosmartAI consortium. The next two sub-sections report these publications.

### 5.4.1 Scientific Publications (Open access)

Currently, HosmartAI's consortium sums **34 scientific publications**. Table 10 describes these **28** open access publications peer reviewed. Table 11 describes the **6** scientific publications with no peer review.

Table 10: Scientific publications – OA.

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-reviewed	Open access to the publication
-	Publication in Conference proceeding/workshop	Artificial Intelligence (AI)-assisted Clinical Decision Support Tool for the Prediction of Obstructive Coronary Artery Disease on Coronary Computed Tomography Angiography: Study Protocol	42nd Panhellenic Congress of Cardiology	21-23/10/2021	Congress publications book	2021	YES	YES - Green OA
<a href="http://dx.doi.org/10.1136/bmjopen-2021-054310">http://dx.doi.org/10.1136/bmjopen-2021-054310</a>	Article in journal	Study protocol: a survey exploring patients' and healthcare professionals' expectations, attitudes and ethical acceptability regarding the integration of socially assistive humanoid robots in nursing	BMJ Open	Volume 12, Issue 4	online	2022	YES	YES - Gold OA
<a href="https://www.zbornica-zveza.si/wp-content/uploads/2022/04/zbornik_Novosti-in-znanje_Apr22_V1.pdf">https://www.zbornica-zveza.si/wp-content/uploads/2022/04/zbornik_Novosti-in-znanje_Apr22_V1.pdf</a>	Publication in Conference proceeding/workshop	Presentation of the HOSMARTAI project (robot in healthcare)	Publication in Conference proceeding/workshop	05/11/2022	Proceedings of a peer-reviewed lecture	2022	YES	
<a href="https://doi.org/10.1177/205">https://doi.org/10.1177/205</a>	Article in journal	A randomized controlled trial for evaluating the	Digital Health	25/09/2022	online	2022	YES	YES - Gold OA



DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
<a href="https://doi.org/10.3389/fmed.2022.989808">52076221129068</a>		impact of integrating a computerized clinical decision support system and a socially assistive humanoid robot into grand rounds during pre/post-operative care						
<a href="https://doi.org/10.3389/fmed.2022.989808">https://doi.org/10.3389/fmed.2022.989808</a>	Article in journal	A protocol on the effects of interactive digital assistance on engagement and perceived quality of care of surgery patients and self-efficacy and workload of staff.	<i>Frontiers in medicine</i>	17/10/2022	online	2022	YES	YES - Gold OA
<a href="https://doi.org/10.3390/diagnostics12112683">https://doi.org/10.3390/diagnostics12112683</a>	Article in journal	Scoping Review on the Multimodal Classification of Depression and Experimental Study on Existing Multimodal Models		03/11/2022	online	2022	YES	YES - Gold OA
<a href="https://doi.org/10.5281/zenodo.7300008">https://doi.org/10.5281/zenodo.7300008</a>	Publication in Conference proceeding/workshop	A short review of factors associated with acceptance of social robots in healthcare and lessons for their implementation in oncological settings	18th International Conference of Computational Methods in Sciences and Engineering (Session Digital	26-oct-22	online	2022	YES	YES - Gold OA

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
			Health Interventions Big Data for Personalized Cancer Survivorship)					
<a href="https://zenodo.org/record/7300123#.Y2k4lOTMI-U">https://zenodo.org/record/7300123#.Y2k4lOTMI-U</a>	Publication in Conference proceeding/workshop	Dialog Management System for Pepper Robot on HosmartAI Platform	18th International Conference of Computational Methods in Sciences and Engineering (Session Digital Health Interventions Big Data for Personalized Cancer Survivorship)	26-oct-22	online	2022	YES	YES - Gold OA
	Publication in Conference proceeding/workshop	An Evaluation Platform for Catheter Ablation Navigation		April, 2023	IEEE Xplore	2023	YES	

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
<a href="https://www.impresedilines.it/vimar-view-wireless-hosmartai/">https://www.impresedilines.it/vimar-view-wireless-hosmartai/</a>	Articles (industry magazines)	Vimar sarà il partner italiano del progetto europeo HosmartAI	Imprese edili	9-Mar-2021				
<a href="https://doi.org/10.1016/j.ijmedinf.2022.104860">https://doi.org/10.1016/j.ijmedinf.2022.104860</a>	Article in journal	Medical informatics and digital health multilingual ontology (MIMO): A tool to improve international collaborations	International Journal of Medical Informatics	Volume 167, November 2022	Netherlands	2022	YES	YES - Gold OA
<a href="https://doi.org/10.1145/3575879.3576014">https://doi.org/10.1145/3575879.3576014</a>	Publication in Conference proceedings/workshop	Towards an Explainable AI-based Tool to Predict the Presence of Obstructive Coronary Artery Disease	Proceedings of the 26th Pan-Hellenic Conference on Informatics	nov-22	Athens, Greece			
<a href="https://link.springer.com/article/10.1007/s12369-023-01039-4">https://link.springer.com/article/10.1007/s12369-023-01039-4</a>	Article in journal	Using Structural Equation Modeling to Explore Patients' and Healthcare Professionals' Expectations and Attitudes Towards Socially Assistive Humanoid Robots in Nursing and Care Routine	International Journal of Social Robotics	15th September 2023	online		YES	YES - Gold OA
	Publication in Conference proceedings/Workshop	Machine learning in medical image processing – from medical images to automated diagnosis	International Scientific Conference Contemporary Materials – Banja			2023	YES	YES

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
			Luka (September 8th, 2023)					
	Publication in Conference proceedings/ Workshop	Transfer Learning with Deep Convolutional Neural Networks for Respiratory Disease Classification in X-ray Images	The 23rd IEEE International Conference on Bioinformatics and Bioengineering (BIBE) (Virtual)			2023	YES	YES
<a href="https://doi.org/10.1142/S2424905X23400056">https://doi.org/10.1142/S2424905X23400056</a>	Article in journal	Robotic Catheter Ablation: An Evaluation and Prototyping Platform	Journal of Medical Robotics Research	01-ene		2024	YES	
<a href="https://doi.org/10.1016/j.jval.2023.09.2237">https://doi.org/10.1016/j.jval.2023.09.2237</a>	Publication in Conference proceeding/workshop	MT8 Assessing Feasibility of Socially Assistive Humanoid Robots in Assisting in Nursing Routine	Value in Health	dic-23		2023	YES	YES - Green OA
<a href="https://doi.org/10.1109/ICCN558795.2023.10193717">https://doi.org/10.1109/ICCN558795.2023.10193717</a>	Publication in Conference proceeding/workshop	Collaborative Robot Learning for Indoor Environment	Publication in Conference proceeding/workshop	19-22 June 2023	IEEE Xplore	2023	YES	

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
<a href="https://doi.org/10.1016/j.jval.2022.09.285">https://doi.org/10.1016/j.jval.2022.09.285</a>	Publication in Conference proceeding/workshop	SELECTION OF KEY PERFORMANCE INDICATORS FOR AN ECONOMIC EVALUATION OF ARTIFICIAL INTELLIGENCE TECHNOLOGIES. THE CASE OF HOSMARTAI (HORIZON 2020 FUNDED PROGRAM)	Publication in Conference proceeding/workshop	dic-22	International	2022	YES	YES - Green OA
DOI: <a href="https://doi.org/10.1016/j.jval.2023.09.2274">10.1016/j.jval.2023.09.2274</a>	Publication in Conference proceeding/workshop	Implementation of Cost-Consequences Analysis as an Economic Evaluation Method for Artificial Intelligent (AI) Medical and Digital Technologies. the Case of HosmartAI (HORIZON 2020 FUNDED)	Publication in Conference proceeding/workshop	dic-23	International	2023	YES	YES - Green OA
DOI: <a href="https://doi.org/10.1016/j.jval.2023.09.2283">10.1016/j.jval.2023.09.2283</a>	Publication in Conference proceeding/workshop	Optimization of Patient Scheduling Based on AI Algorithm of the Radiotherapy Department of Liège University Hospital: Presentation of Selected Key Performance Indicators (KPIs) (HosmartAI - Horizon 2020 Funded)	Publication in Conference proceeding/workshop	23-dic	International	2023	YES	YES - Green OA

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
<a href="https://doi.org/10.1063/5.0194454">https://doi.org/10.1063/5.0194454</a>	Publication in Conference proceeding/workshop	HL7 FHIR healthcare digital system for patient data incorporation & visualization	INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING ICCMSE 2022	15/03/2024	International	2024	YES	
<a href="https://doi.org/10.1063/5.0193112">https://doi.org/10.1063/5.0193112</a>	Publication in Conference proceeding/workshop	Multimodal dialog management system for collecting patient values and experiences: The HosmartAI perspective	INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING ICCMSE 2022	15/03/2024	International	2024	YES	
<a href="https://ieeexplore.ieee.org/document/10479174">https://ieeexplore.ieee.org/document/10479174</a>	Article in journal	Anonymization and Pseudonymization of FHIR Resources for Secondary Use of Healthcare Data	IEEE	25-mar-24		2024	YES	YES - Green OA
<a href="https://doi.org/10.1038/s41598-024-59068-6">https://doi.org/10.1038/s41598-024-59068-6</a>	Article in journal	Clinical performance of AI-integrated risk assessment pooling reveals cost savings even at high prevalence of COVID-19	Nature Scientific Reports	17/04/2024	online	2024	YES	YES - Gold OA

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
	Publication in Conference proceeding/workshop		ISPIM			2022		
-	Publication in Conference proceeding/workshop	Artificial Intelligence (AI)-assisted Clinical Decision Support Tool for the Prediction of Obstructive Coronary Artery Disease on Coronary Computed Tomography Angiography: Study Protocol	42nd Panhellenic Congress of Cardiology	21-23/10/2021	Congress publications book	2021	YES	YES - Green OA
<a href="http://dx.doi.org/10.1136/bmjopen-2021-054310">http://dx.doi.org/10.1136/bmjopen-2021-054310</a>	Article in journal	Study protocol: a survey exploring patients' and healthcare professionals' expectations, attitudes and ethical acceptability regarding the integration of socially assistive humanoid robots in nursing	BMJ Open	Volume 12, Issue 4	online	2022	YES	YES - Gold OA
<a href="https://www.zbornica-zveza.si/wp-content/uploads/2022/04/zb">https://www.zbornica-zveza.si/wp-content/uploads/2022/04/zb</a>	Publication in Conference	Presentation of the HOSMARTAI project (robot in healthcare)	Publication in Conference proceeding	05/11/2022	Proceedings of a peer-review	2022	YES	



DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
<a href="#">ornik_Novosti-in-znanje_Apr22_V1.pdf</a>	proceeding/workshop		g/workshop		ed lecture			

Table 11: Scientific publications – no peer review.

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
<a href="https://doi.org/10.1186/ISRCTN12048782">https://doi.org/10.1186/ISRCTN12048782</a>	Other	Evaluating the clinical impact of integrating a computerized clinical decision support system and a social robot into discussion of patient cases with the care team	ISRCTN Registry	28/02/2022	online	2022	NO	YES - Gold OA
<a href="https://doi.org/10.1186/ISRCTN96689284">https://doi.org/10.1186/ISRCTN96689284</a>	Other	Effects of interactive digital assistanc	ISRCTN Registry	24/02/2022	online	2022	NO	YES - Gold OA

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
		on patients and hospital staff						
<a href="http://dx.doi.org/10.2196/44650">http://dx.doi.org/10.2196/44650</a>	Article in journal	Clinical validation of an artificial intelligence-based tool for automatic estimation of left ventricular ejection fraction and strain in echocardiography: Protocol for a two-phase prospective cohort study	JMIR Research Protocols	24-ene-23	online	2023	NO	YES - Gold OA
	Articles (industry magazines)	Telematic Medical Applications Ltd (TMA) Presentation	Maritime Intelligence 10th Anniversary Edition	Feb-23	GREECE and online	2024	NO	NO
<a href="http://dx.doi.org/10.5334/ijic.ICIC23586">http://dx.doi.org/10.5334/ijic.ICIC23586</a>	Publication in Conferenc	A game changer Joint	International	23(S1):586	ICIC proce	2023	NO	YES - Green OA

DOI	Type of Scientific Publication	Title of the article	Title of the journal or equivalent	Number, date	Place of Publication	Year of Publication	Peer-review	Open access to the publication
	e proceeding /workshop	Design Journey of PREMS and PROMS in the HOSMARTAI virtual coach study	Journal of Integrated Care		edings 23			
<a href="https://doi.org/10.1186/ISRCTN85439821">https://doi.org/10.1186/ISRCTN85439821</a>	Article in journal	Virtual coach for continuity of care	ISRCTN			2022	NO	YES - Green OA

#### 5.4.2 Non-Scientific Publications

As mentioned, at least **6 non-scientific publications** were produced (see Table 12). Two more publications in industry magazines are scheduled for the next month (TMA publications).

*Table 12: Non-scientific publications.*

Author	Title	Language	Date	Short Description of Content	Media Channel
<b>VIMAR</b>	Vimar partecipa all'innovativo progetto europeo HosmartAI	Italian	3-Mar-2021	The Vimar company experiments at San Camillo of Venice the application of artificial intelligence in new healthcare environments to monitor patients. The HosmartAI is a project of the European Horizon 2020 community.	Magazine
<b>UKCM</b>	HOSMARTAI (Hospital Smart development based on AI) -	Slovenian	2021, XXII, 2, p. 34-35	Project presentation in Hospital Magazine	Magazine

Author	Title	Language	Date	Short Description of Content	Media Channel
	Pametni razvoj bolniške nege na osnovi umetne inteligence				
<b>UKCM</b>	Radio presentation - interview with prof. Flis (Radio Maribor)	Slovenian	-	Project presentation	Radio
<b>UM</b>	HosmartAI presentation and news publications	English + Slovenian	1-May-2021	Project presentation	Web media presence
<b>ITCL</b>	HosmartAI lanza una partida de 580.000 euros para pilotos de IA/robótica orientados a una atención médica inteligente	Spanish	18-oct-22	HosmartAI Open Call #2 EXPERIMENT	Magazine
<b>INTRAS</b>	El día de Valladolid	Spanish	4-Mar-2022	Project overview and brief description of pilot 6.	Magazine
<b>TMA</b>	Telematic Medical Applications Ltd (TMA) Presentation	English	Feb-23	TMA Presentation in the Maritime Intelligence 10th Anniversary Edition	Magazine

## 5.5 Community building/engagement with stakeholders

Within T6.2, Ecosystem building and industrial clustering, a stakeholder analysis has been conducted which will serve as the basis to the further ecosystem building. With the progress of the project and the pilots and platform becoming more mature, industrial and other impactful stakeholders will start to become interested in the project's solutions.

The analysis evaluated various stakeholder groups according to their potential exploitation impact for HosmartAI's solutions and according to their interest to engage. The identified key players (=stakeholder groups with high interest combined with high power) constitute the main stakeholder groups to address. The groups identified include: Health Care Providers, Clinicians, Policy makers, Associations and other umbrella organisations, as well as Research (academia and private).

The upcoming months are dedicated to address these stakeholder groups specifically and engage with even more beyond the mentioned groups, starting with a first stakeholder workshop at the end of the year.

For more detailed information regarding the analysis and the stakeholder exploitation plan, please refer to D6.2. – “Ecosystem Building, Industrial Clustering & Stakeholders Engagement - First version”.

## 5.6 Synergies activities

A focus on the previous HosmartAI’s phase was the investment in the synergies with other projects. The building of a robust ecosystem includes synergies with other projects (i.e., Horizon 2020, SUDOE and WHO projects). These synergies enabled HosmartAI to expand its ecosystem, to discuss and disseminate results, methodologies, needs and solutions.

Throughout half a year of HosmartAI, the consortium was able to identify synergies and establish the contact points to exchange ideas and results. Currently, the HosmartAI consortium keeps benefiting from these synergies by increasing the contact points, participation in events and other relevant joint activities.

The synergy to highlight that generated these participations in events (that included the booth and pitch events) were the **OPEN DEI – Health and Care Cluster**, later **Healthy Living Cluster** (coordinated by ETHEL), the collaboration with the **Horizon Results Booster** and the close collaboration with AICCELERATE and AIDPATH.

## 5.7 Internal dissemination

In respect to internal dissemination, the HosmartAI results are communicated through partners’ networks, the HosmartAI newsletters and the consortium itself by WPs meetings and informative emails.

## 5.8 Standardization contributions

The plan for standardization and the first results are summarized in clause 6. However, this sub-clause lists the participation in relevant standardization meetings during this period.

The standardization results are summarized in clause 6. However, this sub-clause lists the participation in relevant standardization meetings during this period.

*Table 13: Participation in standardization meetings.*

Committee	Meeting	Location	Date	Participant	Follow up
ISO/TC 215 Health Informatics	Plenaries and WG meetings	Sapporo (Japan)	9-13 Jan 2023	Jaime Delgado (EFMI)	Yes. Relevant activities in some working

Committee	Meeting	Location	Date	Participant	Follow up
					groups of TC215.
ISO/TC 215/WG 11 Personalized Digital Health	Regular meetings	Online	29_Nov-22, 07-Mar-23, 28-Mar-23, 13-Apr-23, 25-Apr-23, 27-Jun-23, 25-Jul-23, 26-Sep-23, 24-Oct-23, 23-Jan-24, 26-Feb-24, 04-Apr-24	Jaime Delgado (EFMI)	No. The Personalized Digital Health Framework (PDH-F) might be of some interest, but no specific proposal prepared.
ISO/TC 215 Health Informatics	Plenaries and WG meetings	Arlington (USA)	8-16 Nov 2023	Jaime Delgado (EFMI)	Yes. Relevant activities in some working groups of TC215, mainly TF 5.
ISO/TC 215/WG 4 Security, Safety and Privacy	Regular meeting	Online	27-Apr-23	Jaime Delgado (EFMI)	No. Specific for health and security.
GA4GH (Global Alliance for Genomics & Health)	Plenary	Barcelona	22&23-Sept-22	Jaime Delgado (EFMI)	No. Specific for genomic information.
GA4GH	Connect (Work streams) meetings	Online	15&16-Nov-22	Jaime Delgado (EFMI)	No. Specific for genomic information.
GA4GH	Connect (Work streams) meetings	Ascona (Switzerland)	22-24 Apr 2024	Jaime Delgado (EFMI)	No. Specific for genomic information.
ISO/TC 215/TF 5 (Task Force on AI technologies)	Regular meeting	Online	06-Jul-23, 27-Jul-23, 17-Aug-23, 19-Oct-23,	Jaime Delgado (EFMI)	Yes. Very relevant standards to

<b>Committee</b>	<b>Meeting</b>	<b>Location</b>	<b>Date</b>	<b>Participant</b>	<b>Follow up</b>
in health informatics			30-Jan-24, 12-Mar-24		map with Project.
ISO/IEC JTC 1/SC 42/JWG 3 (Joint Working Group ISO/IEC JTC1/SC42 - ISO/TC 215 WG: AI enabled health informatics)	Regular meeting	Online	09-Jun-23, 16-Aug-23, 22-Sep-23, 18-Oct-23, 24-Jan-24,	Jaime Delgado (EFMI)	Yes. Very relevant standards to map with Project.
JTC1/SC42 - ISO/TC 215 WG: AI enabled health informatics)		Online	16-Apr-24	Carlos Parra (EFMI)	Yes, to contribute to FHIR's contribution to IA standards in healthcare.

## 6 Contributions to standardization

This chapter summarizes the work done in the Project in the context of contributions to standardization.

### 6.1 Deviation to the plan

The first part of the plan was followed and accomplished. However, it took more time than expected (“more time” here does not imply more efforts, but more calendar time because of the evolution of the international standardization activities with respect to the project).

Results of this first part included the identification of the standardization needs in the different WPs of the Project and the identification and selection of some relevant standardization WGs, meaning participation in meetings, providing feedback, influencing on and contributing to specific existing and new standards.

Deliverable D6.4 already reported on a first analysis of standards with respect to HosmartAI needs, and first contacts with and contributions to standardization groups.

As we already warned in D6.4, every standardization committee or working group in ISO has its own schedules, which may change continuously, adapting themselves to the specific evolution of every standard, mainly in the initial phases before the formal ballot processes start. This is one of the main reasons for the deviation to the plan. Once we decided on the standardization working groups and standards of interest for the Project to influence, we had to adapt ourselves to their rhythm of development.

In conclusion, the deviation of the plan was to analyze and contribute to more working groups than expected, and even contribute to the creation of new more specific working groups. On the contrary, there has been no time during the life of the Project to complete a detailed input from the Project due to the slow development of the standards. However, as indicated later in Section 7.4 ‘Future work’, the contribution, if found useful, will happen after the end of the Project, based on its results.

### 6.2 Results

First, we could summarize the work already reported in D6.4 as:

- Use of some project deliverables and discussion with project partners to identify project needs for new standardization.
- Started contacts with and contributions to standardization in:
  - ISO/TC 215 WGs (Health Informatics).
  - ISO/TC 215 SC1 (Genomics Informatics) and GA4GH (Global Alliance for Genomics & Health), later discarded.
  - ISO/IEC JTC 1/SC 42 (Artificial Intelligence), later refined.

After production of deliverable D6.4, there were interesting improvements with respect to the standardization need in eHealth and AI.



First, at the last Plenary meeting of ISO/TC 215 in 2021, a resolution created Task Force 5 (ISO/TC 215/TF 5) entitled “AI technologies in health informatics”. Its objective was to develop a framework to categorize AI health solutions for purposes of standards development. In addition, to develop and maintain a set of AI concepts and definitions for AI health solutions. After several initial steps, relevant work for the Project started at the end of 2022 and, therefore, participation in that group was initiated.

On the other hand, ISO/IEC JTC 1/SC 42 (Artificial Intelligence) was working on topics that might have some impact on the use of AI in eHealth.

After several discussions, ISO/IEC JTC 1/SC 42/JWG 3 "Joint Working Group ISO/IEC JTC1/SC42 - ISO/TC 215 WG: AI enabled health informatics" was created in March 2023. Participation from the project in this new JWG was active since the beginning, because that was the best place to develop new standards of potential interest to the Project.

The discussion of the “Terms of reference” of JWG3 started around mid-2022.

2 and were focussed in the “Development of standards relative to AI-enabled Health Informatics”, considering the properties, factors, available methods and processes relating to the use of AI inside health informatics applications to effectively realize the potential benefits for healthcare use cases. For this purpose, they should identify use of AI concepts and terms for purposes of developing “AIHI-related standards”, such as mapping and categorization.

Before the creation of JWG3, SC42 had already developed ISO/IEC TR 24030: Information technology — Artificial Intelligence (AI) — Use cases, which is being considered for mapping in both directions to/from the Project pilots. This standard is to be improved with new inputs.

On the other hand, the main initial JWG3 Project is ISO/IEC TR 18988 Artificial intelligence — Application of AI technologies in health informatics, in which we are also contributing.

It is also worth mentioning here that the different WPs of the project have implemented and followed several standards. These ones are already well established (such as those from HL7), so there was no need to participate in their standardization, since standards are already published and, furthermore, extensions would not affect the project development.

Sub-clause 5.8 summarizes the meetings attended and their outcome. It must be also mentioned here that the Project has not funded travel costs to the meetings attended “in-person”, since the participant managed to get funding from other sources. In this context, it is also relevant that the project representative in these meetings was already a member of the working group (except of course those working groups created after the start of the Project).

### 7.3 Compliance with FAIR principles based on standards

From task 6.3, an investigation has been developed on how FAIR principles can provide value in generating and validating AI models in healthcare, considering that compliance with FAIR principles was not foreseen from the design. Likewise, an analysis of the compliance with FAIR principles in handling data from the pilot use cases has been developed.

For this purpose, the FAIR data maturity model of the Research Data Alliance was used as a reference.

Two workshops were held to learn about the FAIR maturity model and to analyse its approximation to the context of the HosmartAI pilots, with the participation of representatives of the pilots and partners that provide components of the HosmartAI infrastructure that can contribute to such compliance.

It was initially proposed that a specific adaptation of the model for the project be developed. However, this implied an effort not foreseen in the project work plan that could condition the development of critical tasks of the pilots.

Two components (the MIMO ontology and the FHIR server) have been identified. These components aim to use clinical information standards and provide compliance with an essential number of indicators of the RDA maturity model. The details of this contribution have been included in D6.9, "Data Management Handling Plan."

## 7.4 Future work

The slow start of the work of ISO/IEC JTC 1/SC 42/JWG 3 and, to some extent, also ISO/TC 215/TF 5, has not allowed us to have a strong impact in their standards from the Project.

Among the different criteria to decide on which committee and standards to contribute, we decided to prioritize the relevance of the topic for them and the expected quality of the project contribution. Therefore, we plan to continue working on this even after the completion of the Project.

Applying FAIR principles to HosmartAI AI infrastructure project data in European hospitals, where these principles were not originally incorporated, presents several unique challenges and opportunities for future work.

Addressing these issues regarding the application of FAIR principles in the HosmartAI project will lead to more robust and innovative uses of hospital data across Europe. This approach will improve healthcare AI research and outcomes and set a precedent for future data management practices in healthcare AI infrastructure projects.

### ***Assessment and mapping needs of current data collections.***

Assessment of existing data architecture and management strategies to identify gaps in compliance with FAIR principles.

Assessment of existing metadata for completeness, accuracy, and compliance with international standards is crucial for data findability and interoperability.

### ***Development of improved metadata schemas.***

Develop and implement standardized metadata schemas that are robust and appropriate for the diverse nature of hospital data (e.g., clinical, operational, financial).

Invest in tools that can automate metadata extraction and standardization.

### ***Interoperability frameworks.***

Propose and adopt common data models that seamlessly integrate various data types from different hospital systems.

Design new APIs that enhance a secure and efficient data exchange between different systems and stakeholders within the HosmartAI infrastructure.

### ***Enhancements for data reuse.***

Promote broad annotation using common terminologies and ontologies, enhancing data reuse in clinical and research contexts.

Engage with the broader scientific and medical communities to understand their needs and ensure that the data provided effectively meets these needs.

### ***Education and Training.***

Develop comprehensive training programs for hospital staff and stakeholders on FAIR principles and best practices.

Establish dedicated roles or teams to promote FAIR principles within the organization, known as FAIR champions.

***Technology adoption and integration.***

Integration of advanced analytics tools that can handle FAIR-compliant data to improve the effectiveness of AI models.

***Long-term sustainability planning.***

Develop business models and funding strategies to ensure the long-term sustainability of FAIR initiatives.

## 8 Key Performance Indicators

The Dissemination, Communication, Ecosystem building Plan and Standardized Activities (lead by T6.1, T6.2 and T6.3), included in WP6 “Dissemination, Communication and Ecosystem Building”, contributes to D6.5 outcomes and directly to the HosmartAI business objectives (B.O-2).

This business objective aimed to: ensure wide communication and scientific dissemination of the innovative HosmartAI results to the research and academic communities; promote clustering activities amongst the industrial communities and all stakeholders involved in the Health and Care domains (with emphasis on the AI and robotics); contribute to relevant standardization bodies; and to collaborate and align with the EU Digital Innovation Hub networks and platforms.

HosmartAI has established a solid ecosystem its lifetime, a broad dissemination of the project, collaboration in clustering activities and contribute to standardized bodies.

The key performance indicators (KPIs) achieved until the current moment (M40) are described in the next two subsections. These KPIs are essential to measure the efficiency of the communication and dissemination mechanisms.

### 8.1.1 Communication Mechanisms KPIs

In the HosmartAI project’s M40, the key performance indicators for the communication mechanisms achieved are the following:

- **Project’s Website (KPI: >5000 unique visitors, ~2 min average duration of visits, >5000 Page views):**
  - (2022/2023) 24647 unique visitors, with approximately 2,86 min average duration of visits, and more than 399498 page views.
  - (2023/2024) 13949 unique visitors, 96 seconds average duration, 75096 page views.
- **HosmartAI Social Media Presence (KPI: >750 accumulative followers, >1000 accumulative posts, >250 interactions, >40 Klout score):** 1120 accumulative followers, 964 accumulative posts, 60442 interactions, M=4,33% engagement rate.
- **HosmartAI Blog (KPI: >50 posts, >100 interactions):** 56 blogposts, >1000 clicks (this number is presented to substitute interaction, seeing that the website does not allow this feature).
- **Media (KPI: >8 press releases; >6 blog posts in EC mechanisms):** 6 original press releases, 6 blog posts in EC mechanisms.
- **Communication Material (KPI: >8 projects’ factsheets/brochures and banners, 6 e-Newsletters, >5 videos):** 27 projects’ factsheets/brochures and banners, 5 e-Newsletters, 16 videos.

### 8.1.2 Dissemination Mechanisms KPIs

Within the HosmartAI project’s life (M40), the key performance indicators for the dissemination mechanisms are the following:

- **Organisation of Project Event (KPI: 8 workshops, 2 demo events organized by HosmartAI):** 21 events organized or co-organized by the HosmartAI project.
- **Participation in Conferences & Workshops (KPI: Participation to > 20 events, Presentation of results in > 15 events, Demonstration of results in booths in >4 events):** participation in 87 events, which include 7 presentation of results, 6 presentation of results in booths.
- **Scientific Publications (KPI: >20 conference publications, >4 journal publications, >8 articles in industry magazines):** 34 scientific publications – 15 conference publications, 10 journal publications 6 articles in industry magazines.
- **Collaboration and synergies with projects (KPI: >5 project with synergies, >5 joint activities):** >6 synergies with projects; > 14 joint activities.
- **Internal Dissemination in partner's network (KPI: >10 links to the project's website):** 7 internal partners' events, 10 links to the project's website.
- **Pilot training sessions (KPI: >4 pilot training sessions):** At least one training session per pilot was carried out (minimum 8 training sessions).
- **Standardization Contributions (KPI: Liaison with >2 working groups, Presentation of project results to 2 standardization meetings):** participation in 7 working groups. Follow-up after the project in 2 working groups in 3 different ISO Technical Committees.
- **Legal Recommendations:** the 14 recommendations applied at least once in any of the pilots.

## 9 Conclusions

In conclusion, the communication, dissemination, and standardization activities undertaken in this project have successfully met the outlined objectives, ensuring the wide dissemination of HosmartAI's results to the wide constructed ecosystem (with an active guidance of T6.2 - Ecosystem building and Industrial Clustering), promoting clustering activities among industrial communities and stakeholders in the Health and Care domains and contributing to relevant standardization bodies setting up the path to further standards development.

To achieve these objectives, a detailed and strategic approach was employed. This involved defining all stakeholders and meticulously planning and executing dissemination, communication, and synergies activities tailored to the specific information needs and desired involvement levels of each stakeholder category. Dissemination activities focused on exploiting the scientific and technological knowledge generated by the HosmartAI project to a broad range of stakeholders. Furthermore, a set of communication materials were designed to implement the activities to raise awareness and attract potential supporters. A wide involvement of healthcare industry's stakeholders and researchers was accomplished. These efforts facilitated discussions on business (connected to WP7 - Business Case Development, Marketing and Exploitation Activities), and bringing partners closer to exploitation and technology readiness. Additionally, the project actively analysed related existing and potential standards, identifying where the project results could contribute. A Task Force and a Joint Working Group specific for eHealth (see subclause 6.2) have been created during the project life and the project results are aligned with new standards these groups have started to develop. Furthermore, new EU legislation, such as the Data Act and the Artificial Intelligence Act have their role in these new standards.

The HosmartAI website was the most valued channel. As desired, the ecosystem was focused on industry and health industry contact points, as well as research and academia.

Overall, these efforts have not only achieved the project's goals but have also laid a strong foundation for ongoing collaboration and impact within the AI and robotics within the Healthcare domain.