CAPABLE
CAncer PAtients Better Life Experience

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Dissemination Activities Report – Part 1

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Deliverable Type		
R	Document, report	**X**
DEM	Demonstrator, pilot, prototype	
DEC	Websites, patent fillings, videos etc.	
OTHER		
Dissemination Level		
PU	Public	**X**
CO	Confidential (Consortium members including the Commission Services)	
CI	Classified Information (Commission Decision 2015/444/EC)	

Table of Contents

List of Figures

List of Tables

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1. Versions History

Version	Date	Author	Comments
1.0	2021-11-26	SW	Initial draft
1.1	2021-12-02	SW	Update and extension
1.2	2021-12-11	SW	Update and extension
1.3	2021-12-14	SW	Update and extension
1.4	2021-12-18	SW	Update and extension
1.5	2021-12-20	MP	First internal review
1.6	2021-12-22	SW	Updated to address comments and suggestions from the 1st internal review
1.7	2021-12-23	MP	Second internal review
1.8	2021-12-23	SW	Update for final review by the coordinator
1.9	2021-12-27	SQ	Check and update
2.0	2021-12-28	SW	Final version for submission

2. Executive Summary

In this document we report communication and dissemination (C&D) activities conducted in Work Package 9 (WP9) and completed in year 1 (Y1) and 2 (Y2) of the CAPABLE project. Section 3 briefly introduces WP9, its tasks and deliverables. In Section 4 we present the dissemination strategy – we start with presenting the goals, then identify relevant stakeholder groups that should be addressed, and define dissemination plans for specific groups that point at appropriate C&D tools and materials. In that section we also list contacts associated with relevant stakeholders, such as EMR (electronic medical record) and HIS (hospital information system) vendors, healthcare providers and professional societies, identified by the consortium partners. In Section 5 we present detailed information on completed actions (they are summarized below). Finally, in Section 6 we provide a summary and outline future C&D activities with special focus on actions planned for year 3 (Y3).

In Y1 and Y2 the following C&D actions were completed:

- Project logo and house style including document and presentation templates were prepared.
- Project presentations, posters, leaflets and the first version of the project promotional video were created (updated leaflets and posters will be released in early Y3).
- The artist-in-residence initiative was started, and initial versions of the project artwork were created (it will be released in early Y3).
- Website and social media accounts were created and have been maintained and updated. An information campaign for Instagram aimed at the general public was prepared and started.
- 4 media releases aimed at the general public were prepared and published.
- 1 journal paper was published, and 2 other papers were submitted for publication.
- 8 papers were published in peer reviewed materials of international conferences and workshops.
- 22 oral presentations at scientific, education and other events were given by the CAPABLE consortium members. The most frequently targeted audience was the academic community (16 presentations). Then, there were professional and education communities (3 presentations targeting each group). Public authorities were addressed twice, and there were single presentations aimed at the industry and the general public[1].
- Personal contacts with relevant stakeholders were initiated.
- Other actions, e.g., preparing repositories with public deliverables and source code, participation in surveys organized by the European Commission, were completed.

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[1] Please note that some presentations addressed several audience groups, therefore the total number is larger than 22.

3. Introduction

Communication and dissemination (C&D) activities in the CAPABLE project are managed by WP9. The main objective of this WP is to make the project and its result known to all relevant stakeholders (audience groups), including scientific community, patients and care providers, healthcare policy makers and influencers, and finally the general public.

This main objective of WP9 is then translated into more specific goals:

- To raise awareness of the CAPABLE project around Europe and internationally.
- To communicate progress and disseminate results of the CAPABLE project by targeted dissemination efforts and through exploitation of direct contacts of partners.
- To transfer the results beyond the lifetime of the CAPABLE project and to promote potentially impacting findings (e.g., evidence derived from data collected in a clinical trial of the CAPABLE system).

WP9 includes the following tasks (in brackets we give their start and end months), for more detailed description of the tasks see the project proposal (Quaglini, 2019):

- T9.1: Preparation and distribution of dissemination and communication material (M1-M48)
- T9.2: Dissemination events organization (M1-M48)
- T9.3: Scientific dissemination activities/publications (M1-M48)
- T9.4: Transfer of project results beyond its lifetime (M37-M48)

Moreover, WP9 is responsible for the following deliverables:

- D9.1: Project logo, leaflets, presentation & website (M6)
- D9.2: Dissemination Activities Report – part 1 (M24)
- D9.3: Dissemination Activities Report – part 2 (M48)

In this document we summarize activities related to the first three tasks (T9.4 will start in Y4). Specifically, we expand on results related to T9.1 that were initially presented in deliverable D9.1 (Wilk et al., 2020) and report on actions related to T9.2 and T9.3.

4. Dissemination Plan

We are fully aware that C&D are critical to achieve the foreseen impact and contribution of the CAPABLE project to a European *Innovation Union* and to successfully exploit its results. An overall goal of these efforts is to provide a *flow of information* presenting the objectives and outcomes of the project, its contribution to European scientific excellence and benefits of empowering EU citizens, either suffering from cancer or providing home and clinical care to cancer patients, by providing them with the CAPABLE system and related technologies.

We see C&D activities as a continuous process that aims at rising of awareness in multiple and diversified stakeholder groups in order to:

- Promote and position the CAPABLE project result in the professional world, business and industry.
- Reach and involve where possible patients and their caregivers, and the society at large (the general public).
- Get a critical mass of early adopters, starting from trial users, to have relevant feedback on the effectiveness of the system.
- Support the exploitation of project results.

To implement this process and to achieve the goals mentioned above we prepared a dissemination plan that is summarized below. The initial version was formulated in the grant proposal (Quaglini, 2019) and it has been revised and extended multiple times since then. In the description we use future tense, although many of the proposed actions have been already completed or actively pursued (see Section 5).

We start with identification of stakeholder groups, also referred to as target audience groups (or target groups in short). They are presented in Table 4.1 that also lists relevant members of each group. Here we would like to explain that the distinction between *clinical users* and *clinical customers* is associated with planned exploitation of the CAPABLE system – users are stakeholders who will be using the system (e.g., patients and clinicians) while customers are stakeholders who will be paying for the system (e.g., healthcare provider organizations). This distinction affects how C&D activities should be profiled – users are more interested in their personal benefits including improved wellbeing, while customers may pay more attention to financial or organizational benefits (e.g., lower frequency of follow-up visits or shorter duration of visits).

Table 4.1. Identified target audience (stakeholder) groups and their relevant members

Target group	Group members
Research and education	
	Universities
	Research centers
	Other EU projects
Clinical users	
	Cancer patients and their caregivers
	Clinicians treating cancer patients
	Social care professionals
Clinical customers	

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Target group	Group members
	Patient and caregiver associations
	Healthcare organizations / providers
	Social care organizations / providers
	Home-based care organizations / providers
	Insurance companies / health maintenance organizations (HMOs)
Policy makers and influencers	
	European Innovation Partnership on Active and Healthy Ageing (EIP AHA): Action Group A1 on Prescription and Adherence to Medical Plans
	European Commission: European Health and Digital Executive Agency (HaDEA)
	Standardization bodies
	Other professional organizations (related both to medical informatics and healthcare)
	Regional healthcare authorities
Business and industry	
	MedTech Europe members
	EIT Digital partners
	Other SMEs and startups
Investors and funders	
	Third sector
	Venture capital
General public	

Following the Menedlow's power-interest grid (Mendelow, 1991) we map the identified stakeholder groups into four areas depending on their actual and potential interest in the CAPABLE project and impact on its realization (e.g., trial) and exploitation – see Figure 4.1 for details. This allows for further diversification of C&D activities regarding their scope, focus and intensity.

The *information flow* about the CAPABLE project will be made available with the following C&D tools:

- Public project visual identity,
- Project website,
- Social media,
- Digital and printed project materials (e.g., leaflets, posters),
- Scientific and non-scientific publications and media (press) releases,
- Participation in events and their organization,
- Personal contacts with stakeholders with special focus on Key Opinion Leaders (KOLs),
- Project artwork.

We would like to briefly comment on the last tool – the project artwork. To attract attention of diversified audiences, following the artist-in-residence initiative we will start cooperation with artists – Anna Dumitriu and Alex May – world-renown for their novel digital pieces of art and having extensive experience with other EU projects -- to create an official project artwork (see Section 5.1.4 for more details).
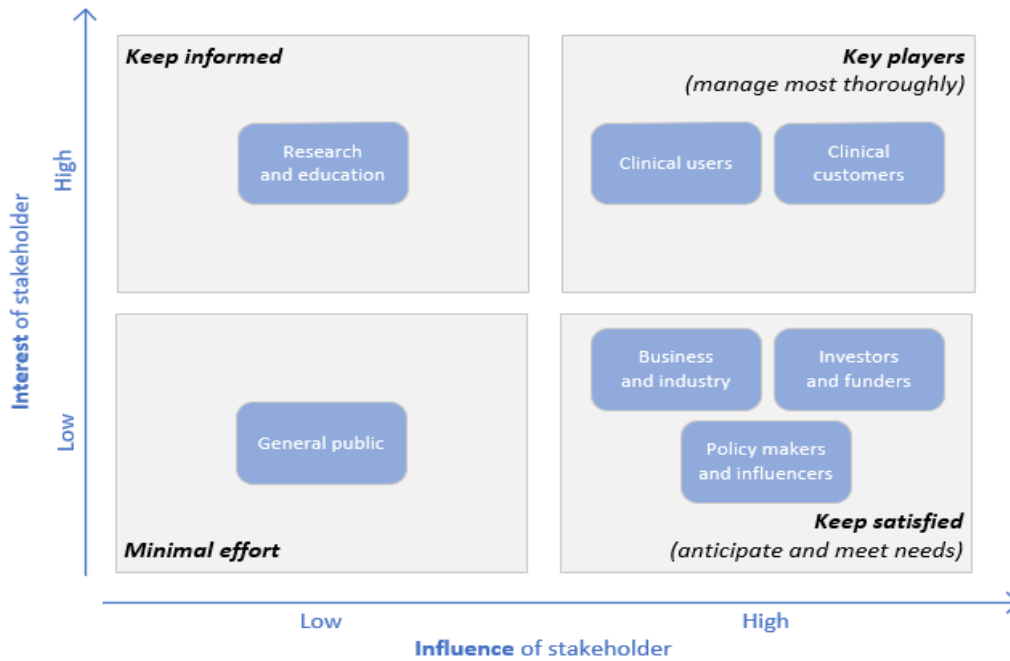
Figure 4.1. Mapping of stakeholder groups according to their interest and influence

For specific target audience (stakeholder) groups we will choose the appropriate C&D tools and materials and formulate group specific plans. They are presented in Table 4.2. We should explain here that communication will not be unidirectional and the CAPABLE consortium partners will engage in the dialogue with relevant stakeholder groups to learn about their feedback and to anticipate their needs (this would be relevant for stakeholders in the *keep satisfied* area in Figure 4.1).

Table 4.2. Summary of C&D plans (tools, materials) for target (stakeholder) groups

Target group	C&D plan
Research and education	• Preparation of relevant papers and abstracts and their publication in journals and peer-reviewed conference materials. • Participation and presentation of papers, abstracts and demos at relevant scientific events (conference, workshops, symposia). • Participation and active contribution to EC clustering initiatives to establish links with other related projects. • Organization of physical and virtual scientific and educational events such as workshops, panels or tutorials, including a project workshop in Y3 or Y4. • Organization of special lectures for (high school, university) students and presentation of project results as part of relevant courses (e.g., in medical informatics or information systems). • Distribution of relevant materials (public deliverables, presentation slides and videos) through the website and social media.
Clinical users	• Preparation (in lay language) of materials describing the CAPABLE project and system with a special focus on user-related benefits, their translation to national languages and their distribution in electronic and paper format.

Target group	C&D plan
	- Press releases and publication of papers in non-scientific outlets, e.g., patient newsletters. - Personal or online contacts with patients and patient groups with a special focus on KOLs. - Participation in relevant events (e.g., organized by patient associations), presentation of the CAPABLE project and practical demonstration of the CAPABLE system. - Organization of physical and virtual workshops and tutorials for the current and future CAPABLE users (e.g., patients already participating in the clinical trial and these who are potentially interested). - Preparation and distribution of dedicated relevant materials (leaflets, brochures, videos, Frequently Asked Questions (FAQs)) through the website.
Clinical customers	- Preparation of materials describing the CAPABLE project and system with a special focus on customer-related benefits, their translation to national languages and their distribution in electronic and paper format. - Press releases and publication of papers in non-scientific outlets, e.g., professional newsletters and journals. - Personal and online contacts with domain experts and their groups, with a special focus on KOLs. - Participation in relevant events, presentation of the CAPABLE project and demonstration of the CAPABLE system. - Organization of physical and virtual workshops and panels for the current and future CAPABLE customers (e.g., organizations planning to purchase and deploy the CAPABLE system). - Preparation and distribution of dedicated relevant materials (e.g., leaflets, brochures, videos, FAQs) through the website.
Policy makers and influencers	- Liaisons with relevant stakeholders (both individual and organizations) and KOLs by participation in relevant events (conferences, workshops) and organization of dedicated physical and virtual meetings, such as expert discussion panels. - Creation of links to relevant programs and initiatives at various levels (especially local and regional levels). - Preparation and distribution of dedicated relevant materials (e.g., posts, articles) through the website and social media, publications of news through relevant EU platforms (e.g., AGORA Thematic network, DG CONNECT newsletter).
Business and industry	- Presentation and showcase of relevant CAPABLE results at exhibitions, fairs and meetings (e.g., MEDICA or SALMED). - Personal contacts with stakeholder representatives by specific partners. - Preparation and distribution of dedicated materials (e.g., leaflets, posts, articles) through the website and selected social media.
Investors and funders	- Presentation and showcase of the CAPABLE project at relevant events and meetings. - Personal contacts with stakeholder representatives by specific partners. - Cooperation with "knowledge transfer and commercialization" departments of specific CAPABLE partners (with special focus on universities).

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Target group	C&D plan
	• Preparation and distribution of dedicated materials (e.g., leaflets, posts, articles) through the website and selected social media.
General public	• Releases in various media channels (press, TV, radio, news sites) on national, regional and local levels, translated to national languages.
	• Distribution of dedicated and comprehensible materials (non-scientific publications, leaflets, promotional videos) through the website and social media.

We will report scientific results of the CAPABLE project to the research and education community through conference and journal papers and the publication targets for the consortium are the following:

- At least 5 conference/workshop in peer-reviewed materials per year (i.e., at least 20 papers *in total* over the period of the project),
- At least 6 journal papers *in total* over the period of the project.

Consortium partners will participate in relevant scientific events, e.g., conferences in medical informatics or AI in medicine, and to stimulate dialogue with scientific stakeholders we plan to organize a project workshop co-located with a leading European conference in medical informatics (e.g., AIME) towards the end of the project in Y3 or Y4. CAPABLE will also engage with other related EU projects and initiatives by means of clustering actions, such as workshops, think tanks and joint meetings.

CAPABLE partners will also contact and engage stakeholders from the following target groups: *clinical customers*, *policy makers and influencers*, and *business and industry* so that CAPABLE system and related technologies can be commercialized and sustained, and new medical context can be developed to support the use of the CAPABLE solutions in other clinical domains (e.g., other types of cancers and cancer treatments). We hope some of these stakeholders become sponsoring partners. Stakeholders from these groups will be contacted directly by specific CAPABLE partners – Table 4.3 lists potential contacts identified by the consortium partners for further C&D activities (in addition to the groups mentioned above it also includes EU research projects related to CAPABLE). These activities will be also aligned with exploitation efforts in WP8. We would like to note it is not a closed list and it will be revised and extended depending on the CAPABLE project outcomes and results, to further enhance their dissemination and exploitation, also after the project's lifetime. In Section 6 we describe planned activities related to initiating contacts with other types of stakeholders, such as EIT Digital partners, standard development bodies, clinical guideline developers and local municipalities at the pilot study locations.

Table 4.3. Stakeholders relevant for the CAPABLE project

Stakeholder info	Stakeholder type	Partner	Notes
Nexus Polska https://www.nexuspolska.pl/his	EMR/HIS vendor	PUT	Vendor of one of the most popular HIS in Poland (Eskulap). Started as a spin-off at PUT. PUT cooperated on other projects related to medical informatics (e.g., a regional telemedical platform).
Greater Poland Cancer Center https://wco.pl/en/	Health care provider	PUT	A regional center that offers a full combined cancer treatment. PUT cooperates on other projects involving image processing and analysis

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Stakeholder info	Stakeholder type	Partner	Notes
HCP Medical Center https://www.cmhcp.pl/	Health care provider	PUT	The largest private hospital in Poznan that provides public medical care including an oncological one. PUT cooperates on other projects related to clinical data integration and processing.
EUNICE European University https://eunice-university.eu/	EU education project	PUT	The project is formed by an alliance of seven European universities and its goal is to provide a solid network of crossed interactions between educational institutions, industry and business partners, as well as other social and cultural stakeholders.
dbMotion (acquired by Allscipts) https://www.allscripts.com/solution/dbmotion/ Ohad Young <Ohad.Young@dbmotion.com>; Yuval Ofek <yuval@dbmotion.com>	Integrators	UoH	dbMotion provides a connected healthcare solution that integrates patient information from disparate technologies and delivers it to clinicians at the point of care. The dbMotion interoperability solution semantically harmonizes volumes of data and enables providers to easily access and manage information within native clinical workflows.
Clalit Health Services https://www.clalit.co.il/he/info/entitlements/Pages/english-rights.aspx Yaron Denekamp <yarondp@gmail.com>	Health maintenance organization	UoH	the largest provider of public and semi-private health services in Israel. Under Israeli law, it is run as a not-for-profit entity.
Israeli Association for Medical Informatics https://ilami.org/en/ Dr. Batami Sadan <sadanba@netvision.net.il>	Medical informatics society	UoH	A nonprofit membership organization dedicated to promoting knowledge, excellence, and development and use of information systems in the health services in Israel. The members of ILAMI come from a variety of organizations (Governmental, HMO's, private and business' organizations and academic institutions) and professional backgrounds (information systems specialists and managers, physicians, nurses, pharmacists and more). Being as such, the association provides an arena for a mutual information exchange and professional interaction at all levels of knowledge. ILAMI represents Israel at the European Federation for Medical Informatics (EFMI) and the International Medical Informatics Association (IMIA).
RAMBAM Healthcare Campus, developers of Prometheus EMR https://www.rambam.org.il/en/about_rambam/ <s_tzafrir@rmc.gov.il>	Health care provider (hospital) & EMR developer	UoH	Rambam Health Care Campus is a 1000-bed world-class teaching hospital. The patient population is diverse, as Rambam is the major tertiary (referral) medical center for all of Northern Israel, including 12 district hospitals and defense and peacekeeping forces stationed in the region. Serving more than two million residents and others referred from all over Israel, the Mediterranean region, and around the world, Rambam is strategically located in Haifa on the Mediterranean coast and plays a critical role in the healthcare of the region's residents, in addition to making a major contribution to the economy of the north. "Prometheus" system for computerized medical records exists since the early 2000's. Prometheus has been adopted by all government psychiatric and geriatric hospitals. This project was awarded a prize by the Information Systems Analysts Bureau in Israel.
INT (National Institute of cancer) Milan (Italy) https://www.istitutotumori.mi.it	Health care provider	UNIPV	UNIPV collaborates with INT since many years. Founded in 1928, the Institute conducts translational research that follows the two paths "From bench to

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Stakeholder info	Stakeholder type	Partner	Notes
			bedside" and back, combining data from clinical practice with evidence found in the laboratory. From the systematic evaluation of the effect of treatments outside clinical trials, the "real world evidence", we derive signals to be reported in the clinic and in the laboratory. INT has programs and projects in every area and phase of research, preclinical, clinical, epidemiological health, carried out by strong multidisciplinary teams.
CNAO (Centro Nazionale Adroterapia Oncologica) –Pavia https://fondazionecnao.it	Health care provider	UNIPV	The National Center for Oncological Hadrontherapy is the only centre in Italy that uses hadrontherapy with both protons and carbon ions to treat tumors. There are only 6 facilities around the world that can do this, and CNAO is one of them. The Center is based in Pavia. Hadrontherapy is an advanced way of radiotherapy that uses protons and carbon ions instead of X-rays to attack tumor cells. These particles are very heavier and have more energy than electrons and, consequently, they are even more effective to treat some kinds of tumors. Hadrontherapy is particularly suited to treat radio-resistant tumors-those tumors that do not respond to the X-rays used by traditional radiotherapy- or surgically inoperable tumors.
ATS (Agenzia Tutela Salute/Agency for Health Protection) – Pavia https://www.ats-pavia.it	Health care provider	UNIPV	The ATS has the task of ensuring the governance of the health and social health network in its own local area, favoring the integration of the supply network with the local social network; stipulate contracts with accredited public and private providers of the territory of competence and guarantee the achievement of the objectives set out in the Lombard Integrated Health and Social Plan.
SIBIM (Italian Society for Biomedcal Informatics) https://www.sibim.it	Medical informatics society	UNIPV	Founded in 2016, SIBIM collects the main research groups in biomedical informatics in Italy.
Sermas – Madrid Network of hospital of Madrid"	Health care provider	UPM	Network of the public hospital of the Madrid Metropolitan area. UPM has a joint collaboration with this network.
Medtronic - Spain	MedTech company	UPM	Medtronic is a close collaborator in other research projects. They also started working in the cancer area.
FAITH project https://www.h2020-faith.eu/	EU research project	UPM	The goal of the project is to use AI (federated learning) to identify depression markers in patients who have undergone cancer treatment.
BD4QoL Project https://www.bd4qol.eu	EU research project	UPM	The goal of the project is to develop AI-assisted mHealth apps aimed at improving the quality of life of head and neck cancer patients through personalized monitoring, support, and care after treatment.

The consortium will make efforts to disseminate the results not only to specialized audiences but also to the general public in an attempt to increase the societal awareness about the CAPABLE project and the advantages of the developed system and related technologies. The main tools used to reach the general audience are press and media, such as local and national newspapers and news sites, radio and television, and their interest will be stimulated by press releases. We will design and produce a standard project press kit in electronic format and

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nominate a press contact from the coordinating partner to represent the project in handling the media. We will also appoint a national press contact for each participating country who will possibly engage regional and national media to inform citizens and stimulate their dialogue with the consortium.

Finally, the CAPABLE Project Officer will be kept informed of the important C&D activities (e.g., press releases, paper publications, demos and conference presentations) to enable a proper relay of these activities within EU projects and initiatives, e.g., through the newsroom of the digital single market website, the EU eHealth in Focus newsletter or the EU eHealth Twitter account.

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5.   Activities Report (Y1 and Y2)

This section reports on C&D activities that were completed in Y1 and Y2 of the CAPABLE project according to the dissemination strategy and plan described in Section 4. Support of all partners in dissemination efforts with a special focus on UoH, UNIPV, ICSM, BIT and AIMAC is gratefully acknowledged.

We introduced the following guidelines and procedures related to dissemination:

- We defined procedures for submitting news and other items (e.g., publications) for upload to the project website and other project repositories (e.g., Zenodo).
- We prepared forms and spreadsheets for reporting dissemination activities.
- We drafted a code of practice for the use of graphics and tags in social media posts.

At each of the consortium meetings, the WP9 leader gave presentations aimed at engaging and informing the consortium partners about the importance and nature of dissemination activities and explaining related procedures, such as reporting. Contact with partners between consortium meetings was maintained using Basecamp, e-mail and teleconferences.

5.1.   Branding and Publicity

5.1.1.   Project Logo and House style

Early establishment of a public project identity, including development of a project logo and house style, utilizing professional standard graphic design ensures an attractive, professional, and consistent presentation style.

A project logo was developed by PUT and it was distributed in versions through Basecamp -- see Figure 6.1 for one of available variants and D9.1 (Wilk et al., 2020) for details. The logo is based on the concept discussed by the partners during the kick-off in Rome, January 2020 and it was adjusted according to subsequent feedback from the partners. The logo appears on the project website, presentation and document templates and it is displayed in both physician and patient apps in the CAPABLE.

Figure 5.1. A full logo of the CAPABLE project

Other graphics and templates were developed by PUT and other partners (ICSM, UNPV) including templates for PowerPoint presentations, posters, project letterhead and deliverables (this document uses the deliverable template). They adhere to the relevant clauses of the grant agreement pertaining to communications, such as correct display of the EU emblem and funding information. All templates are accessible to all partners on Basecamp and they are regularly updated according to obtained comments (e.g., to minimize the use of non-standard fonts).

5.1.2. Project Presentation, Leaflets and Posters

A general project presentation in PowerPoint was prepared and made available in electronic form at the project website – see D9.1 for details. It not only acts as an "advertisement" for the project, but it was used by the CAPABLE partners as a starting point for preparing slides presented at multiple events (see Section 5.5 for details).

Moreover, PUT together with UNIPV and ICSM created project posters and leaflets aimed at diversified target groups – they are listed in Table 5.1 and Table 5.2, respectively. The posters are currently in English, and they will be translated into Italian and Dutch (especially the poster aimed at patients). The leaflets have been prepared in English and Italian (see Figure 6.2 for an example) and will be translated to Dutch. The patient-oriented leaflets will be printed and distributed physically to patients during their regular visits to better inform them about the CAPABLE project and to increase their willingness to participate in the clinical trial of the system in 2023 (Y4).

Table 5.1. Project posters

Release date	Target group	Thematic area	URL	Comment
Jan 2022	Patients	eHealth, cancer care		To be displayed as a stand in clinics and hospitals in order to present the CAPALBE system and its clinical trial.
Jan 2022	Academic communities	eHealth, medical informatics		To be displayed as a stand during scientific events and classes in order to present methodological and technological aspects of the CAPABLE project. Moreover, they will be permanently positioned near the convention center of the ICSM hospital.

Table 5.2. Project leaflets

Release Date	Target group	Thematic area	URL	Comment
Jun 2020	General public	eHealth	https://capable-project.eu/capable-general_leaflet/	Overall presentation of the CAPABLE project and the consortium
Dec 2021	Patients	eHealth	https://capable-project.eu/capable-leaflet_for_patients_en/	Presentation of the CAPABLE system from the patient perspective, with a special focus on goals and benefits. Will be distributed before and during clinical trial.

Figure 5.2. CAPABLE leaflet aimed at patients (in English and Italian). Note the telephone number that patients may call to have more information about the project. It is a number dedicated to home patients treated at the day hospital, who will be the target of the project.

As an extension of the project presentation, AIMAC prepared an initial of the CAPABLE video aimed at advertising the project among patients. The video will be embedded in the Patient App component of the CAPABLE system and will be used as a standalone advertising material. The current version of the video is in English to foster discussion among partners, it will be translated to Italian and Dutch and released in early Y3.

5.1.3.　Press Contacts, and Press Kit

Overall and national press contacts have been appointed and they are given in Table 5.3. Moreover, an initial simple press kit was developed by PUT. It contains CAPABLE contacts and further project information. The press kit is aimed at electronic distribution, and it has been prepared in English, but the partners are invited to localize and translate it to their national languages. An updated and extended press kit will be released by February 2022.

Table 5.3. Press contacts at overall and national levels

Area	Responsible person	E-mail
Overall, Italy (IT)	Silvana Quaglini	press@capable-project.eu
		press_it@capable-project.eu
Israel (IL)	Mor Peleg	press_il@capable-project.eu
Lithuania (LT)	Valentina Ganicheva	press_lt@capable-project.eu
Poland (PL)	Szymon Wilk	press_pl@capable-project.eu
Spain (ES)	Manuel Ottaviano	press_es@capable-project.eu
The Netherlands (NL)	Ronald Cornet	press_nl@capable-project.eu
UK	David Glasspool	press_uk@capable-project.eu

5.1.4. Artist-in-Residence and Project Artwork

In other to further strength the dissemination efforts and to increase their outreach, following the *artist-in-residence* initiative we have started cooperation with artists – Anna Dumitriu (https://annadumitriu.co.uk) and Alex May (https://alexmayarts.co.uk). Both artists have extensive experience in working with AI and wearable technologies and exploring the implications of emerging digital technologies in societal and cultural contexts. The artists are creating new artwork – *PhysicAI Garden* (described below) – that can be exhibited in a range of settings and reach out to diverse audiences across a range of contexts including art galleries, festivals and patient waiting areas.

PhysicAI Garden explores the complex AI component within the CAPABLE system that ensures that patients are not prescribed treatments (both pharmacological and non-pharmacological) that might interact badly with each other. It will take the form of digital garden, where virtual plants grow and interact with each other and with audiences. The plants each represent different treatments in the system based on a fictional test patient's data and experiences and the algorithm and databases used within CAPABLE. The garden grows according to what treatments work well together and what treatments interact negatively. The project is inspired by notions of permaculture which puts plants that grow well together next to each other and considers the whole ecosystem. It is also influenced by ideas around medicinal plants and in particular the concept of the Physic Garden as well as the virtual capsules in CAPABLE, which can enhance patient wellbeing by suggesting beneficial activities.

The work will exist as an interactive gallery installation, as a 2D work for hospitals and possibly 3D printed work or as a building projection (see Figure 5.3 for initial visualizations). The first version of the artwork will be released in early 2022.

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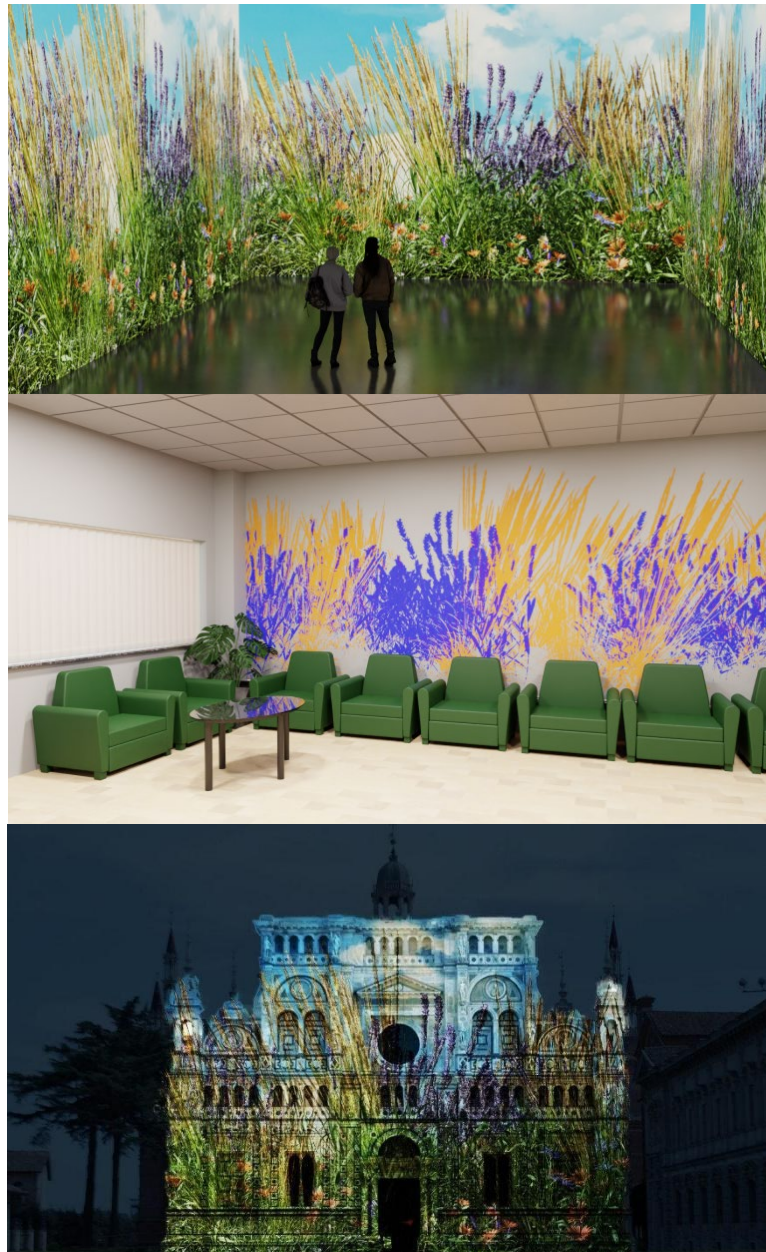
Figure 5.3. Visualizations of the project artwork (PhysicAI Garden) in various settings

5.2. Website and Social Media

5.2.1. Project Website

The project website (https://www.capable-project.eu) was launched in February 2020, shortly after kick-off meetings. A virtual server with the website is hosted at PUT premises. The home page is presented in Figure 5.4 and detailed description of the website is provided in D9.1 (Wilk et al., 2020). The website is updated and revised on a regular basis to include most recent information (e.g., news, public deliverables, published papers) and to improve access to provided information (e.g., by restructuring menus).

Currently, the website is in English, but we plan to add sections in Italian and Dutch focusing on patients and presenting the content in a comprehensible way (in lay language). While these sections will present the project and the system, they will focus on a clinical trial of the CAPABLE system and provide materials (e.g., in form of FAQ) enhancing posters and leaflets described in earlier sections.

The traffic on the website is constantly monitored and basic statistics are summarized in Section 5.7 as part of Web actions.
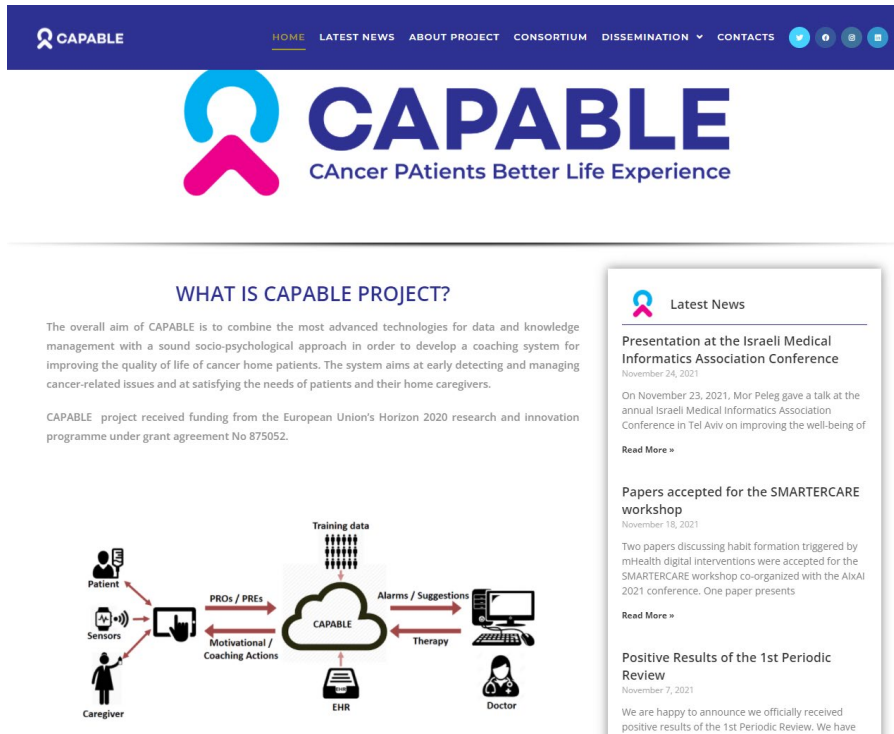
Figure 5.4. Home page of the project website

5.2.2. Social Media

Projects accounts in popular social media networks were created in early 2020 – they are summarized in Table 5.4. Basic statistics for specific accounts are summarized in Section 5.7 as part of Web actions.

Table 5.4. Project social media accounts

Social media	Account / profile
Facebook	capableprojecteu
Twitter	capable_project
LinkedIn	company/capableprojecteu
Instagram	capable_project

So far, Facebook and Twitter accounts have been used most intensively to distribute news and announcements related to the project (e.g., publication of papers or presentations at various

events). Now we are in the process of preparing a *campaign* on Instagram (and mirrored on Facebook) to popularize the CAPABLE project among patients (potential participants of the clinical trial) and among the general public. ICSM, UNIPV and PUT created a template for Instagram posts and prepared a series of posts describing in layman terms the project and its goals and presenting specific partners – examples are given in Figure 5.5. The posts are in English, and they will be translated to Italian and Dutch. The campaign started in December 2021 with introductory posts about the CAPABLE project and its goals and it will continue with more contents at a rate of at least one/two posts per week. We will also use Instagram to advertise the project artwork.
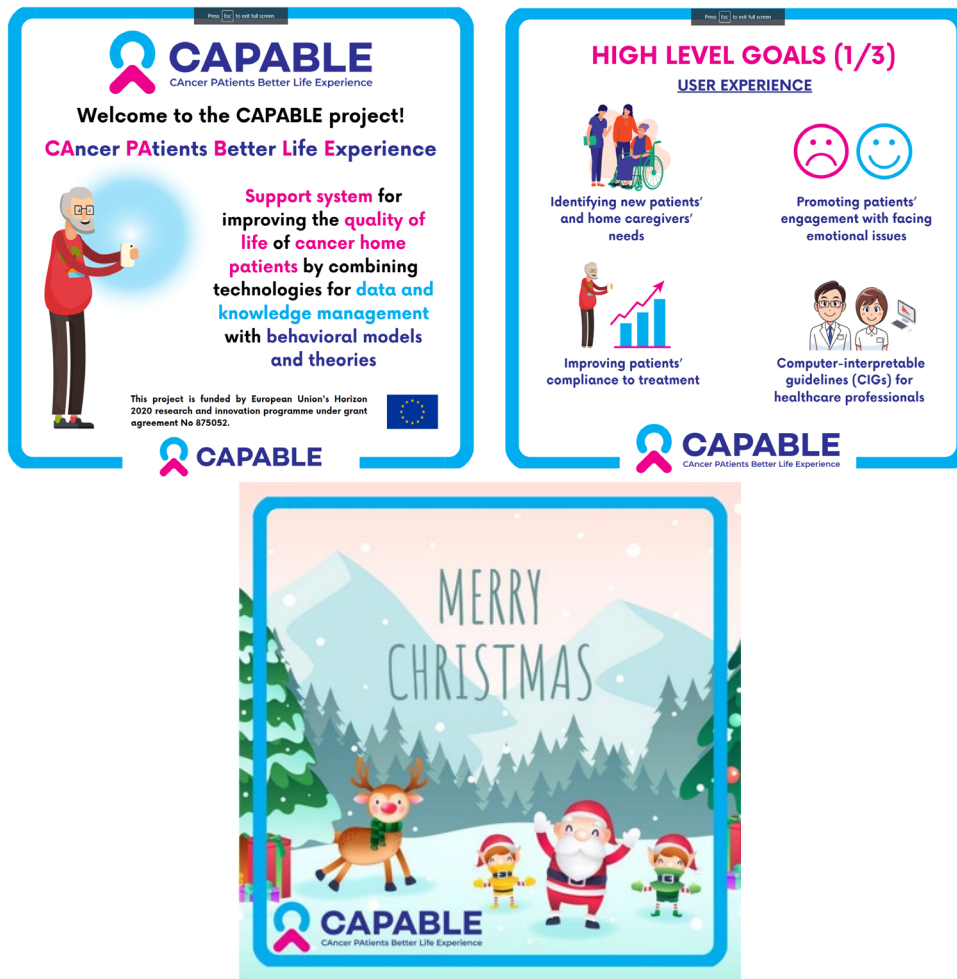
Figure 5.5. Sample Instagram posts, including one posted for Christmas 2021

We would like to explain that in Y1 and Y2 we relied on the project website augmented with social media to deliver CAPABLE news, information and results to various audiences, and the newsletter mentioned in the project proposal was postponed. Given the profiling of social media content with more focus on clinical users (patients and their home care providers) in early Y3 we will start distribution of a newsletter aimed at other (more "professional") groups of stakeholders.

5.3. General (Non-scientific) Media Releases

Table 5.5 lists 4 non-scientific media (press) releases published by CAPABLE in Y1 and Y2.

Table 5.5. Non-scientific media releases

Title	Publisher or broadcaster	Lan-guage	Part-ner	Date	Notes
Il coach virtuale arriva in soccorso dei pazienti	La Stampa, Italy	Italian	UNIPV	Nov 2019	La Stampa published in its IT section a note about the CAPABLE project
Eine bessere Lebensquali-tät für Krebspatientinnen	UoH News-letter, Israel	Ger-man	UoH	Jan 2020	UoH Newsletter published an article (in German) describing the CAPABLE project. The article focuses on personalized medicine and ways of improving cancer patient's quality of life. It also mentions some of the main cores of the CAPABLE project: coaching systems, data analysis and artificial intelligence.
Cancro al rene: coi para-metri vitali misurati a distanza una vita più normale è possibile	La Provincia Pavese, Italy	Italian	UNIPV	Feb 2020	Provincia Pavese published a short article describing the CAPABLE project
Meet your personal health monitor	UoH Presi-dent's Re-port 2020, Israel	English	UoH	May 2020	UoH President's Report 2020 published an interview with Mor Peleg on the CAPABLE system and the use of capsules to improve patient well-being.

5.4. Scientific Publications

Table 5.6 lists scientific publications prepared in Y1 and Y2. It includes 3 journal papers (1 published, 2 submitted) and 8 conference papers – 11 scientific publications in total.

Table 5.6. Scientific publications

Reference	Partners	Type	Status	URL/DOI	Target group	Open ac-cess	Peer-re-viewed
E. Parimbelli, Sz. Wilk, R. Cornet, P. Sniatala, K. Sniatala, S.L.C. Glaser, I. Fra-terman, A.H. Boekhout, M. Ottaviano, M.Peleg, A Review of AI and Data Science Support for Cancer Management, Artificial Intelligence in Medicine, 117 (2021), 102111	UNIPV, PUT, AMC, NKI, UPM, UofH	J	P	https://doi.org/10.1016/j.art-med.2021.102111	Academic community (AI, data science)	Go	Y
I. Fraterman, S.L.C. Glaser, S. Wilgenhof, S.K. Medlock, H.A. Mallo, R. Cornet, L.V. van de Poll-Franse, A.H. Boekhout, Ex-ploring the Supportive Care and Infor-mation Needs of Melanoma Patients Re-ceiving Immune-checkpoint Inhibition to Develop an eHealth Application: A Quali-tative Study, Journal of Medical Internet Research (2021)	NKI, AMC	J	S		Academic community (mHealth)	Go	Y
G. Lanzola, F. Polce, E. Parimbelli, M. Gabetta, R. Cornet, R. de Groot, A.	UNIPV, BIOM,	J	S		Academic community	Go	Y

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Reference	Partners	Type	Status	URL/DOI	Target group	Open access	Peer-reviewed
Kogan, D. Glasspool, Sz. Wilk, S. Quaglini, The Case Manager: a specialized component controlling the activation of knowledge sources in a distributed reasoning environment based on FHIR, Computer Methods and Programs in Biomedicine (2021)	AMC, UoH, DEON, PUT				(medical informatics)		
F. Polce, G. Lanzola, M. Gabetta, E. Parimbelli, S. Wilk, D. Glasspool, R. Leizer, A. Kogan, S. Quaglini, The Case Manager: Driving Medical Reasoning in a Distributed Environment for Home Patient Monitoring, in: Public Health and Informatics : Proceedings of MIE 2021. Studies in Health Technology and Informatics, vol. 281, IOS Press, 2021, pp. 610-614	UNIPV, BIOM, PUT, DEON, UoH	IC	P	http://dx.doi.org/10.3233/SHTI210243	Academic community (medical informatics)	Go	Y
A. Lisowska, S. Wilk, M. Peleg, Is It a Good Time to Survey You? Cognitive Load Classification from Blood Volume Pulse, in:2021 IEEE 34th International Symposium on Computer-Based Medical Systems (CBMS), IEEE, 2021, pp. 137-141	PUT, UoH	IC	P	http://dx.doi.org/10.1109/CBMS52027.2021	Academic community (AI, data science)	Gr	Y
A. Lisowska, S. Wilk, M. Peleg, Catching Patient's Attention at the Right Time to Help Them Undergo Behavioural Change: Stress Classification Experiment from Blood Volume Pulse, in: Artificial Intelligence in Medicine : 19th International Conference on Artificial Intelligence in Medicine, AIME 2021, Virtual Event, June 15–18, 2021, Proceedings, LNCS, vol. 12721, Springer, 2021, pp. 72-82	PUT, UoH	IC	P	http://dx.doi.org/10.1007/978-3-030-77211-6_8	Academic community (AI, data science)	Gr	Y
E. Parimbelli, M. Gabetta, G. Lanzola, F. Polce, S. Wilk, D. Glasspool, A. Kogan, R. Leizer, V. Gisko, N. Veggiotti, S. Panzarasa, R. de Groot, M. Ottaviano, L. Sacchi, R. Cornet, M. Peleg, S. Quaglini, CAncer PAtients Better Life Experience (CAPABLE) First Proof-of-concept Demonstration, in: Artificial Intelligence in Medicine : 19th International Conference on Artificial Intelligence in Medicine, AIME 2021, Virtual Event, June 15–18, 2021, Proceedings, LNCS, vol. 12721, Springer, 2021, pp. 72-82	UNIPV, BIOM, PUT, DEON, UoH, BIT, AMC, UPM, AMC	IC	P	http://dx.doi.org/10.1007/978-3-030-77211-6_34	Academic community (medical informatics)	Gr	Y
T.M. Buonocore, E. Parimbelli, L. Sacchi, R. Bellazzi, L. Del Campo, S. Quaglini, Improving Keyword-Based Topic Classification in Cancer Patient Forums with Multilingual Transformers, in: MedInfo 2021 Proceedings, 2021	UNIPV, AIMAC	IC	P		Academic community (AI, data science)	Gr	Y
N. Veggiotti, L. Sacchi, M. Peleg, Enhancing the IDEAS Framework with Ontology: Designing Digital Interventions for Improving Cancer Patients' Wellbeing, in: AMIA Annual Symposium Proceedings, AMIA, 2021.	UNIPV, UoH	IC	P		Academic community (medical informatics)	Gr	Y

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Reference	Partners	Type	Status	URL/DOI	Target group	Open access	Peer-reviewed
A. Lisowska, S. Lavy, Sz. Wilk, M. Peleg, Personality and Habit Formation: Is There a Link? in: Proceedings of the SMARTER-CARE Workshop, 2021	PUT, UoH	IW	P		Academic community (medical informatics)	Go	Y
A. Lisowska, Sz. Wilk, M. Peleg, From Personalized Timely Notification to Healthy Habit Formation: A Feasibility Study of Reinforcement Learning Approaches on Synthetic Data, in: Proceedings of the SMARTERCARE Workshop, 2021	PUT, UoH	IW	P		Academic community (AI, data science)	Go	Y

Type:	A = abstract, J = journal paper, B = book chapter, E = edited special issue or volume, IC = international conference paper, NC = national conference paper, IW= international workshop paper, NW = national workshop paper, O = other
Status:	S = submitted, A = accepted, P = published
Open access:	Go = gold, Gr = green
Peer reviewed	Y = yes, N = no

5.5. Presentations, Posters and Demos

Table 5.7 lists presentations, posters and demos, presented by CAPABLE partners in Y1 and Y2. There were 22 presentations and they targeted diversified audience with a detailed breakdown given in Table 5.8. Please note that some presentations were aimed at multiple audiences therefore the total number in this table is larger than 22. Moreover, the educational community includes high school students and teachers, and university students -- undergraduate, master and doctoral).

Table 5.7. Presentations, posters and demos

Authors and title	Partners	Date	Location	Type	Event name	Event type	Target group	Notes
M. Peleg*, Personalized Health	UoH	May 2020	online	P	President's Report 2020 (Report of the President of UoH)	NE, O	Academic community	
M. Peleg*, Ontology-based Decision-support Systems to Enhance Patients' Wellbeing	UoH	Jun 22, 2020	online	P	University of Haifa's Data Science Colloquium	NE, Cq	Academic community	50 attendees
M. Peleg*, Big Data for Improving the Wellbeing of Cancer Patients and the Data Science Research Center at the University of Haifa	UoH	Jun 28, 2020	online	P	Neurotech Community Day (UoH)	NE, W	Academic community	
M. Peleg*, Big Data for Improving the Wellbeing of Cancer Patients and	UoH	Jun 25, 2020	online	P	Presentation to the Minister of	NE, O	Public authorities	

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Authors and title	Part-ners	Date	Loca-tion	Type	Event name	Event type	Target group	Notes
the Data Science Research Center at the University of Haifa					Higher Education, Ze'ev Elkin (UoH)			
M. Peleg*, Ontology-based Decision-support Systems to enhance Patients' Wellbeing	UoH	Jun 28, 2020	online	P	Neurotech Community Day (UoH)	NE, W	Academic community	
Sz. Wilk*, S. Quaglini, Providing Comprehensive Support to Cancer Patients, Homecarers and Physicians	PUT, UNIPV	Sep 18, 2020	online	P	Telemedicine and eHealth 2020	NE, C	Academic and professional community	Conference organized by the Polish Society of Telemedicine and eHealth. Presentation received the distinction
N. Veggiotti, L. Sacchi, M. Peleg*, Virtual Activities to Improve the Mental Quality of Life of Cancer Patients	UNIPV, PUT	Dec 3, 2020	online	P	European Scientists Night	IE, O	General public	Virtual activity at the European Scientists Night
M. Peleg*. System Engineering for digital health: CDS and patient wellbeing	UoH	Jan 19, 2021	online	P	Digital Systems Engineering as a New Challenge and an Opportunity	S	Academic and industry communities	Organized by the Technion and the Gordon Center for Systems Engineering
M. Peleg*, From MobiGuide to CAPABLE: empowering patients with evidence-based and data-based monitoring and decision support	UNIPV	May 26, 2021	Haifa, Israel	P	Leadership in Academia Yearly Symposium (Council for Higher Education of Israel)	NI, W	Public authorities	
Sz. Wilk*. A. Lisowska*. M. Peleg, S. Quaglini, CAPABLE: CAncer Patients Better Life Experience	PUT, UNIPV, UoH	May 11, 2021	online	P	Seminar of the "Intelligent Decision Support Systems and Granular Computations" of the Committee on Informatics, Polish Academy of Sciences	NE, Sm	Academic community, doctoral students	
F. Polce*, G. Lanzola, M. Gabetta, E. Parimbelli, S. Wilk, D. Glasspool, R. Leizer, A. Kogan, S. Quaglini, The Case Manager: Driving Medical Reasoning in a Distributed Environment for Home Patient Monitoring	UNIPV, BIOM, PUT, DEON, UoH	May 2021	online	P	MIE2021: 31st Medical Informatics in Europe Conference	IE, C	Academic community	
A. Lisowska*, S. Wilk, M. Peleg, Is It a Good Time	PUT, UoH	Jun 7, 2021	online	P	CBMS 2021: 34th IEEE	IE, S	Academic community	

Authors and title	Part-ners	Date	Loca-tion	Type	Event name	Event type	Target group	Notes
to Survey You? Cognitive Load Classification from Blood Volume Pulse					CBMS Inter-national Symposium on Com-puter-Based Medical Sys-tems			
E. Parimbelli*, M. Gabetta, G. Lanzola, F. Polce, S. Wilk, D. Glass-pool, A. Kogan, R. Leizer, V. Gisko, N. Veggiotti, S. Panzarasa, R. de Groot, M. Ottaviano, L. Sacchi, R. Cornet, M. Peleg, S. Quaglini, CAncer PAtients Better Life Experience (CAPABLE) First Proof-of-concept Demonstration	UNIPV, BIOM, PUT, DEON, UoH, BIT, AMC, UPM, AMC	Jun 18, 2021	online	P+D	AIME 2021: 19th Inter-national Conference on Artificial Intelligence in Medicine	IE, C	Academic community	Demo movie played twice on both days of the main confer-ence
A. Lisowska*, S. Wilk, M. Peleg, Catching Patient's Attention at the Right Time to Help Them Un-dergo Behavioural Change: Stress Classifica-tion Experiment from Blood Volume Pulse	PUT, UoH	Jun 17, 2021	online	P	AIME 2021: 19th Inter-national Conference on Artificial Intelligence in Medicine	IE, C	Academic community	Also on YouTube: https://www.youtube.com/watch?v=Af_8vuuiDCk
T.M. Buonocore*, E. Pa-rimbelli, L. Sacchi, R. Bel-lazzi, L. Del Campo, S. Quaglini, Improving Key-word-Based Topic Classi-fication in Cancer Patient Forums with Multilingual Transformers	UNIPV, AIMAC	Sep 2021	online	P	MedInfo 2021	IE, C	Academic community	
N. Veggiotti*, L. Sacchi, M. Peleg*, Enhancing the IDEAS Framework with Ontology: Designing Digi-tal Interventions for Im-proving Cancer Patients' Wellbeing	UNIPV, UoH	Oct 26, 2021	online	P	AMIA 2021 Annual Sym-posium	IE, S	Academic and profes-sional com-munity	
M. Peleg*, A. Lisowska, Sz. Wilk, N. Veggiotti, L. Sacchi, An App for Im-proving the Wellbeing of Cancer Patients	UoH, PUT, UNIPV	Nov 23, 2021	Tel Aviv, Israel	P	Annual Is-raeli Medi-cal Infor-matics Asso-ciation Con-ference	NE, C	Professional community	
A. Lisowska, S. Lavy, Sz. Wilk*, M. Peleg, Person-ality and Habit For-mation: Is There a Link?	PUT, UoH	Nov 29, 2021	online	P	SMARTER-CARE Work-shop	IE, W	Academic community	
A. Lisowska*, Sz. Wilk, M. Peleg, From Personalized Timely Notification to Healthy Habit Formation: A Feasibility Study of Re-	PUT, UoH	Nov 29, 2021	online	P	SMARTER-CARE Work-shop	IE, W	Academic community	

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Authors and title	Part-ners	Date	Loca-tion	Type	Event name	Event type	Target group	Notes
inforcement Learning Ap-proaches on Synthetic Data								
M. Peleg*. How to de-velop an app that helps form health habits	UoH	Dec 21, 2021	Haifa, Israel	P	HEALTH DAY	O (high schoo l talk)	High school students and teachers	
R. Cornet*. FAIRFrom Principles via Practices to Profits	AMC	Nov 10, 2021	onlin e	P	FAIR Coffee Lecture	Cq	Academic community	Organized by Maas-tricht University
M.Ottaviano*. Presenta-tion of examples of tele-medicine systems, includ-ing CAPABLE	UPM	Nov 3, 2021	Ma-drid, Spain	P	Telemedi-cine (master class lec-ture)	O (high schoo l talk)	Academic community	Master of Telemed-icine - final class, Living Lab Facilities

Authors:	presenting author marked with *
Type:	P = presentation, D = demo, Po = poster, Pa = panel
Event type:	IE = international event, NE = national event, C = conference, W = workshop, S = symposium, Sm =seminar, Cq = colloquium, M = meeting, O = other

Table 5.8. Audience groups targeted by presentations, posters and demos

Target group	No events
Academic community	16
Professional community	3
Education community	3
Public authorities	2
Industry community	1
Public community	1

5.6. Participation in Events

Table 5.9 presents events participated by the CAPABLE partners in Y1 and Y2. There were 3 such events and participation in them was more passive in comparison to events listed in Sec-tion 5.5 – it focused on networking and less formal presentation of the CAPABLE project.

Table 5.9. Participation in events

Event name	Event type	Date	Loca-tion	Part-ners	Target audience	Notes
Meeting of the Polish Society of Telemedi-cine and eHealth	NE, O	Sep 18, 2020	online	PUT	Academic and professional community	Networking, informal presentation and discussion on telemedical as-pects of the CAPABLE project
Telemedicine and eHealth 2021	NE, C	Sep 17, 2021	online	PUT	Academic and professional community	Networking, informal presentation of progress made in the CAPABLE project

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Event name	Event type	Date	Loca-tion	Part-ners	Target audience	Notes
Webinar "Traslational Medicine", Ospedale di Alessandria, Italy	NE, Sm	Oct 19, 2021	online	UNIPV	Healthcare providers	The role of AI and decision support systems, short demo of the CAPABLE project

Event type: IE = international event, NE = national event, C = conference, W = workshop, S = symposium, Sm =seminar, Cq = colloquium, M = meeting, O = other

5.7. Web Actions

Table 5.10 shows web actions completed in Y1 and Y2. Statistics for the website and social media accounts are given for December 6, 2021.

Table 5.10. Web actions

URL	Partners	Description
Project website https://www.capable-project.eu	Various	Multiple revisions and updates with new content were introduced Statistics for Y1 and Y2: 38,189 visitors, 96,573 visits, on average 4,390 visits per month
Facebook page https://www.facebook.com/capableprojecteu	Various	Various posts and updates were published 165 followers
Twitter account https://twitter.com/capable_project	Various	Various posts and updates were tweeted 53 followers
LinkedIn account https://www.linkedin.com/company/capableprojecteu	Various	Various posts and updates were published 39 followers
Instagram account https://www.instagram.com/capable_project/	Various	Various posts (photos) were published and a campaign aimed at clinical users (patients, home care givers) was started 69 followers
Zenodo community https://zenodo.org/communities/capable	PUT	Entries for all public deliverables were created and PDF files were uploaded and referenced from the project website
GitHub account https://github.com/Capable-project/capable-rl4vc	PUT	A repository with a simulation environment employing reinforcement learning to test various patient prompt strategies was made publicly available to allow for reproducibility of results presented in a SMARTERCARE workshop paper

5.8. Liaisons with Other EU Projects and Initiatives

Table 5.11 lists liaisons with other EU projects and initiatives in which the CAPABLE partners were involved in Y1 and Y2. We would like to explain that also CEDAR is not an EU project (it has been founded by the National Institutes of Health), it is paramount for the FAIR data sharing and open science -- initiatives that are endorsed by EU through OpenAIRE and Open Science Cloud -- and therefore we include it in the list.

Table 5.11. Liaisons with other EU projects and initiatives

Project info	Pro-gram	Date	Location	Partners	Contact details	Notes
CEDAR https://metada-tacenter.org/	NIH	Q3 2021	online	AMC	Mark A Musen <musen@stan-ford.edu> John Graybeal <jgraybeal@stan-ford.edu>	
PERISCOPE https://eupre-vent.eu/periscope/	H2020	2021 (multiple contacts)	online	UoH		Sharing of experience related to ethics in sci-entific research

5.9.   Contacts with Relevant Stakeholders, KOLs and Expert Groups

Table 5.12 lists relevant stakeholders contacted by the CAPABLE partners in Y1 and Y2.

Table 5.12. Contacts with stakeholders, KOLs and experts

Stakeholder info	Stakeholder type	Date	Location	Partners	Contact de-tails	Notes
HCP Medical Center https://www.cmhcp.pl/	Health care provider	Dec 4, 2021	Poznan, Poland	PUT	Michał Monkiewicz <onkimed@gmail.com>	Dr. Monkiewicz is a radiologist, and he oversees information infrastructure of the hospital. During the meeting we presented clinical and technological aspects of the CAPABLE project and discussed the clinical potential of the CAPABLE system.

5.10. Other Dissemination Actions

Table 5.13 shows various other dissemination actions completed in Y1 and Y2.

Table 5.13. Other dissemination actions

Type	Date	Partners	Description
Survey partici-pation	Nov 2021	UNIPV	UNIPV was invited to participate in a survey promoted by the ongoing study "Assessing the reproducibility of research results in EU Framework Programmes for Research", which was contracted by Directorate-General for Research and Innovation (DG RTD) of the European Commission, and implemented by the team from PPMI, Know Centre and Athena RC. The survey aims at better understanding, testing and monitoring the pro-gress of reproducibility over time and across EU Framework Programmes. It will help to identify further policy actions needed to improve the policies on reproducibility of re-search.

6. Summary and Next Steps

In this deliverable we have summarized the dissemination plan for the CAPABLE project and presented C&D activities completed in Y1 and Y2. These activities were focused on stakeholders from the research and academic communities, but we also reached out to the general public, policy makers and influencers, and clinical customers and users, i.e., healthcare professionals and patients. Here we would like to explain that C&D efforts involving clinical users were also made within WP7 and are described in deliverables D7.3 and D.7 (Ottaviano et al., 2021a, 2021b).

In the reported period we published 9 scientific papers (8 conference and 1 journal) and submitted for publication 2 other journal papers. While this is slightly below the assumed publication level for conference papers (5+ papers per year), it is associated with less intense publication activities in Y1, also observed in other EU projects. In fact, most papers were published in Y2 and we confidently expect to keep and improve the publication pace in following years.

CAPABLE partners also gave 22 oral presentations, including a demo of the CAPABLE project, aimed at diversified audiences. Moreover, selected stakeholders were contacted personally and introduced to the CAPABLE project and system (see D7.3 and D7.4 for more details).

Here we would like to mention the challenges associated with the COVID-19 pandemics. It severely limited the availability of healthcare professionals to engage in many C&D activities, e.g., virtual meetings or workshops. Moreover, due to imposed social distancing and lockdowns we were not able to organize physical (in-person) workshops for cancer patients and their home caregivers that offer a better opportunity for involvement and bi-directional communication than virtual events. Since the situation in the coming months is uncertain, we will employ Web-based communication channels, e.g., social media, to reach out to patients and their families, as discussed below.

Our future C&D activities planned for Y3 and Y4 include:

- Continuing dissemination efforts targeted at the research and scientific community by publishing papers and participating in scientific events.
- Identifying and initiating contacts with other stakeholders (in addition to those listed in Table 5.3) who represent industry and business, influencers and policy makers and who can become potential supporters and funders during exploitation of the project. In particular, we plan to reach telecom and pharma companies, manufacturers of mobile devices (smartphones, smartwatches) and software, standard development bodies and clinical guideline developers. We will also contact representatives of municipalities where the pilot clinical trial will be conducted to raise awareness of the citizens. First (in Y3), we plan to focus on influencers and policy makers, while in Y4, once the exploitation strategy is fixed, we will intensify interactions with stakeholders from business and industry.
- Organizing a workshop for stakeholders from the clinical customer group to collect their feedback related to key exploitable results (KERs) defined in WP8. This workshop is planned for early Y3, so there is sufficient time to revise KERs according to the expectations of the clinical customers.
- Preparing communication materials aimed at clinical customers and investors that will present a portfolio of products and services provided by the CAPABLE project. Here we will take advantage of support provided by the EU Result Booster.

- Intensifying the campaign on social media (especially on Instagram) focused on patients and the general public. We believe this campaign will allow us to overcome challenges associated with the current pandemic situation and limitations imposed on physical events.

- Intensifying activities of academic partners aimed at popularizing the project results in the educational community, with a special focus on university students. This will involve presenting the CAPABLE system and other outcomes of the project during lectures in appropriate courses (e.g., medical informatics, information systems, public health, oncology). In particular, UNIPV hosts the MEET master course (Medicine Enhanced by Engineering Technologies), where students of the faculty of medicine attend also courses on innovative technologies, thus representing a suitable target for CAPABLE dissemination.

- Starting periodic publication of a project newsletter aimed at "professional" stakeholders -- in this sense it will be complementary to the campaign in social media mentioned above. Following the declaration in the project proposal, the newsletter will be published every three months starting in early Y3.

- Organizing a workshop for patients and their home caregivers to increase their awareness of the project, to advertise the clinical trial of the CAPABLE system in Y4 and to "pre-recruit" potentially interested patients. When organizing this workshop we plan to rely on the experience of AIMAC that is a very important facilitator for dissemination and has good links with cancer patients in Italy and also in Europe through FAVO and the European Cancer Patient Coalition.

- Intensifying contacts with other EU projects, policy makers and other influencers. Here we will use connections with other EU projects (e.g., FAITH, BD4QoL, or EUNICE) and existing contacts of specific partners. We will also organize virtual expert discussion panels for stakeholders from different domains and countries.

- Taking further advantages of communication tools provided by EC (e.g., Euronews, Futuris report, Horizon Magazine, Project Stories, Research*eu) that are accessible through the Project Officer.

- Starting preparations for the project workshop that will be co-located with one of the top European conferences in medical informatics or AI in medicine. A possible venue includes the AIME 2023 conference that will be organized in Slovenia.

7. Glossary

C&D	Communication and dissemination
EIT	European Institute of Innovation & Technology
EMR	Electronic medical record
HIS	Hospital information system
FAQ	Frequently asked questions
HMO	Health maintenance organization
KER	Key exploitable result
KOL	Key opinion leader
SME	Small and medium-sized enterprise
WP	Work package

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