D3.3

2nd Communication and Dissemination Activity Report

Related Work Package	**WP3 – Dissemination, Communication, Open data availability and Data management Plan**
Related Task	Task 3.3 – 2nd Communication and Dissemination Activity Report
Lead Beneficiary	Foundation for Research and Technology - FORTH
Contributing Beneficiaries	All
Document version	1.0
Deliverable Type	Report
Distribution level	Public
Contractual Date of Delivery	30/09/2023
Actual Date of Delivery	16/10/2023

Authors	**Theano Apostolidi and Chara Mavromati(FORTH)**
Contributors	Manolis Tsiknakis (FORTH)
Reviewers	Nikolaos Tachos (FORTH), Mayra Rubio (QUIBIM), Álvaro Paricio (QUIBIM), María José Alarte (QUIBIM), Ana Blanco (QUIBIM)

Version history

Version	Description	Date completed
0.1	Table of Contents	01/09/2023
0.2	First Draft	14/9/2023
0.3	Second Draft	19/09/2023
0.4	Changes by Theano Apostolidi	20/9/2023
0.5	Changes by Chara Mavromati	21/09/2023
0.6	Updates and refinements in all sections by Theano Apostolidi	25/9/2023
0.7	Updates and refinements in all sections by Chara Mavromati	27/09/2023
0.8	Updates and refinements in all sections by M Tsiknakis	2/10/2023
0.9	Review by Nikolaos Tachos	10/10/2023
1.0	Review by QUIBIM team	14/10/2023
vf	Final version	16/10/2023

Statement of Originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgment of previously published material and of the work of others has been made through appropriate citation, quotation or both.

Disclaimer

This document contains material, which is the copyright of one or more ProCAncer-I consortium parties, and may not be reproduced or copied without permission.

All ProCAncer-I consortium parties have agreed to full publication of this document.

The commercial use of any information contained in this document may require a license from the proprietor of that information.

Neither the ProCAncer-I consortium as a whole, nor individual ProCAncer-I consortium parties, warrant that the information contained in this document is capable of use, nor that use of the information is free from risk, accepting no liability for loss or damage suffered by any person using this information.

Executive summary

The deliverable (D3.3) describes all Communication and Dissemination activities that have taken place during the period 1/4/2022-30/9/2023. Scope of the activities is to maximize the impact and the awareness of the project. All tasks have involved the whole consortium to ensure their buy-in.

The 2nd Dissemination and Communication Activities Report builds mostly upon all the activities that have taken place since the beginning of the project. The deliverable is updated every one and a half year up to now, along with the Reporting period of the project.

The report presents a detailed overview of the dissemination activities during M19-36 for the ProCAncer-I project. It includes the objectives of the activities, target groups, promotional tools and material, and visual identity among other strategies. All tools are being used to raise worldwide awareness and principally act as the brand guidelines of the project. Also, the deliverable reports all the actions that have been concluded up to M36 for the dissemination of the project.

Table of Contents

List of Abbreviations

Abbreviation	Explanation
PCa	Prostate Cancer
TC	Teleconference
D	Deliverable
MRI	Magnetic Resonance Images

List of Figures

1 Introduction

1.1 The ProCAncer-I project

Prostate cancer (PCa) increasingly becomes a major socio-economic challenge as it is the third more lethal cancer disease in Europe. ProCAncer-I brings together numerous clinical centers as data providers, modelling, medical, and industry experts to advance current knowledge on prostate cancer and focuses on developing new AI-based software tools for accurate prognosis and precise treatment of the disease.

Specifically, the objective of ProCAncer-I is to develop advanced artificial intelligence (AI) models to address unmet clinical needs along the care continuum, i.e. from early diagnosis to the prediction of clinically significant cases, metastases development and prediction of response to treatment. To achieve this, partners will generate a large interoperable repository of health images and a scalable high-performance computing platform hosting the largest collection of PCa multiparametric Magnetic Resonance Images (MRI), but also histological and clinical data to be used for developing robust PCa AI models. To ensure the rapid clinical implementation of the models developed, the project's partners and especially the clinical partners will participate actively in the results monitoring for evaluating performance, accuracy, and reproducibility.

The results of the ProCAncer-I are expected to have significant clinical impact since they will lead to a reduction or even total removal of overdiagnosis and overtreatment of indolent tumors, while maximizing precision in diagnosis and treatment (i.e. increase performance in discriminating indolent from aggressive disease, early predicting recurrence and detecting metastases or predicting the effectiveness of therapies, e.g. prediction of toxicity.)

1.2 Purpose of the document

This deliverable D3.3 presents the dissemination and communication activities that have taken place during M19-M36 of the ProCAncer-I project. It provides an overview of all actions that have taken place so far and describes some future actions that are planned. All related final future activities will be reported on D3.4 along with any modifications or updates on the planned activities.

To ensure that these developments will reach the clinical and research community, and the patients, as end-beneficiaries, and that they will be available in the long term, the project needs robust plans and actions concerning dissemination, communication, and exploitation, that are working together in tandem.

1.3 Importance of communication and dissemination

The timely and effective dissemination of the project and its results is an essential part of Horizon 2020 research projects. Apart from being a contractual obligation in the grant agreement, the dissemination and communication activities are a must for the progress of science and technology, even more in projects such as ProCAncer-I, in which it is important to raise awareness about the innovations produced. The main benefit of a well-established communication and dissemination strategy is that it removes ambiguity and increases the coherence of activities.

The results of the ProCAncer-I project need to achieve maximum impact by reaching as large an audience as possible. To this end Dissemination Activities are performed by all project partners, but they differ according to the nature of the partners. The industrial partners are mostly

approaching relevant industry-sectors, as well as their distributors and client networks, while the academic and research partners are focusing on disseminating the project results towards research institutes, universities, and scientific community worldwide. Finally, the clinical partners are focusing on disseminating the project results towards clinicians and patient organisations across Europe.

The dissemination activities are also differing in intensity based on the evolution of the project. The dissemination activities are carried out in three main phases, spanning throughout the project duration and extend beyond it, with increasing level of intensity, starting from the creation of general awareness and project identity and concluding with attracting potential supporters and customers/users of the project results. The timing of the dissemination activities, has been differentiated due to the evolution of the coronavirus pandemic.

The Dissemination and Communication Activities Report is reviewed every 18 months in order to update the list of activities and events that have been carried out and those that are planned for the subsequent time period.

2 Communication Strategy

2.1 ProCAncer-I Communication strategy

The constant objectives of the ProCAncer-I Communication and Dissemination activities are to:

- Raise awareness and understanding about the project among partners, health professionals, researchers, the wider public and patients as end beneficiaries.

- Establish the project's visual identity and communicate it in an integrated and consistent way, both externally and internally

- Communicate the vision of the project

- Facilitate the exchange of information and liaise with similar initiatives to increase the visibility of the project

- Ensure policy and decision-makers are informed about the project to influence future policy and practice

- Prepare Standardisation Activities with other projects, Bodies and Scientific Community

- Keep all the possible interested Stakeholders informed and interested in the vision and the results of the project

- Disseminate and share the results, knowledge and information produced within the project to maximize the impact and enable wider use and exploitation by other interested stakeholders and re-use of knowledge.

- Identify the best channels of communication to reach the aforementioned goals

- Effectively use these communication channels to present the project results

- Promote the project results and communicate the benefits to the different target groups and beneficiaries, facilitating also the commercial exploitation

- Encourage collaboration and participation of partners in external communication throughout the lifetime of the project and beyond

- Finally, a strong communication plan acts as the project's 'brand guidelines', dictating how partners must represent the project in any public materials they produce and what this will include, taking into account targeted events and groups

2.2 ProCAncer-I Key messages

To fulfill the strategy and the objectives of the ProCAncer-I project, the messages must be:
- Simple
- Clear
- Easily understandable
- Use of appropriate language for the target audience

New and well-focused ideas and messages are also very important, and they should entail the key elements of the project. Messages are updated throughout the project following its progress and reviewed periodically.

2.3 ProCAncer-I Target Groups

Within the ProCAncer-I context, the key groups, organisations and individuals are being identified. We have identified different groups that would and could be interested in the use of the results of the projects and in the re-use of the knowledge generated and acquired.

- **Healthcare providers: Healthcare professionals and facilities:** Radiologists, Urologists, Oncologists involved in the treatment of cancer patients, as well as hospitals and clinics
- **Health Authorities:** Healthcare systems
- **Regulatory Authorities and Standardization Bodies**
- **Education & research organisations:** Universities, Academic and Educational Associations, Research Centers, Professional and Scientific Organizations
- **IT experts in** Artificial Intelligence and Machine Learning Modelling, Data Repositories and Cloud Infrastructure, Clinical Decision Support Systems, and Image Analysis
- **Industry:** Health-related software, application and service providers, OpenSource Community and Platforms, Patient/Data Registry Organisations, Pharmaceutical companies, Imaging Vendors,
- **Various financial providers/beneficiaries:** Insurance companies, Charities, Foundations
- **Patients as end beneficiaries:** Cancer patients, patient societies/ organisations and advocates / professional groups, patient family members and friends (patient caregivers),
- **ProCAncer-I Partners**
- **Other Stakeholders:** SMEs, Startups, etc

During the first 6 months of the project lifetime, the Target Groups were further analysed and defined for each country to identify specific organisations, groups and even persons to which the different messages, events, notifications, etc will be provided concerning the different activities of the project. This way a distribution list was created, which is constantly updated and used for different dissemination activities according to the context of each activity.

2.4 Channels for Communication

The channels used to convey the message to target groups are different according not only to the target group but also to the information published.

A range of different communication and dissemination channels and tools are used to ensure the highest visibility of the project progress and its results:

- <u>Scientific and technical results</u> are disseminated via peer-reviewed papers or papers presented at specialised conferences and journals

- <u>Software results and demonstrations</u> are presented through the organisation of five Special Workshops organised by the ProCAncer-I project and/or any other presentation or special event opportunity that may arise.

- <u>Webinars, seminars and common live activities</u> are used for addressing Cancer patients, patient societies/ organisations and advocates / professional groups, patient family members and friends (patient caregivers), in collaboration with local and European associations.

- General Communication tools like web presence, social media, leaflets, newsletter, etc are adapted accordingly.

- <u>Web site:</u> a strong and highly visible web presence has been set up from the beginning of the project and is constantly updated.

3 Communication Activities

3.1 Project Identity

3.1.1 Project logo

In order to make the project name recognisable and memorable, a strong logo was created. Discussions were held with the Project Coordinator and it was agreed that the logo should be simple, as well as easily read from a distance, or whilst small (such as on flyers).

Figure 1 - ProCAncer-I Logo

The logo was prepared during the submission phase of the proposal.

For more information on the logo and the project identity please refer to Deliverables D3.1. Communication Roadmap and 1st Communication and Dissemination Activity Report

3.1.2 Main image of the project

In order to make the project recognisable and memorable, a main image was created, that was used in all communication and dissemination material.

During this period the main image changed, as the previous one did not depict so strong the object of the project. We believe that the new image shows more explicitly the objectives of the project and makes automatically more accurate correlations, only by viewing the image for any audience. This way the project would be more memorable.

The new image has been introduced in all media and is used since the beginning of July 2022

Figure 2 - ProCAncer-I new image

3.2 Internal Communication

Continuous internal communication is just as important as external visibility to the success of the project. It should allow partners to:

- Keep track of project-related decisions and action points

- Communicate the role and responsibility of each project participant

- Communicate on WP progress

- Disseminate the right level of information to project participants

- Communicate on any achievements, news, highlights among the partners

Among others, this will also give the opportunity for partners to inform other partners about courses, seminars, news within their organisations, and promote the flow of information.

To this end, we are preparing and circulating an internal (consortium) newsletter almost every month, in form of a mail, with all the past and upcoming news, including information from all aspects of the project implementation: administrative, scientific, clinical, legal, technical, dissemination etc.
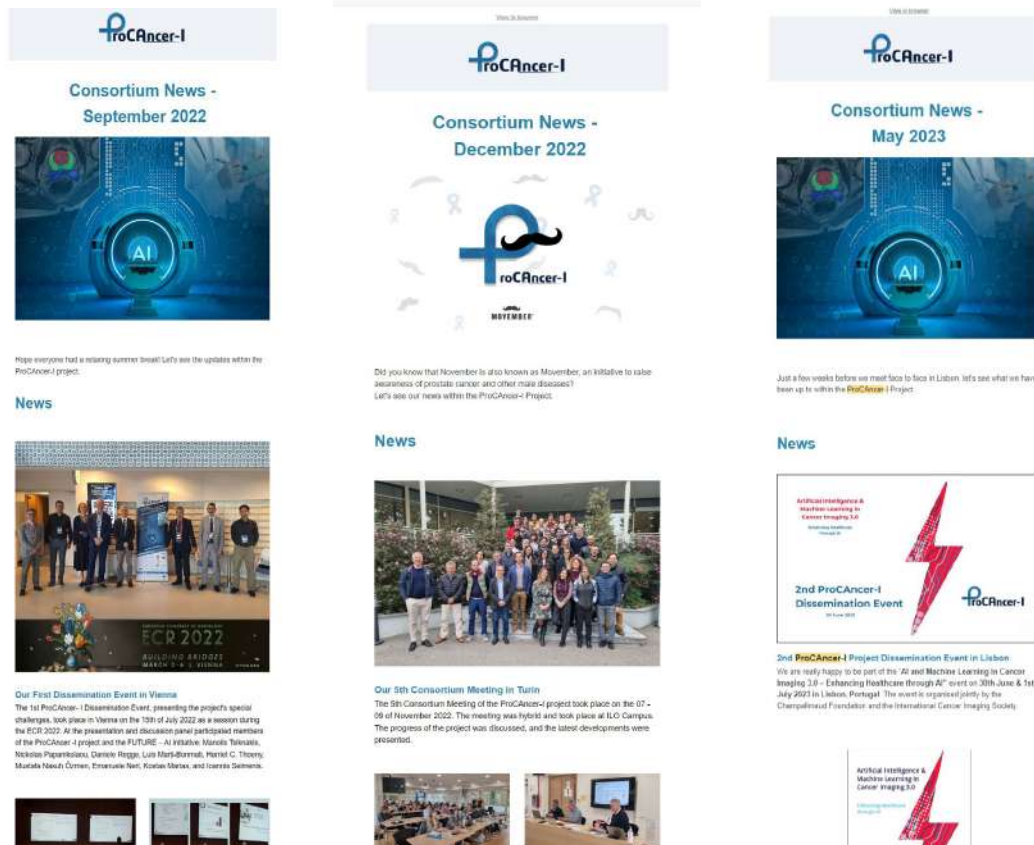
Figure 3 - ProCAncer-I Consortium News

For more information on internal communication tools please refer to Deliverables D3.2. - 1st Communication and Dissemination Activity Report

3.3 Communication tools

3.3.1 Contribution by the partners

UNIPI, as the leader of the Communication Task, and FORTH as Leader of Work Package 3 for the Communication and Dissemination of the project, are responsible for the overall coordination of the communication activities, however each partner also has a responsibility to contribute to these activities.

Partners are requested to:

- Identify and inform UNIPI and FORTH about dissemination and new communication opportunities and activities (e.g. events, press articles, etc.);
- Contribute content like news, achievements, activities, events, publications, website posts, Social Media posts, Newsletters, prepare webinars, articles, etc;
- Contribute content and virility to all social media tools, and involve their members
- Help to promote and organise special ProCAncer-I events;
- Involve the press/communication officers at their organisations

All internal and external information to be published is sent via e-mails or by using a standard template, and uploaded in the CBMLBox, to Chara Mavromati, mavromati@ics.forth.gr, and Theano Apostolidi (apost@ics.forth.gr). This material is then shared across the public project spaces (newsletter, website, social media) in a harmonized way.

3.3.2 Website

The project website is the main hub for information throughout its lifetime: news, achievements and updates on events are all reported here. It holds all public information (e.g. general information on the project, activities and consortium partners, public deliverables and achievements), hosts key results, and offers added-value services (e.g. RSS feed, newsletter, signpost to other news/ events/ related EU projects), links to the project's social media feeds to create a joined-up communications environment and/or other communication options facilitating the sharing and requesting of information amongst the project partners, stakeholders and wider public.

The website is constantly updated since its initial development at the beginning of the project lifetime. All partners involved in the update of the website with new suggestions and material. For increasing the visibility of the project, all ProCAncer-I partners are contributing to driving traffic to the website. In this sense a new tab "For patients" has been added. It can be found at the top of the website's Homepage. In this tab patients can be informed on issues that are of more interest for them and in a more simplified language (not scientific). The page is constantly be updated with simplified research news from the scientific and clinical community, as the project progresses.
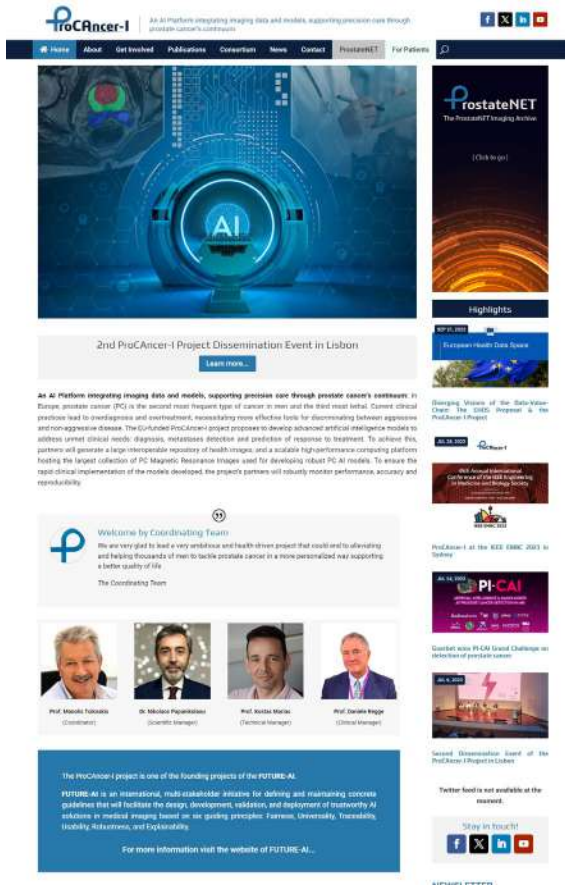
Figure 4 - ProCAncer-I website homepage   Figure 5 - "For Patients" ProCAncer-I website
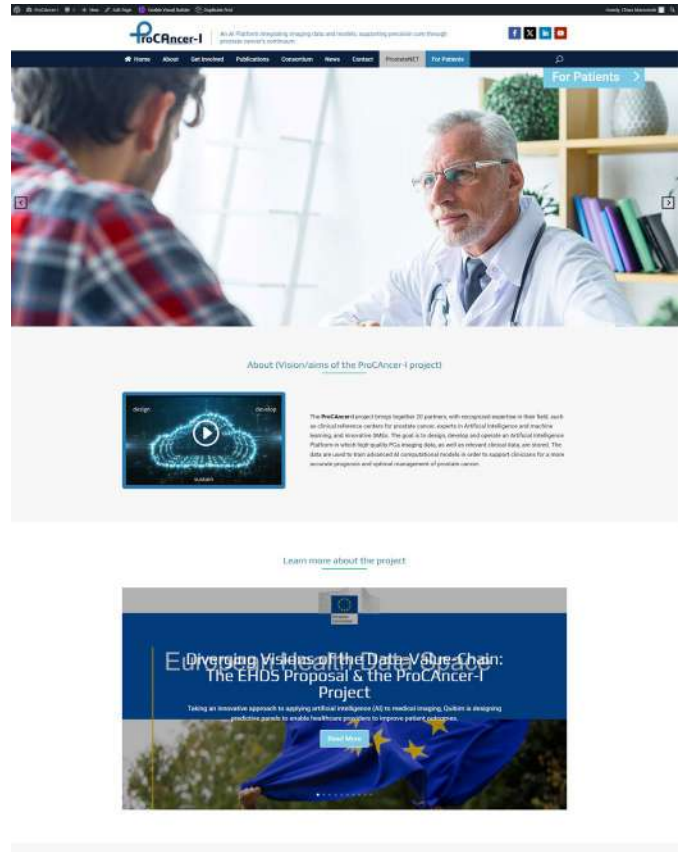
3.3.2.1 Website Visit Results up to now

As the Google Analytics show, from 1/4/2022 until 30/9/2023, we have had **4.026** users visiting the ProCAncer-I site and on average, their session lasted more than 2 minutes.

In total, the page views reached **13.1k.**
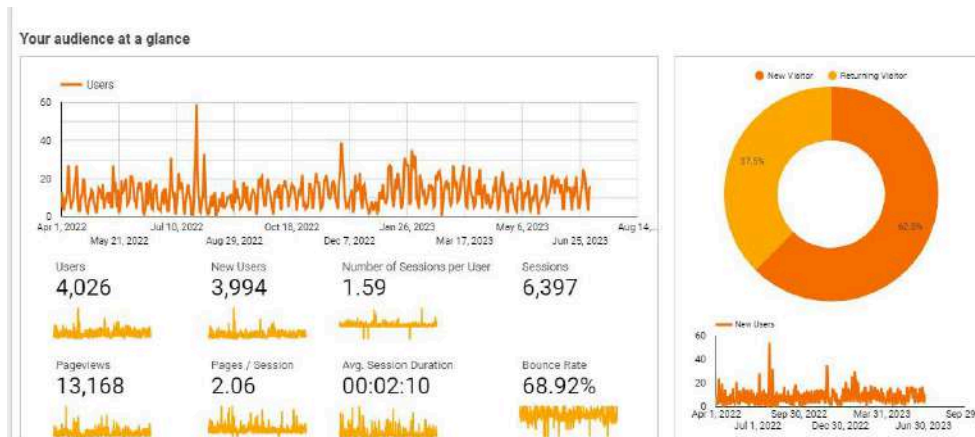
Figure 6 - ProCAncer-I website Google Analytics

3.3.3   Social Media

Social Media Accounts have been set up for the project in **Facebook, Twitter and LinkedIn** (from the project initiation). Also a **YouTube channel** was created on October 2022. All social media channels are updated regularly to attract visitors, raise awareness about the project and inform any interested parties on the news and progress of the project and its results. Usually there are 1-2 new posts per week and there is a clear tendency to try to direct followers to the main project website, where anyone can find more information about the project and its results.

All partners are promoting news content and public information for the ProCAncer-I project using their own social media channels and they are also contributing to the content for dissemination.

Also, the Social Media Tools are linked with the partners' Social Media accounts and with specific relative projects. These social media accounts are presented below with their results:

Facebook Account:

Page: ProCAncer-I EU project

User name: @ProCAncer.I

Figure 7 - Screenshot from the ProCAncer-I Facebook page and Facebook metrics

Twitter Account

Name: ProCAncer-I

User Name: @ProCAncer_I
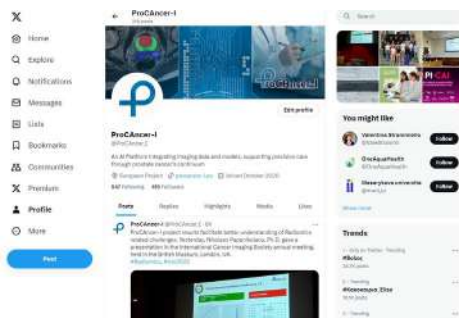
Figure 8- Screenshot from ProCAncer-I twitter account and twitter metrics

LinkedIn Account:

Name: ProCAncer-I project
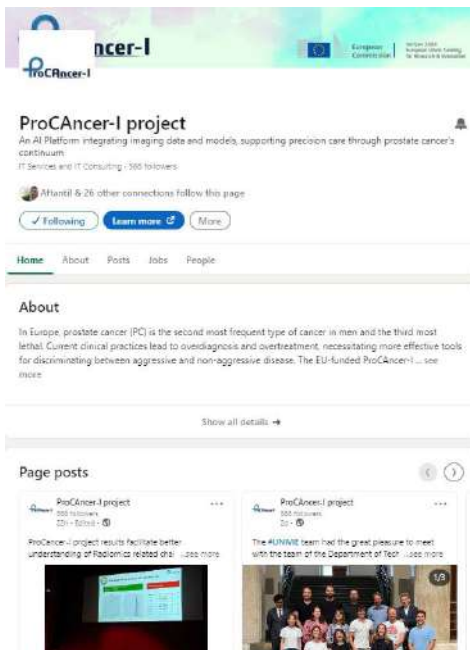
Figure 9 - Screenshot from ProCAncer-I LinkedIn page and metrics

YouTube Account:

Page: ProCAncer-I Project
User name: @ProCAncer-I
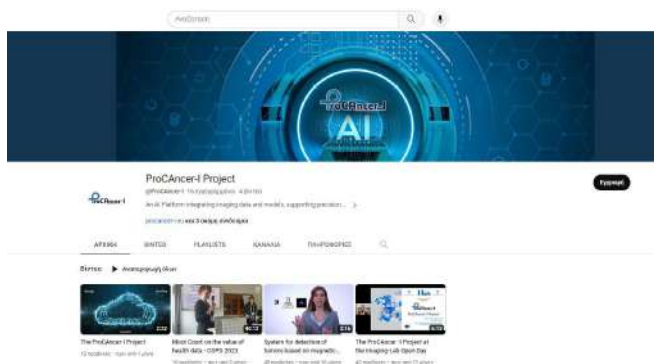
Figure 10 - Screenshot from ProCAncer-I YouTube page and metrics

3.4 Other Communication Tools

A plethora of communication channels and tools are exploited to ensure broad dissemination of project results to the different target groups. All partners are trying to make use of them, according to the different needs of the audience, target groups, timing, etc.

3.4.1 Promotional Material

A threefold leaflet has been designed and printed. It is being distributed and reprinted by all the partners for the different live activities they are organising and taking part.

The leaflet is produced in both digital and printed form and is uploaded in the CBMLBox so that all partners can have access to it and use it. It is also uploaded on the website.
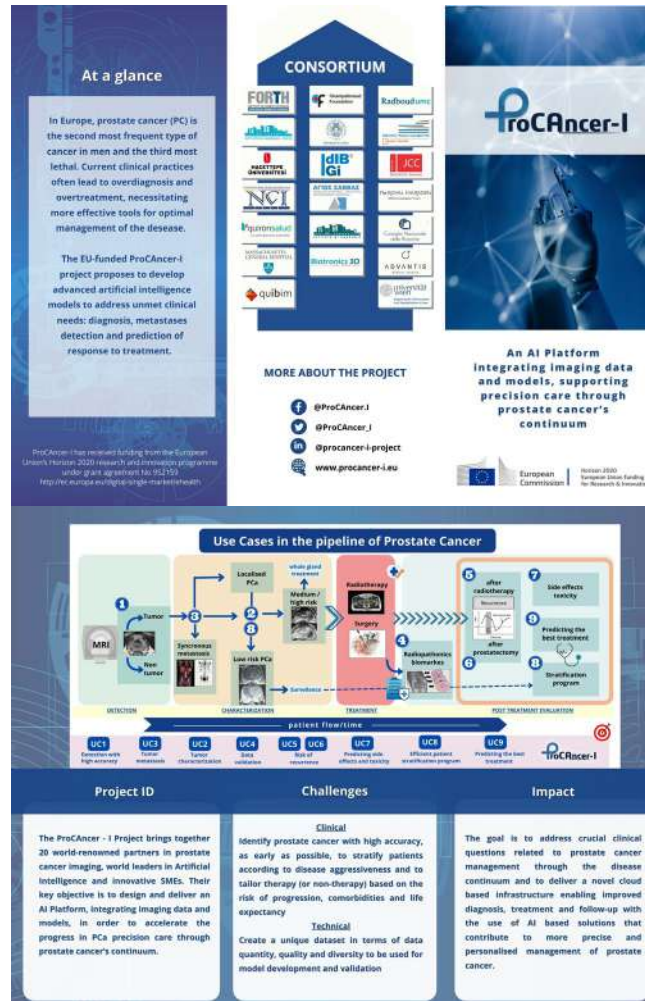
Figure 11 - ProCAncer-I leaflet

The banner and the poster for the project have also been updated with the new image of the project and they have been printed by the partners who made use of them. They are all produced in both digital and printed form and is uploaded in the CBMLBox so that all partners can have access to it and use it and adjust it to the needs of every event.

Figure 12 - ProCAncer-I Banner

Figure 13 - ProCAncer-I poster

3.4.2 Promotional Videos

The promotional video can be found in the link:
https://cbmlbox.ics.forth.gr/index.php/apps/files/?dir=/ProCAncer-I/WP3%20-%20Dissemination/Videos&fileid=425932 , and it has been updated.

It has been communicated to all partners, and is also uploaded in the CBMLBox for all partners.

It is used for interaction with the patient associations in different countries.

Figure 14 - Screenshot from the ProCAncer-I video

4 Dissemination Activities

4.1 Newsletters

So far, we have published **five** (5) newsletters. All newsletters are published in the web site of the project (https://www.procancer-i.eu/news-section/newsletters/) and are downloadable. The newsletters have been sent by email to the consortium members and shared on the Social Media project accounts, in order to be easily communicated. They were also sent out to identified Stakeholders (organisations, groups, individuals), according to the Distribution List and to individuals which sign up to receive the newsletter via the project website.

The next newsletter is prepared for October 2023.

Figure 15 - Screenshot from Newsletter tab with all published Newsletters

Figure 16 - Screenshot from Newsletter #5

4.2 Events and presentations

4.2.1 Special ProCAncer-I Events

In order to facilitate the wider dissemination of the project's results, the ProCAncer-I Consortium had planned to co-organise dedicated Workshops/ Special Events at key clinical sites, i.e. FPO, FCHAMPALIMAUD, Radboudumc, HULAFE and UNIPI, possibly collocated with international well-known conferences.

4.2.1.1 *ProCAncer-I Opening Event – 1st Dissemination Event*

Due to the pandemic and the lack of physically organised relative international conferences, the first Opening Event, that was supposed to take place on month 15 (December 2020), aiming to inform key stakeholders and potential project users, in order to generate early interest took place during the ECR2022 in July in Vienna physical meeting with a Special Session on 15/7.

The session had the title "Building bridges. From radiomics /AI research to clinical practice: The ProCAncer – I vision". The session was an opportunity for the researchers to discuss with different stakeholders as well as the general public since the attendees of the ECR came from all areas of the radiology arena: radiology professionals, radiographers, physicists, medical imaging in general and industry representatives.

At the presentation and discussion panel participated members both of the ProCAncer -I project and the FUTURE – AI initiative: Manolis Tsiknakis, Nickolas Papanikolaou, Daniele Regge, Luis Marti-Bonmati, Hariet C. Thoeny, Mustafa Nasuh Özmen, Emanuele Neri, Kostas Marias and Ioannis Seimenis.

Figure 17 - Photos from the 1st dissemination event

4.2.1.2   2nd ProCAncer-I Dissemination Event

The second ProCAncer-I Dissemination event, aiming at disseminating and increasing visibility of project midterm achievements, presenting the first version of the deep learning master model took place in Lisbon on June 30, 2023 with a Special Session during the "**AI and Machine Learning in Cancer Imaging 3.0 – Enhancing Healthcare through AI"** Workshop that took place on 30/6-1/7/2023 at the Champalimaud Foundation, organized together with the International Cancer Imaging Society (ICIS).

The Workshop (online and live) was attended by **120-150 people** from different fields, ie Radiologists, technicians/ radiographers, scientists, industrial partners and all who were interested in the growth and development of AI and machine learning in cancer imaging.

During the Special Session "The ProCAncer-I Session: Ai Research at scale" the ProCAncer-I project was presented as well as results and models developed up to that time. During the Session the EuCanImage project, another European funded project under the AI Health imaging Call, was also shortly presented and a discussion followed about the different approaches on data

collection and curation, and deep learning models based on these data, as well as the perspectives and vision for applying models in clinical practice.

At the presentation and discussion panel participated members of the ProCAncer -I project: Kostas Marias, Henkjan Huisman, Daniele Regge, and on the part of EuCanImage project: Karim Lekadir and Maciej Bobowicz.

Figure 18 - Photos from the 2nd dissemination event

4.2.1.3 *3rd ProCAncer-I Dissemination Event*

The 3rd Dissemination Event aiming to disseminate and increase visibility of project midterm achievements is scheduled to take place in Spring 2024.

4.2.2 AI Competition Events (AI Hackathon)

It has been decided by the Consortium that the AI Competition Events (referred to as AI Hackathons in the DoA) will not be organised in parallel with other events or Conferences, as the online AI competition have become more popular in the last years, due to the pandemic and the new technology that facilitates it. This way there are no travel requirements, and each competition can take place in parallel with other obligations of the groups, who can also communicate easier online.

So, the 1st AI competition is scheduled for Jan 2024 to take place, and the results will be presented at the ECR2024 in March.

The theme for the AI Competition will be "Robustness and reproducibility of AI based models for the prediction of risk of local disease recurrence following radical prostatectomy (UC5)".

The Committee responsible for the preparation of the Competition has already been established and the required activities are ongoing (e.g. definition of data set, etc). The infrastructure, expertise and support will be mainly provided by Radboud partner as they already have a lot of experience in the execution of online AI competitions through their Grand Challenge platform[1].

---

[1] https://grand-challenge.org/

4.2.3 Events and Presentations

Apart from the special ProCAncer-I events, all partners have been continuously seeking to identify opportunities to present the project's vison and the project results to the research and clinical communities, as well as patients by i) participating in international events, and ii) by organizing special workshops as dissemination events that coincide (co-located) with international events (possibly within the context of the workshops to be organized), seeking to increase the visibility and exposure for the project.

The main events that have been organised and partners have participated during the reporting period are:

➢ IDIBGI team presented the ProCAncer-I project at the Fira CienciaEnEquip event in Girona, 15.04.2022, where it was explained how the project is expected to improve the diagnosis and treatment of prostate cancer with innovative Medical Imaging techniques.

Figure 19 - Photo from the event meeting in Girona

➢ A Webinar entitled "Trustworthy AI in medical imaging", was organised by Eusomii (European Society of Medical Imaging Informatics) on the 30th May 2022. Prof. Kostas Marias (FORTH) gave an invited talk on the issue, building on the relevant work of the project regarding Trustworthy AI. The Webinar was attended by a significant number (>85) individuals – mostly active in the medical imaging and AI domains.

Figure 20 - Screenshot from the webinar

➢ RMH participated with "*Curating large datasets for AI tool development: our experience in participating in the ProCAncer-I project*" at the UK Imaging and Oncology Congress (UKIO),07/05/2022. The event was attended by several hundred (>400) individuals – both with a clinical background but also technical and data science related background.

➢ ProCAncer-I in the IEEE-MeMeA Conference in Taormina, 22-24.06.2022. Dr. Valentina Giannini (FPO) and Dr. João Santinha (FCHAMP) chaired a special session entitled "AI-Powered Medical Image Analysis: Radiomics for personalized patients' management". Dr. Giovanni Maimone (FPO) presented a study entitled "*Comparison of Machine and Deep Learning models for automatic segmentation of prostate cancers on multiparametric MR*". The Conference attracted more than 300 individuals – mostly researchers in the AI and radiomics domains.

Figure 21 - the IEEE-MeMeA conference

➢ Leonor Cerda-Alberich (HULAFE) participated at the Organization of European Cancer Institutes (OECI) conference in Valencia, on 15-17/6/2022 and presented a topic with the title "Deep Learning NMR and outcomes prediction" on 15.06.2022, also making

reference to methods and results in ProCAncer-I. The Conference attracted more than 250 participants – with a mixed background, including clinicians, technical and AI experts.

Figure 22 - Screenshot from the poster

➢ NCI gave a lecture about Department activities including ProCAncer-I project in Diagnostic and interventional radiology department, in Chisinau, Moldova, 20-23.06.2022.

➢ Presentation of ProCAncer-I platform at the European Congress of Radiology at B3D's booth in Vienna, 13-17.07.2022. The booth was visited by several thousands of conference participants, who were informed on ProCAncer-I and received project dissemination material (flyer).

Figure 23 – ECR2023 – B3D Booth

➢ Prof Mu Koh (RMH) and Dr Nickolas Papanikolaou (FCHAMP) organised a Workshop with the title: "*Practice-oriented Cancer Imaging AI technology applications for clinical use*" at the 1st Annual Teaching course at the International Cancer Imaging Society Meeting in Boston, 14.09.2023. The course was attended by a significant number of individuals (>40) of a mixed background.
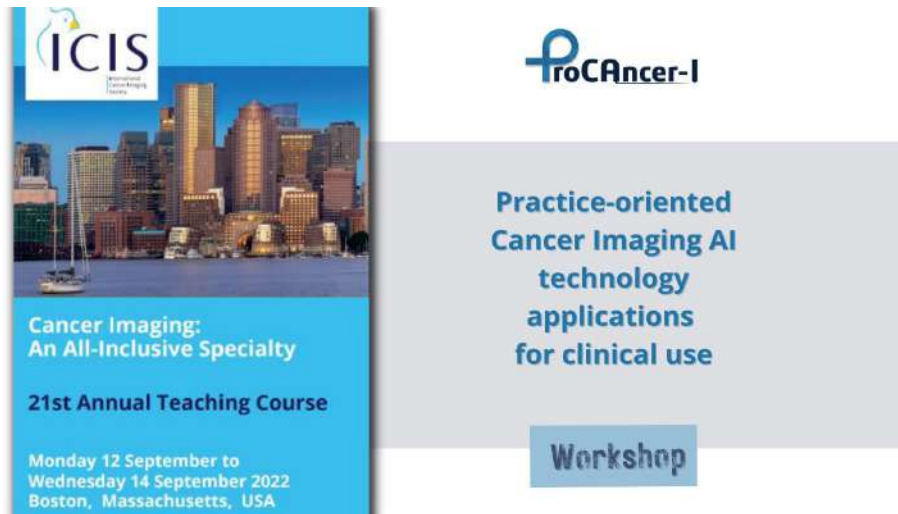
Figure 24 - the workshop announcement

➢ Giacomo Aringhieri (UNIPI), presented the ProCAncer-I project at the ImagingLab open day, 24.09.2022 in Pisa, to students and interested stakeholders. More than 200 individuals attended the event.

Figure 25 - Screenshot from the presentation

➢ ProCAncer-I was presented at the European Researchers' Night in Turin. 01.10.2022. The FPO team promoted the project and explained the aim and vision of the project to the general public. Several hundreds of individuals – most lay persons and patients – visited the project's booth.

Figure 26 - Photo from the event in Turin

> Partner ADVANTIS organised a workshop with the title "Re-discovering prostate MRI processing" within the 28th Annual Meeting of the European Society of Urogenital Radiology (ESUR), in Athens on 13-16 October 2022

The fully-booked workshop (~100 individuals) '*Re-discover prostate MRI processing*' included an introductory lecture and then a hands-on workshop followed. Through the introductory prostate MRI lecture, the participants had the chance to enhance their skill set in order to face questions and pitfalls related to prostate cancer diagnosis and monitoring. Through the hands-on workshop, they learnt how to interpret and report a multiparametric prostate MRI exam in a time-efficient and accurate manner.

Figure 27 - Photo from the event in Athens

➢ Partner HACETTEPE participated at the 43rd Turkish National Radiology Congress (TURKRAD 2022) in Antalya (02-06/11/2022). Prof. Deniz Akata presented ProCAncer – I and the results of the HACETTEPE team within the project during her talk

Figure 28 - Photo from the event in Antalya

➢ Haridimos Kondylakis (FORTH) participated at the EuCanImage webinar, 17.11.2022. Among the issues discussed was the data anonymization and curation process across clinical centers as encountered within the ProCAncer-I project.

Figure 29 - Screenshot from the webinar

➢ The ProCAncer-I project participated at the Clinical and Translational Oncology Conference 2022, 17-20.11.2022 in Heraklion. The ProCAncer-I team participated at the session «Digital Transformation in Healthcare», coordinated by K. Marias, N. Tavernarakis and D. Mavroudis, with Prof Fotiadis (FORTH) who talked about the technological transformation of Health in 2022, and Prof. Tsiknakis (FORTH) who delivered a speech concerning the "Regulatory approval of artificial intelligence models for clinical use: current challenges and opportunities". More than 200 conference attendees were present – mostly clinical professionals but also experts in AI related aspects and clinical imaging experts.

Figure 30 - Screenshot from the conference in Heraklion

➢ Prof Emanuele Neri (UNIPI) participated at the AIRMM/ISMRM ITALIAN CHAPTER Congress in Pisa 23-25.11.2022. Prof. Neri gave a talk entitled "*MRI in biobanks*" during the "MR in oncology" session, where he discussed some issued that are being tackled by the ProCAncer-I project.

Figure 31 - Photo from the congress in Pisa

- ➢ Prof. Kostas Marias (FORTH), as the Technical Coordinator of ProCAncer-I, delivered a speech on "*Artificial Intelligence in Oncology Imaging: Where Are We?*" at the «Current Developments in Radiology» conference, 09-11.11. 2022 in Athens. where, among other issues, he presented the AI for Health imaging (AI4HI) initiative and discussed the FUTURE-AI guiding principles for trustworthy AI. Also, Dr. Nickolaos Papanikolaou (FCHAMP), the Scientific Coordinator of the project, in his presentation "*Introduction to Artificial Intelligence in Radiology*" presented the clinical challenges, and the main results to date of the ProCAncer -I project.
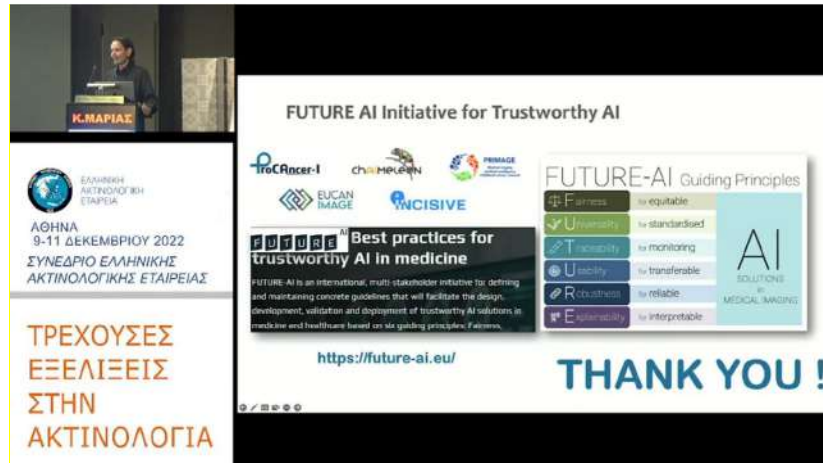
Figure 32 - Screenshot from the conference in Athens

- ➢ HULAFE participated in an online event on 28.03.2023, organised by DatacenterDynamics with the title "*Infrastructures in Health Research projects and the role of medical imaging in oncology*", where the infrastructure requirement in Health Research projects (AI4HI) were explained and the role of medical imaging in oncology discussed. The online event was attended by appr. 30 individuals – from both technical and clinical backgrounds.

Figure 33- Screenshot from the agenda

➢ ProCAncer-I at the RSNA

- The ProCAncer-I Scientific Coordinator, Dr Nickolas Papanikolaou (FCHAMP) participated at the 108th Scientific Assembly and Annual meeting of the Radiological Society of North America (RSNA) that took place on 27 November to 1 December 2022 in Chicago. He was invited to participate at a discussion panel entitled "Radiology AI Innovation: Academics vs Industry" describing how researchers and radiologists can best leverage tech industry partners to accelerate their research, providing real-world examples of how this has taken place internationally. The focus was on how the next generation of imaging AI capabilities will be coming to market, and how the stakeholders will be able to leverage these in the future. The panel discussion included (apart from Dr Papanikolaou) Dr Mona Flores, Global Head of Medical AI at NVIDIA, and Dr Rowland O. Illing, Director, Amazon Web Services, Inc. Several hundred attendees of RSNA – mostly radiologists and AI experts - followed the presentation and discussion.

Figure 34 - Photo from the meeting in Chicago

- Session on RSNA 2022 by Quibim

Mark Wittenberg also presented a session at the RSNA 2022 called "*Advancements in Prostate MRI: Quibim*" in which he presented the research and technological results of Quibim in the context of the ProCAncer-I project.

Figure 35 - QUIBIM at the meeting in Chicago

➢ ProCAncer-I at the ECR2023

-   During the European Congress of Radiology in Vienna on 01-05.03.2023, Dr. Papanikolaou (FCHAMP) presented early results of ProCAncer-I project regarding "*AI modelling strategies with multi-centric data*", during the Special Session of the FUTURE-AI Initiative entitled "*Paving the way for a European infrastructure for AI for health imaging*". The event attended by more than one hundred and fifty persons – mostly clinical professional and specifically radiologists.

Figure 36- Photo from the ECR2023

-   Also, the Hacettepe University Hospital gave 3 presentations concerning the developments on monitoring prostate cancer patients, in which ProCAncer-I experiences and results were also included: «Prediction of clinically significant prostate cancer using machine learning models», «Single-center experience of multiparametric prostate MRI and PI-RADSv2: Exploring the learning curve» and «Long -term follow-up results of multiparametric prostate MRI and prognostic value of PI-RADSv2» by Ö. Önder, Y. Yaraşır, V. Gürler, M. Ayva, M. S. Yazici, B. Akdogan, M. Karçaaltincaba, M. N. Özmen, D. Akata. The congress welcomed 17,262 participants from 122 countries.

Figure 37 - Photo from the ECR2023

-   Finally, Dr Leonor Cerda Alberich (HULAFE) participated at a panel discussion about "Technical Standards and the EU Health Data Space"

Figure 38 - Screenshot from the agenda

➢ Giacomo Aringhieri (UNIPI) participated at the course (RM multiparametrica della prostata) on Multi parametric MRI in prostate Cancer in Pisa on 21/4/23 presenting a talk with the title «Future Perspectives: artificial intelligence and MRI in prostate cancer», reporting on experiences of the ProCAncer-I project

Figure 39 -Photo from the MRI Course

➢ Dr Leonor Cerda Alberich (HULAFE) participated with the talk "*The role of radiomics and radiogenomics in abdominal oncology: Virtual biopsy*" in a conference by Sociedad Española de Radiología Médica SERAM, in Malaga, 25-28.05.2022. The conference attracted more than 300 individuals. The audience was mixed - from both technical and clinical backgrounds.

Figure 40 - Announcement of the conference

➢ ProCAncer-I in collaboration with the other |AI4HI projects organized a special session during the 20th IEEE International Symposium on Biomedical Imaging (ISBI 2023), entitled *"Artificial Intelligence in Cancer Imaging: Results from the AI4HI European Program"*, which was held in Cartagena de Indias, Colombia, April 18-21, 2023. From ProCAncer-I, Dr. Eugenia Mylona and Prof Kostas Marias (FORTH) as well as Sara Colantonio (CNR) participated in the Special Session presenting project results in the domain of AI-enabled prostate cancer diagnosis. Specifically, the ProCAncer-I researchers presented and discussed project results regarding *"**Explainability methods for AI in medicine**"*, and *"**Exemplar use case: Prostate cancer diagnosis pipeline**"*, drawing on the work and results achieved in the ProCAncer-I project. The Special Session was attended by appr. 45 individuals – mostly researchers and AI experts.

Figure 41 - The banner of the symposium

➢ Dr Leonor Cerda Alberich (HULAFE) participated in a round table with the title *"Technical Standards and the EU Health Data Space"*, and gave a talk on "Building an imaging repository for clinical research: challenges and opportunities" on 10/5/2023 in Valencia during the SIOP Europe Networking Event in the 4th edition of the European Society for Paediatric Oncology (SIOP) Europe Annual Meeting. The event was attended by several hundred individuals – mostly clinical professionals active in pediatric cancer research and management.

Figure 42 - Screenshot from the agenda

➢ The Department of Diagnostic and Interventional Radiology of NCI organized an International scientific practical conference on "*Local prostate cancer diagnosis*", 15-16.05.2023 in Lithuania, with guest lecturer Prof. Kai Vilanova (IDIBGI).

An interview with Prof. Kai Vilanova was also published on the organisation's site commenting on the ProCAncer-I project and the conference.

Figure 43 - photo from the practical conference

➢ Prof Kai Vilanova (IDIBGI) spoke about the ProCAncer-I project, in the "Pint of Science" event in Girona, on 22.05.2023 at an open audience event. Several hundred individuals were registered to follow the speech.

Figure 44 - Photo from the pint of Science

- The Center for Biomedical Informatics and Information Technology of the National Cancer Institute (NCI) organized a virtual Medical Imaging De-Identification (MIDI) workshop on 22-23/5/2023 focused on public sharing of imaging data. Dr Haridimos Kondylakis (FORTH) participated in the Workshop, discussing the experiences and approaches of the ProCAncer-I project but also the experiences of the other AI4HI projects on the topic. The audience was mixed - from both technical and clinical backgrounds.

Figure 45 - The announcement of the workshop

- Clara Saillant and Theresa Henne (UNIVIE) organized a moot court on the topic "*The Value of Health Data*" during the Computer, Privacy and Data Protection Conference (CPDP) that took place from 24th-26th of May in Brussels. The fictional court case was inspired by discussions taking place in the ProCAncer-I project. Prof. Daniele Regge (FPO) Clinical Coordinator of the project, María José Alarte Aceñero (QUIBIM), as well as *Aline Blankertz* from Wikimedia Germany and *Lorraine Maisnier-Boché* from McDermott Will & Emery were part of the court actors. The more than one hundred audience consisted mainly of experts in legal and ethical aspects.

Figure 46- Photo from the team participating at the moot court

- ➤ ProCAncer-I Project: Artificial Intelligence Integrating Clinic and MRI in Prostate Cancer».
  Prof Kai Vilanova gave a lecture on the Platform for continuous training in image-based
  diagnosis and treatment for clinicians on 30.05.2023

Figure 47- the announcement of the lecture

- ➤ ADVANTIS hosted a webinar with Prof. Kai Vilanova as a speaker on "*How to effectively read and report a prostate MRI*" on 30.05.2023. Re-imagining multi-parametric prostate MRI' is the new webinar series by Advantis Medical Imaging. This first webinar provided a review of how to perform an optimal work-up through the Prostate MRI examination. It described the criteria for a quality acquisition (PI-QUAL), the methodological optimal reading in the workstation (PI-RADS), and how to perform effective reporting. It also explored and demonstrated tips and tricks to achieve an accurate outcome of a prostate MRI examination for better management of prostate cancer. The online event was attended by an audience exceeding one hundred individuals.
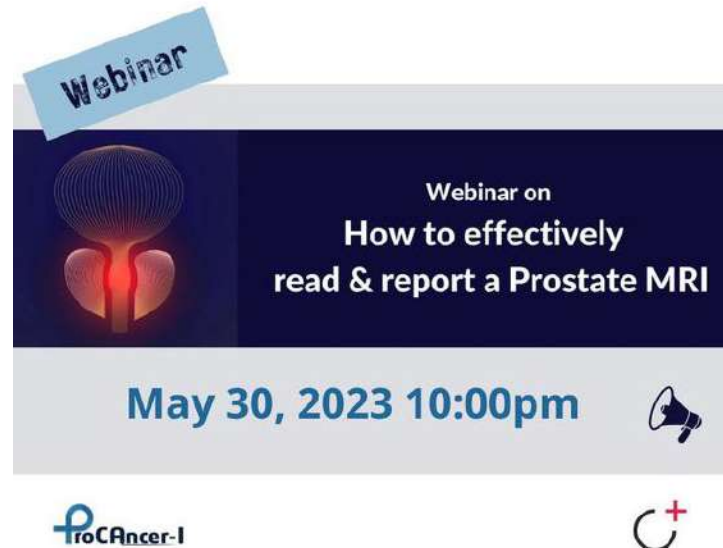
Figure 48- the announcement of the webinar

➢ During the Champalimaud Research Retreat 2023 that took place from 29/5-1/6/23 at Serra do Buçaco, where the diverse Champalimaud Research community gathers once a year to share their work and to connect with their peers in a casual environment, the Computational Clinical Imaging Group, headed by Dr Nikolaos Papanikolaou, presented two posters and one pitch concerning their latest ProCAncer-I developments.

Figure 49 - Photos from the retreat

➢ Presentation and discussion on "AI applications in oncology. Opportunity and also challenges", in Girona by Prof Kai Vilanova (IDIBGI), on 02.06.2023, Closing Day of the Medical Sciences and Health Group of Girona (ACMSG). At the event ACMSG associates and healthcare professionals participated.

Figure 50 - the program from the presentation

➤ Dr. Papanikolaou presented the project at the Marco Polo Meeting, in Valencia on 16.06.2023

Figure 51- Screenshot from the agenda from the Marco Polo summit

➤ MR Prostate Masterclass lecture by Prof. Kai Vilanova (IDIBGI) within the General Electric Academy in Bucharest on 08.06.2023. The masterclass was a private event, attended by specialized audience.

Figure 52- Screenshot from the poster in Rotterdam

➤ HULAFE participated with two lecturers at the "**AI and Machine Learning in Cancer Imaging 3.0 – Enhancing Healthcare through AI**" Workshop that took place on 30/6-1/7/2023 at the Champalimaud Foundation, organized together with the International Cancer Imaging Society (ICIS). The vent was attended by more than two hundred individuals – mostly experts in AI and medical imaging.

- During Session 1: Updates in AI and ML Techniques for Cancer Imaging, Dr Leonor Cerda Alberich gave a talk on "*What's new in disease segmentation?",* explaining the

latest methodologies in data annotation, including strategies established by the AI4HI community.

- During Session 2: Unmet Needs for AI Development and Deployment in Cancer Imaging, Prof. Luis Marti-Bonmati gave a lecture on "*Embracing data diversity*", explaining Unmet Needs for AI Development and Deployment in Cancer Imaging

Figure 53– The poster in Lisbon

➢ Dr Valia Kalokyri (FORTH) attended the Observational Health Data Sciences and Informatics (OHDS) European Symposium, in Rotterdam on 1-3.07.2023 and presented the abstract "RT-CDM: Extending OMOP-CDM for tomography imaging data»".
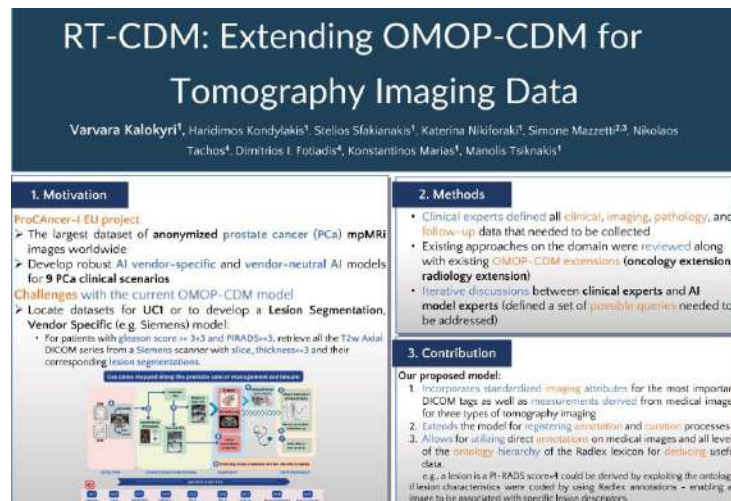
Figure 54 - Screenshot from the poster in Rotterdam

➢ NCI did a project presentation in a local meeting for clinicians and scientists in Vilnius entitled "*ProCAncer-I: An AI Platform integrating imaging data and models, supporting precision care through prostate cancer's continuum*" on 01.09.2023

➢ Dr. Valia Kalokyri(FORTH) presented at the OHDSI Greek National Node (OHDSI-GR) virtual meeting on 05.09.23 about "E*xtending OMOP-CDM for enhanced imaging data integration and AI-driven cohort discovery*", building on the experiences accumulated in using and extending the OMOP CDM for the ProCAncer-I data collection process. Approximately sixty individuals attended the Webinar – mostly active in using the OMOP-CDM for real-world clinical data harmonization and management.
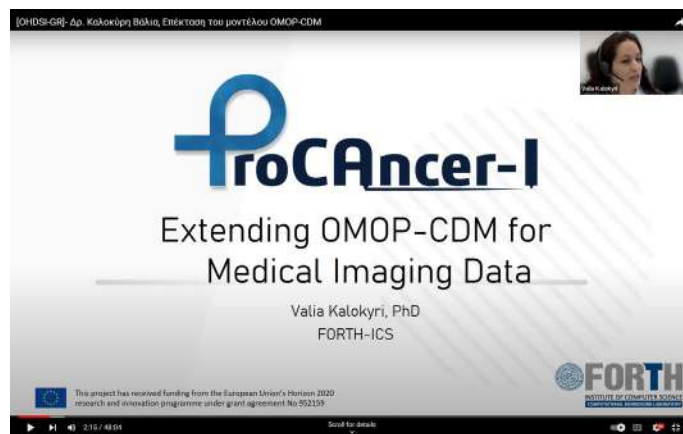
Figure 55- Screenshot from the presentation

➢ The Spanish Association Against Cancer in Girona together with IDIGBI organized in Gerona an event on 21.09.2023 for the World Cancer Research Day. The title of the event was "More research, more life", where Dr. Brunet has presented three European projects focused on improving the diagnosis and treatment of different types of cancer, including ProCAncer-I.

Figure 56– Photos from the presentation

> ➢ The UNIVIE team traveled to the Masaryk University in the Czech Republic on 12/9/2023 to meet with the team of the Department of Technology & Law and discuss current matters in data protection, AI development and health research. Clara Saillant and Theresa Henne presented the diverging visions of the data value chain within the ProCAncer-I project and the EHDS at this occasion. This presentation was followed by a fruitful discussion with all colleagues, touching upon the issue that it is currently unclear when the EHDS will be enforced and at what point the envisioned mechanisms of the EHDS building on national authorities will be operable.
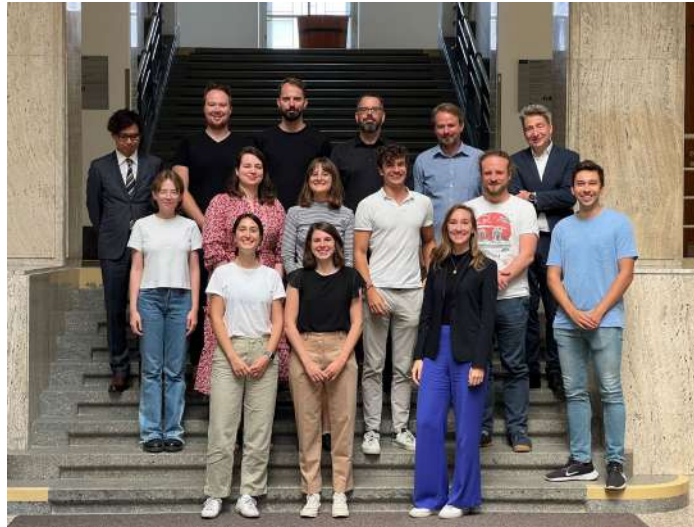
Figure 57- Photo from the Czech Republic

> ➢ Prof. Manolis Tsiknakis (FORTH), Coordinator of the ProCAncer-I, participated at the "European Cancer Research Infrastructures for UNCAN.eu" workshop, in Brussels, 13.09.2023, where he presented the experiences and technological solutions from ProCAncer-I project. The audience included numerous – mostly technical experts – from numerous EU funded initiatives.

Figure 58- Announcement of the workshop in Brussels

> ➢ Dr Nickolaos Papanikolaou (FCHAMP) gave the presentation *"AI/Radiomics 2.0: How to increase translation to the clinical environment?"* at the International Cancer Imaging Society annual meeting, held in the British Museum in London on 26-27.09.2023. The main message from Dr Papanikolaou's talk was that ProCAncer-I project results facilitate better understanding of radiomics related challenges". At the same event a scientific presentation by Dr Ana Castro Verde (FCHAMP) was accepted for the rad-path registration intermediate challenge; the abstract is based on the data from the ProCAncer-I UC4. The event was attended by more than 150 individuals, with a mixed origin, including both clinical experts and experts in data science and AI model development and validation.

Figure 59- Photo from the British Museum

> ➢ FPO ProCAncer-I team at the European Researchers' Night in Turin on 01.10.2023. The researchers promoted the project and explained it to all interested people (>350 attended).

Figure 60- Photo from the team in Turin

> ➢ Dr. Kai Vilanova (IDIBGI) gave a talk under the framework of the European Researcher's Night about ProCAncer-I. The title of his talk was "*Artificial intelligence in the diagnosis of prostate cancer*" and the event was: "Research on stage". 29.09.2023 in Girona. The event was attended by more than 60 individuals, mostly students, and citizens.

Figure 61 - Screenshot from the poster

4.2.4 Planned future events

The project has already planned a number of D&C activities for the immediate and forseable future. These include:

> ➢ Prof. Manolis Tsiknakis (FORTH) as Coordinator of the ProCAncer-I project and also a member of the EUCAIM project will be present at the HealthIT Conference themed "*Digital Transformation in the era of EHDS*" in Athens on 17-18.10.2023, and will be presenting the EUCAIM project as a means of building upon the results and implementation of the ProCancer-I project. The Conference is focused on issues for the digital strategy on Health in Greece.

Figure 62-Screenshot of the conference website

➢ A Special Issue for the Journal "Cancer Imaging" is being prepared tentatively entitled "*Data curation and annotation in cancer imaging*". All 4 projects consisting the AI4HI and EUCAIM will be contributing with papers, presenting and discussing their approaches and findings regarding data curation and management.

➢ The INCISIVE project is organizing an open hybrid clustering event, where the FUTURE-AI Initiative will be taking part, and of course the ProCAncer-I project which will be represented by Prof. Kostas Marias, the technical Manager of the project. The focus of the event will be "*AI and Cancer: Unleashing opportunities, Overcoming Challenges*", and will take place on 7/11/2023 in Madrid.
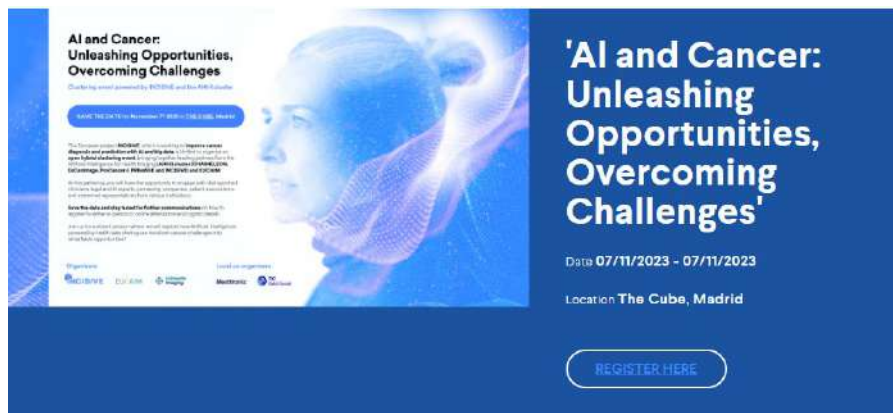
Figure 63-Screenshot of the conference website

➢ During the ECR 2024, that is organized in Vienna on 28/2-3/03/2024, a Special Session is being organized by the FUTURE -AI Initiative with the title Artificial intelligence (AI) for health imaging: pioneering cancer image repositories for diagnosis and analysis" and Dr. Nickolas Papanikolaou (FCHAMP) as Scientific Coordinator will give a talk on "*AI models of prostate cancer diagnosis*".

During the ECR 2024, Dr Giacomo Aringhieri (UNIPI) will also present a poster.

Figure 64-Screenshot of the conference logo

➢ FPO and UNIPI will attend the EUSOMII 2023 that takes place in Pisa on 13-14/10/2023. FPO will present a poster at the poster session, with the complete project name: "ProCAncer-I - An AI Platform integrating imaging data and models, supporting precision care through prostate cancer's continuum"
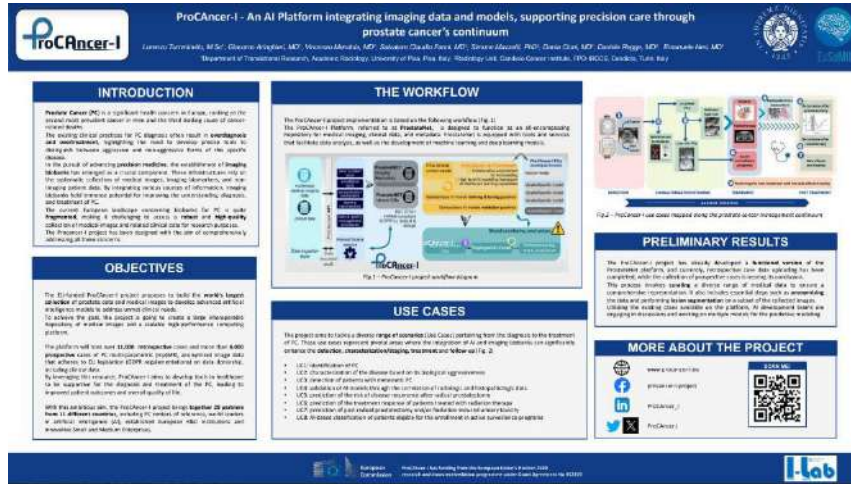
Figure 65 -Screenshot of the poster

➢ Prof Dimitrios Fotiadis (FORTH) is organizing a Special Session with ProCAncer-I and the EUCAIM projects at the IEEE EMBS International Conference on Data Science and Engineering in Healthcare, Medicine & Biology, taking place in Malta on 7-9/12/2023.

Figure 66 -Screenshot of the conference logo

➢ Partners ADVANTIS and QUIBIM will participate at the RSNA 2023, taking place in Chicago on 26-30/11/23, disseminating ProCAncer-I technologies and experiences.

4.3 Papers published at peer reviewed Journals and Scientific Conferences

All partners are seeking to actively present scientific and clinical project results in international and peer-reviewed journals, according to the nature of the partners. Below are the papers that have been accepted and published:

- Elena Bertelli, Laura Mercatelli, Chiara Marzi, Eva Pachetti , Michela Baccini, Andrea Barucci, Sara Colantonio, Luca Gherardini, Lorenzo Lattavo, Maria Antonietta Pascali, , Simone Agostini, and Vittorio Miele (2022), "**Machine and Deep Learning Prediction Of Prostate Cancer Aggressiveness Using Multiparametric MRI**" – frontiersin https://doi.org/10.3389/fonc.2021.802964. Online 17/01/2022

- Zaridis Dimitris; Mylona Eugenia; Tachos Nikolaos; Marias Kostas; Tsiknakis Manolis; Fotiadis Dimitrios (2022), "**A smart cropping pipeline to improve prostate's peripheral zone segmentation on MRI using Deep Learning**" – EAI Endorsed Transactions on Bioengineering and Bioinformatics, https://eudl.eu/doi/10.4108/eai.24-2-2022.173546. Online 22/02/2022

- Saha, Anindo; Twilt, Jasper Jonathan; Bosma, Joeran Sander; van Ginneken, Bram; Yakar, Derya; Elschot, Mattijs; Veltman, Jeroen; Fütterer, Jurgen; de Rooij, Maarten; Huisman, Henkjan (2022) "**Artificial Intelligence and Radiologists at Prostate Cancer Detection in MRI: The PI-CAI Challenge (Study Protocol)**", doi: 10.5281/zenodo.6522364 , On line 05/05/2022

- Haridimos Kondylakis, Stelios Sfakianakis, Varvara Kalokyri, Alexandros Kanterakis, Lefteris Koumakis, Eugenia Mylona, Nikolaos Tachos, Dimitrios Fotiadis, Kostas Marias, Manolis Tsiknakis (2022), "**AI Passport – Traceability for Trustworthy AI** " EMBC 2022 11 – 15/7/22, Glasgow.

- Haridimos Kondylakis, Stelios Sfakianakis, Varvara Kalokyri, Nikolaos Tachos, Dimitrios Fotiadis, Kostas Marias, Manolis Tsiknakis (2022), "**Data Ingestion for AI in Prostate Cancer**", **MIE2022, 27-30/5/22**, Nice, doi: 10.3233/SHTI220446, ON LINE: 25/05/2022

- Giovanni Maimone, Giulia Nicoletti, Simone Mazzetti, Daniele Regge, Valentina Giannini (2022), "**Comparison of Machine and Deep Learning models for automatic segmentation of prostate cancers on multiparametric MRI**", IEEE–MeMea 2022, 22-24/06/22, Taormina, **doi:** 10.1109/MeMeA54994.2022.9856530

- João Santinha, Linda Bianchini, Mário Figueiredo, Celso Matos, Alessandro Lascialfari, Nikolaos Papanikolaou, Marta Cremonesi, Barbara A. Jereczek-Fossa, Francesca Botta and Daniela Origgi (2022), "**Discrimination of Tumor Texture Based on MRI Radiomic Features: Is There a Volume Threshold? A Phantom Study**", https://doi.org/10.3390/app12115465, on line 27/05/2022 by MDPI in Applied Sciences

- Eva Pachetti, Sara Colantonio and Maria Antonietta Pascali (2022), "**On the Effectiveness of 3D Vision Transformers for the Prediction of Prostate Cancer Aggressiveness**", MEDTX – International Conference on Image Analysis and Processing ICIAP21 23-26/05/2022. doi: https://doi.org/10.1007/978-3-031-13324-4_27

- Avtantil Dimitriadis, Eleftherios Trivizakis, Nikolaos Papanikolaou, Manolis Tsiknakis & Kostas Marias (2022), "**Enhancing cancer differentiation with synthetic MRI**

examinations via generative models: a systematic review", Insights into Imaging 13(188), doi:10.1186/s13244-022-01315-3

- E. Mylona, D. Zaridis, N. Tachos, K. Marias, M. Tsiknakis and D. I. Fotiadis, "**PROper-Net: A Deep-Learning Approach for Prostate's Peripheral Zone Segmentation based on MR imaging**," 2022 IEEE 21st Mediterranean Electrotechnical Conference (MELECON), Palermo, Italy, 2022, pp. 1124-1128, doi: 10.1109/MELECON53508.2022.9843082.

- D. Zaridis, E. Mylona, N. Tachos, K. Marias, M. Tsiknakis and D. I. Fotiadis, "**Fine-tuned feature selection to improve prostate segmentation via a fully connected meta-learner architecture**" 2022 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI), Ioannina, Greece, 2022, pp. 01-04, doi: 10.1109/BHI56158.2022.9926929.

- Rodrigues, Nuno M., Sara Silva, Leonardo Vanneschi, and Nickolas Papanikolaou. 2023. "**A Comparative Study of Automated Deep Learning Segmentation Models for Prostate MRI**" Cancers 15, no. 5: 1467. https://doi.org/10.3390/cancers15051467

- Arianna Defeudis, Jovana Panic, Giulia Nicoletti, Simone Mazzetti, Valentina Giannini and Daniele Regge, 2023. "**Virtual biopsy in abdominal pathology: where do we stand?**" BJR, Volume 4, Issue 1. https://doi.org/10.1259/bjro.20220055

- Ana Rodrigues, Nuno Rodrigues, João Santinha, Maria V. Lisitskaya, Aycan Uysal, Celso Matos, Inês Domingues & Nickolas Papanikolaou,2023."**Value of handcrafted and deep radiomic features towards training robust machine learning classifiers for prediction of prostate cancer disease aggressiveness**". Sci Rep 13, 6206 (2023). https://doi.org/10.1038/s41598-023-33339-0

- Fanni Salvatore C., Febi Maria, Colligiani Leonardo, Volpi Federica, Ambrosini Ilaria, Tumminello Lorenzo, Aghakhanyan Gayane, Aringhieri Giacomo, Cioni Dania, Neri Emanuele, 2023."**A first look into radiomics application in testicular imaging: A systematic review**". Front. Radiol., 17 April 2023. https://doi.org/10.1038/s41598-023-33339-0

- Dimitrios I. Zaridis, Eugenia Mylona, Nikolaos Tachos, Vasileios C. Pezoulas, Grigorios Grigoriadis, Nikos Tsiknakis, Kostas Marias, Manolis Tsiknakis & Dimitrios I. Fotiadis, 2023. "**Region-adaptive magnetic resonance image enhancement for improving CNN-based segmentation of the prostate and prostatic zones**". Scientific Reports 13 (1), 714 (2023), https://doi.org/10.1038/s41598-023-27671-8

- Aikaterini Dovrou, Katerina Nikiforaki, Dimitris Zaridis, Georgios C. Manikis, Eugenia Mylona, Nikolaos Tachos, Manolis Tsiknakis, Dimitrios I. Fotiadis, Kostas Marias ,2023. "**A segmentation-based method improving the performance of N4 bias field correction on T2weighted MR imaging data of the prostate**". Magnetic Resonance Imaging 101, 1-12 (2023), 10.1016/j.mri.2023.03.012

- Pachetti, E.; Colantonio, S. "**3D-Vision-Transformer Stacking Ensemble for Assessing Prostate Cancer Aggressiveness from T2w Images**". Bioengineering 2023, 10, 1015. https://doi.org/10.3390/bioengineering10091015

- Andrea Berti, Rossana Buongiorno, Gianluca Carloni, Claudia Caudai, Giulio Del Corso, Danila Germanese, Eva Pachetti, Maria Antonietta Pascali and Sara Colantonio. **Exploring**

the potentials and challenges of Artificial Intelligence in supporting clinical diagnostics and remote assistance for the health and well-being of individuals. ITAL-IA 2023 - Italian Conference of the CINI Lab on AI, 29-31.05. 2023

- Joeran S. Bosma , Anindo Saha, Matin Hosseinzadeh, Ivan Slootweg, Maarten de Rooij, Henkjan Huisman, **"Semisupervised Learning with Report-guided Pseudo Labels for Deep Learning–based Prostate Cancer Detection Using Biparametric MRI"**, Radiology: Artificial IntelligenceVol. 5, No. 5 https://doi.org/10.1148/ryai.230031

- Ioanna Chouvarda, Sara Colantonio, Ana S. C. Verde, Ana Jimenez-Pastor, Leonor Cerdá-Alberich, Yannick Metz, Lithin Zacharias, Shereen Nabhani-Gebara, Maciej Bobowicz, Gianna Tsakou, Karim Lekadir, Manolis Tsiknakis, Luis Martí-Bonmati, Nikolaos Papanikolaou. **Technical and Clinical Perspectives on AI Validation in Cancer Imaging: Mind the Gap!,** paper accepted at JMIR Cancer

- Dimitrios Zaridis, Eugenia Mylona, Nikolaos Tachos, Charalampos Kalantzopoulos, Kostas Marias, Manolis Tsiknakis, Dimitrios Koutsouris, George Matsopoulos, and Dimitrios Fotiadis, **Transi-Net: An Explainable Deep Learning Model Ensemble For Prostate's Transition Zone Segmentation,** paper accepted at IEEE BIBM 2023, 5-8/12/23, Istanbul

4.4   Interviews and Articles

All project partners are making every effort and are using a variety of means to promote and to communicate the objectives of the project and, thus, increase its impact. They are seeking for opportunities to publish articles and give interviews in local/national Mass Media. They are trying to promote the scientific, clinical and technological knowledge and methodologies to reach all interested audiences, general and scientific. To this end, scientific and simplified articles will be prepared that will achieve wider acceptance and understanding of the project's goals.

Some of the articles and interviews that have already taken place are following:

➢ "Data sharing for a good cause – How the Data Governance Act (DGA) will help ProCAncer-I ", Professor Tsiknakis took part in a feature in the EU Council site on how the EU protects users online. 28.05.2022, published on **https://www.consilium.europa.eu/**

Figure 67 - Screenshot from the consilium.europa.eu

- Prof Kai Vilanova (IDIBGI) gave an interview "Girona participa en un projecte d'intelligència artificial per millorar el tractament del càncer de pròstata"article", at the Agència Catalana de Notícies, regarding prostate cancer and the research initiatives through ProCAncer-I project. Published on 15.10.2022, in www.acn.cat and circulated in various news sites

Figure 68 - Screenshot from the article

- Gloria Ribas (HULAFE) prepared an article on "El poder de las Bases de Datos y su aplicacion en la Medicina de Precision", published 25.02.2023 in the special Medical Edition of the El País newspaper.
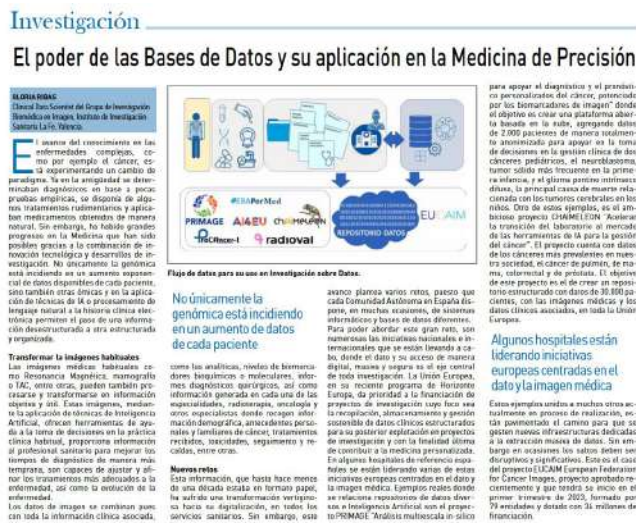
Figure 69 - Screenshot from the newspaper

➢ As a result of the Special Session "Paving the way for a European infrastructure for AI for health imaging" during the ECR2023, the article "AI in health imaging computational power isn't everything" was prepared and published on 29.06.2023, at https://healthcare-in-europe.com/.
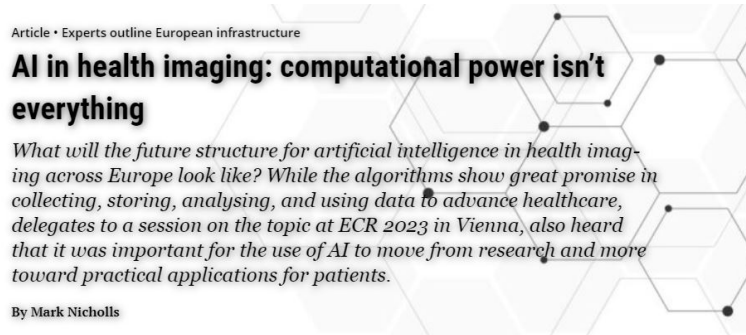
Figure 70 - Screenshot from the article

➢ An interview with Dr Papanikolaou (FCHAMP) on 21.06.2023 was published in the fchampalimaud.org site. In the specific interview, Dr. Papanikolaou described the unmet clinical needs of today and the expected contributions form ProCAncer-I in addressing these needs.
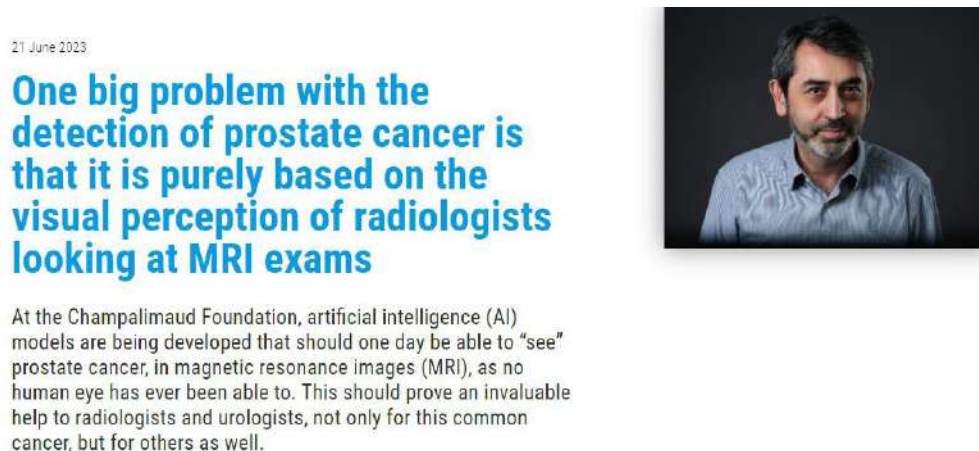
Figure 71 - Photo from the article in fchampalimaud.org

4.5 Book Edition – Collaboration with Springer

As a result of the organization of the miniSymposium on "Trustworthy AI in cancer research" within the 44th International Engineering in Medicine and Biology Conference in Glasgow (see Section 4.6) by the FUTURE-AI Initiative, Springer Editions proposed to the AI4HI network of projects to write a book on the symposium's theme "Trustworthy AI in cancer research". Main editors will be Prof. Ioanna Chouvarda (INCISIVE), Dr. Sara Colantonio (ProCAncer-I) and Dr. Gianna Tsakou (INCISIVE), but all project partners, as well as team members will contribute. The book is expected to be submitted for editing by September 2024.

4.6 Interactions with Patient Organisations

During this second phase of the project, the partners started to have initial discussions with patient organizations, in order to have the opportunity to show to patients, care givers and their advocates the vision of the ProCAncer-I and of all the relevant emerging technologies, mainly in the AI and health datasets fields, that could help them in the near future have more accurate results from examinations acquired, have a more personalized treatment with a better quality of life and even combat and win a cancer disease, with the help and under the surveillance of their clinicians.

To this end Mr. Cosimo Pieri, representative of the Europa Uomo is part of the ProCAncer-I Advisory Committee. With Mr C. Pieri we have scheduled to have a webinar on the first "results of the ProCAncer-I models meeting clinical needs" in Jan/Feb 2024, as part of their annual webinar program for patients, and we are scheduling more common activities.

The Italian Partners UNIPI, FPO and CNR have organized a Workshop with the Italian cancer associations to present the project and find common strategies to promote further the project. All associations were very positive and the discussions are ongoing for future activities.
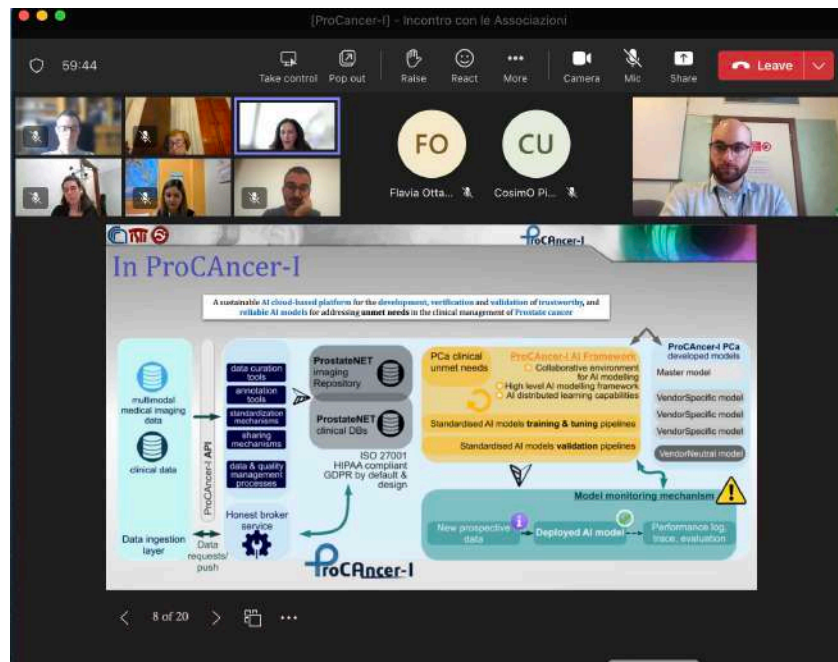
Figure 72 – Screenshot from the virtual Workshop

NCI is also in constant contact with the Lithuanian associations especially for prostate cancer and they are organising activities for November 2024 around the European prostate cancer awareness day.

B3D has also contacted Cancer Patients UK and they are interested in having common activities. There is also the possibility of having a focus group on the results of the platform, since they are experienced in validating technology tools.

All partners have contacted several patient associations and are having discussions on the way to proceed according to the different approach of each association as well as their activities. We are expecting in 2024 to start various collaborations and joint events with patient organisations.

4.7 Interactions and Concertation with other projects and initiatives

4.7.1 Concertation with other projects of the same Call : The FUTURE AI INITIATIVE

ProCAncer-I is actively participating in a concertation activity between the funded projects in the context of the H2020-SC1-FA-DTS-2019-1: AI for Health Imaging call of H2020. The Project Management Board saw from the beginning significant benefits and added value in collaborating with the other three funded projects, i.e. EuCanImage, INCISIVE and CHAIMELEON, as well as the PRIMAGE project funded by H2020-SC1-DTH-07-2018 (although now ended). All five projects share the same vision, principles and challenges in several domains, and especially in Metadata, Annotation, Communication and Dissemination, AI Validation, Data Storage/ Curation/ Management, Clinical, AI Development, Ethical and legal Interoperability. Dedicated Working Groups in these areas have been established, in which ProCAncer-I experts are wholeheartedly participating.

To this end, the FUTURE AI INITIAVE has been formed to start collaborating more intensely and exchange best practices, experiences and knowledge on specific issues to be solved. As a result of this collaboration, a site for the initiative has been set-up at https://future-ai.eu/, and we have some new publications:

- Haridimos Kondylakis, Esther Ciarrocchi, Leonor Cerda-Alberich, Ioanna Chouvarda, Lauren A. Fromont, Jose Manuel Garcia-Aznar, Varvara Kalokyri, Alexandra Kosvyra, Dawn Walker, Guang Yang, Emanuele Neri (2022), "**Position of the AI for Health Imaging (AI4HI) network on metadata models for imaging biobanks**", European Radiology Experimental 2022 Jul 1;6(1):29. doi: 10.1186/s41747-022-00281-1.

- Haridimos Kondylakis, Varvara Kalokyri, Stelios Sfakianakis, Kostas Marias, Manolis Tsiknakis, Ana Jimenez-Pastor, Eduardo Camacho-Ramos, Ignacio Blanquer, J. Damian Segrelles, Sergio López-Huguet, Caroline Barelle, Magdalena Kogut-Czarkowska, Gianna Tsakou, Nikolaos Siopis, Zisis Sakellariou, Paschalis Bizopoulos, Vicky Drossou, Antonios Lalas, Konstantinos Votis, Pedro Mallol, Luis Marti-Bonmati, Leonor Cerdá Alberich, Karine Seymour, Samuel Boucher, Esther Ciarrocchi, Lauren Fromont, Jordi Rambla, Alexander Harms, Andrea Gutierrez, Martijn P. A. Starmans, Fred Prior, Josep Ll. Gelpi & Karim Lekadir ,2023."**Data infrastructures for AI in medical imaging: a report on the experiences of five EU projects**". Eur Radiol Exp 7, 20 (2023), https://doi.org/10.1186/s41747-023-00336-x

- Luis Marti-Bonmati, Dow-Mu Koh, Katrine Riklund, Maciej Bobowicz, Yiannis Roussakis, Joan C. Vilanova, Jurgen J. Fütterer, Jordi Rimola, Pedro Mallol, Gloria Ribas, Ana Miguel, Manolis Tsiknakis, Karim Lekadir and Gianna Tsakou (2022), "**Considerations for artificial intelligence clinical impact in oncologic imaging: an AI4HI position paper**", https://doi.org/10.1186/s13244-022-01220-9, Online 10/05/2022

- Also, the blog on Artificial Intelligence of the European Society of Radiology published two position papers, stemming out form the concerted efforts and related WG of the AI4HI network.
  - In October 2022, the paper on "Metadata Models: The position of the AI for Health Imaging (AI4HI) network" which is accessible at

https://ai.myesr.org/articles/position-of-the-ai-for-health-imaging-ai4hi-network-on-metadata-models-for-imaging-biobanks/
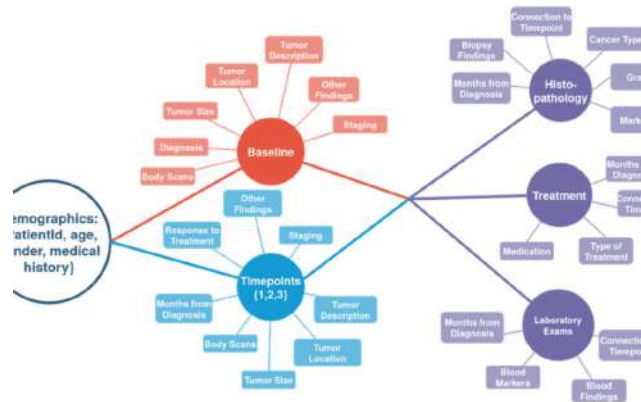
Figure 73 - Screenshot from the blog

- On 30.11.2022 the paper "Considerations for AI clinical impact in oncologic imaging" was published, and is accessible at **https://ai.myesr.org/**

Figure 74 - Screenshot from the blog

The Initiative organized and participated also in Special Session in acknowledged Conferences:
- The FUTURE-AI Initiative organized a miniSymposium on "Trustworthy AI in cancer research" within the 44th International Engineering in Medicine and Biology Conference in Glasgow during 11-15/7/22. The miniSymposium was organized under the session on Biomedical Imaging and Image Processing, with the title: "**Trustworthy AI in Cancer Imaging Research**". The ProCAncer-I project was represented by Haridimos Kondylakis from FORTH.

Figure 75 - Photo from the announcement of the miniSymposium

- The FUTURE-AI Initiative organized a Workshop with the title "**Developing open, standard-based, interoperable Cancer Imaging Repositories in Europe: Issues, Experiences and Challenges**" within the IEEE BHI-BHS (International Conference on Biomedical and Health Informatics and on Wearable and Implantable Body Sensor Network) Conference in Ioannina (Greece) during 27-30/9/22. The ProCAncer-I project was represented by the Coordinator Prof. Manolis Tsiknakis and Haridimos Kondylakis from FORTH.

Figure 76 - Photos from Ioannina

- The FUTURE-AI Initiative jointly with the EUCAIM project organized a miniSymposium on "**The European Cancer Imaging Initiative – Status, Challenges and Opportunities**" within the 45th Annual International Conference of the IEEE Engineering in Medicine and Biology Conference in Sydney during 24-27/7/23. The miniSymposium was organized under the session on Biomedical Imaging and Image Processing, and the ProCAncer-I project was represented by the Coordinator Prof. Manolis Tsiknakis from FORTH.

Figure 77 - Photos from Australia (EMBC 2023)

➢ **EUCAIM project**

As a result of this very promising collaboration one new proposal was submitted and approved for funding, under the Call DIGITAL-2022-CLOUD-AI-02-CANCER-IMAGE for Digital Europe "Federated European infrastructure for cancer images data", as it capitulates on the sustainability vision we have for the projects.

The **European Federation for Cancer Images Introducing (EUCAIM)** (www.cancerimage.eu) envisions to build a pan-European digital federated infrastructure of cancer-related radiological and nuclear medicine images and other related digital information, which will be used to develop Artificial Intelligence (AI) tools for Precision Medicine. Its mission is to facilitate seamless access to de-identified, high-quality real-world data, and to foster collaboration among clinicians, researchers and innovators. To allow this, EUCAIM will provide a comprehensive dashboard for data discovery, federated search, metadata harvesting, annotation and distributed processing, including federated and privacy-preserving learning.

Figure 78 – Screenshot from the EUCAIM website

The EUCAIM project and its potentials was presented at the 6th Consortium Meeting to all partners and all agreed that EUCAIM could evolve in one of the means for sustainability for ProCAncer-I results. Datasets from ProCAncer-I as well as other EU-funded projects intended for additional research will find a sustainable home within EUCAIM's central hub

collections. This integration guarantees not only the accessibility and availability of these datasets but also their long-term sustainability. Significantly, this alleviates the consortium partners from incurring additional costs for maintaining and managing the collections after the end of the ProCAncer-I project.

> **European Commission-initiated European Cancer Imaging Initiative**
> EUropean Federation for CAncer IMages (EUCAIM) is also the cornerstone of the European Commission-initiated European Cancer Imaging Initiative, a flagship of the Europe's Beating Cancer Plan (EBCP). A ground-breaking federated infrastructure deployment project aiming to power up imaging and AI towards precision medicine for Europe's cancer patients and citizens. This important Initiative will work towards creating a **digital infrastructure** linking up resources and databases of cancer imaging data across the EU, while ensuring adherence to high ethics standards, trust, security and protection of personal data. It will also connect EU-level and national initiatives, hospital networks, as well as research repositories with imaging data and other relevant health data.

Figure 79 - Photo from the European Cancer Imaging Initiative

4.8   Links with the Wider Community and other relevant initiatives

4.8.1   The Signal and Image Processing Laboratory (LTSI), INSERM, University of Rennes

Recently, Prof. Oscar ACOSTA TAMAYO, from the Signal and Image Processing Laboratory (LTSI), an INSERM Research Unit at the University of Rennes, has approached the project seeking collaboration.

Following initial discussions, we were notified that Prof.Renaud de Crevoisier, who is Radiation Oncologist, is the director of one of the teams and at the same time the director of the Anticancer Center Eugene Marquis. They have been doing preclinical and clinical research for several years and indeed have gathered a quite large amount of data from the clinical practice but also from different trials.

One of the goals of our translational research is to exploit data in order to answer to clinical questions. This may concern prediction of recurrence and toxicities, MRI based planning or the adaptive radiotherapy among others.

The Center has a high amount of data that could be shared within European Consortiums, as we are doing within one of the EraPerMed Projects. This may include CT, 3D Doses, CBCT or MR with different endpoints such as Recurrence or toxicities, re-irradiation, etc.

It was made clear to us that they would be happy to discuss with ProCAncer-I among these possibilities. It is worth mentioning that some of these data are still to be used within some ongoing projects. We need to exploit them first before being shared.

5 Conclusions

This deliverable provides details on measures and actions already put in place to effectively disseminate and communicate the project, its objectives and eventually the tools and services to be developed within the ProCAncer-I project.

A robust dissemination and communication plan has been formed, the key components of which have been developed together with the whole consortium.

The project website and Social Media accounts have been constantly used to draw awareness, and all partners are participating in various dissemination actions. As presented in the current report in the second phase of the project, completing 36 months of implementation, there has been a very significant progress in dissemination activities.

This document will be updated at the end of the ProCAncer-I project, to report all the dissemination activities that will take place reflecting results, achievements and lessons learned from the implementation of the ProCAncer-I project.

6 Appendix I

New Publication and Authorship Policy

Introduction and Need

During the last implementation phase of the project the Scientific and Technical Committee of the project identified the need of establishing an **agreed publication and authorship policy**, in order to avoid conflict and overlaps and to optimize project wide collaboration.

The Grant Agreement and the Consortium Agreement both state some provisions for the dissemination results, but they are not clear and until now not always followed. As the last phase of the project, was much more productive than the previous and the ProCAncer-I Consortium consists of 20 different partners from different fields and with different mentalities it was made evident that we need

    a) **a clear policy and processes** to manage our publications and authorship, and
    b) to assign the **bodies required to manage and oversee the process**.

It has also been widely discussed and acknowledged that clinical team members should also be part at the authorship, especially when publishing papers on model validation, as without the datasets collected by the clinicians, no validation can take place.

The New Publication Policy was agreed at the Consortium Meeting in Lisbon (June 2023)

Policy

Responsible Body

Publication Steering Team (PST) comprised by:

    ❖ the Scientific Manager

    ❖ the Clinical Coordinator,

    ❖ the Technical Manager, and

    ❖ the D&C Manager (WP3 Leader)

    ❖ The WP6 Leader

    ❖ The WP8 Leader

    ❖ 2nd Clinical Partner -RMH

Duties:

    ❖ Define proactively a number of expected publications
    ❖ Define a concrete set of scientific publications expected during the life of the Project.
    ❖ Define a minimum of publications to be accepted in certain well acknowledged journals and conferences
    ❖ Identify ad hoc opportunities that arise

Workflow for the publication policy

❖ Any partner of the Consortium or group of partners from the Consortium interested in making a scientific publication related to foreground knowledge must send a proposal to the Publication Steering Team for obtaining approval prior to the preparation of the content. The email for notification of the PST is procancer-i-pst@procancer-i.eu.

The Publication should be uploaded at the CBMLBox under: https://cbmlbox.ics.forth.gr/index.php/s/iXa53PzWzbnHBjN , as well as the final accepted publication

❖ After analyzing the input received, the Publication Steering Team (PST) will directly approve the preparation of the publication or will provide guidance to reorient the proposal in alignment with the project's objectives. The PST must provide a response within 14 days. If no response is provided within 14 days, it is assumed that the publication is approved by the PST.

❖ PST will identify whether the results or background of any other Partner may be included in the publication, as per the proposal received. If so, it will confirm that the Partner interested in making the publication has obtained the corresponding written approval and, in any case, the PST will forward the proposal for the publication to the Partners whose results or background have been included.

❖ Once the publication is approved by the PST and the content is prepared, the responsible for the publication must send the final version to the PST with the purpose of obtaining the final validation of the document prior to its official submission. As a pre-requisite to issuing the final validation, the PST will assess whether the results or background of any other Partner have been included in the final version of the publication. If so, the process mentioned above shall be repeated (i.e., ensuring written approval was obtained and that the Partner whose results or background have been included is made aware of the final version).

❖ The publication should also contain an abstract in layman language, so that non-scientific people can also understand its purpose.

❖ Once the publication is officially submitted the responsible for the publication informs accordingly the PST.

❖ Once the publication is officially accepted the responsible for the publication informs the PST and updates the ProCAncer-I Dissemination activities file.

❖ Upon the official acceptance of a publication, it will be promoted through the ProCAncer-I digital channels (website, social media, etc)

Authorship policy

2 Options depending on Journal. The first option is preferred.

Option 1

❖ Include the names of the main authors plus

❖ a list of contributors representing the (rest) of the consortium - standard list established: The ProCAncer-I Consortium and

❖ refer to this list as an author (Consortia authorship)

Option 2:

❖ Include the names from those that actually have done the majority of the work (main authors) plus

❖ one representative from other contributing partners (contributors): the main authors should send a mail to ask for names of contributors for each specific publication

❖ Potential problem, in case there is a limitation in the number of authors.

7 Appendix II

Table of Dissemination Events

Dissemination Activities

Nr.	Main Partner	Type of publication	Title of publication	DOI	Title of event / Presentation	Number, date	Publisher	Place of Publications	Year of publication	Public & Private Publication	Peer-review	Open access provided?	Type of audience	Number of audience
51	FORTH	Webinar	Trustworthy AI in medical image analysis	https://www.eusomii.org/event-organizer/eusomii/	Eusomii European Society of Medical Imaging Informatics	30/05/2022	EUSOMII	on line	2022	Public			Scientists	
52	CNR-ISTI	Publication in conference/Workshop	On the Effectiveness of 3D Vision Transformers for the Prediction of Prostate Cancer Aggressiveness	https://doi.org/10.1007/978-3-031-13324-4_27	MEDTX - International Conference on Image Analysis and Processing ICIAP21	23-26/05/2022	SPRINGER	Lecce, Italy	2022	Public	Yes	Yes	international audience	
53	AI4HI	Article in Journal	Considerations for artificial intelligence clinical impact in oncologic imaging: an AI4HI position paper	10.1186/s13244-022-01220-9	Insights into Imaging	10/05/2022	SPRINGER NATURE	on line	2022	Public	Yes	Yes		
54	The Royal Marsden Hospital	Presentation/Participation in Conference	Curating large datasets for AI tool development: our experience in participating in the ProCAncer-I project		The UK Imaging and Oncology Congress (UKIO)	07/05/2022	UKIO	on line	2022	Private	No		Radiologists, Oncologists, Physicists, etc	
55	FORTH	Publication in conference/Workshop	Data Ingestion for AI in Prostate Cancer	10.3233/SHTI220446	Medical Informatics Europe - MIE 2022 by EFMI: "Challenges of trustable AI and added-value on health"	27-30/05/2022	EFMI	Nice	2022				Biomedicals, Bioengineers, health informatics	500
56	FPO	Publication in conference/Workshop	Comparison of Machine and Deep Learning models for automatic segmentation of prostate cancers on multiparametric MRI	10.1109/MeMeA54994.2022.9856530.	IEEE International Symposium on Medical Measurements and Applications	22-24/06/2022	memea2022.ieee-ims.org	Giardini Naxos, Taormina	2022					
57	CNR-ISTI	Presentation/Participation in Conference	The Design of Trustworthy AI System: a Deep Look into the Transparency of Data, Models, and Decisions		EMBC 2022 11 – 15/7/22, Glasgow.	11-15/07/2022	IEEE EMBS	Glascow	2022		Yes		international audience	
58	FORTH	Publication in conference/Workshop	AI Passport – Traceability for Trustworthy AI		EMBC 2022 11 – 15/7/22, Glasgow.	11-15/07/2022	IEEE Engineering in Medicine & Biology Society (EMBS)	Glascow	2022				Bioengineers, health informatics,	500
59	CHAMPALIMAUD	Article in Journal	Discrimination of Tumor Texture Based on MRI Radiomic Features: Is There a Volume Threshold? A Phantom Study	https://doi.org/10.3390/app12115465	MDPI in Applied Sciences Applied Sciences , Volume 12;	27/05/2022	mdpi	on line	2022	Public	Yes	Yes		
60	FORTH	Presentation/Participation in Conference	Trustworthy AI in Cancer Imaging Research	https://embc.embs.org/2022/sessions-and-workshops-information/theme-2/#2-1	EMBC 2022 11 – 15/7/22, Glasgow.	11-15/07/2022	IEEE Engineering in Medicine & Biology Society (EMBS)	Glascow	2022	Public			Biomedicals, Bioengineers, health informatics,	120-150
61	FORTH	Article in Journal	Position of the AI for Health Imaging (AI4HI) network on metadata models for imaging biobanks	10.1186/s41747-022-00281-1.	European Radiology Experimental 2022 Jul	7/1/2022	European Radiology Experimental	ONLINE	2022	Public	Yes	Yes	Biomedicals, Bioengineers, health	
62	CHAMPALIMAUD	Presentation/Participation in Workshop	Practice-oriented Cancer Imaging AI technology applications for clinical use		International Cancer Imaging Society-ICIS2022	12-14/09/2022	ICIS	Boston	2022	Public	Yes	Yes		
63	FORTH	Publication in conference/Workshop	Developing open, standard-based, interoperable Cancer Imaging Repositories in Europe: Issues, Experiences and Challenges		IEEE-EMBS BHI 2022 co-organized with IEEE-EMBS BSN 2022	27-30/09/2022	IEEE	Ioannina	2022	Public	Yes	Yes	Bioengineers, health informatics,	80
64	UNIPI	Event	Procancer-I project presented at the ImagingLab open day, University of Pisa	https://imaginglab.med.unipi.it/2022/09/15/open-days-24-09/	open day, University of Pisa	24/09/2022	UNIPI	PISA	2022	Public	Yes	Yes		
65	B3D	Event			European Congress of Radiology 2022	13-17/07/2022	ESR	Vienna	2022	Public	Yes	Yes	international audience	
66	FPO	Event	ProCAncer_I was present at the European Researchers Night in Turin		European Researchers Night	01/10/2022	twitter/linkedin	Turin	2022	Public	Yes	Yes	PUBLIC	100
67	IDIBGI	Press Release	Girona participa en un projecte d'intel·ligència artificial per millorar el tractament del càncer de pròstata	https://www.acn.cat/new/0bd40898-cdc6-4b04-9923-5dde14ed226d/texts	Agència Catalana de Notícies	15/10/2022	acn.cat	Catalonia, Spain	2022	Public	Yes	Yes	international audience	
68	ADVANTIS	Presentation/Participation in Workshop	Re-discovering prostate MRI processing		ESUR 2022	13-16/10/2022	ESUR	Athens	2023	Public	Yes	Yes	international audience	286
69	NCI	Presentation/Participation in Conference	Report on current Procancer-I activities			27/06/2022		Vilnius, Lithuania	2022	Public			NCI community	
70	NCI	Presentation/Participation in Workshop	Activities of Diagnostic and interventional radiology department, NCI		Meeting	20-23/06/2022		Chisinau, Moldova	2022	Public			Chisinau oncology center and German	
71	HACETTEPE	Presentation/Participation in Conference	Presentation ot the ProCAncer – I project	https://www.procancer-i.eu/news/procancer-i-at-the-national-congress-turkrad-2022-in-antalya/	43rd Turkish National Radiology Congress	02-06/11/2022	Turkish National Radiology Congress	Antalya	2022	Public				
72	FORTH	Webinar	Health data sharing and AI in cancer imaging	https://www.esoi-society.org/eucanimage/	Health data sharing and AI in cancer imaging	17/11/2022	eucanimage	online	2022	Public				

No	Partner	Type	Title	Link	Event	Date	Organiser	Location	Year	Access			Audience	Number
73	FORTH	Presentation/Participation in Conference	Digital Transformation in Healthcare	https://www.procancer-i.eu/news/procancer-i-at-the-clinical-and-translational-oncology-conference-2022-in-heraklion/	Clinical and Translational Oncology Conference 2022 organised by the Department of Medical Oncology of the University General Hospital of Heraklion (PAGNI)	17-20/11/2022	PAGNI	Heraklion	2022	Public			Clinicians, oncologists, biologists, researchers	150
74	CHAMPALIMAUD	Presentation/Participation in Workshop	Radiology AI Innovation: Academics vs Industry	https://www.procancer-i.eu/news/procancer-i-at-the-rsna-2022-in-chicago/		27/11/2022	RSNA 2022	CHICAGO	2022	Public				
75	Quibim	Presentation/Participation in Workshop	Mark Wittenberg presented a session last week at RSNA 2022 in Chicago called "Advancements in Prostate MRI: Quibim" in which he also communicated about ProCancer-I.	https://www.procancer-i.eu/news/procancer-i-at-the-rsna-2022-in-chicago/		28/11/2022	RSNA 2022	CHICAGO	2022	Public				
76	INITIATIVE	Article in non scientific media	Considerations for AI clinical impact in oncologic imaging	https://www.procancer-i.eu/news/the-blog-on-artificial-intelligence-of-the-european-society-of-radiology-published-our-ai4hi-position-paper/		30/11/2022	ESR	ONLINE	2022	Public			Biomedicals, Bioengineers, health informatics, Radiologists	
78	QUIBIM	Article in non scientific media	An AI Platform integrating imaging data and models, supporting precision care through prostate cancer's	m_procancer-i-an-ai-platform-supporting-precision-activity-81%CF%87%CE%B9%CE%BA%CE%AE/%CE%B1%CE%BD%CE%B1%CE%BF%CE%B9%CE%BD%CF%8E%CF%83		16/11/2022	QUIBIM	ONLINE	2022 Public					
79	FORTH	Presentation/Participation in Conference	Current developments in Radiology		Scientific Conference of the Hellenic Radiological Society	9-11/12/2022	Hellenic Radiological Society	ATHENS	2022	Public			Radiologists, Clinicians	120
80	FORTH	Article in Journal	Enhancing cancer differentiation with synthetic MRI examinations via generative models: a systematic review	10.1186/s13244-022-01315-3	Insights into Imaging		12/12/2022	SpringerOpen	on line	2022	Public			Radiologists, Clinicians, Health imaging, Bioengineers,	
81	FORTH	Webinar	Enhancing the potential of Artificial Intelligence in cancer research	https://www.esoi-society.org/eucanimage/		17/11/2022	eucanimage	ONLINE	2022					
82	CHAMPALIMAUD	Presentation/Participation in Conference	Current Developments in Radiology		"Artificial Intelligence in Oncology Imaging: Where Are We?" & "Introduction to Artificial Intelligence in Radiology"	09/11/2022	Current Developments in Radiology	ATHENS	2022	PUBLIC			RADIOLOGISTS	
83	NCI	Presentation/Participation in Workshop	Project presentation	https://www.linkedin.com/posts/asta-scesnaite-jerdiakova-7b755564_h2020-innovation-procancerabri-activity-	ProCancer-I: An AI Platform integrating imaging data and models, supporting precision care through	2023 09 01	Nacionalinis vėžio institutas / National cancer institute	Nacionalinis vėžio institutas / National cancer	2023	public			local meeting for clinicians and scientists	
84	CHAMPALIMAUD	Presentation/Participation in Workshop	Enhancing Healthcare Through AI	https://www.icimagingsociety.org.uk/index.cfm?task=meetings&meetingid=290	AI and Machine Learning in Cancer Imaging 3.0	30/06-01/07 2023	ICIS	LISBON	2023					
85	HULAFE	Article in non scientific media	El poder de las Bases de Datos y su aplicación en la Medicina de Precisión.	https://www.procancer-i.eu/news/procancer-i-and-the-eucaim-project-featured-in-the-el-pais-	EL PAIS	25/02/2023	EL PAIS	SPAIN	2023	PUBLIC	NA	YES	General public.	Free Online acc
86	CHAMPALIMAUD	Article in Journal	A Comparative Study of Automated Deep Learning Segmentation Models for Prostate MRI	https://doi.org/10.3390/cancers15051467	Cancers, Volume 15, Issue 5 (March-1 2023)	25/02/2023	MDPI	ONLINE	2023	PUBLIC	YES	YES		
87	HACETTEPE	Presentation/Participation in Conference	ProCAncer-I at the European Congress of Radiology 2023		ECR2023	04-05/03/2023	European Society of Radiology	Vienna	2023	PUBLIC	YES	YES		
88	FPO	Article in Journal	Virtual biopsy in abdominal pathology: where do we stand?	https://doi.org/10.1259/bjro.20220055	BJR OPEN /British Institute of Radiology	28/02/2023	BIR	ONLINE	2023	PUBLIC	YES	YES		
89	CHAMPALIMAUD	Article in Journal	Value of handcrafted and deep radiomic features towards training robust machine learning classifiers for prediction of prostate cancer disease aggressiveness	https://doi.org/10.1038/s41598-023-33339-0	Scientific Reports (Sci Rep)	17/04/2023	nature	ONLINE	2023	PUBLIC	YES	YES		
90	UNIPI	Article in Journal	A first look into radiomics application in testicular imaging: A systematic review	https://doi.org/10.3389/fradi.2023.1141499		17/04/2023	frontiers in radiology	ONLINE	2023	PUBLIC	YES	YES	International Audience	
91	UNIPI	Presentation/Participation in Conference	Conference on Multi-Parametric MRI in Prostate Cancer	https://www.fclassevents.com/it/rm-multiparametrica-della-prostata-2023/	intelligence and MRI in prostate cancer"	21/04/2023		PISA, Italy	2023					
92	IDIBGI	Event	Fira Ciència en Equip ("Team Science" Fair)	https://twitter.com/idibgi/status/1647187545296445440	Ciencia En Equip	15/04/2023		Girona, Spain	2023	PUBLIC	YES	YES	general public, Girona citizens	200 attendees
93	IDIBGI	Event	Prostate cancer, magnetic resonance imaging and artificial intelligence. Procancer Project	https://twitter.com/Girona7ciencia/status/1656342835098943505	Pint of Science	22/05/2023		Girona, Spain	2023	PUBLIC	YES	YES	general public, interested in science	35 attendees
94	IDIBGI	Event	Procancer-I Project: Artificial intelligence integrating clinical and imaging for precision medicine of prostate cancer	https://docs.academia.cat/a/cdbe27cc	Closing Day of the Medical Sciences and Health Group of Girona (ACMSG)	02/06/2023		Girona, Spain	2023	PUBLIC	YES	YES	ACMSG associates, healthcare professionals	
95	NCI	Event	International Scientific Conference on "Local #Prostate_Cancer Diagnosis"	https://www.linkedin.com/feed/update/urn:li:activity:7064858934087495680 https://www.nvi.lt/news/806/72/Pier-konferencija-Lokalaus-prostatos-vezio-diagnostika-patirtimi-dalijosi-	The Department of Diagnostic and Interventional Radiology	15-16/05/2023		Vilnius, Lithuania	2023					
96	INITIATIVE	Article in Journal	Data infrastructures for AI in medical imaging: a report on the experiences of five EU projects	https://doi.org/10.1186/s41747-023-00336-x		09/05/2023	European Radiology Experimental	ONLINE	2023	PUBLIC	YES	YES	Radiologists, General Doctors, Health imaging,	
97	FORTH	Presentation/Participation in Workshop	"Data Infrastructures for AI in Medical Imaging: A report on the experiences of five EU projects"	Medical+Imaging+De-Identification+-%28MIDI%29+Workshop+Agenda	Medical Imaging De-Identification (MIDI) Workshop	22-23 May, 2023	NCI	ONLINE	2023	PUBLIC	YES	YES		
98	ADVANTIS	Webinar	How to effectively read and report a prostate MRI	https://us02web.zoom.us/webinar/register/5016849967878/WN_ruV8MXmnQn2UjY21XO8V6w#/registration	How to effectively read and report a prostate MRI	###########	ADVANTIS	ONLINE	2023	PUBLIC	YES	YES		
99	CNR	Presentation/Participation in Conference	Explainable AI in cancer imaging		IEEE - ISBI 2023 - International Symposium on Biomedical Imaging	18-20 April 2023	IEEE	ONLINE	2023				Multidisciplinary scholars	

ID	Partner	Type	Title	Link	Event/Publication	Date	Organizer	Location	Year	Access			Audience	Count
100	CNR	Presentation/Participation in Workshop	Exploring the potential and challenges of AI in medical imaging	https://www.ital-ia2023.it/workshop/ai-per-la-medicina-e-la-salute	ITAL-IA 2023 - Italian Conference of the CINI Lab on AI	29-31 May 2023	CINI	ONLINE	2023	PUBLIC	YES	YES	Multidisciplinary scholars	
101	HULAFE	Presentation/Participation in Conference	The role of radiomics and radiogenomics in abdominal oncology: Virtual biopsy.	Programa_Congreso_SERAM_CIR_2022.pdf (seram2022.com)	Congress of SERAM 2022	25/05/2022 - 28/05/2022	Sociedad Española de Radiología Médica (SERAM)	MALAGA	2022	PUBLIC	NA	NA	Radiologists, Technicians, Bioengineers,	2500
102	HULAFE	Presentation/Participation in Conference	Deep Learning NMR and outcomes prediction.	https://www.oeci.eu/Attachments/Valencia_22/06_L_CERD%C3%81-ALBERICH.pdf	Oncology Days 2022	15/06/2022	Organization of European Cancer Institutes (OECI)	VALENCIA	2022	PUBLIC	NA	NA	Oncologists, Radiologists, General doctors, Bioengineers,	300
103	HULAFE	Event	Infrastructures in Health Research projects and the role of medical imaging in oncology.	DCD>Infraestructura Digital | Salud: un	Broadcast DCD>Infraestructura Digital | Salud	28/03/2022	DatacenterDynamics (DCD)	Online	2022	PUBLIC	NA	NA	General public, Students, Medical professionals,	Free Online acc...
104	HULAFE	Presentation/Participation in Conference	Building an imaging repository for clinical research: challenges and opportunities.	SIOPE 2023 - Online Services Portal (siop	4th edition of the SIOP Europe Annual	10/05/2023	European Society for Paediatric Oncology (SIOPE)	Valencia	2023	PRIVATE	NA	NA	oncologists, Researchers.	1100
105	HULAFE	Presentation/Participation in Workshop	Technical Standards and the EU Health Data Space.	Technical Standards and the EU Health	Congress of ESR 2023	01/03/2023 - 05/03/2023	European Society of Radiology (ESR)	Vienna	2023	PRIVATE	NA	NA	Radiologists and bioengineers	17000
106	QUIBIM	Presentation/Participation in Workshop		https://www.linkedin.com/posts/quibim_data-ai-healthdata-activity-7067781918712356864-	The Value of Health Data	26/05/2023		ONLINE	2023	PUBLIC		YES	Multidisciplinary scholars	25
107	FORTH	Article in Journal	A segmentation-based method improving the performance of N4 bias field correction on T2weighted MR imaging data of the prostate	https://doi.org/10.1038/s41598-023-27671-8		05/01/2023	Scientific Reports (Sci Rep)	ONLINE	2023	PUBLIC	YES	YES	Biomedicals, Bioengineers, health informatics	
108	FORTH	Article in Journal	Region-adaptive magnetic resonance image enhancement for improving CNN-based segmentation of the prostate and prostatic zones	10.1016/j.mri.2023.03.012	Magnetic Resonance Imaging Volume 101, September 2023,	31/03/2023	Elsevier Inc	ONLINE	2023	PUBLIC	YES	YES		
109	FORTH	Publication in conference/Workshop	Fine-tuned feature selection to improve prostate segmentation via a fully connected meta-learner architecture	10.1109/BHI56158.2022.9926929	2022 IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI)	30/09/2022	IEEE-EMBS International Conference on Biomedical and Health Informatics	IOANNINA	2022	PUBLIC	YES	YES	Biomedicals, Bioengineers, health	
109	IDIBGI	Article in non scientific media	"Fight against cancer with artificial intelligence"	rticle/14-salut/2206115-lluita-contra-el-cancer-amb-intel-ligencia-artificial.html	El Punt Avui	16/10/2022	elpuntavui.cat	Catalonia, Spain	2022	PUBLIC			general public	38.468 unique visitors
110	IDIBGI	Article in non scientific media	"Girona participates in an artificial intelligence project to improve prostate cancer treatment"	2022/10/15/girona-participa-projecte-dintelligencia-artificial-77278674.html	Diari de Girona	15/10/2022	diaridegirona.cat	Girona, Spain	2022	PUBLIC			general public	38.113 unique visitors
111	IDIBGI	Article in non scientific media	"Girona participates in an artificial intelligence project to improve prostate cancer treatmen"	9/girona-participa-en-un-projecte-dintelligencia-artificial-per-millorar-el-	El Gerió Digital	15/10/2022	gerio.cat	Girona, Spain	2022	PUBLIC			general public	13.879 unique visitors
112	IDIBGI	Article in non scientific media	"Girona and the AI project for the treatment of prostate cancer"	https://laciutat.cat/laciutatdegirona/girona-cancer-prostata#	La Ciutat	15/10/2022	laciutat.cat	Girona, Spain	2022	PUBLIC			general public	
113	IDIBGI	Article in non scientific media	"Girona participates in an artificial intelligence project to improve prostate cancer treatment"	participa-en-un-projecte-dintelligencia-artificial-per-millorar-el-tractament-del-	Notícies 3/24	15/10/2022	ccma.cat/324	Catalonia, Spain	2022	PUBLIC			general public	unique visitors
114	IDIBGI	Article in non scientific media	"Pint of Science brings IDIBGI's biomedical research to Girona's bars"	https://idibgi.org/en/el-pint-of-science-acosta-la-recerca-biomedica-de-lidibgi-als-bars-de-girona/	IDIBGI News - site	26/05/2023	idibgi.org	online	2023	PUBLIC			General Public	34 unique visitors
115	IDIBGI	Training	MR Prostate Masterclass	https://romania.gehealthcare.com/about/academy-contact-us-en	GE Healthcare Academy	08/06/2023	GE Healthcare	Bucharest, Romania	2023	Private			Specialized public	
116	CHAMPALIMAUD	Event	Embracing Multitudes: a Game of Translation		Champalimaud Research Retreat 2023 "Embracing Multitudes: a Game of Translation"	29/05/2023 - 01/06/2023		Luso, Aveiro, Portugal	2023				Researchers	More than 100 participants
117	CHAMPALIMAUD	Poster presentation	Computational histopathology stitching in prostate cancer patients		Champalimaud Research Retreat 2023 - Poster Session	30/05/2023		Luso, Aveiro, Portugal	2023				Researchers	More than 100 participants
118	CHAMPALIMAUD	Poster presentation	Training robust radiomics-based machine learning classifiers for prediction of prostate cancer disease aggressiveness		Champalimaud Research Retreat 2023 - Poster Session	30/05/2023		Luso, Aveiro, Portugal	2023				Researchers	More than 100 participants
119	CHAMPALIMAUD	Presentation/Participation in Workshop	Computational Clinical Imaging Group Pitch		Champalimaud Research Retreat 2023 - Pitch Session	30/05/2023		Luso, Aveiro, Portugal	2023				Researchers	More than 100 participants
123	FORTH	Publication in conference/Workshop	PROper-Net: A Deep-Learning Approach for Prostate's Peripheral Zone Segmentation based on MR imaging	10.1109/MELECON53508.2022.9843082	2022 IEEE 21st Mediterranean Electrotechnical Conference (MELECON)	16/06/2022		Palermo, Italy	2022	PUBLIC	yes	yes		
124	UNIPI	Presentation/Participation in Workshop	Workshop organised by the Italian association in collaboration with CAND and CNR			15/06/2023			2023				oncology patients (specialized	6
125	RADBOUD	Article in Journal	Semi-supervised Learning with Report-guided Pseudo Labels for Deep Learning-based Prostate Cancer Detection Using Biparametric MRI	https://doi.org/10.1148/ryai.230031	Radiology: Artificial Intelligence	26/07/2023	Radiology: Artificial Intelligence	online	2023		yes	yes		
126	CNR	Article in Journal	3D-Vision-Transformer Stacking Ensemble for Assessing Prostate Cancer Aggressiveness from T2w Images †	https://doi.org/10.3390/bioengineering10091015	Special Issue Clinical Diagnosis and Treatment Inspired by Artificial Intelligence	28/08/2023	MDPI	online	2023	PUBLIC	YES	YES		
127	IDIBGI	Article in non scientific media	How can the results of the ProCAncer-I project help radiologists?	als-radiolegs-els-resultats-del-projecte-procancer-i/		13/07/2023		online	2023	PUBLIC			General Public	
128	UNIVIE	Presentation/Participation in Workshop			Chain: The EHDS Proposal & the ProCAncer-I Project	12.09.2023			2023					

#	Institution	Type	Description	Link	Title/Theme	Date	Event	Location	Year	Access			Audience	Attendees
129	CHAMPALIMAUD	Presentation/Participation in Conference	Invited presentation in the International Cancer Imaging Society annual meeting, held in the British Museum, London, UK		"AI/Radiomics 2.0: How to increase translation to the clinical environment?"	27/09/2023	International Cancer Imag	British Museum, London, UK.	2023				Mainly radiologists	About 30 attendees in this session
130	CHAMPALIMAUD	Presentation/Participation in Conference	Scientific presentation in the International Cancer Imaging		"Radiologic-histopathologic registratio	26/09/2023	International Cancer Imag	London, UK.	2023				radiologists	attendees in
131	IDIBGI	Event	"Artificial intelligence in the diagnosis of prostate cancer" at the event "Research on stage". By Kai Vilanova Busquets, Medical Imaging, IDIBGI-UdG	https://twitter.com/idibgi/status/1710218321025544320		28/09/2023	European Research Night	Girona	2023	public			General Public	
132	IDIBGI	Event	AECC event for the World Cancer Research Day	https://twitter.com/idibgi/status/1704880817699258769	"More research, more life"	21/9/2023	World Cancer Research Day	Girona	2023	public			Patients and general public	50
133	FPO	Presentation/Participation in Conference	Role of radiologists in radiomics/AI clinical projects		ERC Vienna	14/07/2022		Vienna	2022					
135	FPO	Presentation/Participation in Workshop	ProCAncer-I - An AI Platform integrating imaging data and models, supporting precision care through prostate cancer's continuum		EUSOMII 2023	13/10/2023		Pisa	2023				Scientists	
136	FPO	Event	ProCAncer_I was present at the European Researchers Night in Turin		European Researchers Night	30/09/2023	twitter/linkedin	Turin	2023				Public	100
137	HULAFE	Presentation/Participation in Workshop	What's new in disease segmentation?	https://drive.google.com/file/d/1lnHbis	Imaging 3.0: Enhancing Healthcare Through AI	30/06/2023 - 01/07/2023	and International Cancer Imaging Society (ICIS)	Lisbon	2023	Private	NA	NA	Data Scientists, Bioengineers,	200
138	HULAFE	Presentation/Participation in Workshop	Embracing data diversity	https://drive.google.com/file/d/1lnHbis	AI and Machine Learning in Cancer Imaging 3.0: Enhancing Healthcare Through AI	30/06/2023 - 01/07/2023	Champalimaud Foundation and International Cancer Imaging Society (ICIS)	Lisbon	2023	Private	NA	NA	Radiologists, Data Scientists, Bioengineers,	200
139	IDIBGI	Training	"Procancer-I Project: Artificial Intelligence Integrating the Clinic and MRI in Prostate Cancer" by Dr. Kai Vilanov		"Procancer-I Project: Artificial Intelligence Integrating the Clinic and	30/05/2023		Girona	2023	Private	NA	NA	clinicians	
140	FORTH	Presentation/Participation in Workshop				13/09/2023	UNCAN	Brussels	2023	Private	NA	NA		
142	FORTH	Presentation/Participation in Conference	Digital Transformation in the era of EHDS		6ou HealthIT Conference theme "Digital Transformation in the era of EHDS",	16-17/10/2023	HEALTH IT	ATHENS	2023					
144	INITIATIVE	Article in Journal	Technical and Clinical Perspectives on AI Validation in Cancer Imaging: Mind the Gap !		Technical and Clinical Perspectives on AI Validation in Cancer Imaging: Mind the Gap !		JMIR		2023					