



Improving cancer diagnosis
and prediction with
AI and big data

**A Multimodal AI-based Toolbox and an Interoperable Health Imaging Repository
for the Empowerment of Imaging Analysis related to the Diagnosis, Prediction
and Follow-up of Cancer**

Deliverable 9.7

**Clustering Events Proceedings and Raising Awareness Campaigns
Results V2**

WP9 – Dissemination, Awareness Raising and Clustering

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Terms and Abbreviations

Abbreviation	Description
AI	Artificial Intelligence
AI4HI	Artificial Intelligence for Health Imaging
BPD	Business Plan Development
C&D	Communication and Dissemination
DICOM	Digital Imaging and Communications in Medicine
EHDS	European Health Data Space
ESMO	European Society for Medical Oncology
ESR	European Society of Radiology
EUCAIM	European Federation for Cancer Images
G2M	Go-to-Market

HCP	Healthcare Provider
KPI	Key Performance Indicators
LOI	Letter of Intent
PDES	Portfolio Dissemination & Exploitation Strategy

1 Executive Summary

This document is designed to identify the main clustering events organized or attended by INCISIVE partners, in order to increase project's results visibility and maximize its potential and impact by collaborating with organizations that are running similar initiatives, related to the project's scope. The deliverable also contains a summary of the main campaigns that are being developed to disseminate project outcomes and raise awareness, regarding the pan-European repository of health images.

The final objectives of the clustering events and campaigns are to publicize project results, collaborate with related European initiatives and assure the widespread adoption and sustainability of the developed repository and AI toolbox beyond the European grant, so that we can improve the prevention, prediction and treatment of the most prevalent cancer types.

2 Introduction

2.1 Purpose and scope

This deliverable aims to present the proceedings of the clustering activities and awareness campaigns that have been performed under the Task 9.4. It compiles the events promoted by INCISIVE, those organized with the AI4HI cluster, the participation in events from other EU projects, as well as the awareness-raising campaigns regarding the pan-European repository of health images. Despite Task 9.4 started officially in September 2022, INCISIVE partners have been involved in clustering activities and initiatives since the very beginning of the project.

The document is aligned with D9.2 Communication and Dissemination (C&D) Plan, which identified target groups and how to address them in C&D activities, and deliverables D9.3, D9.4 and D9.5 that compile the C&D activities and results obtained throughout the project.

This deliverable is an in-depth description of some of INCISIVE clustering activities. However, it cannot be seen as a separate line of activities since all the dissemination activities eventually contribute to clustering and raising awareness.

2.2 Document structure

The deliverable is composed of four different sections:

- **Section 1** provides an executive summary of the work done and sets the document's purpose and scope, i.e., the context in which this report has been elaborated as well as its target and structure, and the relation with other deliverables.
- **Section 2** relates to the clustering events performed by INCISIVE, other events promoted and attended, as well as to future events.
- **Section 3** highlights future raising awareness campaigns about the pan-European repository of health images.
- **Section 4** lays down the conclusions of the activities performed so far in Task 9.4.

2.3 Relation with other deliverables

This document is closely related to the following deliverables:

- D9.2 Communication and Dissemination Plan

- D9.3 First Dissemination Activities Report
- D9.4 Second Dissemination Activities Report
- D9.5 Clustering Events Proceedings and Raising Awareness Campaigns Results
- D9.6 Final Dissemination Activities Report
- D9.7 Clustering Events Proceedings and Raising Awareness Campaigns Results

3 Clustering events

The three main purposes of the clustering events are:

- 1) To offer high visibility for the INCISIVE results
- 2) To develop collaborations with other EU initiatives
- 3) To exchange knowledge and expertise with similar research initiatives

As the project comes to a close, INCISIVE has successfully conducted two exclusive clustering events, one in Belgrade and another in Madrid. Simultaneously, smaller workshops have been conducted in parallel with larger events organized by external organizations. Furthermore, INCISIVE partners have actively co-organized and participated in clustering events facilitated by the AI4HI network.

3.1 Events promoted by the INCISIVE project

INCISIVE plan was to foster two large clustering events throughout the course of the project.

3.1.1 Belgrade clustering event

This first event was comprehensively documented in deliverable D9.5; consequently, the subsequent text serves as a condensed summary. The event took place on the **17th and 18th of November 2022** by the title **“Health data sharing and AI in cancer imaging – empowering AI-driven solutions for cancer diagnosis, treatment and follow-up”** in the Hotel Nobel of **Belgrade** (Serbia).



Figure 1: Promotion campaign for the INCISIVE event in Belgrade.

Professionals and researchers in oncology and artificial intelligence convened to discuss the crucial role of AI in cancer diagnosis, treatment, and follow-up. The two-day program featured sessions and hands-on training covering topics such as data sharing, healthcare professionals' perspectives, the legal framework of the European Health Data Space, medical image de-identification, and the transition from research to AI product development. The event also highlighted European initiatives like the AI for Health Imaging (AI4HI) cluster and EUCAIM project, along with a real-life AI deployment case presented by Quibim.

Co-organized by Visaris and the University of Novi Sad, the meeting attracted over **60 in-person attendees**. The event's success was underscored by its role in raising regional awareness of project solutions, facilitating feedback at INCISIVE workshops, fostering productive dialogue between clinical practitioners and AI professionals, and gaining coverage on national TV channels.



Figure 2: INCISIVE event at Hotel Nobel (17th of November, Belgrade).

3.1.2 Madrid clustering event

The second event occurred on **November 7, 2023**, at THE CUBE Innovation Hub premises in **Madrid**, titled "**AI in Cancer: Unleashing Opportunities, Overcoming Challenges**". INCISIVE hosted this open hybrid clustering event, bringing together leading partners from the EUCAIM project and the AI4HI cluster: INCISIVE, CHAIMELEON, EuCanImage, ProCancer-I, and PRIMAGE.

EuCAIM (European Federation for Cancer Images) project will ensure that all the big data repositories created by each of the AI4HI projects will become interoperable and more easily accessible to interested reusers of health data through a unique search facility. EUCAIM will also further harmonize practices, contribute to standards, ensure interoperability and in-fine, raise trust in data sharing, and advance in AI development in cancer imaging.

The collaborative gathering featured a distinguished panel of speakers, including physicians, legal and AI experts, pioneering companies, patient associations, and representatives from various institutions.

AGENDA

The workshop consisted of four sessions: initially, each project's representative from the AI4HI cluster highlighted a characteristic that set their project apart. Subsequently, two table rounds facilitated discussions on the benefits and challenges of data sharing and emerging technologies for cancer medical imaging. The event concluded with a session showcasing success stories in

cancer medical imaging that have significantly advanced cancer research and patient care. For a detailed agenda, refer to the following table.

Registration of attendees	
<p><u>Welcome and Keynote Speech</u></p>	<p>Mrs. Gianna Tsakou, Project Manager at Maggioli Group. Coordinator of INCISIVE project and moderator.</p> <p>Mrs. Aleksandra Wesolowska, European Commission, Programme Officer – EU Policies, CNECT.H3 – eHealth, Well-Being and Ageing.</p> <p>Mr. Thanos Kosmidis, Co-founder & CEO at Care Across, Member of INCISIVE Advisory Board, <u>Keynote Speaker</u>.</p>
<p>Session 1:</p> <p><u>Introduction to cancer medical imaging repositories and their importance in research and clinical practice</u></p>	<p>Mrs. Gianna Tsakou, Project Manager at Maggioli Group. Coordinator of INCISIVE project.</p> <p>Mr Oliver Díaz, Associate professor and oncology lead scientist of the Artificial Intelligence in Medicine Lab at the University of Barcelona, Scientific Coordinator of RadioVal project.</p> <p>Mr. Kostas Marias, Professor of Medical Image Processing at Hellenic Mediterranean University. Technical Director of ProCAncer-I project.</p> <p>Mr. Ignacio Blanquer, Professor in the Computer System department at Polytechnic University of Valencia. Representative of PRIMAGE and CHAIMELEON.</p> <p>Dr. Luis Martí-Bonmatí, Director of the Medical Imaging Department at the La Fe Polytechnic University Hospital. Coordinator of EUCAIM, PRIMAGE and CHAIMELEON project.</p>
<p>Session 2:</p> <p><u>The process, benefits and challenges of data sharing (ethical and legal considerations, cybersecurity, and privacy protection)</u></p>	<p>Mr. Ricard Martínez, Director of the Chair in Privacy and Digital Transformation at the University of Valencia. CHAIMELEON project.</p> <p>Mrs. Magdalena Kogut-Czarkowska, Privacy and IPTech lawyer at Timelex. INCISIVE project.</p> <p>Mrs. Susanna Aussó, Head of AI at TIC Salut Social Foundation and representative of the Catalanian AI Programme. INCISIVE project.</p> <p>Mr. Antonio Orduña, Applications and systems engineer at La Fe Polytechnic University Hospital.</p> <p>Mrs. Ana Belén Callado, Communication Manager at TIC Salut Social Foundation. INCISIVE communication leader. Moderator.</p>
<p>Session 3:</p>	<p>Mr. Alberto Gutiérrez, Postdoctoral researcher on Computer Sciences at the Barcelona Supercomputing Center. INCISIVE project.</p>

<p><u>Developed services and emerging technologies and tools for cancer medical imaging data analysis and visualization</u></p>	<p>Mrs. Ana Jiménez, Vice President of AI at Quibim. PRIMAGE and CHAIMELEON projects.</p> <p>Mrs. Leonor Cerdá Alberich, Physicist at La Fe Health Research Institute. EUCAIM project.</p> <p>Dr. Vicente Martínez de Vega Fernández, Head of the Imaging Diagnosis Department at Quirónsalud University Hospital Madrid; Ruber Juan Bravo Hospital and Quirónsalud San José.</p> <p>Dr. Felipe Couñago, Radiation Oncologist, Clinical Director of GenesisCare Madrid.</p>
<p>Session 4:</p> <p><u>Success stories of cancer medical imaging in advancing cancer research and patient care</u></p>	<p>Dr. Vladan Zdravković, Project manager at Visaris. INCISIVE project.</p> <p>Mr. Javier Sánchez, Clinical Science Lead South Europe at Philips.</p> <p>Mr. Mario Aznar, CEO of Matical Innovation. PRIMAGE and CHAIMELEON projects.</p> <p>Mr. Pau López, Head of the Informations Systems Technical Office of the Catalan Institute of Health (ICS).</p> <p>Mr. Javier Miguel Aquerreta, Biomedical Engineer at La Fe Health Research Institute.</p> <p>Mrs. Susanna Aussó, Head of AI at TIC Salut Social Foundation and representative of the Catalanian AI Programme. INCISIVE project. Moderator.</p>
<p>Q&A and closing session</p>	<p>Mrs. Gianna Tsakou, Project Manager at Maggioli Group. Coordinator of INCISIVE project and moderator.</p> <p>Dr. Luis Martí-Bonmatí, Director of the Medical Imaging Department at the La Fe Polytechnic University Hospital. Coordinator of EUCAIM, PRIMAGE and CHAIMELEON project.</p> <p>Mr. Thanos Kosmidis, Co-founder & CEO at Care Across, Member of INCISIVE Advisory Board, <u>Keynote Speaker</u>.</p>
<p>Networking lunch at THE CUBE premises</p>	

VENUE

The choice of venue at THE CUBE premises in Madrid played a strategic role in shaping the dynamics of discussions. The room's U-shaped configuration was thoughtfully chosen to foster interactions among participants in an open dialogue format. This U-shaped room layout was also carefully considered to facilitate the two round tables that occupied mostly half of the event, further enhancing the collaborative and engaging atmosphere.



Figure 3: THE CUBE premises in Madrid's Clustering event.

To ensure seamless logistics for all speakers and attendees, a logistics document was provided to guide participants in reaching the venue from major train stations, the airport, and the city center. This document was made easily accessible by being uploaded to the [event's web landing page](#), facilitating convenient and efficient navigation for all participants.

ENGAGEMENT AND PROMOTION STRATEGY

One of the pivotal aspects of the event's success lay in its robust communication and engagement strategy, meticulously crafted to attract a broad spectrum of stakeholders. Recognizing the multidisciplinary nature of the topic, the strategy aimed to draw in doctors, patients' associations, engineers, researchers, public administration officials, and students.

On the other hand, the event coordinators partnered with the AI4HI cluster to implement a comprehensive mailing campaign. This collaborative effort ensured a multiplying effect, reaching a wider audience and fostering diverse perspectives.

ALIGNING ENGAGEMENT WITH KPIS

With a clear key performance indicator (KPI) centered around attracting a minimum of 40 institutions interested in donating cancer images to INCISIVE's repository, the engagement strategy was twofold. It not only aimed to create a vibrant and diverse audience, but also specifically targeted institutions aligned with the project's objectives. Further details on this strategy are provided in section **¡Error! No se encuentra el origen de la referencia..**

ATTENDANCE DYNAMICS

The event's success was emphasized by its dual attendance dynamics. A total of 150 individuals participated online, breaking down geographical barriers and allowing a global audience to engage with the discussions. Simultaneously, 70 participants attended the event in person, creating a face-to-face collaboration.

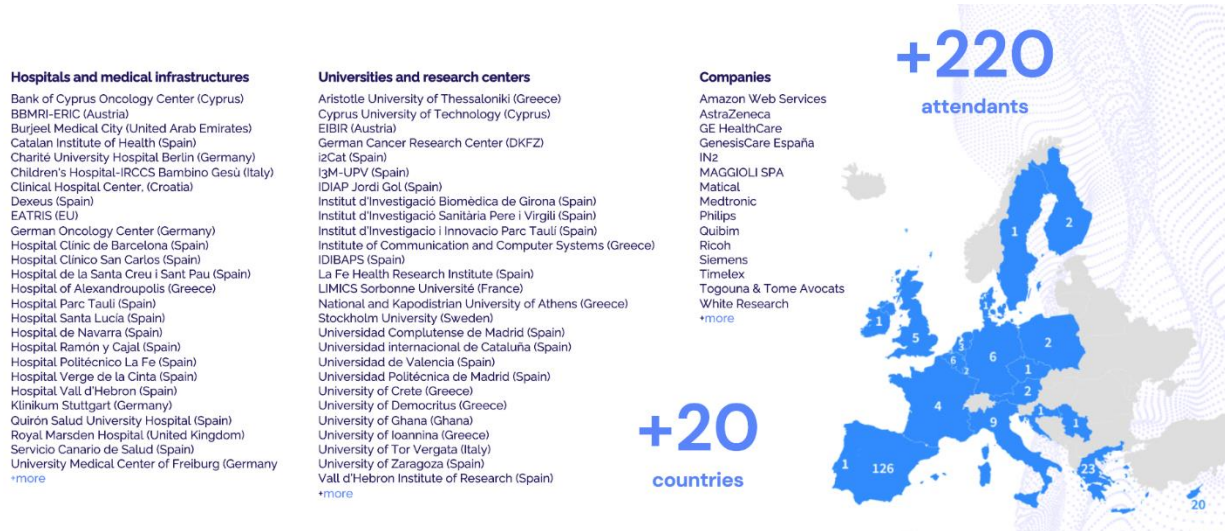


Figure 4: Snapshot of the global attendance to Madrid's Clustering event.

STRATEGIC SOCIAL MEDIA CAMPAIGN

A comprehensive social media campaign was used to generate buzz for the event. The C&D leading partner, TIC Salut Social Foundation, created a dedicated web landing page for registration and tracking, including quotes from experts encouraging professionals to join the event. They also planned a social media strategy to attract interested potential attendants, composed of promotional videos and quotes, and published an [interview to EUCAIM's scientific coordinator](#), Luis Martí Bonmatí, in which he mentioned that by “joining the event, clinicians and computational researchers will be able to know more about what The Cancer Image Europe platform (EUCAIM) is able to provide to them, the functionalities of the infrastructure, and all the benefits that EUCAIM offers under collaboration agreements. They will also have the opportunity to network with colleagues working on challenges related to health data sharing and reuse and contribute with their ideas and know-how to this collaborative effort”.

The following figures from the campaign showcase the reach and impact of the online promotional efforts.

Ana Belén Callado Gil • 1er
 Periodista especializada en comunicación científica y corporativa en cent...
 ★ Administrador • 6 meses

We are thrilled to announce that the INCISIVE project is organising, together with the AI4HI cluster and the EUCAIM project, a joint event in Madrid entitled 'AI and Cancer: Unleashing Opportunities, Overcoming Challenges'.

We will talk about cancer medical imaging repositories and their importance in research and clinical practice, discuss the process, benefits and challenges of data sharing, and share success stories of cancer medical imaging in advancing cancer research and patient care, among other topics.

In September, we will open registrations and send you the agenda details. Stay tuned!

📅 7th November 2023
 📍 The Cube, Madrid (+streaming)

Ver traducción

Ana Belén Callado Gil • 1er
 Periodista especializada en comunicación científica y corporativa en cent...
 ★ Administrador • 4 meses

🌟 Join for the 'AI and Cancer: Unleashing Opportunities, Overcoming Challenges' event! 🌟

📅 Save the Date: November 7th, 2023
 📍 Location: The Cube, Madrid (Spain)
 🌐 Can't make it in person? Follow the event remotely!

Organised by the dynamic collaboration between the INCISIVE project, the Artificial Intelligence for Health Imaging (AI4HI) cluster, and the EUCAIM project, the event will gather recognised experts to explore how Artificial Intelligence powered by health data sharing can transform cancer challenges into remarkable opportunities 🚀

Whether you're attending in person or joining remotely, registration is free.

👉 <https://lnkd.in/d/xhWF3JR>

#AIandCancer #HealthcareInnovation #INCISIVE #AI4HI #EUCAIM
 #CancerResearch #DataDrivenHealthcare #Innovation #INCISIVEevent

Ver traducción

Ana Belén Callado Gil • 1er
 Periodista especializada en comunicación científica y corporativa en cent...
 ★ Administrador • 2 meses

240 professionals from more than 20 countries registered for the workshop event 'AI and Cancer: Unleashing Opportunities, Overcoming Challenges', coorganized by INCISIVE, EUCAIM, and the AI4HI cluster, with the local support of Medtronic and TIC Salut Social Foundation, the 7th of November in Madrid, Spain.

The video and presentations of the event are now available on the links provided at the end of this article 🌟

<https://lnkd.in/d/xxcUJc>

Ver traducción

Watch the video and presentations of the event 'AI and Cancer: Unleashing Opportunities, Overcoming Challenges' - Incisive Project
 incisive-project.eu • 3 min de lectura

Figure 5: LinkedIn posts shared before and after the event, serving as informative updates and reflections on the clustering event.

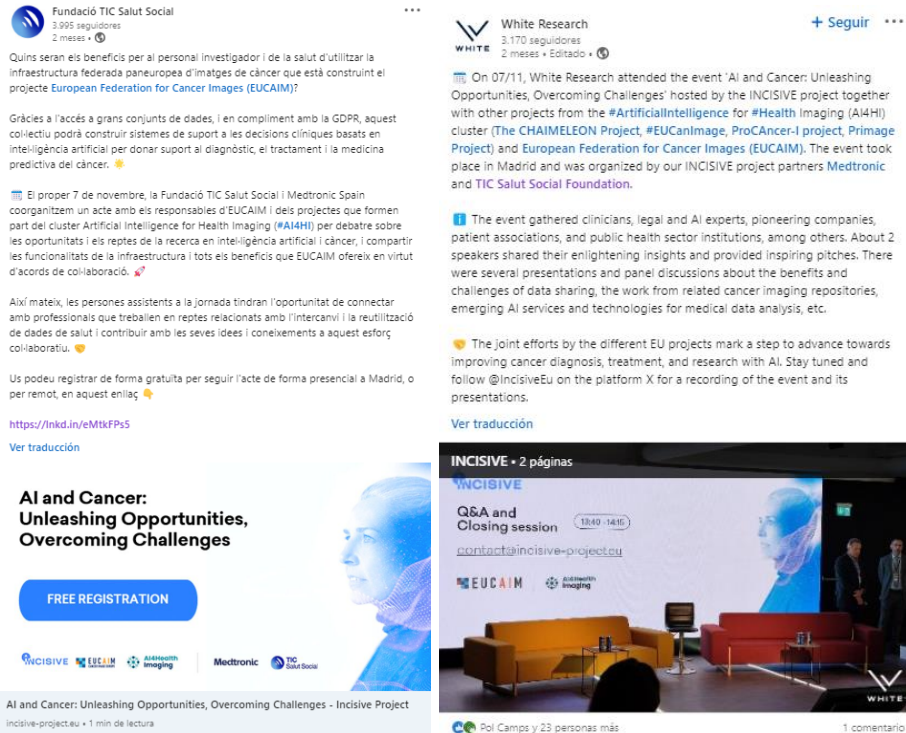
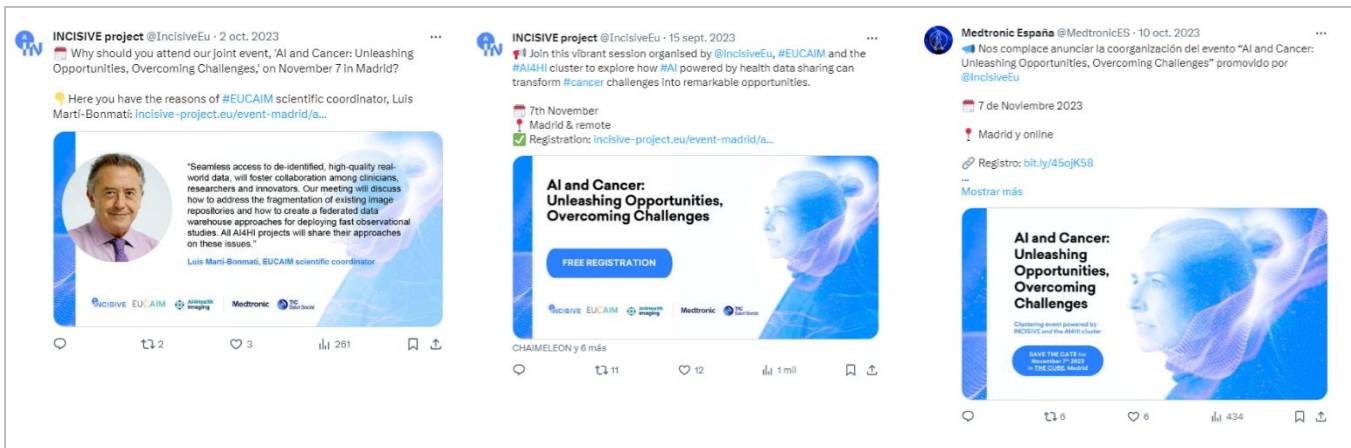


Figure 6: LinkedIn posts shared by TIC Salut Social and White Research partners.



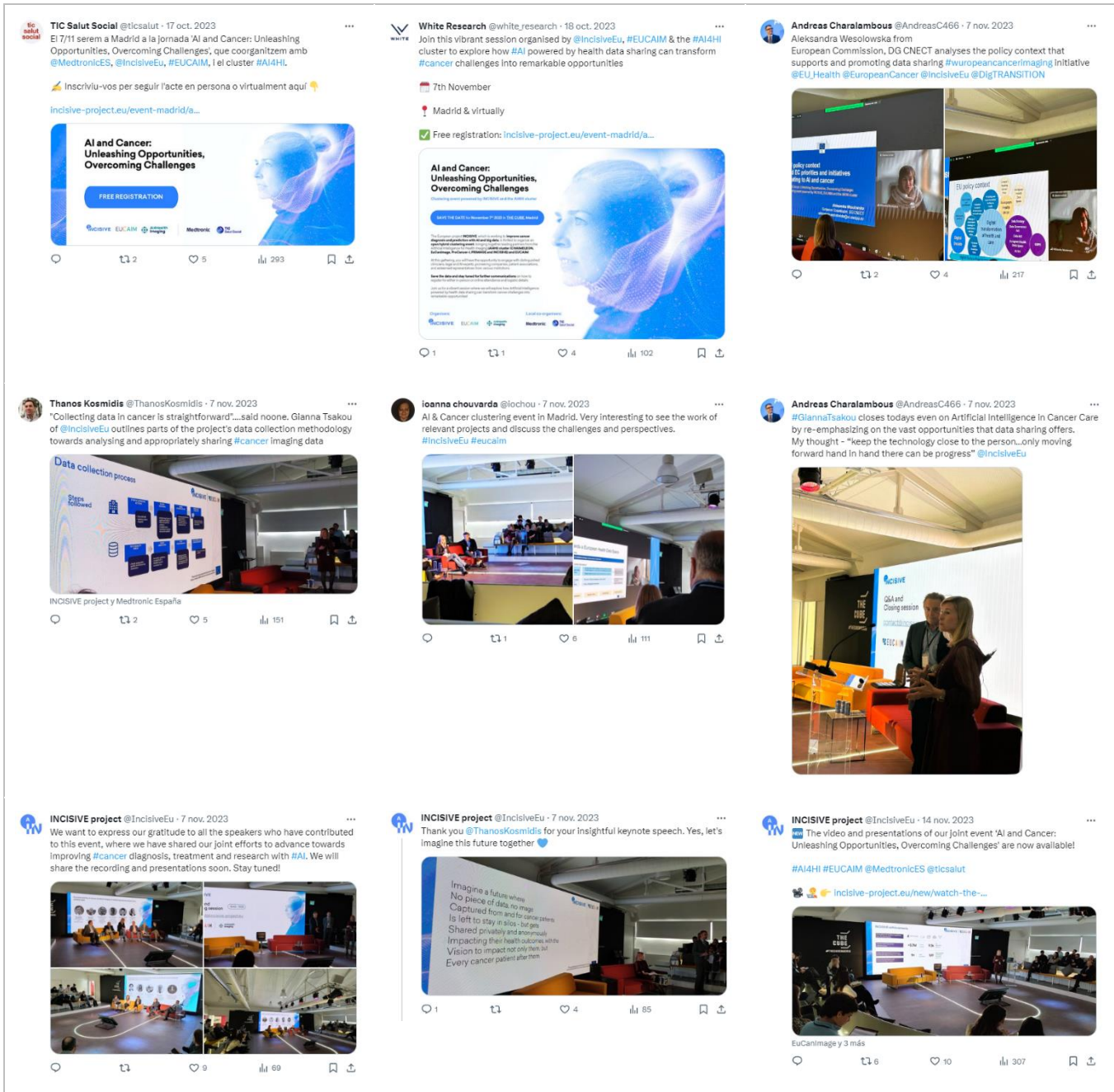


Figure 7: X posts shared by the INCISIVE project and various partners, offering a comprehensive timeline of updates before, during, and after the event.

POST-EVENT INITIATIVES



The conclusion of the event marked the beginning of post-event initiatives aimed at maintaining momentum and ensuring accessibility. A mailing address was provided to facilitate the gathering of audience questions, fostering ongoing engagement. The recorded event, thoughtfully segmented into sections, found a permanent home on INCISIVE project's [YouTube channel](#). Additionally, a [web release](#) ensured that the insights and discussions remained accessible to a wider audience beyond the event's conclusion..

KEY ACHIEVEMENTS AND LEARNINGS

Madrid's clustering event builds on the successes of Belgrade, refining strategies for speaker identification, language standardization, and sound testing. Key achievements are also highlighted, including diverse stakeholder engagement, surpassing KPI targets, and achieving global reach through a hybrid attendance model.

- Key considerations from previous clustering event in Belgrade:
 - **Speaker Identification:** All speakers wore badges for clear identification (name and company), enhancing attendee engagement and recognition.
 - **Language Standardization:** The entire event was conducted in English to ensure universal understanding, prioritizing language consistency for effective communication.
 - **Preventive Sound Testing:** Sound tests were conducted the day before the event to proactively address potential live sound issues, ensuring a seamless experience.
 - **Networking Session Enhancement:** A dedicated networking session was incorporated at the event's end, fostering meaningful discussions about the future of projects and encouraging collaboration.

- Key achievements:
 - **Diverse Stakeholder engagement:** One of the key achievements of the Madrid clustering event was the successful engagement of a diverse array of stakeholders, including prestigious hospitals at both the national and European levels, research centers, public administration officials, leading companies in the industry, and more.
 - **Speakers panel excellence:** An integral achievement of the Madrid clustering event was the remarkable diversity within the speakers' panel. Featuring professionals from various domains, including accomplished physicians, legal and

AI experts, industry leaders, doctors and representatives from esteemed institutions, the panel underscored the event's inclusive approach. Behind each session, extensive collaboration between speakers and organizers unfolded through multiple meetings, guiding the brainstorming process. This collective effort played a crucial role in shaping discussion topics, dynamics, and the overall effectiveness of the sessions.

- **Boosting KPI target:** The engagement strategy, aligned with project objectives, led to a significant turnout of institutions that genuinely demonstrated interest in advancing the project's goals. This represented a significant push towards achieving the KPI of garnering interest in cancer image donations from 40 institutions.
- **Global reach through blended attendance:** The hybrid nature of the event, with both online and in-person participation, facilitated a global reach. The event attracted 240 professionals from more than 20 different countries, breaking geographical barriers and allowing a diverse international audience to join the conversation.

For additional insights and visual materials related to the Madrid clustering event, ANNEX 2 offers a compilation of event photographs, the event leaflet, rollup details, and more.

3.2 Activities promoted together with the AI4HI cluster

The AI4HI cluster is made up of five collaborative projects funded under the AI for Health Imaging action of the European Union’s Horizon 2020 research and innovation programme: [Chaimeleon](#), [EuCanImage](#), [ProCancer-I](#), [Incisive](#) and [Primage](#). The cluster gathers over 100 institutions, from universities to companies, from all European regions and several non-EU partners. INCISIVE partners have participated in the following activities or initiatives related to the cluster:

Table 1. Activities promoted together with the AI4HI cluster.

1. AI4HI Clustering meetings	
Activity type	Meeting
Date	As of beginning of 2021. Regularly (weekly, monthly, bimonthly)

Location	Online
Target audience	Consortium partners of all the AI4HI projects
Description	<p>Nine working groups were set up among the AI4HI projects and meet regularly to discuss common approaches, regarding, among others, development, metadata models, storage, validation, clinical pilots.</p> <p>This activity has already led to common papers, while more articles are on the way, and plans are made for a book.</p>
Link	N/A
2. Big data and artificial intelligence in cancer imaging	
Activity type	Joint Workshop
Date	July 27 th , 2021
Location	Online
Target audience	Scientific community, with a result of 40 participants
Description	<p>Joint workshop with all AI4HI projects that provided a detailed report of the challenges identified so far, by the funded project in the domain by the European Union; it presented current approaches towards consensus building and critically discuss alternatives. Particular emphasis was given to the issues related to the evaluation of AI-based diagnostic imaging algorithms including robustness, trust and explainability.</p>
Link	https://incisive-project.eu/event/ieee-bhi-bsn-conference/
3. EuCanImage 1st Webinar	
Activity type	Webinar
Date	November 17 th , 2021
Location	Online

Target audience	Scientific community. 35 participants attended the event
Description	It was an event organised by the European Society on Oncologic Imaging in the framework of the EuCanImage project, under the topic “Obstacles and avenues for data sharing and AI in cancer imaging”. INCISIVE’S coordinator, Gianna Tsakou from MAGGIOLI group, presented the project’s perspective and discussed work done so far as well as common challenges for all projects addressing cancer imaging data sharing and AI development in the panel session entitled “Technical and organizational obstacles and solutions for secure data platform in cancer imaging”. Additionally, Magdalena Kogut-Czarkowska from TIMELEX (the INCISIVE partner focusing on legal issues), presented INCISIVE’s perspectives in the panel session entitled “Ethical and legal governance for data sharing & AI in cancer imaging”.
Link	https://www.youtube.com/watch?v=1OTA1gU42Vw
4. AI4HI Exploitation clustering meetings	
Activity type	Meeting
Date	As of beginning of 2022
Location	Online
Target audience	Partners of all AI4HI projects, relevant to dissemination and exploitation
Description	Establishment of an Exploitation working group within the AI4HI cluster.
Link	N/A
5. Webinar for the eHealth Stakeholder Group on the Cancer Imaging Initiative	
Activity type	Joint Workshop
Date	January 12 th , 2022
Location	Online
Target audience	The eHealth Stakeholder Group

Description	Gianna Tsakou (INCISIVE coordinator) was invited as a speaker to the webinar ‘Cancer imaging infrastructure – opportunities and challenges of a common approach’, organized by the European Commission for the eHealth Stakeholder Group. During the webinar, all the coordinators of projects on AI4HI organized a discussion on the challenges and a possible common approach towards an EU-wide cancer imaging data infrastructure. On behalf of INCISIVE, Tsakou presented the common challenges that this massive infrastructure brings, focusing on relevant topics that are being addressed within the project: legal and ethical issues, data interoperability, image heterogeneity and annotation, data storage and sustainability.
Link	https://incisive-project.eu/new/what-are-the-opportunities-and-challenges-of-a-common-approach-towards-an-eu-cancer-imaging-infrastructure/
6. National Authority for Electronic Health and PASYKAF signed a Memorandum of Cooperation	
Activity type	Meeting
Date	March 3 rd , 2022
Location	Nicosia, Cyprus.
Target audience	Researchers and clinicians
Description	The presentation, prepared by PASYKAF, focused on common challenges and a possible common approach towards an EUwide cancer imaging data infrastructure. The memorandum of the National eHealth Authority and PASYKAF provides, inter alia, the promotion of joint programs, studies and research aimed at upgrading and improving e-health services provided to citizens, participation in research programs co-financed by the European Union and other research organizations. innovation, the exchange of views, experiences, data and information, as well as the provision of training by EAHY to PASYKAF executives on e-Health issues.
Link	N/A
7. Cyprus Patients' Associations Federation (OASAK) and PASYKAF meeting	

Activity type	Meeting
Date	March 4 th , 2022
Location	Nicosia, Cyprus.
Target audience	Researchers and clinicians
Description	The presentation, prepared by PASYKAF was about INCISIVE's principles and challenges and a possible common approach towards patients' needs.
Link	N/A
8. Trustworthy AI in Cancer Imaging Research	
Activity type	Symposium
Date	July 11-15 th , 2022
Location	Glasgow, UK.
Target audience	The scientific community
Description	Symposium under the 2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC 2022). Co-organisation of a symposium on Trustworthy AI in Cancer Imaging Research lead by INCISIVE (AUTH/MAG as co-organisers), with contributions from CHAIMELEON, EuCanImage and ProCancer-I.
Link	https://embc.embs.org/2022/
9. Building bridges: From Radiomics/AI research to clinical practice: the ProCancer-I vision	
Activity type	Workshop
Date	July 15 th , 2022
Location	Vienna, Austria.

Target audience	The scientific community, with 100 participants (radiology professionals, radiographers, physicists, industry representatives, and press reporters for both the medical and consumer press)
Description	Workshop under the 2022 European Society of Radiology (ESR) Congress organised by the European Society of Radiology. A workshop co-organized by the AI4HI coordinators with MAG as co-organiser, with contributions from all AI4HI projects. The ECR is one of the largest medical meetings in Europe and the second-largest radiological meeting in the world.
Link	https://incisive-project.eu/new/incisives-participation-at-the-european-congress-of-radiology-2022/
10. Developing open, standard-based, interoperable Cancer Imaging Repositories in Europe: Issues, Experiences and Challenges	
Activity type	Workshop
Date	September 27 th , 2022
Location	Ioannina, Greece.
Target audience	The scientific community, with 100 participants.
Description	Workshop under the 2022 IEEE BHI-BSN Conference. Co-organisation of a workshop by the AI4HI coordinators with MAG as co-organiser, with contributions from all AI4HI projects. The IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI) and the IEEE International Conference on Wearable and Implantable Body Sensor Networks (BSN) provided a unique forum to showcase enabling technologies of devices and sensors, hardware and software systems, among others.
Link	https://bhi-bsn-2022.org/
11. EuCanImage 2nd Webinar: ‘Obstacles and avenues for data sharing and AI in cancer imaging’	
Activity type	Webinar
Date	November 17 th , 2022

Location	Online
Target audience	Scientific community
Description	<p>The second EuCanImage webinar covered topics on 'Introduction/Update to EuCanImage', 'Caring', 'Handling', 'Annotation', and 'Sharing'. Two INCISIVE's partners participated in the webinar: Magdalena Kogut from Timelex, in the legal panel session, and Ioanna Chouvarda from the Aristotle University of Thessaloniki, in the technical panel.</p> <p>This was a joint webinar together with the AI4HI project EuCanImage, the European Society of Oncology Imaging (ESOI) and the European Association for Cancer Research (EACR).</p>
Link	https://www.youtube.com/watch?v=1OTA1gU42Vw
12. Future AI Initiative	
Activity type	Meeting
Date	2021 & 2022
Location	Online
Target audience	Partners of Future AI project
Description	<p>International, multi-stakeholder initiative for defining and maintaining concrete guidelines that will facilitate the design, development, validation and deployment of trustworthy AI solutions in medicine and healthcare based on six guiding principles: Fairness, Universality, Traceability, Usability, Robustness and Explainability. The FUTURE-AI assessment checklist consists of concrete and actionable questions that will guide developers, evaluators, and other stakeholders in delivering medical AI tools that are trustworthy and optimised for real-world practice. INCISIVE is one of the current projects related to this initiative.</p>
Link	https://future-ai.eu/
13. European Congress of Radiology	

Activity type	Conference - Presentation in an AI4HI-dedicated session
Date	March 1 st -5 th , 2023
Location	Vienna, Austria
Target audience	Scientific community
Description	The European Congress of Radiology is one of the largest medical meetings in Europe and the second-largest radiological meeting in the world. In the 2023 edition, the congress welcomed 17262 participants from 122 countries, gathering doctors, physicians, medical imaging professionals and industry leaders, among others. INCISIVE's coordinator, Gianna Tsakou, presented INCISIVE in the session 'Paving the way for a European infrastructure for AI for health imaging', in which all AI4HI projects were also featured. Additionally, Maria Lelegianni from the Aristotle University of Thessaloniki participated in a session with the talk 'Generation of a breast imaging repository and an AI breast imaging toolbox by INCISIVE 2020'.
Link	https://connect.myesr.org/?esrc_course=paving-the-way-for-a-european-infrastructure-for-ai-for-health-imaging
14. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference	
Activity type	Conference
Date	24th-27th July 2023
Location	Sydney
Target audience	Scientific Community
Description	This conference dedicates itself to helping the biomedical engineering community achieve its goals, by gathering academics, clinicians, industry, students and researchers in the biomedical engineering and the Medtech community. This year's theme was 'Engineering Better and More Resilient

	Healthcare for All’. Representatives of the AI4HI cluster and the EUCAIM project organized the mini-symposium ‘The European Cancer Imaging Initiative – Status, Challenges and Opportunities’. Susanna Aussó, from TIC Salut Social Foundation, participated on behalf of the INCISIVE project with a lecture on Explainable AI
Link	https://incisive-project.eu/new/ai4hi-projects-shared-in-australia-their-efforts-toward-building-european-cancer-imaging-repositories/
15. IEEE Engineering in Medicine & Biology Society:	
Activity type	Symposium
Date	7th-9th December, 2023
Location	Malta
Target audience	Scientific Community
Description	The ProCancer-I Consortium organised a mini symposium under the scope Data Engineering in Cancer. The conference aimed to highlight and discuss the challenges and opportunities of Data Science innovations in healthcare, medicine and biology, and how these innovations can be translated into cutting-edge healthcare and biomedical engineering curricula. Olga Tsave, INCISIVE partner from the Aristotle University of Thessaloniki, presented the session ‘Data Validation in Cancer Imaging Repositories: The INCISIVE Approach’
Link	https://incisive-project.eu/event/ieee-embs-international-conference-on-data-science-and-engineering-in-healthcare-medicine-biology/
16. European Congress of Radiology 2024 - Artificial intelligence (AI) for health imaging: pioneering cancer image repositories for diagnosis and analysis	
Activity type	Conference – INCISIVE Presentation in an AI4HI-dedicated session
Date	February 29 th , 2024
Location	Vienna, and online
Target audience	Radiologists

Description	EIBIR is hosting a dedicated session on the AI for Health Imaging projects at ECR 2024. The session is chaired by Luis Marti-Bonmati and Involves the CHAIMELEON, EuCanImage, INCISIVE, and ProCancer-I projects as well as outlook in the integration of their project results into EUCAIM.
Link	https://connect.myesr.org/course/artificial-intelligence-ai-for-health-imaging-pioneering-cancer-image-repositories-for-diagnosis-and-analysis/
17. European Congress of Radiology 2024 - EUCAIM at the forefront: innovating radiology with Europe's cancer image infrastructure for artificial intelligence (AI)	
Activity type	Meeting
Date	March 2 nd , 2024
Location	Vienna and online
Target audience	Radiologists
Description	EIBIR hosts an event where the importance of a project like EUCAIM is highlighted, emphasizing its significance in the development of Europe's cancer image infrastructure for artificial intelligence. To learn the basis of this leading European hub for the cancer research community and AI innovation, appreciate the relevance of unifying fragmented and temporally limited datasets into an extensive Atlas of Cancer Images...
Link	https://connect.myesr.org/course/eucaim-at-the-forefront-innovating-radiology-with-europes-cancer-image-infrastructure-for-artificial-intelligence-ai/
18. Research to Reality - Digital Solutions to European Challenges	
Activity type	Conference
Date	5th February, 2024
Location	Brussels
Target audience	Scientific Community

Description	INCISIVE’s coordinator, Gianna Tsakou, was one of the invited panelists by the European Commission for the session ‘AI serving Healthcare’ which took place on Monday 5 February and focused on how advanced digital tools, in particular data, AI, visualisation and new hardware, are benefiting patients, hospitals, intermediaries and governments
Link	https://incisive-project.eu/new/incisive-insights-inform-discussion-panel-organized-by-the-ec-and-the-belgian-presidency-on-ai-serving-healthcare/
19. Awareness event on INCISIVE and TRANSITION EU funded projects	
Activity type	Meeting
Date	27th February, 2024
Location	Cyprus
Target audience	Scientific Community
Description	The Cyprus University of Technology organized a hybrid event to delve into the INCISIVE and TRANSITION EU funded projects, exploring their impact and significance. Synergies and possible future collaborations and exploitation of the projects’ outcomes were also explored. The event aimed to foster dialogue and understanding around these innovative initiatives, driving forward progress and collaboration in our community
Link	https://incisive-project.eu/wp-content/uploads/2024/02/CUT_1914_INV_INCISIVE-TRANSITION.pdf
20. Technology and clinical practice during the new era of Radiotherapeutic Oncology	
Activity type	Conference
Date	2nd March, 2024
Location	Athens
Target audience	Scientific Community / Cancer Patients

Description	The Hellenic Cancer Society, in collaboration with the 2nd Radiation Oncology Clinic of the Metropolitan Hospital, organized the Scientific Conference ‘Technology and clinical practice during the new era of Radiotherapeutic Oncology’. Dr. Dimitris Nasikas, INCISIVE partner from the Hellenic Cancer Society, presented INCISIVE in his session ‘AI and big data. HCS role in EUCAIM and INCISIVE’.
Link	https://incisive-project.eu/event/technology-and-clinical-practice-during-the-new-era-of-radiotherapeutic-oncology/
21. 13th Scientific Congress of the School of Medicine at Aristotle University of Thessaloniki	
Activity type	Conference
Date	6 th March, 2024
Location	Thessaloniki
Target audience	Scientific Community
Description	As part of the congress, the AUTH team, led by Professor Chouvarda, organized a workshop entitled "Unveiling Advanced AI Models for Cancer Research using Pan-European repositories." During the workshop, the AUTH team presented the INCISIVE project and specifically the work conducted by AUTH. The workshop agenda included introductory presentations about INCISIVE and EUCAIM, the INCISIVE data repository, the radiomics analysis and machine learning applications in cancer research, and the INCISIVE platform, among others.
Link	https://www.medevents.gr/congress/medept24
22. High-level Conference ‘BEACON: Mobilising Collaboration among Stakeholders to Optimise the Growing Potential of Data for Tackling Cancer’	
Activity type	Meeting
Date	6th May, 2024

Location	Warsaw
Target audience	European Stakeholders
Description	This event is a part of an EU funded project entitled ‘CanHeal’ as well as BEACON. The purpose of the meeting is to get key input from stakeholders as well as policy makers to ensure that the implementation of the EU beating Cancer plan meets their needs. A core objective of the stakeholder event is to assess and address obstacles to the integration to improve the capacity and capability of tackling cancer through public-private partnerships; to identify best practices and their added value; and to develop a policy roadmap to support funding so as to bring ‘Access and Diagnostics for All’ as well as improve the capacity of the Cancer center. INCISIVE’s coordinator, Gianna Tsakou, will present an overview of the project as well as suggest a way forward on how the EU could incentivise such frameworks at the national and regional level
Link	https://canheal.eu/ https://www.ieo.it/beaconproject/

3.3 Participation in other EU-funded projects’ events

Table 22. Events related with EU-funded projects and participated by INCISIVE partners.

Event	Date	Description
EUHealth Event - The EU4Health Program and the European Cancer Action Plan: Challenges and Prospects	April 2 nd , 2021	Online. PASYKAF participated in this webinar and Mr. Nicolas Philippou, our Executive Director developed the topic "People with cancer experience in Cyprus: Action plan and Cypriot reality". Mr. Philippou referred to the way the Association operates, presented the challenges we face and the PASYKAF's role in INCISIVE and what are the program's challenges.

		The target audience were Policy makers, and 250 people attended the event.
INCISIVE's DICOM de-identification approach and tools used in the project	June 28 th , 2021	<p>Online.</p> <p>Meeting with the InterEHRoperate project to inform them about INCISIVE's DICOM de-identification approach and tools used in the project.</p> <p>Target: the scientific community, with 10 participants.</p>
Webinar 'Deploying FHIR: How to co-engage public and private players?'	May 12 th , 2022	<p>Sara Martínez from TIC Salut Social presented the work with HL7 FHIR in INCISIVE.</p> <p><u>ETHEL</u>, which is a multi-stakeholder organisation within Europe that brings together organisations and individuals engaged in all aspects of eHealth, organized this webinar to provide the perspective of both industry and public authorities on the question of integrating and managing FHIR. It also explored the different business and incentivisation models, which have been implemented across Europe to enforce compliance from industry players to emerging new standards.</p>
<i>EC Workshops – Landscaping data driven projects and initiatives in the cancer field – rationale and directions for better collaboration and integration</i>		
1st EC Workshop 'Introduction and landscaping of data-driven projects in cancer'	October 26 th , 2023	During the workshop session, EC services introduced EC priorities such as EBCP, Cancer Mission, EHDS, among others. Following this introduction, projects' pitch presentations were delivered, utilizing information provided in the survey. A comprehensive discussion ensued with all participants, aiming to complete the landscape of the current initiatives. Ultimately, consensus was achieved on three topical areas within cancer data that necessitated in-depth follow-up.
2nd EC Workshop 'Discussion on cancer data topics requiring	November 15 th , 2023	The workshop aimed to facilitate discussions on cancer data topics that necessitated coordination and support. This objective was achieved through three topical discussions, each co-moderated by representatives from EC services and project/infrastructure entities. These discussions provided a

coordination & support'		platform for participants to explore specific areas within cancer data, identifying key challenges and opportunities for collaborative efforts.
3rd EC Workshop 'Reflection on future collaboration and support actions'	December 5 th , 2023	The workshop focused on reflecting on future collaboration and support actions. Participants actively contributed to discussions aimed at addressing specific topical areas requiring coordination and support. Concrete steps were discussed for enhancing collaboration and/or focused EU support within these areas

3.4 Most impactful dissemination activities throughout the project

The most impactful events are:

- **The 'AI in Cancer: Unleashing Opportunities, Overcoming Challenges' workshop held in Madrid on November 7th, 2023**, as described in chapter 2.1.2.

The following events have been listed in chapter 2.1 and in DEL9.6.

- **The "Health data sharing and AI in cancer imaging – empowering AI-driven solutions for cancer diagnosis, treatment and follow-up" event held in Belgrade on November 17th and 18th, 2022**, is fully detailed in section 2.1.
- The event titled **"Research to Reality – Digital Solution for European Challenges"** featured Gianna Tsakou, INCISIVE’s coordinator, as one of the invited panelists by the European Commission. This session, named 'AI serving Healthcare', was held on Monday, February 5th, and concentrated on the benefits of advanced digital tools, including data, AI, visualization, and new hardware, for patients, hospitals, intermediaries, and governments. This event is fully detailed at position 18 of the 2.2 section of this deliverable titled "Research to Reality – Digital Solution for European Challenges".
- The **45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference in Sydney** aimed to support the biomedical engineering community by bringing together academics, clinicians, industry professionals, students, and researchers in the biomedical engineering and Medtech fields. This event is fully detailed at position 14 of the section 2.2 of this deliverable. The detailed account likely provides information on the conference agenda, the topics discussed during the mini-symposium, the content of Susanna Aussó's lecture on Explainable AI, and its relevance to the overarching theme of the conference.

- **European Society of Radiology Conferences (ECR 2022 and ECR 2024):** The ECR is one of the largest medical meetings in Europe and the second-largest radiological meeting in the world. ECR attendees span all areas of the radiology arena including: radiology professionals, radiographers, physicists, industry representatives, and press reporters for both the medical and consumer press. Raising Awareness Campaigns and results This event is fully detailed at positions 13 and 17 of the section 2.2 of this deliverable.
- **EC Workshops ‘Landscaping data driven projects and initiatives in the cancer field – rationale and directions for better collaboration and integration’:** online, 26th October, 15th November and 5th December, 2023. Detailed in the Participation in other EU-funded projects’ events section.

3.5 Letter of intent (LOI) to promote data sharing

A **Letter of Intent (LOI)** serves as a non-binding document expressing the willingness of parties to engage in a particular activity or collaboration. In the context of the INCISIVE project, the LOI is a crucial tool in fostering engagement with external institutions for sharing data under the INCISIVE Data Sharing Agreement framework. The primary objective is to align with Key Performance Indicator 3 (KPI3) of the project, aiming to achieve the involvement of 40 interested institutions willing to contribute their images. The shared LOI is found in ANNEX 1.

Expectations and Objectives

The LOI plays a pivotal role in initiating a relationship with potential collaborators. It outlines the project's goals, emphasizes the non-binding nature of the document, and highlights the mutual benefits of collaboration. From the institutions, the expectation is to express interest in participating in the INCISIVE Data Sharing Agreement, indicating a potential contribution of valuable data to the project. This aligns with the broader goals of the European Health Data Space (EHDS) and adheres to GDPR requirements.

Alignment with KPI3

KPI3 sets an ambitious target of involving 40 institutions in sharing data with INCISIVE. While challenging, this aligns with the project's strategy to gain widespread engagement. The distribution of the LOI serves as a key component of this strategy, acting as a catalyst to garner interest and participation from external parties.

Dissemination Strategy

The strategy for disseminating the LOI involves a multi-faceted approach. Taking advantage of the clustering event organized in Madrid, the project aimed to reach all registered institutions (30

institutions in total), particularly focusing on hospitals and research centers that attended the event, signaling a pre-existing interest in the project. A follow-up strategy, including reminders, was implemented to further encourage participation.

Additionally, the collaborative network within the AI4HI cluster played a crucial role. The LOI was shared not only among the project's own Data Providers but also with the Data Providers of the CHAIMELEON project. This collaboration between INCISIVE and CHAIMELEON, both contributing to the success of EUCAIM, exemplifies the strength of partnerships within the AI4HI cluster.

Furthermore, we ensured the widespread visibility of the Letter of Intent (LOI) by publishing it on INCISIVE website, newsletter and across various social media platforms. This approach aimed to maximize the reach of the LOI to our target audience, including registered institutions, hospitals, research centers, and stakeholders within the AI4HI cluster. By utilizing the online presence of our website and social media channels, we aimed to generate significant interest and engagement with the project. This proactive approach facilitated broader awareness and encouraged active participation in the initiative.

Apart from disseminating this initiative throughout different channels we also offered to hospitals the chance to be part of emerging networking opportunities and formal research communities through the INCISIVE LoI. Hospitals, by signing the INCISIVE LoI, can contribute anonymized cancer images and clinical data, which will be integrated into the EUCAIM project's infrastructure. This participation not only provides hospitals with access to networking opportunities facilitated by the EUCAIM project but also allows them to join a broader research environment and operational community focused on cancer research.

Through this initiative, hospitals can engage in collaborative research endeavours targeting specific types of cancer, share research outcomes, and access cutting-edge IT tools for GDPR-compliant data reuse. This involvement ensures continued access to research results and fosters long-term collaborations in healthcare R&D, thereby advancing cancer research and treatment efforts.

Notable Achievements

An unexpected and highly encouraging outcome was the response from hospitals attending Madrid's event. Many not only expressed a willingness to sign the LOI but also showed keen interest in further discussions on collaboration with INCISIVE. This signifies a broader enthusiasm for contributing data and actively participating in the project. Such positive feedback is not only a testament to the effective dissemination strategy but also opens avenues for more profound collaboration in the future.

Although we achieved several LOI's signed by important hospitals and potential partners, it's important to highlight the reluctance of hospitals and data providers to sign a LOI. It often stems from several significant challenges inherent in sharing clinical records and images. Foremost among these challenges is the concern surrounding patient privacy and data security. Hospitals must ensure compliance with strict regulations such as GDPR to safeguard patient information, which adds complexity to the sharing process. Additionally, interoperability issues between different systems and formats hinder seamless data exchange, making it difficult for hospitals to integrate their data with research projects like INCISIVE. Moreover, there are concerns about the potential misuse or misinterpretation of shared data, leading to legal and ethical dilemmas for hospitals. These factors contribute to a general apprehension among hospitals and data providers, highlighting the need for robust privacy measures, standardized protocols, and clear guidelines to address these challenges and foster greater collaboration in healthcare data sharing initiatives.

The European Health Data Space (EHDS) presents a promising opportunity to overcome the barriers faced by hospitals and data providers in sharing clinical records and images. Firstly, EHDS offers a standardized framework and guidelines for data sharing, ensuring compliance with regulations like GDPR while promoting interoperability between different healthcare systems and formats. By adhering to EHDS protocols, hospitals can streamline the process of integrating their data into large-scale research projects like INCISIVE, reducing administrative burden and mitigating legal and ethical concerns.

Moreover, EHDS facilitates the creation of a collaborative ecosystem wherein hospitals and data providers can securely share information with trusted partners while maintaining control over access and usage rights. This enables greater transparency and accountability in data sharing practices, fostering trust among stakeholders. Additionally, EHDS promotes innovation by providing access to cutting-edge technologies and tools for data analysis, allowing hospitals to derive valuable insights from shared clinical data while ensuring compliance with privacy regulations.

Main results

As a summary, we have constructed a table with the involved parties that have signed the letter of intent and showed interest in the project. We have categorized the partners based on the dissemination initiative they have been impacted by; additionally, we have included the signed LOIs in Annex 4:

Table 3. Signed letter of intent

Name of the institution	Department	Country
Coming from the events		
Hospital clinic	Biomedicine - Genetic and Urological Tumors	Spain
Hospital Verge de la Cinta	Breast Cancer	Spain
Hospital Universitario Ramón y Cajal	FIBioHRC	Spain
Charité University hospital Berlin	Radiology	Germany
Fundació Salut Empordà	Innovation	Spain
Data Providers		
German Oncology Center	Radiology	Germany
UNITOV	Diagnostic Imaging, Radiology, Interventional Radiology, Nuclear Medicine	Italy
Visaris	Radiology	Serbia
DISBA, University of Naples Federico II	Department of Advanced Biomedical Sciences	Italy
University of Athens	Radiology	Greece
Coming from the dissemination of the cluster		
Hospital Universitario La Fe de Valencia, HULAFE	Biomedical Imaging Group	Spain

Collège des Enseignants en Radiologie de France, CERF	Radiology	France
Sapienza University of Rome	Department of Medical-Surgical and Translational Medicine - Radiology	Italy
Coming through a data provider		
University of Novi Sad	Vojvodina Institute of Oncology	Serbia
UNS / MAGMEDICA	Radiology	Serbia
Coming through INCISIVE webpage		
Unidade Local de Saúde da Região de Aveiro	Radiology	Portugal

The total amount of signed LOI's is 16.

While the anticipated KPI outcome hasn't been met, we want to emphasize the significant number of registrations and attendees at the INCISIVE event in Madrid (chapter 2.1.2). While not an official validation of interest, it underscores the project's ability to garner interest among potential stakeholders.

3.6 General dissemination and communication activities

The INCISIVE project, under the umbrella of WP9, has developed useful communication tools about the project and conducted a wide range of C&D activities to create general awareness and share the project's key messages and results since the very beginning of the project.

On the one hand, the communication tools developed include the project's visual identity (logo, document and presentation templates), [website](#), social media channels ([Twitter](#), [LinkedIn](#) group and [YouTube](#)), [leaflet](#), external newsletter and internal tools for planning and monitoring (editorial calendar and Activity Report).

On the other hand, the C&D activities involve all the events in which the project has been mentioned or explained, the scientific publications of the project (both in peer-reviewed journals

or conference proceedings), and all the news, articles and press releases that the consortium and its partners have shared.

All the details and results of the C&D activities are thoroughly explained in deliverables D9.3. , D9.4 and D9.5.

The overall assessment of the C&D activities is very positive: we have participated in **more than 65 scientific and industrial events**, published **21 scientific articles** in peer-review journals and conference proceedings, shared **more than 45 news articles of interest** related to the project, and reached **wide visibility on social media channels**, with more than 60,000 impressions.

The participation of INCISIVE partners in C&D activities has been outstanding. They have made substantial contributions to WP9 by publishing scientific articles in peer-reviewed journals and conferences, engaging actively in external events, disseminating project-related content across multiple channels such as websites and social media, and effectively utilizing project materials. Additionally, their provision of valuable insights and feedback to WP9 has been pivotal.

In summary, we firmly believe that all the efforts made in this project have been effectively shared. We trust that this wealth of knowledge will continue to expand through initiatives like the EUCAIM project and other potential endeavors, thus benefiting future research aimed at enhancing cancer diagnosis and prediction using artificial intelligence and big data.

Table 4 4: C&D indicators expected for the end of the project and results achieved until the 31st of March 2024

Category	KPI	Value expected	Final results	Comments
<i>Website</i>	Number of visits at the project website	> 10.000 visitors	6.200 visitors	Not achieved due to the change in the cookies policy (see section 2.2)
	Average time	>1 min	3 min 46s sec	Achieved. We have surpassed the KPI by a wide margin.
<i>Social Media</i>	Followers on X	>200	221	Achieved. We also want to highlight the quality of our followers, who are mainly professionals and

				institutions working in cancer research, AI and big data.
	Twitter impressions	>50.000	+60.000	Achieved.
	Members on LinkedIn	>150	+150	Achieved with a community mainly working in cancer research, AI and big data.
Scientific publications	Number of scientific papers published	> 35 peer-reviewed scientific publications	23 published 12 under preparation	Not achieved yet. We will reach the number of publications after the project's end since several papers are still being reviewed, and many others are in earlier stages.
Presentations, synergies, and clustering events	Conference contributions	> 10 conference contributions	+65	Achieved. We have surpassed the KPI by a wide margin, including all the events in which INCISIVE partners have presented the project and/or its results.
	Presentations in international industrial events	Presentations of results at least in 10 international events	12	Achieved.
	External events and conferences	> 12 events/year > 3 booth participations in conferences	2021: 15 2022: 21 2023: 26 2024: 6 3 booth in conferences	Achieved.

	Synergies with major initiatives and networks.	10 joint actions	19	Achieved. Most of the synergies were created in joint events coorganized with the AI4HI cluster.
	INCISIVE clustering events	2 clustering events with the participation of at least 15 research initiatives	13	Achieved thanks to the joint events coorganized with the AI4HI cluster.
	1 workshop on pan-European health imaging repository	Targeting 100 participants	1	Achieved with the hybrid session ‘Cancer medical imaging repositories and their importance in research and clinical practice’, that took place during the workshop event in Madrid.
	1 final workshop	Targeting 100 participants	1	Achieved with the workshop event “AI and Cancer: Unleashing Opportunities, Overcoming Challenges’ that took place in Madrid.
	INCISIVE AI toolbox demonstrations webinars	>3 webinars	+4	Achieved.
Newsletters	Subscribers	>100	280	Significantly achieved with a community working in cancer research, AI and big data.
Leaflets	Number of leaflets distributed	>100	+350	Achieved.

<i>Press releases</i>	Number of press releases	3	2	After the project's end we will distribute a press release with the results, so we will achieve this KPI.
<i>News articles</i>	Number of articles on the project's webpage	>40	47	Achieved. We intend to publish additional articles after the conclusion of the project, including the press release.
<i>Media impacts</i>	Number of articles published in the media	>10	11	Achieved. We expect to have more media impacts with the final press release.
<i>Other</i>	Pan-European health imaging repository members	> 40 members (data providers)	16	Not achieved yet. We have started circulating the Letter of Intent for entities external to our consortium to become contributors to the INCISIVE Hybrid Repository recently, so we hope to increase this number after the project's end.
	Develop INCISIVE health professionals / industrial stakeholders' database	> 300 contacts	+300	Achieved. We have an extensive network of professionals and stakeholders that have participated with us in the C&D activities described in this document. We also have the list of recipients of our newsletter, with almost 300 subscribers.

4 Conclusions

The overall assessment of the clustering events and raising awareness campaigns is positive.

- INCISIVE conducted a large **event** on November 17th and 18th, 2022, in **Belgrade**, with the participation of more than 60 clinicians and researchers in the oncology and artificial intelligence fields, which was broadcasted in national TV channels.
- On the 7th of November, INCISIVE and other projects from the cluster AI4HI and EUCAIM conducted a **hybrid event in Madrid**, “[AI and Cancer: Unleashing Opportunities, Overcoming Challenges](#)”. A total of 150 individuals participated online, breaking down geographical barriers and allowing a global audience to engage with the discussions. Simultaneously, 70 participants, attended the event in person, creating a face-to-face collaboration.
- INCISIVE partners have co-organized or participated in several **clustering events** and webinars together with the Artificial Intelligence for Health Imaging (**AI4HI**) cluster. Also in smaller **workshops**, which are being delivered in parallel with greater events organized by external organisations.
- The results and synergies between AI4HI projects (INCISIVE among them) have enabled the launch of the EUropean Federation for CANcer IMages (**EUCAIM**), which has the potential to transform cancer diagnosis, treatment and management.
- A **letter of intent** has been developed with the purpose of engaging with external stakeholders and promote the data sharing in the context of the INCISIVE Hybrid Repository and broaden the network and research community within the cluster AI4HI and EUCAIM.
- The consortium has participated in multiple **dissemination activities to raise awareness** about project scope and results.

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ANNEX 1. Letter Of Intent (LOI)



A Multimodal AI-based Toolbox and an Interoperable Health Imaging Repository for the Empowerment of Imaging Analysis related to the Diagnosis, Prediction and Follow-up of Cancer

Letter of Intent for entities to become contributors to the INCISIVE Hybrid Repository

Grant Agreement n° 952179



[Date]

Dear Sir/Madam,

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Yours sincerely.

Signature of external entity (Name and Surname, and affiliated entity)

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ANNEX 2. Madrid clustering event visual materials

This annex outlines the dissemination material developed for the recent clustering event, including banners, leaflet, rollup and badges. It also catalogues event photographs, offering a visual documentation of the proceedings.

Banner

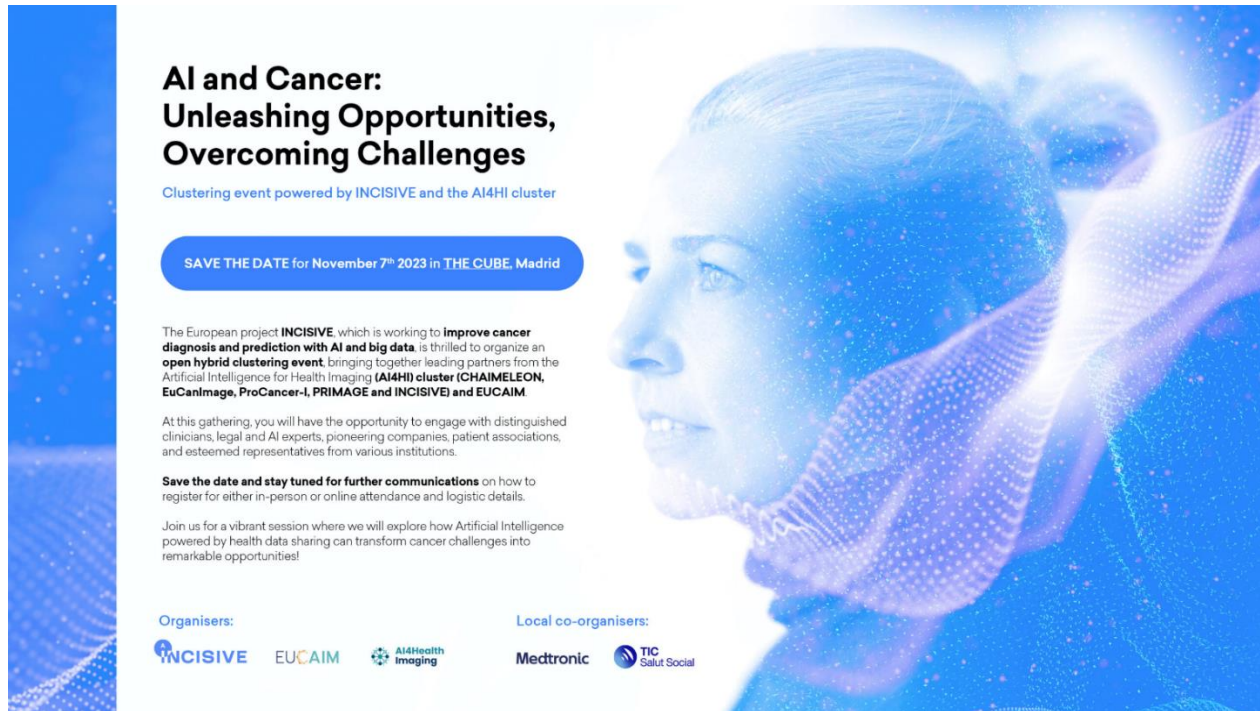


Figure 8. Banner featured on the event landing page, providing essential details of the event.

Leaflet

Organised by the dynamic collaboration between the INCISIVE project, the Artificial Intelligence for Health Imaging (AI4HI) cluster, and the EUCAIM project, the event will gather recognised experts to explore how Artificial Intelligence powered by health data sharing can transform cancer challenges into remarkable opportunities.

At this gathering, you will have the unique opportunity to engage with distinguished physicians, legal and AI experts, pioneering companies, patient associations, and esteemed representatives from diverse institutions.

AI4Health Imaging

The AI4HI cluster is made up of five EU projects: INCISIVE, Primage, Chaimeleon, EuCanImage and ProCancer-I. All these projects are working collaboratively towards developing big data infrastructures based on European, ethical and GDPR compliant, quality-controlled, cancer-related, medical imaging, and related patient's data platforms, in which both large-scale data and AI algorithms will co-exist.

The cluster's ultimate initiative is to launch the **EuCAIM** (European Federation for Cancer Images) project.

EUCAIM

The **EuCAIM** (European Federation for Cancer Images) project will ensure that all the big data repositories created by each of the AI4HI projects will become interoperable and more easily accessible to interested reusers of health data through a unique search facility. EUCAIM will also further harmonize practices, contribute to standards, ensure interoperability and in-fine, raise trust in data sharing, and advance in AI development in cancer imaging.

<https://cancerimage.eu/>



INCISIVE

The INCISIVE project seeks to create an AI-based toolbox to improve the effectiveness of cancer imaging. Focusing on **lung, colorectal, breast, and prostate cancers**, the project offers a multimodal AI toolbox and a European health imaging repository.

This repository will facilitate the ethical and secure sharing of data, supported by an automated Machine Learning annotation system. The goal is to enhance AI experimentation and promote widespread use of AI in cancer diagnosis and monitoring, utilizing diverse data sources like imaging and Electronic Health Records.

<https://incisive-project.eu/>



Figure 9. Leaflet distributed during the event, offering comprehensive information on the topic of the event and the European Projects involved. Leaflet's side 1.

PRIMAGE
Medical imaging
Artificial intelligence
Childhood cancer research

The PRIMAGE project aims to develop a cloud-based platform that aids in decision-making for the clinical management of **childhood cancers**, specifically Neuroblastoma (NB) and Diffuse Intrinsic Pontine Glioma (DIPG). This platform will use imaging biomarkers, in-silico tumor growth simulations, and machine learning to predict disease-specific clinical endpoints. Collaborating with top European pediatric oncology units and biobanks, the project will utilize both retrospective and prospective clinical data. The ultimate goal is to have a validated PRIMAGE platform that offers predictive tools for diagnosis, prognosis, treatment selection, and follow-up of NB and DIPG pediatric cancers.

<https://www.primageproject.eu/>

CHAIMELEON

CHAIMELEON aims to establish an EU-wide health imaging repository to aid AI experimentation in cancer management, focusing on **lung, prostate, and colorectal cancers**. This repository, built upon prior initiatives like the PRIMAGE, will contain multimodal imaging and clinical data, targeting around 40,000 cases. The project will utilize an analytical data engine for data interpretation and implement AI-driven processes for data handling, ensuring reproducibility and quality. Through extensive validation, including challenges for the AI community and early on-silico validation, CHAIMELEON seeks to confirm the repository's efficacy for enhancing AI tools in cancer treatment decision-making.

<https://chaimoleon.eu/>

EUCAN IMAGE

EuCanImage is developing a secure European cancer imaging platform to enhance AI capabilities in oncology. This platform will host data from over 25,000 subjects, enabling research into areas like small liver lesion detection and **breast tumor subtypes**. Additionally, the platform will connect to the European Genome-phenome Archive, facilitating the creation of AI solutions that combine organ-level, molecular, and clinical data to produce comprehensive patient-specific cancer profiles.

<https://eucanimage.eu/>

ProCancer-I

In Europe, **prostate cancer** is a major concern, with current diagnostic methods lacking precision. The ProCancer-I project aims to address this through advanced AI models. It involves 20 partners, including prostate cancer centers, AI leaders, and SMEs, who aim to create a secure European Image Infrastructure. This platform will contain the world's largest collection of anonymized prostate cancer MRI data (>17,000 cases) compliant with EU's GDPR. The project develops AI models for 8 clinical scenarios, emphasizing fairness, safety, explainability, and reproducibility, and seeks to establish a European regulatory roadmap for AI model certification.

<https://www.procancer-i.eu/>

Figure 10. Leaflet distributed during the event, offering comprehensive information on the topic of the event and the European Projects involved. Leaflet's side 2.

Badges



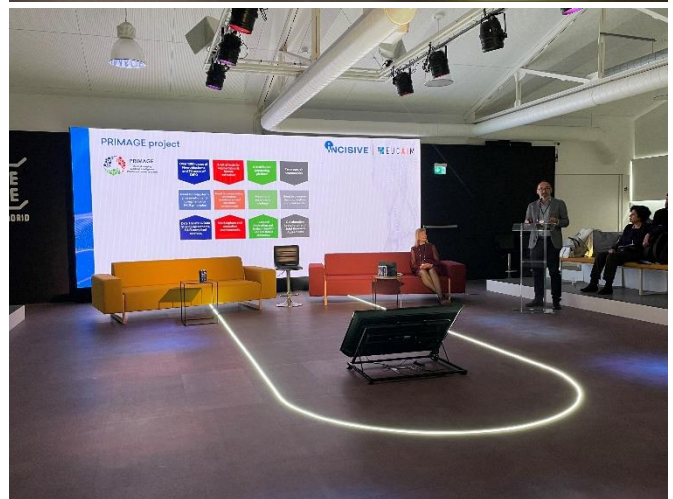
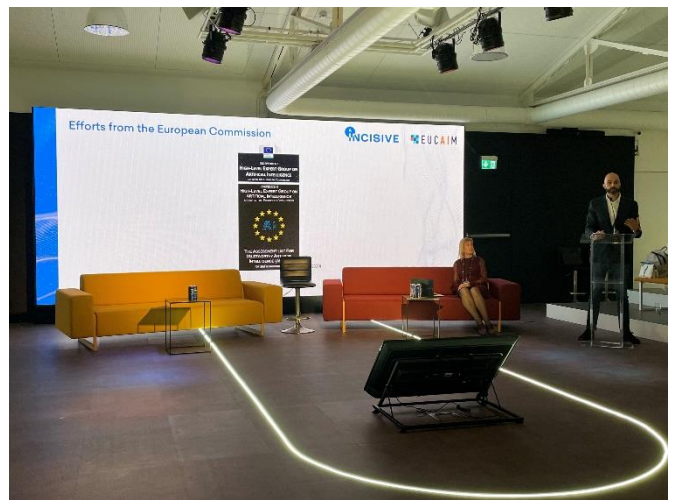
Figure 11. : Badges designed for accurate identification of event attendees, categorizing them into three types (speaker, organizer, and visitor) and featuring individual names, job positions, and affiliated companies.

Rollup



Figure 12 Rollup displayed at the entrance of THE CUBE premises.

Photos



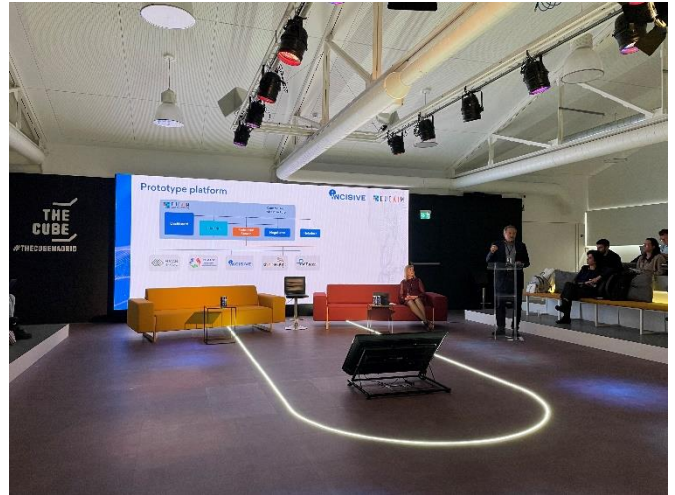
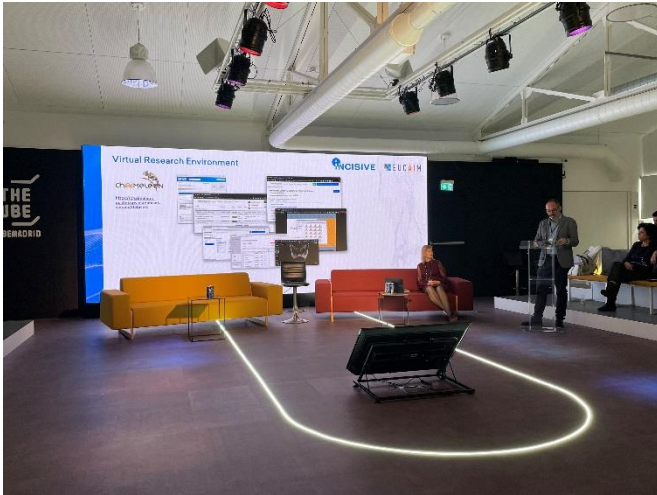




Figure 13. . Photographs capturing speakers during the event, documenting key moments and presentations

ANNEX 3. LOI dissemination initiatives

This annex aims to provide a summary of the initiatives that have been undertaken for the dissemination of the Letter of Intent. Among them are posts on the website and on social media platforms.

Web

<https://incisive-project.eu/new/incisive-seeks-support-from-hospitals-to-contribute-to-its-hybrid-repository-of-anonymized-medical-images/>

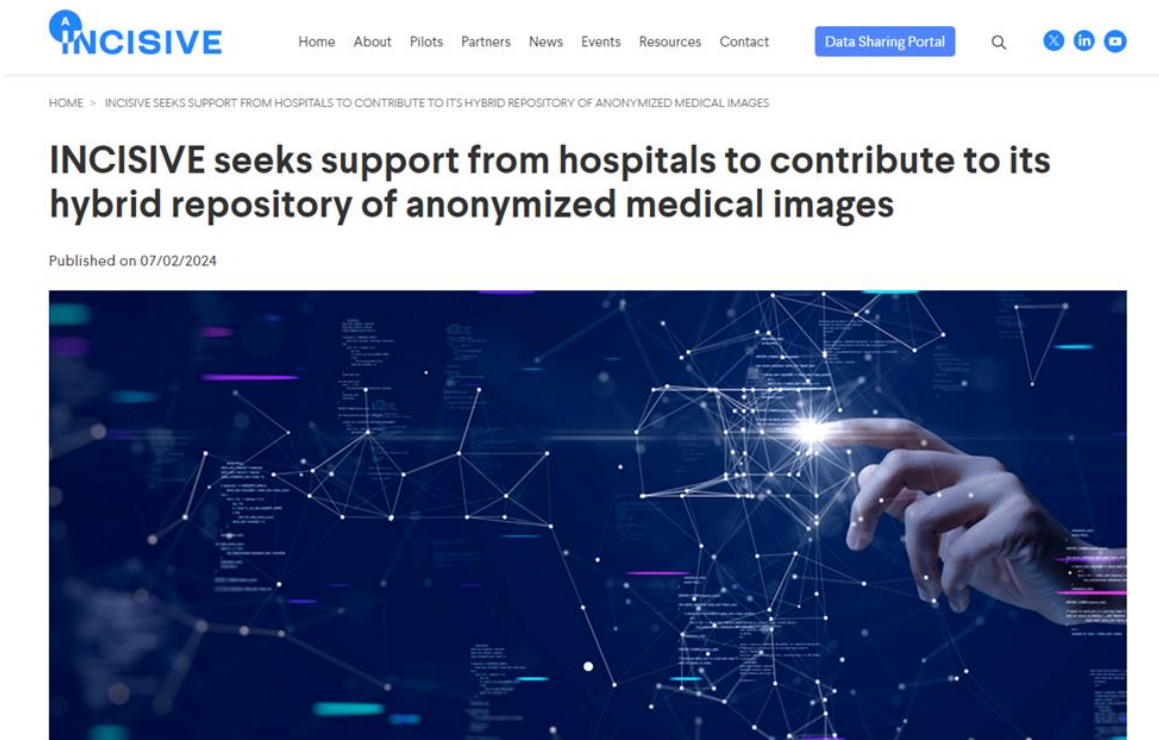


Figure 14. Web post.

Social Media

<https://twitter.com/IncisiveEu/status/1762760549807653047>

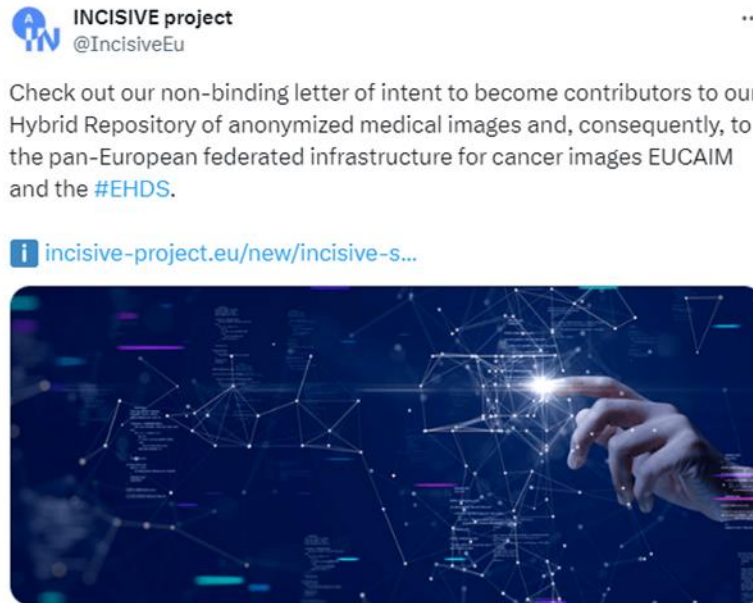


Figure 15. tweet 1

<https://twitter.com/IncisiveEu/status/1759835278636888294>

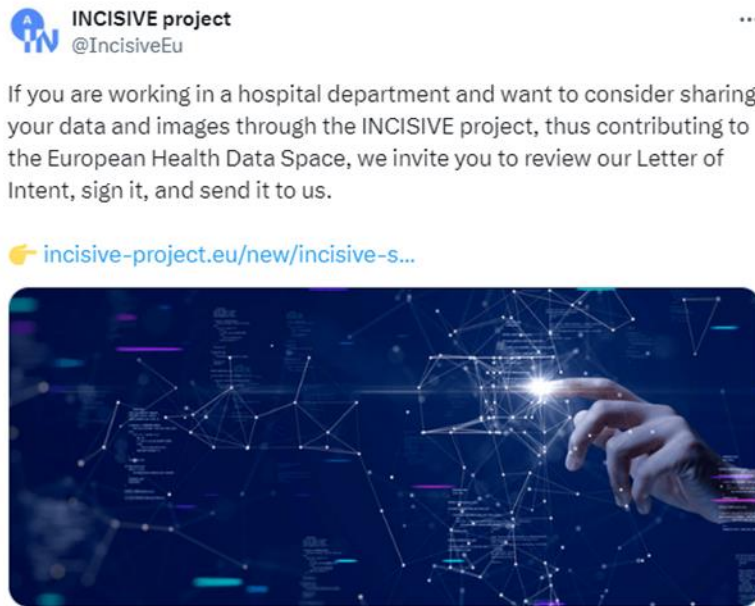


Figure 16. tweet 2.

<https://twitter.com/IncisiveEu/status/1755540169766101495>



Figure 17. tweet 3.

ANNEX 4. Signed LOIs :



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Yours sincerely,

44908140L
LAURA
BARREALES (R.
GB3726984)

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por 44908140L LAURA
BARREALES (R.
GB3726984)
Fecha: 2023.12.15
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Signature of external entity

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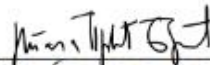
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prof. Nataša Prvulović-Bunović, PhD, radiologist
manager of Centre for Imaging Diagnostic
Vojvodina Institute of Oncology, Sremska Kamenica, Serbia

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Igor Njosek, MD, radiologist
cofounder MAG-MEDICA, radiology clinic, Novi Sad, Serbia

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Pr. Jean-Paul BEREGLI
Président du Collège des Enseignants en Radiologie de France (CERF)

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George Georgiades
Chief Operating Officer



Signature of external entity

LINAC-PET SCAN OPCO LTD

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 Digitally signed by
Tobias Penzkofer
Date: 2023.12.03
18:11:13 +01'00'

Signature of external entity

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Innovation technician. Fundació Salut Empordà (Spain)

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Maria José
Rallo Moya -
DNI
40927309M
(TCAT)

Signat digitalment
per Maria José
Rallo Moya - DNI
40927309M (TCAT)
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VENDRELL (R:
G43814045)

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por 39663032S JUAN
JOSE VENDRELL (R:
G43814045)
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By means of this letter, the undersigned entity expresses a commitment to support the INCISIVE's Hybrid Repository via the contribution of multimodal medical images available at their institution.

The reason why the INCISIVE consortium requests this support is because we sincerely believe that this project has the potential to create and implement a tangible change in European Healthcare systems and expand the scientific, medical and technological prowess of the European Union in the coming years.

Yours sincerely,

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Signature of external entity

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A Multimodal AI-based Toolbox and an Interoperable Health Imaging Repository for the Empowerment of Imaging Analysis related to the Diagnosis, Prediction and Follow-up of Cancer

Letter of Intent for entities external to the INCISIVE consortium to become contributors to the INCISIVE Hybrid Repository

Grant Agreement n° 952179



November, 2023

Dear Sir/Madam,

The INCISIVE project, funded by the Horizon Europe programme under the Grant Agreement 952179, is a four-year Research and Innovation Action that aims to develop a set of Artificial Intelligence methodologies, techniques and algorithms that, when applied to medical images of various origins (CT, MRI, PET, Mammograms...) are able to reliably detect the presence of prostate, colon, breast and lung tumours and cancers and provide information about the prognosis of the disease, state and malignancy among others.

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AGOSTINO CASTELLI
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Yours sincerely,



NIKOLAOS KELLIS
CHAIR OF THE 2ND
RADIOLOGY CLINIC
UNIVERSITY OF ATHENS

Signature of external entity (Name and Surname, and affiliated entity)

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Luis Curvo Semedo, ULS-R Aveiro

Signature of external entity (Name and Surname, and affiliated entity)

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Yours sincerely,



Alberto Cuocolo
Department of Advanced Biomedical Sciences
University of Naples Federico II

Signature of external entity (Name and Surname, and affiliated entity)

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ANNEX 5. Awareness event on INCISIVE and TRANSITION EU funded projects Visual Materials:

This annex presents photographs from the Awareness event on the INCISIVE and TRANSITION EU funded projects organized by the Cyprus University of Technology. The event aimed to explore the impact and significance of these projects, fostering dialogue and collaboration in the community. The photos provide a visual overview of the event's discussions, presentations, and activities, capturing its essence and participants' engagement in innovative initiatives.





