

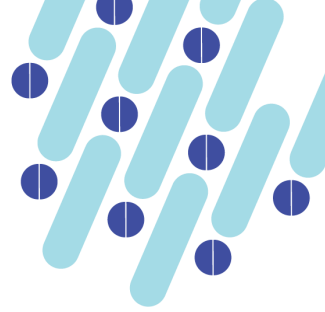
R6.3 Learning Activities, events & meetings

WORKPACKAGE 6: Dissemination



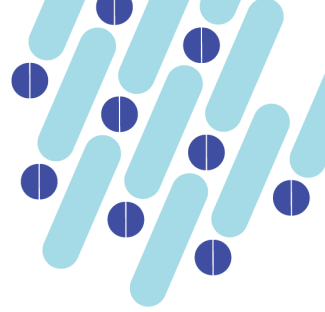
Artificial Intelligence, Innovation & Society, the future of medicine – AIIS

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Responsible Organization:	SciFY
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Submission Date	31/10/2023



DELIVERABLE FACTSHEET:

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Date of last version issued	31/10/2023
Contributor(s):	1.SciFY



CONSORTIUM:

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1.	Coordinator	University of Salamanca	USAL	Spain
2.	Partner	MARKEUT SKILLS SL	MEUS	Spain
3.	Partner	CIBER	CIBER	Spain
4.	Partner	UNIVERSITY OF MONS	UMONS	Belgium
5.	Partner	XEBIA	Xebia	Netherlands
6.	Partner	UNIVERSITY OF THESSALY	UTH	Greece
7.	Partner	SCIFY	SciFY	Greece
8.	Partner	TURKU UNIVERSITY OF APPLIED SCIENCE	TUAS	Finland

REVISION HISTORY:

VERSION	DATE	Revised by	Reason
1.0	31/10/2023	SCIFY	1 st Version

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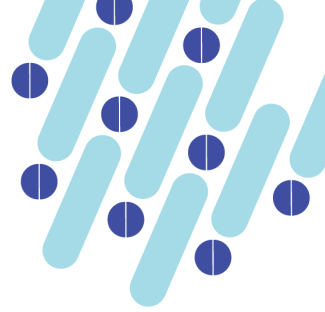
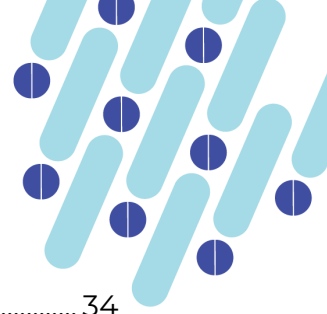
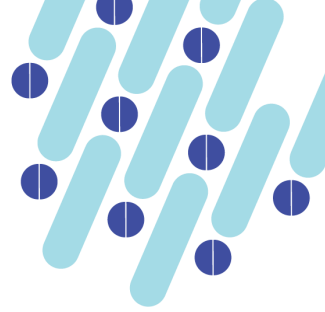


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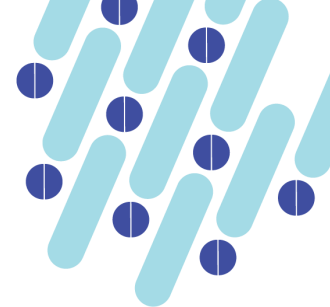


1 Participation in Events & Conferences

1.1 "Shape your future" Event (USAL, SP)

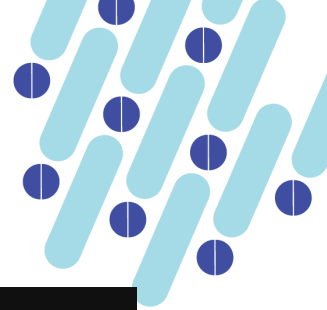
Activity description	Presentation of the AIS project to the consortium of the European Erasmus+ project "Shape your future". They were interested in learning about our project and sharing good practices. https://erasmus-plus.ec.europa.eu/projects/eplus-project-details#project/2020-2-RO01-KA205-080607
Date (dd-mm-yyyy)	28-03-2022
Partner	USAL
Type	Conference presentation
Dissemination level	EU
Place	Salamanca
Target groups	Colleagues involved in Erasmus+ projects
Activity number of participants	15





1.2 AIIS Dissemination in an online event (MEUS, SP)

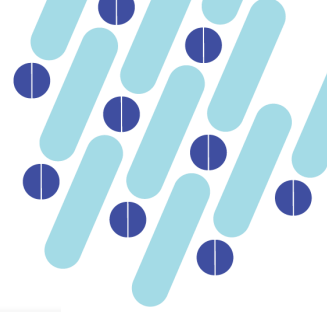
Activity description	-
Date (dd-mm-yyyy)	01-07-2021
Partner	MEUS
Type	Event
Activity number of participants	5



1.3 Attendance in AI Seminar (MEUS, SP)

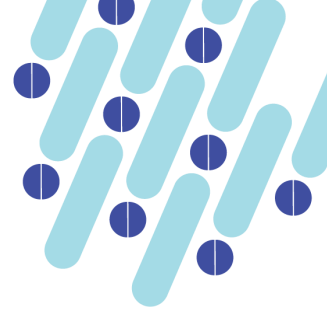
Activity description	1 person from MEUS staff attend a seminar related to Artificial Intelligence
Date (dd-mm-yyyy)	25-02-2022
Partner	MEUS
Type	Event
Place	Online
Activity number of participants	1





1.4 Attendance in a AI in Helathcare Event (Xebia, NL)

Activity description	Colleagues of Xebia (former GDD) attended sessions on AI & Healthcare at the Applied Machine Learning Days Conference in Switzerland in 29th of March 2022 https://appliedmldays.org/events/amld-epfl-2022/tracks/ai-healthcare
Date (dd-mm-yyyy)	29-03-2022
Partner	GDD
Type	Event
Place	Switzerland
Activity number of participants	1



1.5 Presentation of AIIS in an event (Xebia, NL)

Activity description	Xebia (former GDD) representative James Hayward presented AIIS on "BalticSeaBioMed kick-off meeting". More specifically as WP co-leader of the piloting he focused on the learning experience. The title of his presentation was "AIIS Project's example: student exercises online".
Date (dd-mm-yyyy)	30-05-2023
Partner	GDD
Type	Event
Dissemination level	Regional
Place	Institute of Biomedicine, University of Turku,
Activity number of participants	30



LTT /C2 meeting 30.5.-1.6. 2023

BalticSeaBioMed kick-off meeting
30.5.2023 at 10 –12



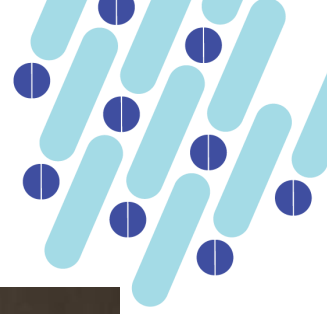
at the Institute of Biomedicine, University of Turku, street address: Kiinamyllynkatu 10, and Zoom:
<https://utu.zoom.us/j/67873411205>

Program

Tuesday 30.5.2023, all times in Finland's time zone (EEST, Eastern European Summer Time)

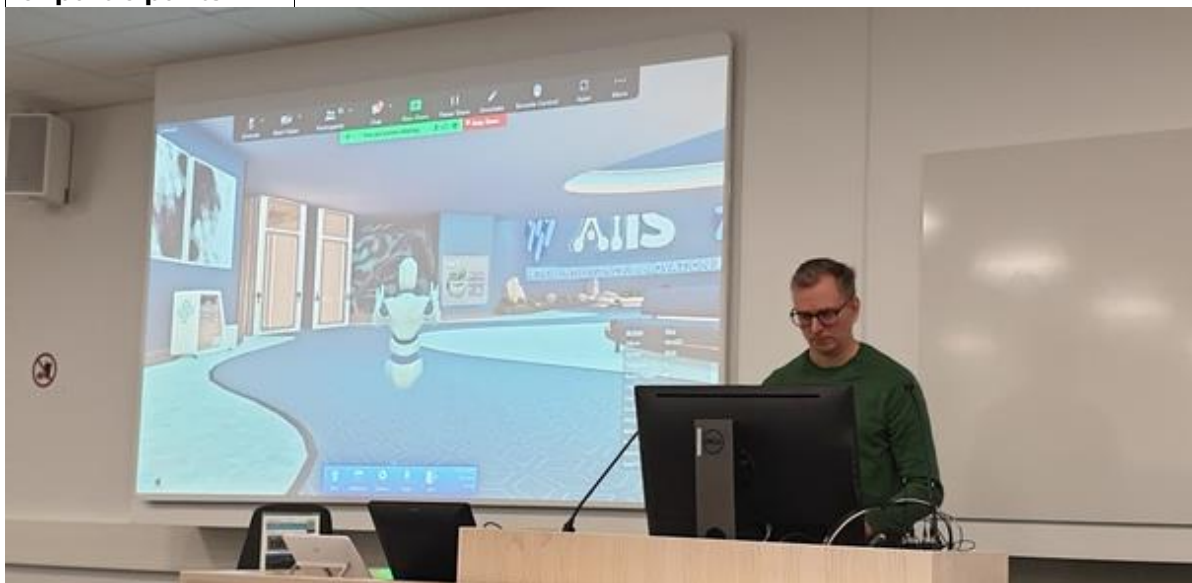
Place: "Medisiina D" building, 8th floor, "Reseptori" meeting room (Street address: Kiinamyllynkatu 10)

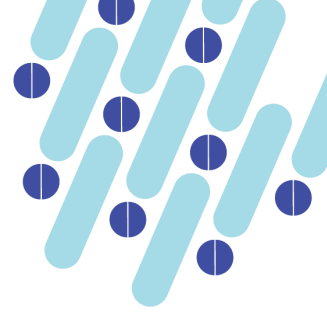
- 10:00 – 12:00 BalticSeaBioMed Kick-Off meeting - Chair: Ullamari Pesonen (University of Turku)
- 10:00 – 10:15 Welcome & introduction of partners and participants - Ullamari Pesonen
- 10:15 – 10:45 Greetings from the Institute of Biomedicine's director - prof. Sari Mäkelä: 25 years of teaching biomedicine at the University of Turku (UTU)
- 10:45 – 11:45 Getting to know the Project activities + planning the next steps: Network activities, Intensive course, Development project
- 12:00 – 13:00 Lunch for BalticSeaBioMed & ENVISION_2027 in Medisiina 1st floor, "Flavoria" cabinet
- 13:00 – 14:00 Session: Connections to & Learning from other Erasmus+ projects - Chair: Leena Strauss (UTU)
- 13:00 – 13:30 AIIS Project's example: student exercises online - James Hayward
(<https://ais.usal.es/> and <https://xebia.com/digital-transformation/data-and-ai/>)
- 13:30 – 13:45 Discussion
- 13:45 – 14:15 Coffee / Tea
- 14:15 – 14:45 ITSHec project - Eija Raatikainen (Metropolia University of Applied Sciences, Helsinki
(<https://itshec.upf.edu/>))
- 14:45 – 15:15 BigGame project - Ilkka Vuolaslahti (UTU, <https://big-game.eu-track.eu/index.php>)
- 15:15 – 15:30 Discussion



1.6 Dissemination of AIIS in «Virtual Realities in Education» (TUAS, FI)

Activity description	In the seminar organized by University of Turku on Virtual Realities in Education representatives of TUAS presented the AIIS Eduverse and AIIS project.
Date (dd-mm-yyyy)	26-01-2023
Partner	TUAS
Type	Event
Dissemination level	Regional
Place	Turku
Activity number of participants	50





Afternoon for Development of Teaching:

The 1st Seminar on "Learning Methods and Environments" in the Faculty of Medicine



UNIVERSITY OF TURKU

"Virtual Realities in Education"

26.1.2023 at 12.00-16.00 Finland time (GMT+2)

MEDIINIINA D building, 1st floor, "Säätio" lecture room & online

12:05-12:10 (GMT+2) **Opening of the Seminar** – *Petri Susi (University of Turku, UTU)*

12:10-12:20 **ENVISION_2027 Erasmus+ project** – *Leena Strauss, Anni Wärrä (UTU)*

12:20-12:50 **Virtual simulations using Labster: experiences in teaching the Biomedicine Programmes at Karolinska Institutet (KI)** – *Louisa Cheung (Karolinska Institutet, KI)*

12:50-13:20 **Learning Analytics and Virtual Laboratories** – *Mohammed Saqr and Ramy Elmoazen (University of Eastern Finland, UEF)*

13:20-13:40 **A new VR platform "Eduverse" for teaching AI for medicine students** – *Teppo Saarenpää (Turku University of Applied Sciences, TUAS; AIIS- Erasmus+ Project)*

13:40-14:25 **Coffee Break + Labster demo** on site

14:25-14:45 **Using FrameVR for teaching interdisciplinary leadership and management in health and social care** – *Riitta Rosio (UTU)*

14:45-15:05 **Ocul-AR – A new mobile app for microscopy teaching and support** – *Laura Mairinoja (UTU) and Janna Pylvänäinen (Åbo Akademi University, ÅAU)*

15:05-15:25 **Towards VR-assisted teaching of 3D histology** – *Pekka Ruusuvuori (UTU)*

15:25-16:00 **Revealing Erasmus+ project – latest news on VR Learning Environments in Higher Education** – *Tomasz Szemberg (Pedagogical University of Krakow)*

[Link to Registering by January 19, 2023](#)

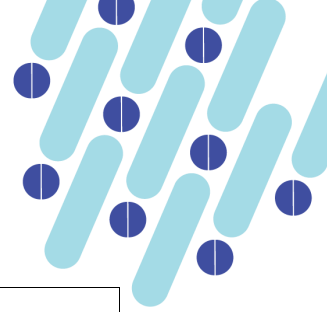


Co-funded by the Erasmus+ Programme of the European Union



1.7 Presenting AIIS project and pilot course (UTU, FI)

Activity description	Presenting AIIS project and pilot course as a new elective course for the 2nd year medicine students in the University of Turku.
Date (dd-mm-yyyy)	22-08-2022
Partner	UTU
Type	Event
Dissemination level	Regional
Place	Turku, Finland
Target groups	Medicine students
Activity number of participants	100



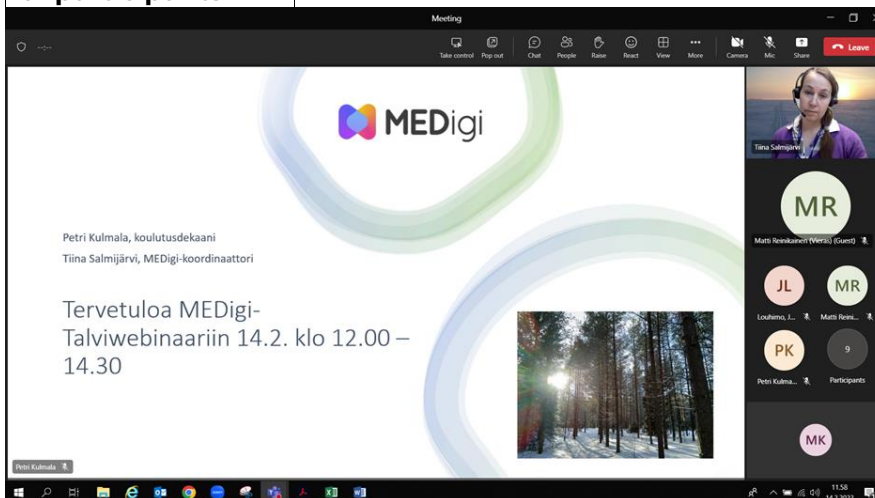
Impact of the activity

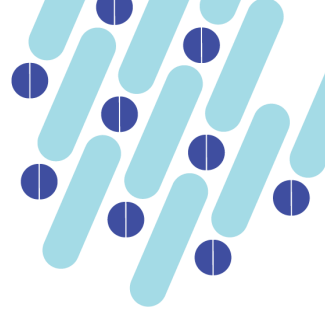
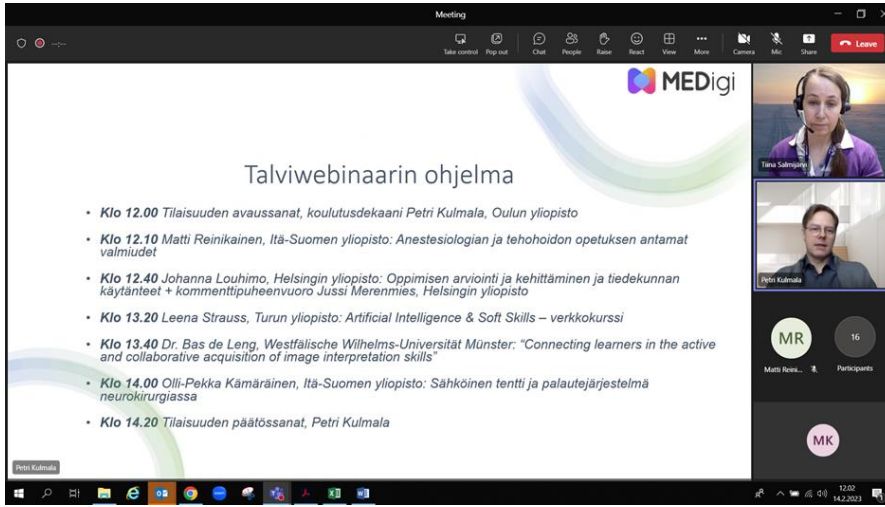
Recruiting students for the pilot course.



1.8 AIIS presentation in an Online event (UTU, FI)

Activity description	UTU representatives presented AIIS in an online event organized by MEDigi.
Date (dd-mm-yyyy)	14-02-2023
Partner	UTU
Type	Event
Dissemination level	Regional
Place	Turku
Activity number of participants	50



Meeting

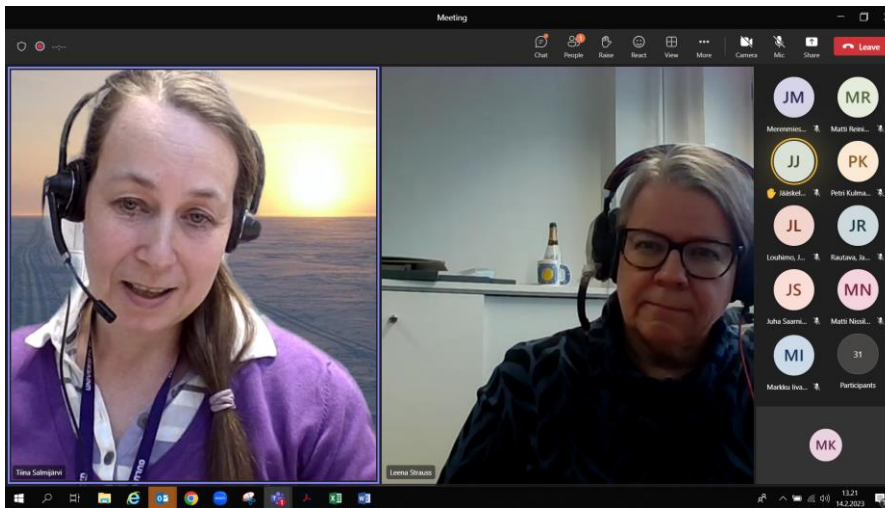
Take control Pop out Chat People Raise React View More Camera Mic Share Leave

MEDigi

Talviwebinaarin ohjelma

- Klo 12.00 Tilaisuuden avaussanat, koulutusekaani Petri Kulmala, Oulun yliopisto
- Klo 12.10 Matti Reinikainen, Itä-Suomen yliopisto: Anestesiologian ja tehohoidon opetuksen antamat valmiudet
- Klo 12.40 Johanna Louhimo, Helsingin yliopisto: Oppimisen arviointi ja kehittäminen ja tiedekunnan käytännöt + kommenttipuheenvuoro Jussi Merenmies, Helsingin yliopisto
- Klo 13.20 Leena Strauss, Turun yliopisto: Artificial Intelligence & Soft Skills – verkkokurssi
- Klo 13.40 Dr. Bas de Leng, Westfälische Wilhelms-Universität Münster: "Connecting learners in the active and collaborative acquisition of image interpretation skills"
- Klo 14.00 Olli-Pekka Kämäräinen, Itä-Suomen yliopisto: Sähköinen tentti ja palautejärjestelmä neurokirurgiassa
- Klo 14.20 Tilaisuuden päätössanat, Petri Kulmala

12:01 14.2.2023



Meeting

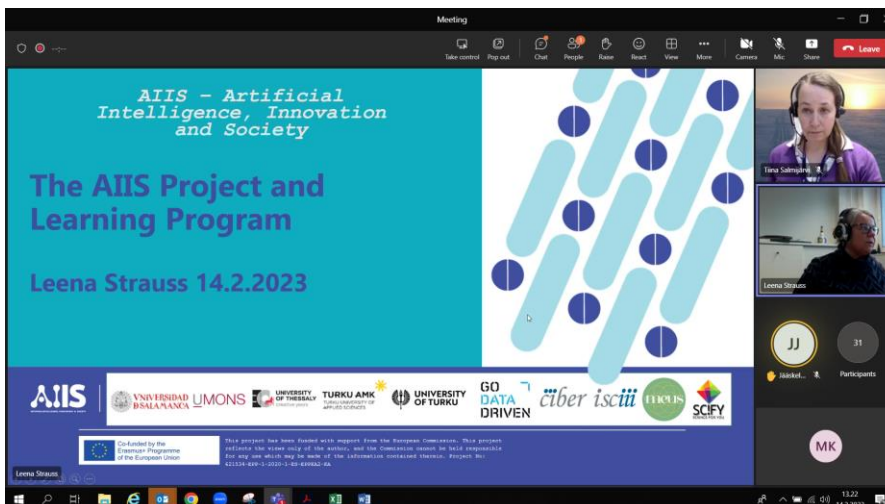
Chat People Raise React View More Camera Mic Share Leave

Taru Salminen

Leena Strauss

Participants: JM, MR, JJ, PK, JL, JR, JS, MN, MI, 31, MK

13:21 14.2.2023



Meeting

Take control Pop out Chat People Raise React View More Camera Mic Share Leave

AIIS - Artificial Intelligence, Innovation and Society

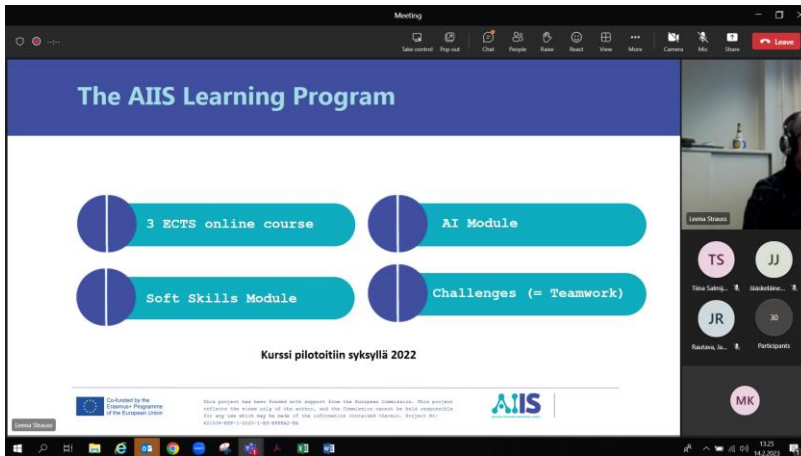
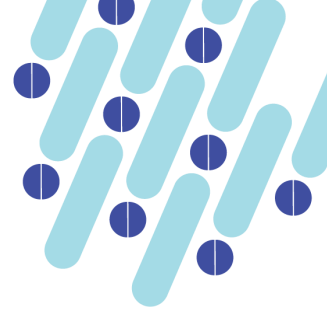
The AIIS Project and Learning Program

Leena Strauss 14.2.2023

AIIS | UNIVERSIDAD ISABELENZA | LIMONS | UNIVERSITY OF TURKUS | TURKU AMK | UNIVERSITY OF TURKU | GO DATA DRIVEN | cyber isci | FOCUS | SCIFY

Co-funded by the Erasmus+ Programme of the European Union

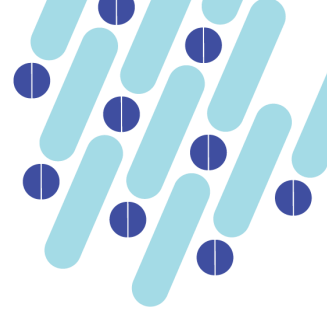
13:22 14.2.2023



1.9 AIIS presentation for Turkish and Polish Medicine Schools (UTH, GR)

Activity description	We promoted AIIS project to staff and faculty members from the departments of Medicine of Turkish and Polish universities, by organising a small session to inform them about the activities of the project and the training course that is going to be produced.
Date (dd-mm-yyyy)	09-06-2022
Partner	UTH
Type	Event
Dissemination level	EU
Place	Volos, Greece
Target groups	Academic staff of the Departments of Medicine from Turkey and Poland
Activity number of participants	10
Impact of the activity	Widening the AIIS community
Feedback received	The attendants showed great interest about the project, have explored the website and declared that they want to receive information and updates about the project.





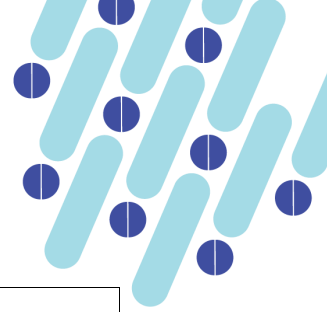
1.10 Presentation of AIIS at the Panhellenic Conference on Physical Sciences in Health "Innovations and Prospects" (UTH. GR)

Activity description	Speech at the Panhellenic Conference on Physical Sciences in Health "Innovations and Prospects"
Date (dd-mm-yyyy)	22-09-2023
Partner	UTH
Type	Event
Dissemination level	National
Place	Athens, Greece
Target groups	Educators, University community, medical experts
Activity number of participants	100



1.11 AIIS Presentation on a Erasmus plus event (UTH. GR)

Activity description	UTH presented the AIIS Project during an event rganized for various Erasmus plus activities in Volos.
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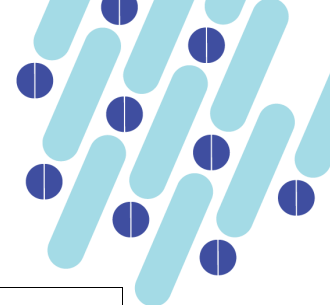


Date (dd-mm-yyyy)	17-10-2022
Partner	UTH
Type	Event
Dissemination level	National
Place	Volos, Greece
Target groups	Students, Educators, University community, medical experts, general audience
Activity number of participants	5

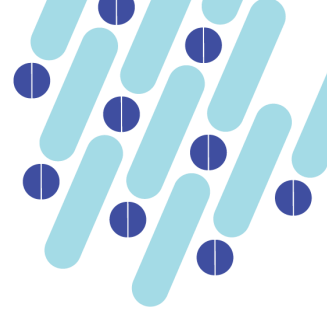


1.12 Presentation in the Conference «The AI Future in Greece» (SciFY, GR)

Activity description	Alexandros Tzoumas from SciFY participated as speaker on the event: "Panel discussion: The AI Future in Greece" which was held in Greece, Athens, Online and he referred to AIIS and it's results.
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Date (dd-mm-yyyy)	17-06-2022
Partner	SCIFY
Type	Event
Dissemination level	National
Place	Greece
Target groups	AI Companies R&D Departments of Companies
Activity number of participants	65
Impact of the activity	With this we introduce the AIIS project to the experts of AI community in Greece. That way we will be able to contact them for the implementation of WP3 as mentors for challenges.



6/17/22, 5:24 PM

Gmail - Panel discussion: The AI Future in Greece Confirmation



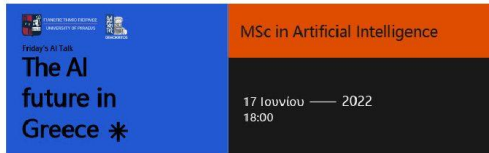
Despoina Chalvatzí <despoina.chalvatzí@gmail.com>

Panel discussion: The AI Future in Greece Confirmation

1 message

MSc in Artificial Intelligence <no-reply@zoom.us>
 Reply-To: MSc in Artificial Intelligence <a@it.demokritos.gr>
 To: despoina.chalvatzí@gmail.com

Fri, Jun 17, 2022 at 5:20 PM



Hello Despoina Chalvatzí,

Thank you for registering for Panel discussion: The AI Future in Greece. You can find information about this meeting below.

Panel discussion: The AI Future in Greece

Date & Time Jun 17, 2022 08:00 PM Athens
 Meeting ID 828 2093 4019
 Passcode 860622



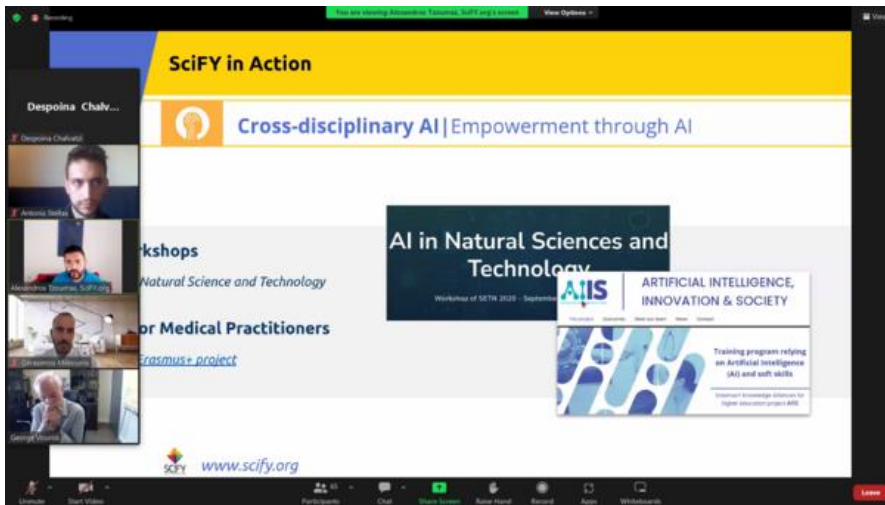
Kindly note: By attending this event, you provide your consent to be recorded. To receive our news, follow us on Facebook & LinkedIn.

More info: <https://www.facebook.com/MSc-in-Artificial-Intelligence-1003994060193732> & <https://www.linkedin.com/company/m-sc-in-ai/>

Please submit any questions to: a@it.demokritos.gr.

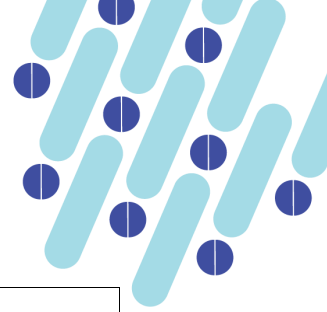
You can **cancel** your registration at any time.

<https://mail.google.com/mail/u/0/?ik=cd771c2186&view=pt&search=ai&permmsgid=thread-F%3A17358920129219915238&siml=msg-F%3A1735892012...> 1/2



1.13 Presentation in a Psychological Research Conference (SciFY, GR)

Activity description	We presented the AIIS projects and results in a panel discussion on the Conference 18th Panhellenic Conference of Psychological Research https://www.elpse2022.gr/ (Schedule of the Conference: https://www.elpse2022.gr/program)
Date (dd-mm-yyyy)	05-10-2022
Partner	SCIFY



Type	Conference presentation
Dissemination level	Regional
Place	Athens
Activity number of participants	30



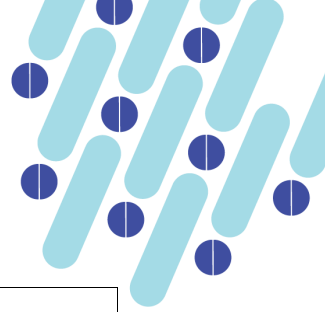
1.14 Presenting the AIIS Project to UMONS Students (UMONS, BE)

Activity description	Introducing AIIS for student
Date (dd-mm-yyyy)	11-10-2022
Partner	UMONS
Type	Internal meeting
Dissemination level	Local
Place	Mons/belgium
Target groups	Medical student
Activity number of participants	30
Impact of the activity	40 students are interested to enroll in AIIS



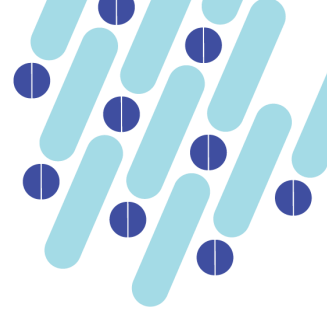
1.15 AIIS Piloting Closing Ceremony - UMONS 2023 (UMONS, BE)

Activity description	The activity involves presenting the challenges of the AIIS program and announcing the winning groups. Additionally, the prizes were distributed to the victorious teams members.
Date (dd-mm-yyyy)	10-02-2023
Partner	UMONS
Type	Event
Dissemination level	Local



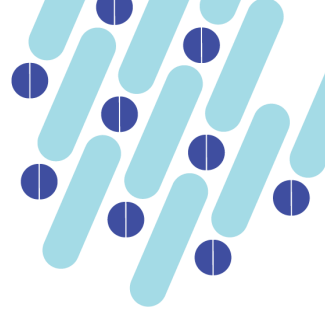
Place	UMONS
Target groups	Student
Activity number of participants	50

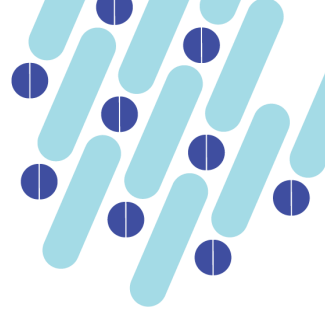




1.16 Presentation of AIIS in the JDE 2023 (UMONS, BE)

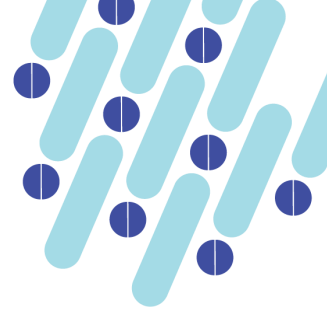
Activity description	<p>This event creates a vibrant space for teachers to come together, share experiences, and explore innovative teaching methods. It's a golden opportunity for educators to gain fresh perspectives and leverage the experience of their peers to enhance their teaching practices. The event's focus on innovation and knowledge sharing is not only enriching for the teachers but ultimately benefits the entire academic community</p> <p>https://web.umons.ac.be/fr/partage-et-innovations-au-programme-de-la-journee-des-enseignants-2023/#:~:text=Clap%20de%20fin%20pour%20I,enrichir%20leurs%20activit%C3%A9s%20d'apprentissage.</p> <p>https://www.sudinfo.be/id663650/article/2023-05-11/la-journee-des-enseignants-de-lumons-pour-echanger-et-decouvrir-des-innovations</p>
Date (dd-mm-yyyy)	17-05-2023
Partner	UMONS
Type	Conference presentation
Dissemination level	Local
Place	Mons
Target groups	Academic teacher
Activity number of participants	200
Impact of the activity	By participating in Teacher's Day, the AIIS project gains insights and resources to elevate the quality and effectiveness of AI and soft skills education in the healthcare sector.
Feedback received	The Teacher's Day event at UMon has acknowledged the AIIS project's <i>Artificial Intelligence & Soft Skills in the Healthcare Sector</i> course with a <i>Pedagogical Innovation Prize</i> . This recognition validates the project's innovative teaching methods and fosters knowledge sharing among educators. The event promotes collaboration, networking, and the adoption of effective teaching strategies that can enhance the learning experience for students in the AIIS course.





1.17 Participation in the European Health Summit Summer (UMONS, BE)

Activity description	Digital health and the importance of data and AI in dealing with crisis.
Date (dd-mm-yyyy)	21-06-2023
Partner	UMONS
Type	Event
Dissemination level	EU
Place	Brussel
Activity number of participants	300



From: European Health Summit
Sent: Tuesday, 21 June 2022 16:07
To: Rania ARO
Subject: THANK YOU FOR PARTICIPATING | EUROPEAN HEALTH SUMMIT 2022 - SUMMER EDITION | 16 JUNE

You don't often get email from info@ehsummit.eu. Learn why this is important.

[Show message in browser](#)



Dear participant,

We wanted to thank you for attending the **European Health Summit 2022 - Summer edition!**

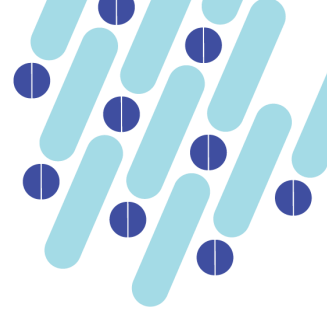
During the Summit, we hosted 3 exclusive panels along with an interactive interview featuring over 20 prominent speakers from business, policy, civil society, and academia. We hope you found the content engaging and that you are eager to follow our forthcoming debates with the next edition of European Health Summit and EHS Task Force Public debates.

[WATCH THE REPLAY](#)

[EHS 2022 TAKEAWAYS](#)

[AMONGST THE HIGHLIGHTS](#)





2 Learning Mobility Events

2.1 1st Learning Mobility Event - Spain 01.04.22

Activity description	Learning Outcomes: Being able to identify bias and challenges for AI in patient empowerment. Best Practice: Data AI bias prevention
Date (dd-mm-yyyy)	01-04-2022
Partner	USAL
Type	Event
Place	Spain
Activity number of participants	15

ORGANIZED BY USAL

DATE 01/April/2022

HOUR 10:30-11:30 CET Time

PLACE Zoom <https://usal-es.zoom.us/j/85619957234>

2.1.1 Objectives of Learning Mobility

The goal of this seminar was to inform the partners about the innovative technology applied to medicine and to understand the role of AI in patient empowerment.

LEARNING OUTCOMES

Being able to identify bias and challenges for AI in patient empowerment

BEST PRACTICES

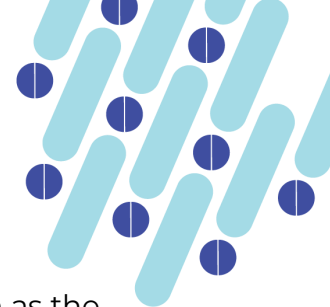
Data AI bias prevention

OBJECTIVES:

The main objectives of the seminar were:

- Introduce to the partners the need to create trustworthy solutions in the health domain by publications and evidence,
- Explain to the partners the role of AI in patient empowerment and the importance of being able to identify bias by data AI bias prevention.

The goal of this session was to understand the role of AI in patient empowerment and be able to identify biases and challenges for AI in patient empowerment. To raise it, some good practices in the application of artificial intelligence to different aspects of the health sector were presented. In the first



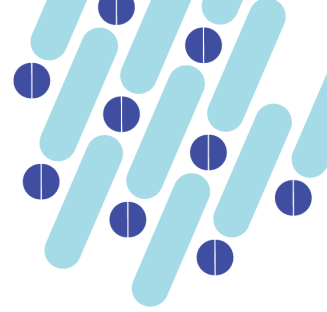
place, the trainer shared some of his own experiences and research, such as the application of AI in the elderly sector, and then an interesting debate was generated about its application in other areas of medicine and the difficulties that this entails. For this first learning mobility, we had a great expert in this field. His name is Luis Fernández Luque he has substantial contributions to the creation and validation of Artificial Intelligence applications based on mobile and wearable technologies, including technologies such as deep learning and health recommender systems. His career has always been focused on the crossroads between computer science and behavioural change. He has ample experience in combining human factors research with artificial intelligence that know-how is of crucial importance for the successful completion of the two aims of the project.

2.1.2 Attendees

As previously mentioned, the participants in this educational activity were members of the consortium from all project partners.

The table with the participants is detailed below:

	Name of the Participant	Organization
1.	Pedro Luis Sanchez Fernandez	University of Salamanca
2.	Emiliana Pizarro Lucas (Mili)	University of Salamanca
3.	M ^a Jesús Santos Lobo (Chus)	University of Salamanca
4.	Antonio Sanchez Puente	Centro de Investigación Biomédica en Red
5.	Pedro Dorado (Acho)	Centro de Investigación Biomédica en Red
6.	Clara Brotons	Markeut Skills SI
7.	Teppo Saarenpää	Turku University of Applied Sciences
8.	Reeta Mustonen	Turku University
9.	Vasiliki Softa	University of Thessaly
10.	Rania Aro	University of Mons
11.	Laura Mairinoja	Turku University
12.	Despoina Chalvatzi	SciFY - Epistimi Gia Sena Astki Mi Kerdoskopiki Etairia
13.	Werner Ravyse	Turku University of Applied Sciences
14.	Leena Strauss	Turku University
15.	Anni Wärrri	Turku University



2.1.3 Speakers

Luis Fernández Luque

LinkedIn Profile:

<https://www.linkedin.com/in/luisfernandezluque/?originalSubdomain=es>

Short Bio

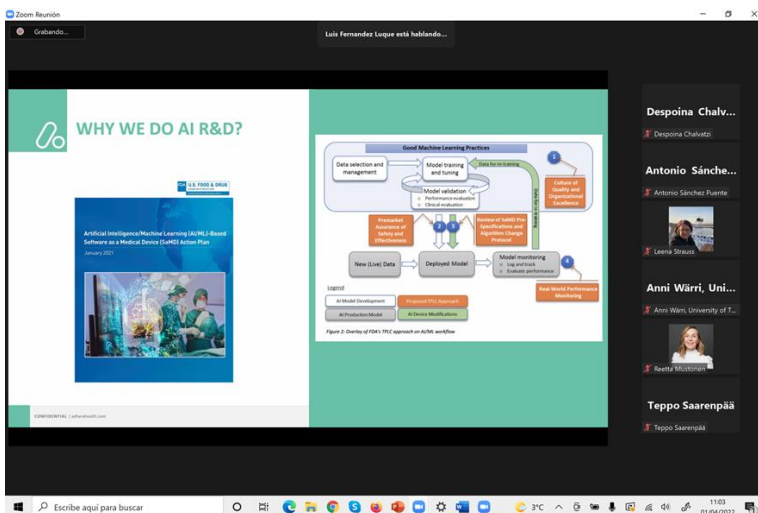
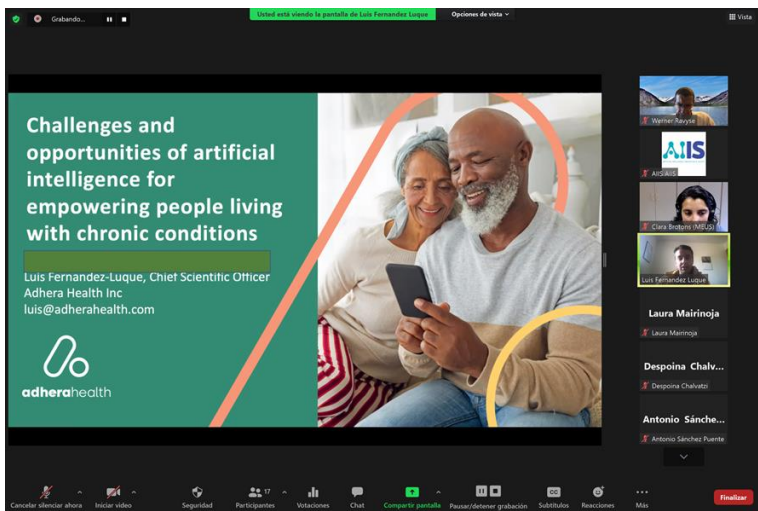
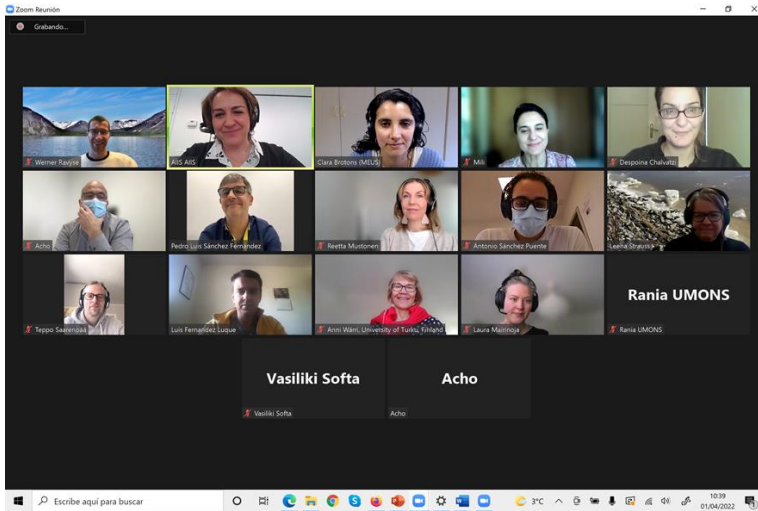
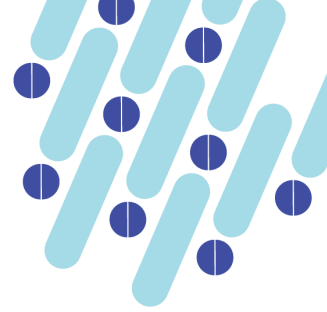
His research focus has been on the adaptation of mobile and web technologies for patient support and public health. His scientific contributions in mobile health, which includes both mobile and wearable devices, are among the most cited and pioneering in the field dating back to the year 2006. He has substantial contributions in the creation and validation of Artificial Intelligence applications based on mobile and wearable technologies, including technologies such as deep learning and health recommender systems. His career has been always focused on the crossroads between computer science and behavioural change. He has ample experience in combining human factors research with artificial intelligence that know-how is of crucial importance for the successful completion of the two aims of the project. His focus on human factors and data-driven applications dates back to his Ph.D. dissertation which focused on trustworthiness aspects of information retrieval of patient education.

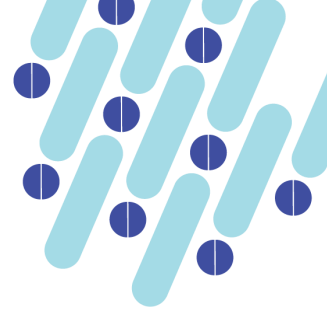
As Chief Scientific Officer at Adhera Health (Palo Alto, CA, USA), He oversees the implementation of our research roadmap for our digital therapeutics' platform. Their evidence-based platform combines mobile technologies with artificial intelligence (Recommender Systems) to provide personalized patient support designed to improve the physical and mental wellbeing of people living with chronic conditions. In addition, he is a senior member of the IEEE Engineering in Medicine and Biology Society and Vice-President of the International Medical Informatics Association. He has over 100 publications cited in Google Scholar

<https://scholar.google.com/citations?hl=en&user=N9Pdr2IAAAAJ>

2.1.4 EVIDENCE

Screenshots from the Learning Mobility Event:





2.2 2nd Learning Mobility Event - Belgium 29.03.22

Activity description	<p>UMONS and GDD organized the 2nd Learning Mobility Event (considered as first) about the role of practitioners for the transfer of knowledge toward society.</p> <p>The objectives of this mobility session was to:</p> <ol style="list-style-type: none"> 1. Increase the knowledge of partner's staff about the role of healthcare professionals in knowledge-transfer in digital health & AI. 2. Increase the knowledge of partner's staff about the role of a knowledge-sharing culture between society and industry. <p>These objectives were thanks to our speakers who are experts in the field of AI as practitioners (healthcare professionals) and private sector (industry).</p>
Date (dd-mm-yyyy)	29-03-2022
Partner	UMONS
Type	Event
Place	Online
Activity number of participants	19

2.2.1 Objectives of Learning Mobility

UMONS and GDD organized the 2nd Learning Mobility Event (considered as first) about the role of practitioners for the transfer of knowledge toward society.

The objectives of this mobility session was to:

3. Increase the knowledge of partner's staff about the role of healthcare professionals in knowledge-transfer in digital health & AI.
4. Increase the knowledge of partner's staff about the role of a knowledge-sharing culture between society and industry.

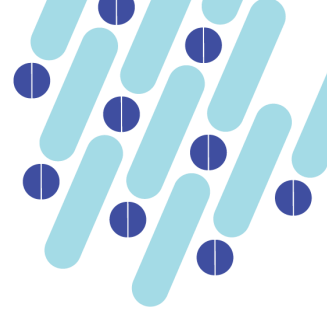
These objectives were thanks to our speakers who are experts in the field of AI as practitioners (healthcare professionals) and private sector (industry).

2.2.2 Attendees

As previously mentioned, the participants in this educational activity were members of the consortium from all project partners.

The table with the participants is detailed below:

	Name of the Participant	Organization	Country
1.	María Jesús Santos	USAL	Spain
2.	Emiliana Pizarro	USAL	Spain
3.	Pedro Dorado	USAL	Spain
4.	Cecile Sauvage	MEUS	Spain



5.	Antonio Sanchez Puente	CIBER	Spain
6.	Pierre Duez	UMONS	Belgium
7.	Giovanni Briganti	UMONS	Belgium
8.	Rania Aro	UMONS	Belgium
9.	Giovani Lanzani	GDD	Netherlands
10.	Vassiliki Softa	UTH	Greece
12.	Antigoni Polou	SciFY	Greece
13.	Despoina Chalvatzi	SciFY	Greece
14.	Teppo Saarenpaa	TUAS	Finland
15.	Anita Narbro	TUAS	Finland
16.	Leena Strauss	UTU	Finland
17.	Reetta Mustonen	UTU	Finland
18.	Anni Warri	UTU	Finland
19.	Laura Mairinoja	UTU	Finland

2.2.3 Speakers

Both speakers were selected based on their experience on the subject of AI and sharing knowledge with society. Also as shown in the following analysis, each of the two speakers covers the overall topics of the project: Artificial Intelligence and Medicine.

1st Speaker

The first speaker was Dr. Giovanni Briganti a medical doctor, lead AI4Health, AI4Belgium, lecturer UMONS and psychiatry CHU Brugmann

Short Bio

Dr. Giovanni Briganti a medical doctor, MD, PhD, Lecturer of Statistics at Université de Bruxelles (Faculty of Medicine) and at Université de Mons (Faculty of Engineering – Faculté Polytechnique), physician-scientist at the Department of Psychiatry of the Brussels Teaching Hospital – Brugmann (CHU Bruxelles Brugmann), an associate at Harvard University, in the Richard J. McNally laboratory. He is interested in studying mental disorders through the lens of



machine learning, and he leads the AI4Health group at AI4Belgium, the Belgian government's initiative for Artificial Intelligence <https://giovannibriganti.com/>.

LinkedIn Profile: <https://be.linkedin.com/in/giovanni-briganti-md-phd-05318195>

Email: giovanni.briganti@hotmail.com

Expertise in topic

Dr Giovanni research interests involve the deployment of Artificial Intelligence methods to investigate mental disorders. He has a huge interest in the application of AI in the health sector as well as sharing AI knowledge between society and industry with more than 40 talks.

He has experience in teaching as well as working with public organizations (AI4Health at AI4Belgium Belgian government's initiative for AI).

2nd Speaker

Giovanni Lanzani, Managing Director of GoDataDriven.

Short Bio

Giovanni has a passion for helping organizations get to the next level. Currently he does so as Managing Director of the GoDataDriven Academy.

With a background and doctoral degree in Theoretical Physics, experience in the management consulting department of KPMG, and almost 10 years of experience in the Data & AI field, Giovanni knows what it takes to create successful teams and companies in this space.

Giovanni is regularly invited to speak at conferences and events such as meetups, online seminars, podcasts, and expo's.

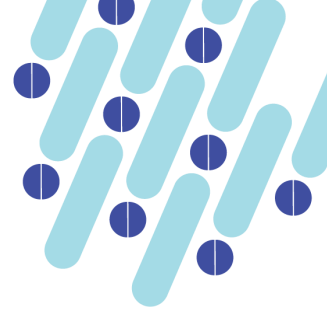
He successfully helped clients such as ING, Booking.com, Uber, Ebay, and KLM.

Expertise in topic

Giovanni Lanzani has contributed and worked in the scientific community as well as played an important role in the community of open source software such as Python.

Thanks to his work in the industry, he attained a 365 degree view of the field.

As for the medical sector, he was part of the Medix.ai spin-off from GoDataDriven, that focused on AI applications in the medical sector — with collaborations with, a.o., Siemens, the medical university of Groningen, and various Dutch hospitals — since 2017.



2.2.4 Learning Outcomes

1st Section

Highlights of 1st Section (Best Practices & Methodologies)

Dr Briganti was focused on the Belgian experience in sharing the knowledge and their importance to apply AI in healthcare in Belgium. He mentioned main obstacles that face the introduction of AI in the healthcare sector and proposed solutions to surpass the issues.

1st Presentation Material

The presentation of Dr. Briganti was shared openly with the consortium through the [Admin Project Platform](#) as well as in the share folder on [Google Drive](#). The video of 2nd learning mobility of Dr. Giovanni brigantti and Giovanni Lazani was shared with the consortium through the [Admin Project Platform](#) as well as in the share folder on [Google Drive](#).

2nd Section

Highlights of 2nd Section (Best Practices & Methodologies)

The link between academia and industry is broken when citizens get the product developed by R&D departments of global enterprises — product often built standing on the shoulders of giants, the giants being academic research — but they don't get a possibility to re-create it in a cost-effective way.

A change however is coming, thanks to open source software. The movement has started to instill a culture of sharing that has started permeating academic circles first — with researchers not only publishing papers, but also making data and code available —, and the industry later — with large institutions making algorithms available to the general public **for free**.

This results in products — with high standards, both from an academic and a commercial point of view — that *everyone* can use (e.g. HuggingFace).

2nd Presentation Material

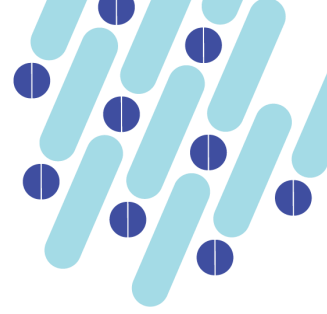
The video of 2nd learning mobility of Dr. Giovanni brigantti and Giovanni Lazani was shared with the consortium through the [Admin Project Platform](#) as well as in the share folder on [Google Drive](#).

2.2.5 EVIDENCE

In this section are material and photos that were taken during the 3rd Learning Mobility Event as well as the video recording from the session:

Video Recording from the Learning Mobility Event:

<https://drive.google.com/file/d/1mbOpMi4UzMzdUwyKVZW0gu4FvgYiGkQc/view?usp=sharing>



<https://ap.adminproject.eu/files/index/index/2365?qj#folder=69690>

Screenshots from the Learning Mobility Event:

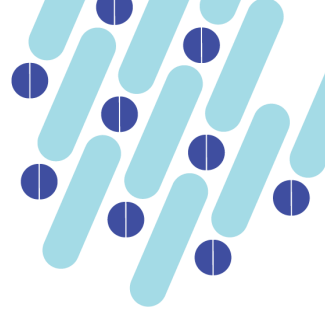
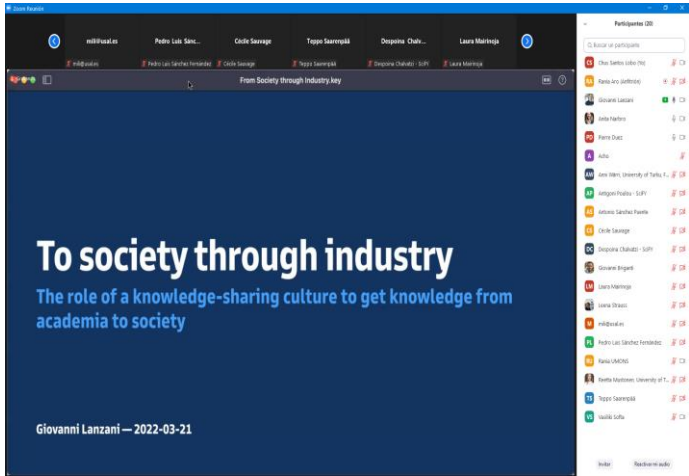
AI Knowledge-Sharing
The role of healthcare professionals
 Giovanni Briganti, MD, MSc, PhD
giovanni.briganti@umons.ac.be

**We all know healthcare needs AI...
 The Belgian AI Adoption Barometer**

Challenge	Percentage	Count
Transformer les parcours de soins en objets et/ou données	50,3%	10,495 N/A et 10,296 N/A
Donner les données à l'échelle adéquate dans les fonctions support	43,2%	8,876 N/A et 8,628 N/A
Respecter l'opinion des patients et de la majorité des acteurs avec l'IA	38,0%	7,726 N/A et 7,529 N/A
Faciliter la gestion des flux et des données	32,4%	6,636 N/A et 6,498 N/A
Permettre un niveau de qualification adéquat des médecins	27,4%	5,576 N/A et 5,498 N/A
Transformer le métier de soignant et de son mode de fonctionnement	23,8%	4,796 N/A et 4,628 N/A
Encourager davantage la coopération interprofessionnelle	17,3%	3,526 N/A et 3,428 N/A
Promouvoir le travail transversal entre disciplines	17,3%	3,526 N/A et 3,428 N/A
Développer des fonctions support orientées "clients internes"	14,5%	2,936 N/A et 2,828 N/A

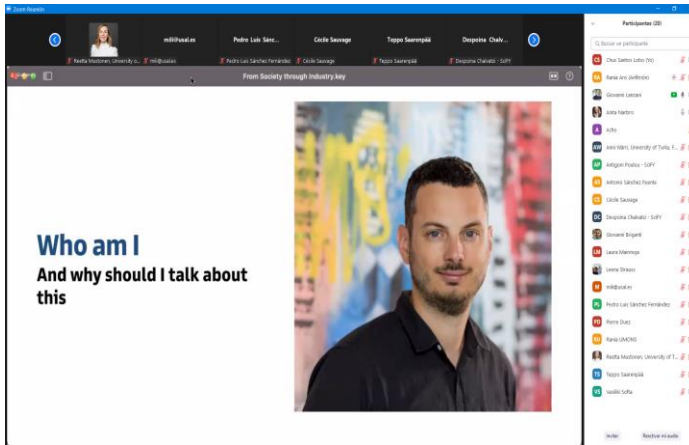
But does AI need a touch of healthcare?

- Lack of reliable designs
 - Cross-validation, splitting samples
 - Lack of primary and secondary replication
 - Bias
- Overfitting
 - Lack of translational trials
- Closed science
 - Closed-sources software
- Comparison of AI vs Physicians
- Citizen trust in AI


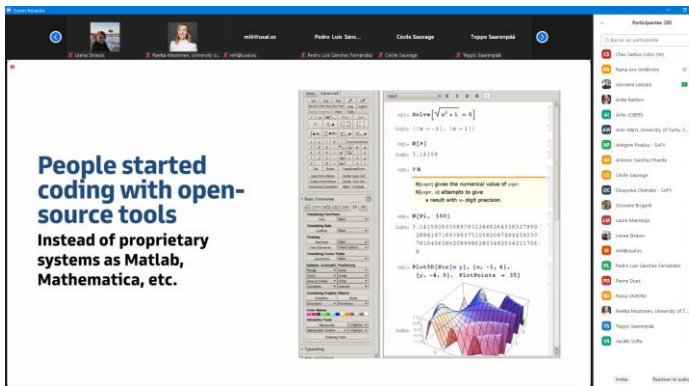



To society through industry
The role of a knowledge-sharing culture to get knowledge from academia to society

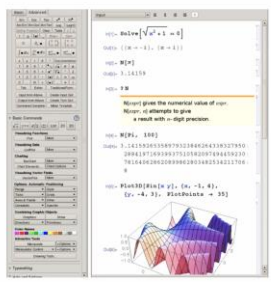
Giovanni Lanzani — 2022-03-21

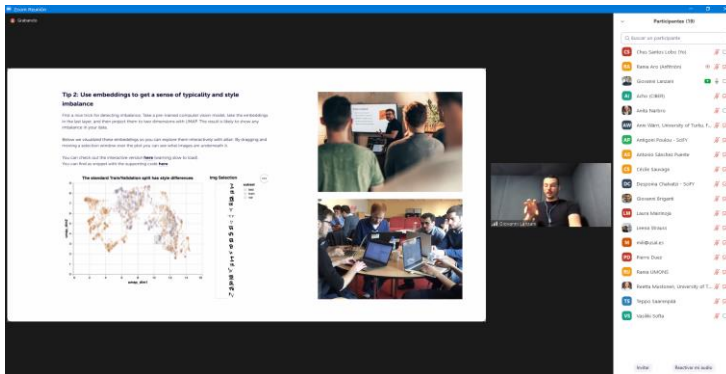
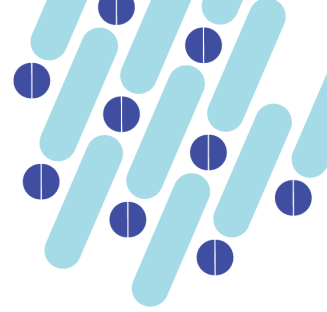


Who am I
And why should I talk about this

People started coding with open-source tools
Instead of proprietary systems as Matlab, Mathematica, etc.





2.3 3rd Learning Mobility Even - Greece 28.04.22

Activity description	The 3rd Learning Mobility Event, which was held in Greece on 28th of April 2022 and organized by University of Thessaly and SciFY. The topic of this learning mobility was: "Innovative and collaborative teaching methods - How to create multidisciplinary working teams."
Date (dd-mm-yyyy)	28-04-2022
Partner	SciFY & UTH
Type	Event
Place	Greece
Activity number of participants	12

2.3.1 Objectives of Learning Mobility

SciFY and UTH organized the 3rd Learning Mobility Event about innovative teaching methods and more specifically "Innovative and collaborative teaching methods. - How to create multidisciplinary working teams" in collaboration with UTH on 28th of April 2022.

The objectives of this mobility session was to:

1. Increase the knowledge of partner's staff on innovative teaching methods and how to make multidisciplinary working teams work together.
2. Extend the local networking.
3. Impulse new ideas and initiatives related to the AIIS topic, by increasing the scope of all its possible applications.

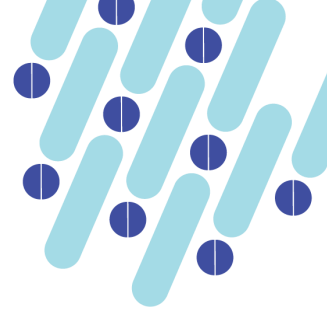
These objectives met due to the fact that we invited as speakers experts on Innovative Teaching Techniques as well as Leaders on Multidisciplinary working teams.

2.3.2 Attendees

As previously mentioned, the participants in this educational activity were members of the consortium from all project partners.

The table with the participants is detailed below:

	Name of the Participant	Organization	Country
1.	María Jesús Santos	USAL	Spain



2.	Pedro Dorado	USAL	Spain
3.	Cecile Sauvage	MEUS	Spain
4.	Antonio Sanchez Puente	CIBER	Spain
5.	Rania Aro	UMONS	Belgium
6.	Giovani Lanzani	GDD	Netherlands
7.	Vassiliki Softa	UTH	Greece
8.	Despoina Chalvatzi	SciFY	Greece
9.	Teppo Saarenpaa	TUAS	Finland
10.	Anita Narbro	TUAS	Finland
11.	Anni Warri	UTU	Finland
12.	Laura Mairinoja	UTU	Finland

2.3.3 Speakers

Both speakers were selected based on their experience on the subject of education which was about innovative teaching techniques and multi-disciplinary teams. Also as shown in the following analysis, each of the two speakers covers the overall topics of the project: Artificial Intelligence and Medicine. In this way they complement each other perfectly to provide purposefully all the experience they have gathered for so many years working and training multidisciplinary teams in innovative ways.

1st Speaker

The first speaker was Dr. George Giannakopoulos PhD, Co-Founder and CEO of SciFY PNP (<http://www.scify.gr/site/en/>) & AI Researcher on NCSR “Demokritos” (<https://www.demokritos.gr/>), Institute of Informatics & Telecommunications (<https://www.iit.demokritos.gr/>).

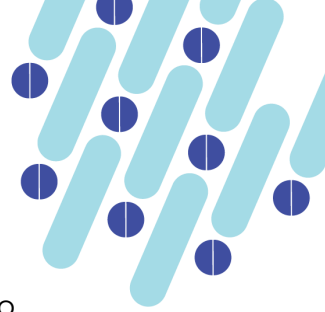
LinkedIn Profile: [linkedin.com/in/ggianna](https://www.linkedin.com/in/ggianna)

Website: <https://www.iit.demokritos.gr/people/george-giannakopoulos-3/>

Email: ggianna@iit.demokritos.gr

Short Bio

Dr George Giannakopoulos is an Artificial Intelligence (AI) researcher at the SKEL lab of the Institute of Informatics and Telecommunications of NCSR “Demokritos”, as well as co-founder and CEO of SciFY, a not-for-profit AI organization bringing AI results to society.



He has more than 15 years of AI-related experience on EU-funded, but also industrial projects. He brings more than 20 years of IT consulting and software engineering expertise in domains such as AI and Natural Language Processing, Data journalism, Bio-medical informatics, the Semantic Web and others. He is a member of the Hellenic Artificial Intelligence Society (EETN)] and a member of the European Chapter of the Association of Computational Linguistics (ACL). He has contributed to the design and implementation of several MSc programmes (MSc in AI, MSc in Data Science, MSc Quantum Computing & Quantum Technologies, MSc in Cognitive Science). He also contributes at a national policy-making level through the Sectorial Scientific Council on Data Policy and A.I. of the National Council for Research, Technology and Innovation since early 2021. He has contributed to the Greek National Strategy on AI, as well as to several national and international working groups on Data Policy, AI and Social Innovation.

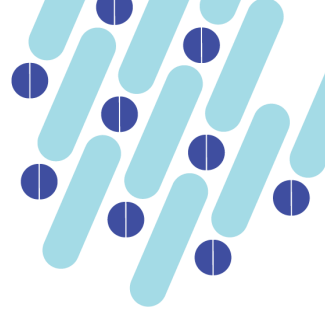
George has contributed to more than 80 scientific publications with more than 1000 citations. He also authored the first Greek book on AI that addresses non-expert and expert audiences alike, under the title “AI: a subtle demystification” in 2021.

George also strongly contributes to the democratization of AI knowledge, by co-organizing a number of international and national events on the research and application of ICT and AI. He has contributed through more than 50 presentations and tutorials related to AI and its application, in a number of events and settings (science festivals, SciFY Academies, TedX, dedicated school events, scientific conferences, etc.). Through the “ahedd” Digital Innovation Hub in NCSR Demokritos he contributes to the digital and AI-transformation of organizations and groups, the tech empowerment of several start-ups. Finally, he has initiated and leads the “1000 Pioneers for AI in Greece” project, aiming to bring AI to the wider public through targeted trainings and innovation actions, with tens of beneficiary companies and people to date.

Expertise in topic

The choice of this speaker was very appropriate as he has a lot of experience in teaching and even using innovative teaching methods while working on a regular basis with multidisciplinary groups. Finally, his experience in topics such as Artificial Intelligence make him ideal to speak to a specific audience as he is able to make the connection with the theme of the project which is the education in Artificial Intelligence. Below is the list of achievements that made him an ideal speaker in this training:

- More than 15 years experience in AI;
- More than 20 years experience in software engineering
- AI Researcher - NCSR “Demokritos” and especially in topics such as:



- AI & Health Sciences;
- AI & Material Science;
- AI & Marine Science;
- AI & Chemical Engineering, etc
- Co-founder and CEO - SciFY PNPC
- Co-organizer and contributor to SciFY Academy
- Leader on the initiative 1000 Pioneers for AI in Greece
- Tutor in
 - MSc Cognitive Science (multidisciplinary)
 - MSc Data Science (multidisciplinary)
- Contributor to multidisciplinary projects such as:
 - ML-MULTIMEM;
 - SmartDeZIgn;
 - NAVMAT; etc
- More than 30 dissertations
- Scientific officer of the ahead Digital Innovation Hub
- Executive trainings across domains

2nd Speaker

The representative of University of Thessaly, Professor Konstantinos Koutsogiannis from the University of Patras has invited as expert speaker in this Learning Mobility Event.

LinkedIn Profile:

<https://www.linkedin.com/in/%CE%BA%CF%89%CE%BD%CF%83%CF%84%CE%B1%CE%BD%CF%84%CE%AF%CE%BD%CE%BF%CF%82-%CE%BA%CE%BF%CF%85%CF%84%CF%83%CE%BF%CE%B3%CE%B9%CE%AC%CE%BD%CE%BD%CE%B7%CF%82-28810127/?originalSubdomain=gr>

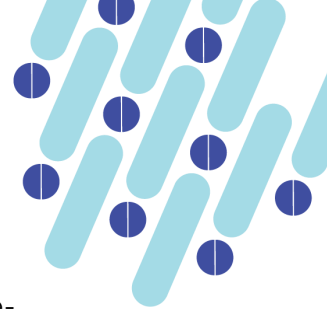
Website: <http://www.intelhealthphysicslab.gr/en/lab-stuff/56.html>

Short Bio

Professor Konstantinos Koutsogiannis from the University of Patras in Greece is an Assistant Professor of Medical Physics and Electrophysiology at Health Science School (Departments of Optics and Physiotherapy) of Technological Educational Institute (TEI) of Western Greece (former Technological and Educational Institute of Patras) and works on research and teaching at the Computer Engineering and Informatics Department of University of Patras and.

He is currently studying for his second PhD at CEID, has also long experience in teaching undergraduate and postgraduate courses. He was educational director of the private Centre of Vocational Training DAPHNE for five years.

He has also participated in several National and international or European educational or vocational training projects as ERASMUS MUNDUS Lot 2 and



GRUNDTVIG II. Furthermore, among his research interests are intelligent e-learning and intelligent educational systems. Finally he was the Institutional Responsible for ERASMUS program (TEI of Patras), for three years and currently departmental representative for ERASMUS PLUS (Department of Optics & Optometry) as well as for ERASMUS MUNDUS program (Department of Physiotherapy).

He has published a number of papers in international journals, edited volumes, international conferences and workshop proceedings. An adequate number of them are related to e-learning and Intelligent educational systems.

Special areas of interest are electrophysiology, health physics, intelligent web based educational systems and intelligent medical systems.

Expertise in topic

As can be seen from the above, this scientist was the ideal choice to frame this educational activity as he has work and academic experience in innovative learning methods. In addition, his deep experience in medicine from his very first academic steps makes him perfectly suitable as a speaker for such an action.

2.3.4 Learning Outcomes

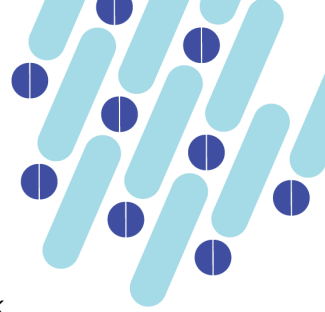
The Learning Outcomes of this mobility session was the increation of the knowledge of partner's staff on innovative teaching methods and how to make multidisciplinary working teams work together through Best Practices and Case Studies.

Based on the feedback we received from the partners it was shown that it was a very well received seminar and partners understood the knowledge we shared with them and they could apply it on their later activities during the project but in other projects and activities too.

1st Section

Highlights of 1st Section (Best Practices & Methodologies)

SciFY's expert was focused more on how to create multidisciplinary working teams and manage them in a way that will be most productive while feeling fulfilled for their work and being part of their group. Since the expert has vast experience on managing such groups shared his condensed knowledge on this subject by sharing step to step methodologies accompanied with examples. This section was very crucial for the next steps of the project and especially WP3 and WP4 because partners must take into consideration methodologies for managing multidisciplinary working teams on the planning and implementation of these WPs. To be more specific, students from medical schools and technical schools have to work together on the aforementioned WPs thus making these teams multidisciplinary. Also on challenges (WP3) mentors will come from HEIs and companies and might also be members of the



consortium so partners should know how to make this kind of team work together.

1st Presentation Material

The Presentation of Dr. George Giannakopoulos was shared openly with the consortium through the [Admin Project Platform](#) as well as in the share folder on [Google Drive](#).

2nd Section

Highlights of 2nd Section (Best Practices & Methodologies)

The representative of University of Thessaly used a Best Practice project to show a new way of learning which was used on Medical Students in Greece. In particular it was an ediverse where the students had the chance to learn through serious games and gamification elements using virtual reality features.

During the session he shared his knowledge about the next step of ediverses which is augmented reality and spoke about the situation in the field. This section was very useful for the consortium since not only shared best practices, showed practical examples but also opened partners' horizons concerning the innovative and collaborative teaching techniques and tools something that they will use on WP2, WP3 and WP4.

2nd Presentation Material

The Presentation of Professor Konstantinos Koutsogiannis was shared openly with the consortium through the [Admin Project Platform](#) as well as in the share folder on [Google Drive](#).

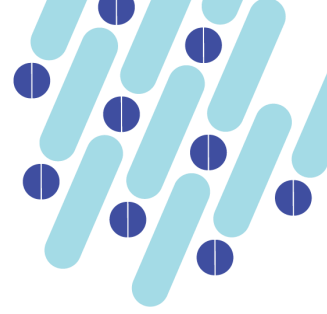
2.3.5 EVIDENCE

In this section are material and photos that were taken during the 3rd Learning Mobility Event as well as the video recording from the session:

Video Recording from the Learning Mobility Event:

<https://ap.adminproject.eu/files/index/index/2365?qj#folder=73571>

Poster from the Learning Mobility Event:



3rd Learning Mobility Session

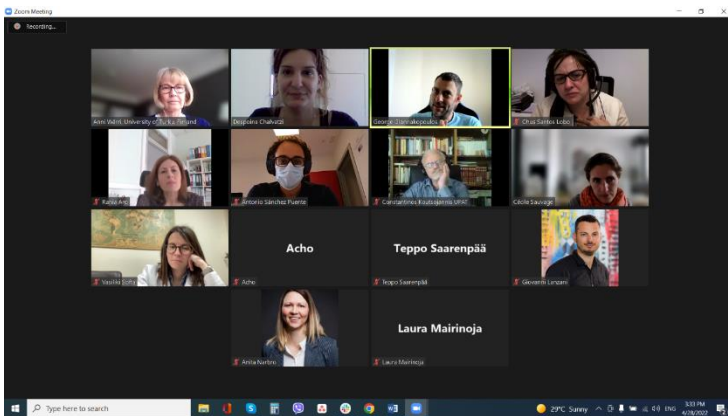
Innovative & Collaborative Teaching Methods

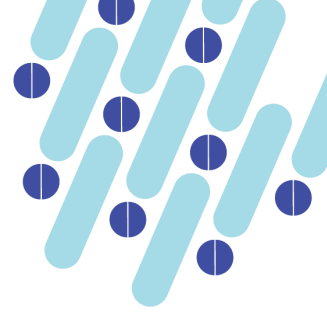
How to create multidisciplinary working teams?

28.04.2022 Thursday
14:00-15:00 CEST time





Screenshots from the Learning Mobility Event:





The group: Indicative idiosyncrasies



- The early adopter
- The sceptic
- The collaboration-prone
- The siloed
- The threatened
- The tradition-locked
- The hype-locked
- The know-it-all
- The silent
- ...

www.scify.org

Example: Roadmap and implementation

- Keep an agile approach
- Be present to facilitate
- Revisit (learning) objectives to fine-tune them
- Estimate effort realistically
 - Use PHours per task
 - Estimate deadlines based on realistic time allocation per person/role
- Roadmap from day 1
 - ...revised periodically and iteratively
- Have everyone describe their contribution
- Recapitulate and improve

**Gamification:
3D Virtual Worlds Technology
in Education**

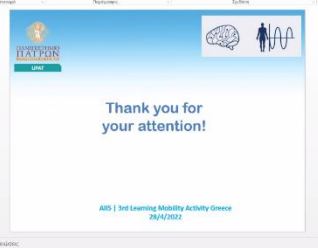

Constantinos Koutsojannis
University of Patras, Greece

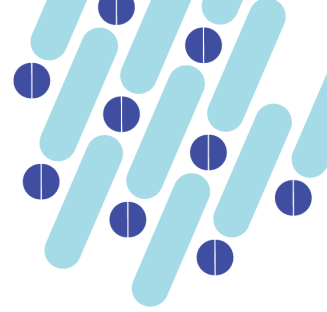
AIS | 3rd Learning Mobility Activity Greece
28/4/2022




Thank you for your attention!

AIS | 3rd Learning Mobility Activity Greece
28/4/2022



2.4 4th Learning Mobility Event - Finland 18.11.22

Activity description	the 4th Learning Mobility Event, which was held in Finland on 18th of November 2022 and organized by University of Turku. The topic of this learning mobility was: " Integration of learning programme in official learning pathway."
Date (dd-mm-yyyy)	18-11-2022
Partner	UTU
Type	Event
Place	Finland
Activity number of participants	20

2.4.1 Objectives of Learning Mobility

University of Turku (UTU) organized the 4th Learning Mobility Event about "Integration of learning programme in official learning pathway", more specifically "Presentation of ECTS implementation" on 18th of November 2022. The Learning Mobility Event was organized as a videoconference in Zoom.

The objectives of this learning session were:

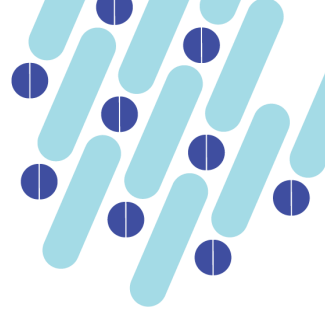
1. To introduce the ECTS system and how it is applied in AIIS context
2. To offer a practical approach to ECTS and course validation
3. To present the AI academy teaching at UTU
4. To present digitalization in medicine, eHealth and MEDigi

2.4.2 Attendees

As previously mentioned, the participants in this educational activity were members of the consortium from all project partners including one member of the European Commission.

The table with the participants is detailed below.

	Name of the Participant	Organization	Country
1.	Chus Santos	USAL	Spain
2.	Pedro L Sanchez	USAL	Spain
3.	Cecile Sauvage	MEUS	Spain
4.	Clara Brotons	MEUS	Spain
5.	Antonio Sánchez Puente	CIBER	Spain
6.	Pablo Pérez-Sanchez	CIBER	Spain
7.	Rania Aro	UMONS	Belgium
8.	James Hayward	GDD	Netherlands
9.	Vasiliki Softa	UTH	Greece



10.	Despoina Chalvatzi	SciFY	Greece
11.	Werner Ravyse	TUAS	Finland
12.	Anita Narbro	TUAS	Finland
13.	Elina Laitonen	UTU	Finland
14.	Sanna Salanterä	UTU	Finland
15.	Reetta Mustonen	UTU	Finland
16.	Leena Strauss	UTU	Finland
17.	Laura Mairinoja	UTU	Finland
18.	Anni Wärrri	UTU	Finland
19.	Seyed Hosseini	UTU	Finland
20.	Faidra Diona	The European Commission	

2.4.3 Speakers

All the speakers were selected based on their experience in the subject of teaching Medicine with Artificial Intelligence or experience and knowledge in ECTS validation and integration of official learning pathways. Validation is the process where new courses are fully approved by the University. Validation ensures that academic standards have been secured, content and learning outcomes are in line with EQF and students will have a great learning experience.

First Leena Strauss from UTU team warmly welcomed everyone and introduced the utu team. Leena also briefly introduced Turku to the participants.

1st Speaker

The first speaker was Werner Ravyse, Senior lecturer at Turku University of Applied Sciences.

Topic of the presentation was: [How are ECTS implemented in AIIS?](#)

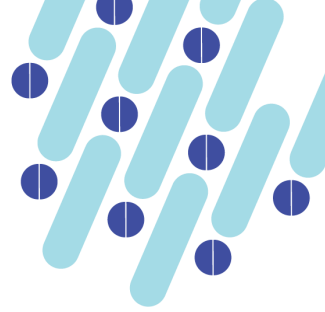
Website: <https://www.tuas.fi/en/about-us/contact-info/1692/werner-ravyse/>

Email: werner.ravyse@turkuamk.fi

Short Bio and expertise in topic

Werner Ravyse is working as a senior lecturer at Turku University of Applied Sciences. Werner Ravyde is also a Doctoral Researcher, Department of Computing, University of Turku. Competences: Game technology.

Werner Ravyse and colleagues from Turku University of Applied Sciences have been developing the AIIS EduVerse platform. In the presentation Mr Ravyse introduced us the rationale of the learning program design, how ECTS are constructed and the rationale of the micro-credentials.



2nd Speaker

The second speaker was Sanna Salanterä, Professor and Vice Dean of Medical Faculty, University of Turku. Topic of the presentation was: [Practical approach to ECTS](#).

Website: <https://www.utu.fi/en/people/sanna-salantera>

Email: sansala@utu.fi

Short Bio and expertise in topic

Sanna Salanterä is Professor of Clinical Nursing Science and Vice Dean of Medical Faculty, University of Turku. Sanna Salanterä's research focuses on digital applications developed to support patients and health professionals. As a Vice Dean of Medical Faculty one of her responsibilities is curriculum development.

3rd Speaker

The third speaker was Reetta Mustonen, Doctoral researcher, University of Turku.

Topic of the presentation was: [Course Validation](#)

LinkedIn Profile: [linkedin.com/in/reetta-mustonen-0078bab4](https://www.linkedin.com/in/reetta-mustonen-0078bab4)

Website: <https://www.utu.fi/en/people/reetta-mustonen>

Email: ramust@utu.fi

Short Bio and expertise in topic

Reetta Mustonen has experience in designing and implementing continuing professional development in the health care sector. Reetta has acted both as a coordinator and as a teacher in web-based continuing education courses offered by the Department of Nursing at the University of Turku. In addition to her research work, Reetta is also inspired by the topics related to online teaching and continuing education that she works on. Reetta's interests include interprofessional collaboration in health and social care, continuing education, pain management nursing and fundamental care.

4th Speaker

The forth speaker was Riitta Rosio, Doctoral researcher, Project researcher, University of Turku.

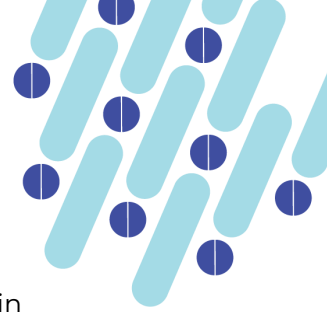
Topic of the presentation was: [AI academy- teaching, AI at the University of Turku](#)

Website: <https://www.utu.fi/en/people/riitta-rosio>

Email: riitta.rosio@utu.fi

Short Bio and expertise in topic

Riitta Rosio's research is concentrating on the development of the smart pain assessment tool and promoting the pain management of patients who are not able to communicate verbally. Interests include: Pain assessment and Internet of Things in



healthcare. Riitta Rosio works e.g. as a teacher in the continuing education of pain management nursing and also in AI academy.

5th Speaker

The fifth speaker was Teijo Saari, Professor and Chair, Head of Department, Anesthesiology and Intensive Care, University of Turku.

Topic of the presentation was: [Digitalization in medicine, eHealth and MEDigi](#).

Website: <https://www.utu.fi/en/people/teijo-saari>

Email: teisaa@utu.fi

Short Bio and expertise in topic

Teijo Saari is a specialist in anesthesiology and intensive care and cardiac anesthesia at the Turku University Hospital, Finland. Since 2004, he has been conducting research on clinical pharmacology examining the pain therapeutics and anesthetics and developing pharmacometric models for precise drug dosing. His PhD work evaluated drug-drug interactions between antimycotics and drugs used in anesthesiology and pain medicine (University of Turku, April 2005). In 2011-2013 he worked as post doctoral fellow in University of Erlangen-Nuremberg, Germany in pharmacometric research project: 'PEP' – Personalized Effect-Controlled Pharmacotherapy. Since 2013, he has lead his research group focusing on acute pain medicine. In January 2017, he was appointed to Tenure Track as Associate Professor and in June 2021 as Full Professor and Chairman of Anesthesiology and Intensive Care at the University of Turku.

2.4.4 Learning Outcomes

The Learning Outcomes of this mobility session were the increation of the knowledge of ECTS implementation and the validation at Universities and particularly in this AIIS course, and how the artificial intelligence has been used in medical education. The seminar programme was left loose by including about 10 minutes for discussion in each presentation. Based on the direct feedback on seminar, the seminar was usefull and well received.

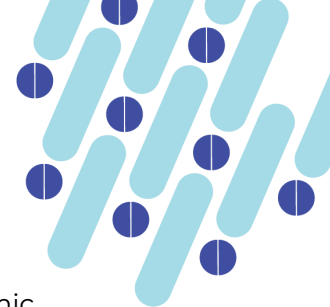
1st Section

Highlights of 1st Section (Best Practices & Methodologies)

The first section topics were:

- [How are ECTS implemented in AIIS?](#)
- [Practical approach to ECTS](#)
- [Course Validation](#)

Werner Ravyse started with defining ECTS and explained us how the ECTS were implemented in AIIS course. At the end of the presentation, all participants stepped into EduVerse, through video presentation. Sanna Salanterä described in more detail how credit loads are planned and assessed in the university. She also presented ECTS in practice: ECTS calculation and student workload calculation in practise.



Reetta Mustonen talked about course validation. Validation ensures that academic standards have been secured, content and learning outcomes are in line with EQF and students will have a great learning experience. Reetta presented the work and ideas behind the validation tool that will be used in AIIS course. At the beginning of the presentation, listeners could answer a short poll at menti.com.

1st Presentation Material

The Presentations were shared openly with the consortium through the Admin Project Platform and on Google drive.

Werner Ravyse [How are ECTS implemented in AIIS?](#)

Sanna Salanterä [Practical approach to ECTS.](#)

Reetta Mustonen [Course Validation](#)

2nd Section

Highlights of the 2nd Section (Best Practices & Methodologies)

The second section topics were:

- AI academy- teaching, AI at the University of Turku
- Digitalization in medicine, eHealth and MEDigi.

Riitta Rosio and Teijo Saari presented us how Artificial Intelligence and Digitalization have been used in medical education at University of Turku. The AI Academy offers a 25-credit multidisciplinary study module for students at the University of Turku and in the open university. The main focus of the module is on understanding the basic principles and applications of AI, as well as the economic, legal and ethical aspects of AI.

Teijo Saari presented eHealth and MEDigi project. MEDigi provides a systematic implementation of digitalization to undergraduate medical and dental education in Finland. The objective of the project is to harmonise and modernise medical education in Finland by utilising digitalisation in medical and dentistry teaching. The project is part of the national development work of medical education. The aim of harmonising and digitising national teaching is to ensure the high-level competence of graduating students in the Finnish health care system and to safeguard digital abilities in the changing information society.

2nd Presentation Material

The Presentations were shared openly with the consortium through the Admin Project Platform and on Google drive.

Riitta Rosio: [AI academy- teaching, AI at the University of Turku](#)

Teijo Saari: [Digitalization in medicine, eHealth and MEDigi](#)

2.4.5 EVIDENCE

Video Recording from the Learning Mobility Event:

<https://echo360.org.uk/media/8394abd0-3981-44ed-b37b-dd1c9207bf02/public> OR



<https://drive.google.com/file/d/1dZgS81THf2jdTrpdL8fsuqvmOa02NqC/view?usp=sharing>

Poster from the Learning Mobility Event:



Artificial Intelligence, Innovation & Society, the future of medicine – AIIIS

Learning activity
Videoconference, Friday 18.11.22
10:00-13:30 CET

Join Zoom Meeting

<https://utu.zoom.us/j/67280063048>

Meeting ID: 672 8006 3048

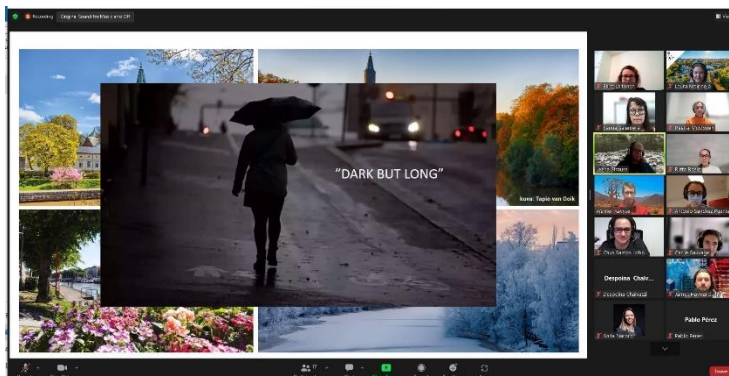
10:00	Welcome Each presentation includes 10-15 min of discussion	Leena Strauss Docent, University Lecturer Institute of Biomedicine University of Turku
10:10	How are ECTS implemented in AIIIS?	Werner Ravysse Senior lecturer Turku University of Applied Sciences
10:40	Practical approach to ECTS	Sanna Salanterä Professor, Vice Dean Medical Faculty University of Turku
11:10	Course Validation	Reetta Mustonen Doctoral researcher University of Turku
11:40-12:30	Break	
12:30	AI academy- teaching AI at the University of Turku	Riitta Rosio Doctoral researcher, Project researcher University of Turku
13:00	Digitalization in medicine, eHealth and MEDigi	Teljo Saari Professor and Chair, Head of Department University of Turku
13:30	Closure	

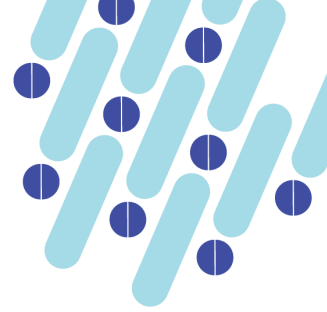


621534-EPP-1-2020-1-ES-EPPKA2-KA

This project has been funded with support from the European Commission. This project reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.
AIIIS meeting

Screenshots from the Learning Mobility Event:





2.5 5th Learning Mobility Event - Spain 13.09.23

Activity description	The 5th Learning Mobility Event, which was held in Spain on 13th of September 2023 and organized by University of Salamanca, CIBER and MEUS. The topic of this learning mobility was: "Fostering University / SMEs relationships"
Date (dd-mm-yyyy)	13-09-2023
Partner	USAL, CIBER & MEUS
Type	Event
Place	Spain
Activity number of participants	16

DATE September 13th 2023

HOUR 11:00 – 14:00 CET Time

PLACE Zoom : <https://usal-es.zoom.us/j/83536177326>, ID: 835 3617 7326

2.5.1 Objectives of Learning Mobility

The goal of this seminar was to feed the partners with the examples of University / SMEs relationships and public/private partnership that can foster AI innovation in the medical and healthcare sector.

LEARNING OUTCOMES

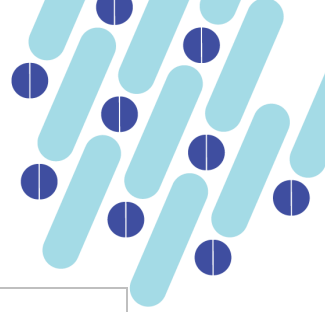
Being able to detect partnership opportunities and review examples of cooperation and results achieved.

BEST PRACTICES

1. ITI
2. Neurofixpharma
3. Corify Care

2.5.2 Attendees

The table with the participants is detailed below:



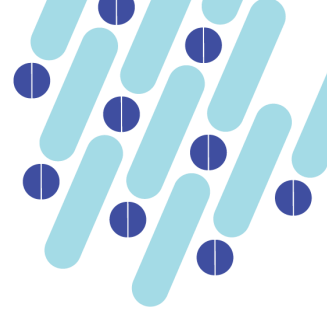
	Name of the Participant	Organization
2.	Emiliana Pizarro Lucas (Mili)	University of Salamanca
3.	M ^ª Jesús Santos Lobo (Chus)	University of Salamanca
4.	Antonio Sanchez Puente	Centro de Investigación Biomédica en Red (CIBER)
5.	Pedro Dorado (Acho)	Centro de Investigación Biomédica en Red (CIBER)
6.	Cécile Sauvage	Markeut Skills SI (MEUS)
7.	Teppo Saarenpää	Turku University of Applied Sciences (TUAS)
8.	Werner Ravyse	Turku University of Applied Sciences (TUAS)
9.	Reeta Mustonen	Turku University (UTU)
10.	Constantin Kappas	University of Thessaly (UTH)
11.	Rania Aro	University of Mons (UMONS)
12.	Laura Mairinoja	Turku University (UTU)
14.	Despoina Chalvatzí	SciFY - Epistimi Gia Sena Astki Mi Kerdoskopiki Etairia
15.	Leena Strauss	Turku University (UTU)
16	Anni Wärrí	Turku University (UTU)

2.5.3 Speakers

Francisco Javier Pérez-Benito

Francisco Javier Pérez-Benito studied Mathematics and Technical Engineering in Computer Systems at the Universidad de Salamanca. He also has a Ph.D. in Mathematics from the Universitat Politècnica de València and his doctoral thesis, "Healthcare data heterogeneity and its contribution to machine learning performance". Since May 2018, he has been working at the research group PRAIA (Perception, Recognition, Learning and Artificial Intelligence) at the Instituto Tecnológico de la Informática (ITI), where he cooperates with other entities in R&D projects related to health. He is currently an Associate professor in the Applied Mathematics Department of the Universitat Politècnica de València.

Website: <https://www.iti.es/>



Email: fjperez@iti.es

François Signol

François Signol holds a PhD in Physics from the University of Paris-Sud (Orsay, France). He is also a telecommunications engineer from the Ecole Nationale Supérieure d'Electronique d'Informatique et de Radiocommunications de Bordeaux (ENSEIRB, Bordeaux, France). In addition, he holds 2 masters degrees: one in Computer Science obtained at the University of Paris-Sud and the second in Signal Processing obtained at the University of Bordeaux I. Since 2011, he works at the Instituto Tecnológico de Informática (ITI) in the Perception, Recognition, Learning and Artificial Intelligence (PRAIA) group participating in R&D projects in collaboration with other entities. As researcher and project manager, he develops R&D activities in bioinformatics, bringing Artificial Intelligence and Machine Learning techniques to the service of Healthcare. He actively collaborates in projects related to acute myeloid leukaemia, breast cancer, hospital readmission, sepsis, covid-19, type 2 diabetes, endometriosis, alcoholism and mental health.

LinkedIn Profile: <https://www.linkedin.com/in/francois-signol/>

Website: <https://www.iti.es/>

Email: fsignol@iti.es

Alexandra Rondón Mujica

She holds a degree in Chemistry and Pharmaceutical Technology from the University of Chieti (Italy) and a Master's degree in Drug Evaluation and Development from the University of Salamanca. Her professional experience includes Research and Development, Project Management and Innovation roles across several European countries.

LinkedIn Profile: <https://www.linkedin.com/in/alexandramabelrondonmujica/>

Website: <https://neurofixpharma.com/>

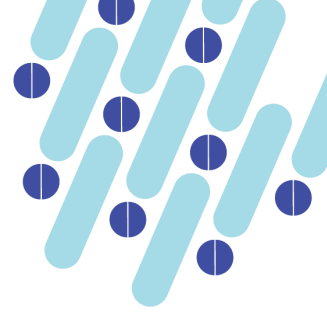
Email: program.assistant@neurofixpharma.com

Alejandro Muñoz López

Biotechnologist graduated by University of Salamanca. He has developed planning and communicational skills during various years as researcher trainee at the renal and cardiovascular diseases research group and parasitology department in the University of Salamanca. He has complemented his studies in biotechnology as graduated in Expertise in Bioinformatics and Computational Genomics. Currently he is developing business plan in Neurofix S.A.

LinkedIn Profile: <https://www.linkedin.com/in/alejandroml0pez/>

Website: <https://neurofixpharma.com/>



Email: director.early.development@neurofixpharma.com

Andreu M Climent

Andreu Climent is an engineer with a Ph.D. in electronics. He has spent the majority of his career working in cardiology departments, both in Spain, such as at the Marañón Hospital from 2012 to 2019, and abroad, including stints in Germany and the Cleveland Clinic in the United States. With a resume that boasts over 50 scientific articles, 5 patents, and several European projects under his leadership, he has also been a Juan de la Cierva and Ramón y Cajal researcher. Among his many accolades, he was awarded European Innovator of the Year in 2020 by the European Institute of Innovation and Technology for his startup, Corify Care, which he launched in 2019. At Corify, they are developing a medical device to improve the treatment of cardiac arrhythmias, and he is here to discuss this groundbreaking work.

LinkedIn Profile: <https://www.linkedin.com/in/andreu-m-climent-19972028/>

Website: <https://corify.es/>

Email: acliment@corify.es

2.5.4 Learning Outcomes

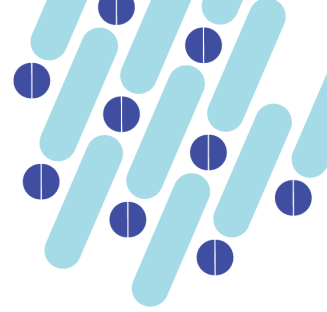
1st Section – Panakeia: Artificial Intelligence and Big Data to support Healthcare

With PANAKEIA, show an example of how Artificial Intelligence and Big Data support Healthcare. The objectives, results and future direction developed in the PANAKEIA project will be presented. The aim is to bring artificial intelligence to the healthcare sector to help anticipate the evolution of patients or the needs of hospital resources. We are focusing on two diseases of interest for which we are developing predictive models to support medical staff in their decision making through software tools.

Highlights of 1st Section (Best Practices & Methodologies)

Panakeia showed two different artificial intelligence models they developed for diagnosing breast cancer and predicting the evolution of treated leukemia patients. They showed the technology and knowledge required for their development, and how a validation is produced to show the results trustfully to the clinicians. In both cases they highlighted the importance of supporting clinical decisions with the additional information that these artificial intelligence models can provide, and showed a platform to grant healthcare an easy access to these technologies.

2nd Section – Neurofix: Bridge between Academia and Start-Ups: Tech Transfer and AI collaborations



The presentation will focus on three main axes:

First the relationship between the University and Neurofix. Secondly the EU training schemes to foster university-business relations.

And in the last part some issues arising in the case of Intellectual Property and AI Successful international collaborations were also addressed.

Highlights of 2nd Section (Best Practices & Methodologies)

This session focused on the essential importance of collaboration between academia and business to generate innovation and employability through an exchange of knowledge, resources and experience.

The different types of University-industry collaboration were discussed and the benefits for both parties were detailed, reinforcing the idea that the benefits have to be balanced for both parties.

In addition, some examples of good practices of collaborative projects between the University of Salamanca and Neurofix were presented.

On the other hand, the management of the intellectual property of artificial intelligence was discussed. A good practice of a successful collaboration between the University and Alexnet was presented, identifying the key elements of success and outcomes.

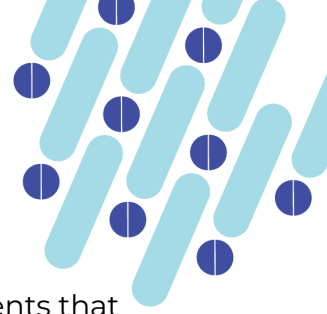
3rd section – Corify: Innovating and translating science: From Academic Research to Real-World Impact

CORIFY is an example of translational science. This start-up was born out of academic research, a 2004 scientific paper on the measurement of the heart electrical signals beyond the capabilities of a normal EKG, to offer a product ready to improve the quality of life of patients, a jacket that allows clinicians to identify the pattern of a cardiac arrhythmia and plan how to solve it, with more than 700 scans performed. This talk focuses on the challenges and opportunities to bring basic scientific research to real use in healthcare.

Highlights of 3rd Section

Andreu presented the original academic research in which CORIFY is based, and explained that despite the success of the research and the promising results, it was not changing the way patients are treated in a hospital. They were limited by the availability and cost of the CT technique they originally used, and they focused on how to overcome those limitations. This led to a development of innovative solutions based on a much cheaper prototype jacket and the use of AI in its interpretation.

Still, that was not enough to attract the attention of the industry, as it was still very academical. Andreu highlighted how big healthcare companies do very little



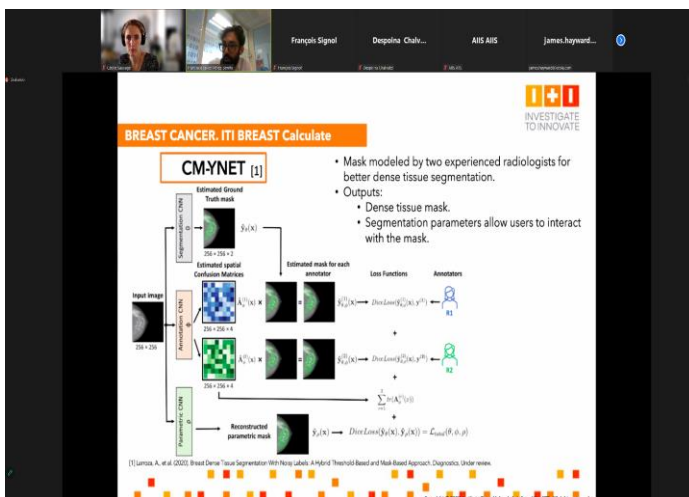
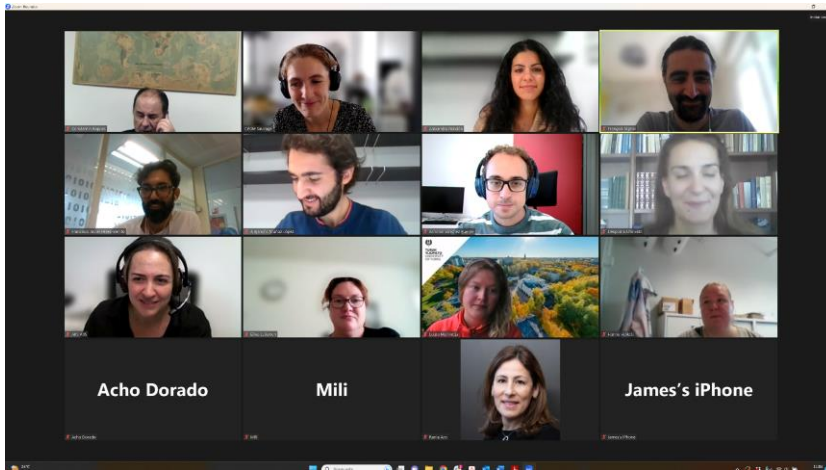
development of their own products, but are used to buy start-ups or patents that are ready for commercialization. To attract their attention there needs to be a product, "something you can put in a box", but to develop that public funding is not enough, so they created a start-up to attract private funding. And it should not be viewed as a selfish financial decision, but as the necessary jump to move from academic research to real-world impact.

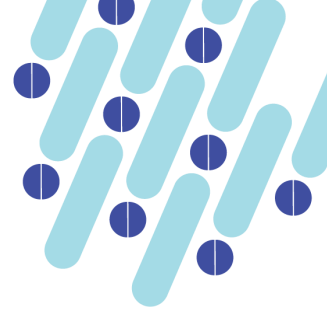
2.5.5 EVIDENCE

Video Recording from the Learning Mobility Event:

https://drive.google.com/file/d/14MwasOMMD-CWZUBHDn1fY45oOsFRZ9QY/view?usp=drive_web

Screenshots from the Learning Mobility Event:





N-day complication risk


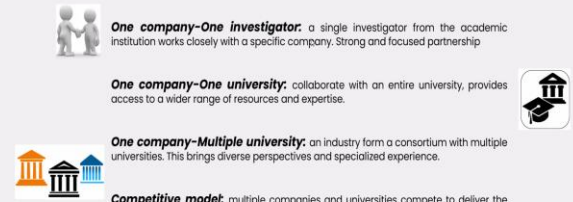
- Predict the evolution of the disease could help to therapeutical decisions.
- With data available at diagnosis, anticipate a possible complication at n days.
 - Complications: resistant disease, recurrence or death.
- Adapt therapy


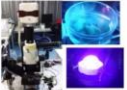






Collaboration Models

There are various models of collaboration between Industry and Academic institution.

- One company-One investigator:** a single investigator from the academic institution works closely with a specific company. Strong and focused partnership.
- One company-One university:** collaborate with an entire university, provides access to a wider range of resources and expertise.
- One company-Multiple university:** an industry form a consortium with multiple universities. This brings diverse perspectives and specialized experience.
- Competitive model:** multiple companies and universities compete to deliver the best solution, driving innovation and cost-effectiveness.

Single Cell Patch-Clamp	Monolayer Cell Culture	Tissue Structure Cardiac Slices	Ex-vivo Studies Whole Heart	In-vivo Studies Small and Large Mamalian	Clinical Studies Electroanatomical Mapping
					
20um-500um	500um-5mm	5mm-60mm	Whole Heart	Chronic Models	Invasive & Noninvasive
Mathematical Modelling					
