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Welcome to our first newsletter!

This newsletter is the best way for you to discover what we are doing, to receive regular updates on our activities, their outcomes, next steps, highlights you may have missed, hand-picked articles and events related to additive manufacturing and healthcare.

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Introducing ALADDIN

ALADDIN is an Erasmus+ project, pursuing the integration of additive manufacturing (3D printing) in the health sector. Additive manufacturing (AM) is the production of 3D objects using a digital file. A printer adds layers of material until a solid 3D object is formed. AM has vast potential in the health care sector. It has the ability to improve medical care while reducing the healthcare costs and time patients need to spend under direct care. It allows digital versatility and quick prototyping which makes it a key tool for rapid responses in emergencies such as the COVID-19. However, it has not been fully adopted in the sector.

ALADDIN will help its adoption by developing a specific training programme on AM in hospitals. The

training programme will target health professional working in hospitals and engineering students with a future in the health sector. By training these two key players the project will ensure that both profiles work as a team in a complementary and coordinated way from the beginning until the end of the treatment process, securing better coordination and understanding between both sectors. The project will therefore develop customised learning content, teaching guide and eLearning platform.

Meet the Partners

The consortium is composed of 6 members with complementary capacities and in charge of different project activities.



The Technological Institute of Plastics are the project coordinators and are in charge of the Development of the Training Contents.



The Advanced Manufacturing Research Centre is part of the **University of Sheffield** are in charge of the Development of the Eplatform.



Translational Medical Device Lab & Health Innovation Hub Ireland will be in charge of the Exploitation and Sustainability activities of the project.



The Medical Technology Innovation Platform with IDIVAL as its representative are in charge of the Validation Actions and quality assurance of the project.



Jobs@skills is in charge of the Development of the Training Methodology.



The **European Hospital and Healthcare Federation** are in charge of Communication Activities.

Updates & Activities

New Webpage

The official project website is now live!

The website contains all information on the project, and its partners in English, French and Spanish.



Survey results

From January to February 2021 ALADDIN project launched a survey to gain a better understanding of the needs of its target audience (engineers and healthcare professionals). The survey had three main objectives:

- Clarify the profile of these two key players, define their needs in terms of knowledge and skills;
- Mapp the skills and qualifications that doctors and technicians currently possess and those they need to make proper use of the technology;
- Their requirements in terms of pedagogical modalities and methods, with a focus on online courses.

The results showed four main profiles/doctors and physicians; surgeons, biotechnologist etc.; physical therapist and other occupational therapists; and engineering professionals. Although each group showed slightly different interests in the AM value chain and topics for the training, both showed a desire to make better links between them.

The survey also helped identify topics in high demand such as the advantages and disadvantages of each AM technology; and acquiring the knowledge to choose the most suitable technologies for their future AM-labs in the hospital.

Interesting Articles

- [A novel aerosolisation mitigation device for endoscopic sinus and skull base surgery in the COVID-19 era](#)
- [Protective face shields 3D printed for NHS workers](#)
- [New research project will use machine learning to advance metal alloys for aerospace](#)
- [How does finite element simulation help in the development of your product?](#)
- [El Laboratorio de Impresión 3D del Gregorio Marañón 'importa' el modelo de hisopos del Hospital Virtual Valdecilla](#)

Upcoming Events

5th Additive Manufacturing Forum 2021

The AM conference brings together the decision-makers and experts of the additive manufacturing value chain. More than 1,200 participants exchange information on AM applications and the latest developments with 135 exhibitors and 60 speakers, on two days. The 5th Additive Manufacturing Forum 2021 will take place as a hybrid event, i.e. in Berlin and online during July 21-22, 2021.

[More](#)

Aspectos clave en la impresión 3D de materiales plásticos

La nueva acción formativa de AIMPLAS tendrá lugar el 3 de Junio de 2021. La formación ofrece mejorar el conocimiento de las tecnologías de Fabricación Aditiva más relevantes en el sector del plástico; Detectar y comprender los posibles defectos producidos en la fabricación por impresión 3D; y Identificar los aspectos a tener en cuenta para la impresión 3D.

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