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## Hello SAM community!

Welcome back to our **yearly newsletter**! After the flash news you received in September, we wanted to update you about all the **developments** that regarded the project during the last year. 2022 has been a hectic year, trade fairs have started again and the world started working as pre-Covid times again, thus generating new opportunities. In this context, our team has been more active than ever!

We are pleased to send you the fourth and final edition of the Sector Skills Strategy in Additive Manufacturing (SAM) project e-newsletter with the latest **updates** on the project, **events**, and other related **news** about what happened during the fourth year of the project.

We wish you a **wonderful holiday period**, and we hope you'll be able to spend it with your family and recover well ahead of the new year!

**SAM project team**

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### IN THIS ISSUE

1. **SAM: an extra semester of work!**
2. **Project news**
3. **Events**
4. **Project articles and papers**
5. **Join our community: last chance**

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## 1. SAM: an extra semester of work!

As you all know, SAM has been working hard in the last year in order to build the bridge between the existing industrial workforce and the skills needs for the additive manufacturing sector. As such, many companies, training centres, and recruitment agencies engaged with us to discover the opportunities that the system will bring in the years to come.

**The International Additive Manufacturing Qualification System (IAMQS) developed within the framework of the SAM project aims to solve this issue and boost the diffusion of AM technologies around Europe.**

Since the project is coming to an end, it is important to wrap up what has been done. **SAM project** started in January 2019 and it will continue until **June 2023**. Yes, the project has been extended for another 6 months! Therefore, we are approaching the **last period of activities**, aimed at consolidating the qualification system and its sustainability after the end of the funding.

Most of the planned activities have been already put in practice and great achievements have been reached! We extracted for you the latest and most relevant news about the project and the goals reached by the consortium, **a professional team made of 17 partners from 9 countries and supported by a wide network of experts and affiliated entities vertically involved in the AM sector.**



**SUBSCRIBE TO OUR YOUTUBE CHANNEL**

Stay up to date with SAM activities, events, evolutions, and webinars



## JOIN OUR LINKEDIN GROUP

The SAM project observatory promotes a wide range of relevant education and training offers in the field of AM, designed by our experts on direct input from the industry.

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## 2. Project News

### 2.1 AM Observatory Activities

The [AM Observatory Platform](#) is accessible through the SAM website, bringing relevant information about the AM market world, thus covering the anticipation of AM skills needs, the mapping of initiatives, job offers, and training opportunities. One of the most important sections is our International Additive Manufacturing Qualification System (IAMQS), which has been updated with new qualifications and different learning modules on a regular basis. The Observatory ensures the implementation of the IAMQS through its network of training centres as well as its structure made of the Qualification Council (sub-organized in Metal and polymer working groups) and the Industrial Council.

You can find more information about our experts on the dedicated pages in the AM Observatory. In detail, David Wimpenny from MTC leads the [Metal WG](#), Paula Queipo from IDONIAL leads the [Polymer WG](#), while Martin Schaffer from Siemens leads the Industrial Council.



European Management Organisation

**ROLE**

Skills forecast  
IAMQS Rules & procedures



Qualification Council IAMQC

**ROLE**

Management review of quality matters; development & approval of training guidelines; implementation of training courses.

Educational Stakeholders

- AM experts
- AM Education Centres (VET and HE)
- Research Organisations (that provide training)
- National Qualification Authorities
- European Bodies (e.g. DG Education)



AM Industry Council IAMIC

**ROLE**

Identification of new Industrial requirements in terms of training, education and certification; recommendation & prioritizations of new products development & required needs.

Industrial Stakeholders

- End-Users
- OEMs
- Suppliers / Technology Providers
- Research Organisations
- Human Resources Companies
- European Bodies (i.e. DG Research)

## 2.2 Authorised Training Bodies (ATBs)

The system is based on the so-called Authorised Training Bodies (ATBs). These are training centres that agreed to be part of the system, thus expanding the reach and the international recognition of IAMQS.

The IAMQS represents an opportunity for addressing technical contents or emergent technologies which are required by the sector. Therefore, they can easily integrate their programmes and enhance the dissemination of training practices at the national level and in less technologically developed countries.

Joining as an ATB could boost the reach and the results of your educational and training organisation.

👉 If you wish to become an **Authorised Training Body for AM** in your country and start delivering training aligned with the IAMQS, or you would simply like to know more, visit our [dedicated page on the SAM Website.](#)

## 2.3 SAM Course: 1st group of International Metal AM Coordinators

The SAM project platform promotes a wide range of **relevant education and training offers** in the field of AM, designed by our experts on direct input from the AM industry. After the first online course, launched in November 2020, the consortium's activities concerning courses have intensified during 2021 and continued in 2022.

Now, the pilot phase is almost over with **relevant more than 800 students** that have participated. The partners are looking forward to seeing SAM courses take place in the next years across Europe.

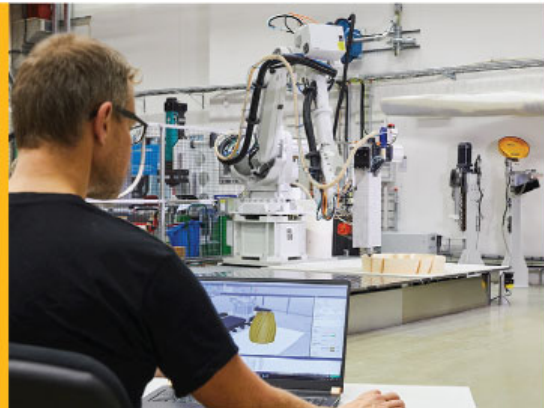
In the last months Advanced Pilot Course "**International Metal Additive Manufacturing Coordinator**" has been planned, launched, and kicked off in November with more than 50 students registered, confirming the adequacy and usefulness of the training programs.

With an overall duration of 175 hours, the course will last until May 2023.

# ADVANCED TRAINING COURSE INTERNATIONAL METAL ADDITIVE MANUFACTURING COORDINATOR

Online Course | November'22 – May'23 | Duration 175 Hours

Do you want to be  
among the first group  
of professionals  
qualified for  
coordinating  
AM activities for  
Industry?



👉 Did you miss them? Do not worry! **Our team is working to provide you with AM courses from 2023 onwards. Check out our latest [training offers](#) and register now.**

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## 2.4 Podcast Series

In 2022, SAM consortium has published three podcasts (episodes 4, 5, and 6) that you can find

👉 [clicking here](#) 👉

- The fourth one focused on open science in **Additive Manufacturing** focused perspectives and opportunities for innovation and **professional qualifications**.
- In the fifth episode, Mr. Bento Alves from ISQ provided insights on the use of **Printing Non-Destructive Testing** in Additive Manufacturing.
- In the sixth podcast, Dr. Freddy Moriniere, from ANSYS (United Kingdom) provides insights on **Design for AM (DfAM)**. The talk was guided by Donna Dykeman also representing Ansys.

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## 3. Events

SAM started again to perform its events in live format. The developments related to the Covid-19 pandemic allowed the consortium to have the **first in-person transnational meeting after more than two years**. Participation to fairs, final conference, open days,

participation.



**Check out what we have done this year and prepare yourself for the closing activities in view of the last mile!**

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### **3.1 International AM Conference**

EFW, the coordinator for SAM, celebrated its 30th Anniversary, and organised an entire week focused on emphasizing state of the art & innovative developments in Additive Manufacturing and its industrialization around the world.

The conference took place on the **19th** and the **20th of October in Lisbon** (Portugal). Activities included live **technical presentations** from government, academia & Industry, as well as topic-related panelists and invited speakers for discussions.

During the **first Annual International Additive Manufacturing Conference**, attendants had also the chance to participate in social events, such as dinner, industrial visits and City Tour around Lisbon, are also foreseen.



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### 3.2 SAM Webinar Series

In 2022, [👉 three new chapters 👉](#) have been added to the list of our webinar series. **Check out the upcoming events and register for FREE.** In the meantime, you can visit our [YouTube page](#) and have a look at our past Webinars.

#### 19th of July

The webinar has been moderated by Kenan Boz (EPMA) and Beatriz Dominguez (Materialise) and **counted on the special participation of: Michel Janssens** (Materialise), **Irina Rinta Kiiikka** (Head of the Medical Imaging Department at Tampere University Hospital), **Antti Lehtinen** (Specialist in Dentomaxillofacial Radiology), **Joakim Lindhardt** (Head of 3D Printing Centre Aarhus University Hospital).

The speakers presented the current developments and **applications of AM in the Medical industry**, as well as the potential for wider adoption of AM, driven by the opportunities brought by the major changes in the medical sector.

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You can find the recording [👉 clicking here 👉](#)

materialise  
innovators you can count on

### Many other medical areas

- ▶ Cardiology
- ▶ Pneumology
- ▶ Neurology
- ▶ Kinesitherapy
- ▶ Prostheses
- ▶ ...

July, 2022 | Dr. Michel Janssens | 12

### 3.3 TECH4KIDS - 3D Printing, an environmentally friendly technology

In October, our partner EWF and SAM participated in the **FICA Festival** (Oeiras, Portugal), which aims to inspire and capture the attention of children and adults, create new audiences for science and use the arts to communicate exciting science and technology.

In this context, a specific TECH4KIDS activity was designed, intending to introduce the wider school students community (from preschool to secondary education) to the characteristics, advantages and potential of 3D printing, in particular regarding its predisposition to create new parts from recycled raw materials or used products.

👉 Check the details on our [website dedicated page!](#)

### 3.4 AM Open Day

As part of raising awareness and outreach activities by the SAM Project, an AM Open Day event was organized in the framework of the **Athens Science Fair**, a festival devoted to Science and Innovation and an established cultural landmark in the field of Science, Technology, Innovation, and Art in Greece. The festival was conducted under the auspices of the Ministry of Development and Investments and the General Secretariat for Research and Innovation of Greece.

Specifically, LMS (University of Patras) organised SAM participation and the Open Day took place **on the 22nd and 23rd of October 2022.**





## 4. Project Articles & Papers

Read our latest publications by clicking directly on the icons:



**RECOGNITION OF PRIOR LEARNING:**  
An Agile Mechanism for Upskilling in the Field of AM



**METAL BINDER JETTING**

Taking metal AM into high volume production.



**ADDITIVE MANUFACTURING  
FOR A SUSTAINABLE  
INDUSTRY OF THE FUTURE**



## OPEN DATA FOR OPEN SCIENCE IN INDUSTRY 4.0

In-situ Monitoring of Quality in Additive Manufacturing

Scientific Article developed by Politecnico di Milano and published in the **Journal of Quality Technology**

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### 5. Join our community!

Do you work with Additive Manufacturing technology? Is your company implementing 3D printing process? Are you developing an innovative process or you want to endorse our strategy for skills recognition in Additive Manufacturing?

Are you a training institution that would like to reach a European and wider customer base?

Good news! There are several ways to be involved in the SAM project with your expertise, endorsement, or both.

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#### 5.1 SAM Associated Partners

If you would like to be more actively involved in the development of SAM objectives in the years to come you can join the big network of **SAM Associated Partners**. You will have entire access to our internal material, priority for certain events, reserved networking opportunities and many other advantages.

If you are already a SAM Associated Partner, you will be soon contacted by us to explore the future opportunities for you!

👉 [Contact us](#) to receive all the relevant information.

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### 6. Stay Tuned for the final chapter!

If 2022 has been full of news and events, 2023 will close this unbelievable path!

The SAM project consortium is already planning the final activities for the next six months. We have in the pipeline **new Training modules** linked to sustainability for AM for both

March to June!

👉 **Follow us on our social media channels to know more!**



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