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Dear SAM community!

Welcome to our 2023 newsletter! Brace yourself for a captivating journey through the fourth, and last, year of the project, where we will unveil the main accomplishments of the SAM community. This year, we have successfully implemented the 1st European Metal AM Coordinator Course developed four new training modules, alongside the national roll out event of the IAMQS and the update of the Sector Skills Strategy Roadmap for 2023. Be ready for the share memorable share of events and highlights from our journey.

Stay tuned for more updates by visit [our website](#), and joining our dynamic LinkedIn group, [Students, Trainees & Jobseekers in Additive Manufacturing](#) which will keep making a difference in the world of AM.

ting new opportunities. In this context, our team has been more active than ever!

SAM project team

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1. SAM Results Highlights

With most of our planned activities successfully implemented, we have made significant strides towards our goals. Our consortium, composed of 17 partners representing 9 countries, brings together a team of skilled professionals who have worked tirelessly to drive our project's success in the Additive Manufacturing sector.

1.1 AM Observatory Activities

The [AM Observatory Platform](#) provides a comprehensive array of information on the dynamic AM market. It offers insights into the anticipated skills requirements, mapping of initiatives, projects and job opportunities, and training prospects.

The Observatory has been recently updated with information on new funded projects, articles and funding opportunities in AM. SAM "call for experts" will continue open for all **experts wishing to join the IAMQC (International Additive Manufacturing Qualification Council) Education Working Groups** and **IAMIC (International Additive Manufacturing Industry Council) Advisory groups**.

1.2 AM Skills Strategy Roadmap 2023

The [SAM Skills Strategy Roadmap 2023](#) until 2030, has been updated based on SAM project contribution and best practices for the implementation of the European Skills Strategy Roadmap. Globally, the activities undertaken have enabled the following impact:

1. Reduced skills gaps and ensure alignment between the training offers and the industry needs.
2. Increased number of AM Qualified personnel, being by re-skilling, up-skilling or by training the "new" workforce.
3. Increased number of organizations delivering AM Training.
4. Enabled a wider pool of qualified personnel that can "move" between different countries and industrial sectors.
5. Improved foresight of skills needs for the AM Sector.
6. Increased number of people/students trained in AM in the short and long term across Europe.
7. Enabled the information and access to funding to support AM-related skills development and sustainment.



A total of **30 Strategic recommendations for the AM sector** were identified by SAM Sector Skills Strategy Roadmap along with examples and target groups. The recommendations are crucial to support and guide SAM stakeholders, including partners and associated partners, in carrying out future actions for AM competitiveness and growth.

1.3 Update of the International Additive Manufacturing Qualification System (IAMQS)

At the heart of the SAM Observatory Platform, managed by EWF, lies the [International Additive Manufacturing Qualification System \(IAMQS\)](#) that encompasses an array of specialized qualifications tailored to the Metal AM domain. From **Operators** and **Technicians** to **Designers**, **Supervisors**, **Inspectors**, **Coordinators**, and **Engineers**, we have you covered. Additionally, we offer a dedicated **Polymer AM Qualification for aspiring Designers**, ensuring a well-rounded approach to AM expertise.



[ACCESS THE FULL IAMQS AM QUALIFICATION CATALOG HERE](#)

During the project, we have successfully developed four new training modules (named “new competence units (CUs)” to enhance the knowledge and skills in specific areas of AM, namely:

1. **Metal AM Sustainability and Circularity**
2. **Aerospace and Part Quality Control**
3. **Polymer AM Sustainability and Circularity at an advanced level**
4. **Outlook of Professional Careers in Additive Manufacturing at a basic level**

These CUs offer an alternative career path for young individuals and adults who may not have a background in manufacturing technology. Our commitment lies in continually advancing and expanding the range of Competence Units to ensure that professionals are equipped with the necessary knowledge and skills to thrive in the ever-evolving field of AM.

1.4 International Metal AM Coordinators

One notable achievement is the successful completion of our **1st Advanced Course**, titled **"International Metal Additive Manufacturing Coordinator"**, which concluded on May 25th. This milestone course was a collaborative effort involving eight esteemed training organizations across Europe, including MTC, EC Nantes, LMS, IMR, POLIMI, LORTEK, IDONIAL, and ISQ. With the participation of 58 registered students, the course has reaffirmed the value and effectiveness of our training programs.

During the course, we witnessed remarkable outcomes, including the attainment of more than 360 Record of Achievements and the awarding of 35 Diplomas of International Metal AM Coordinator (IMAM-C). Such achievements highlight the practicality and relevance of our approach, meeting the industry's demands and equipping participants with comprehensive

2. Events

2.1 IAMQS National Roll-out Events



SAM project made remarkable progress in the national roll-out of the IAMQS and AM Training, marking a significant milestone in supporting skills development for the Additive Manufacturing industry. In this context, a comprehensive range of actions at both national and regional, were conducted from dynamic campaigns, engaging AM training sessions to impactful networking events towards fostering strategic collaborations among national policy frameworks, training providers and AM companies. Future details about the successful national roll-out activities can be found online, concerning the following some countries [Italy](#), [France](#) [Ireland](#), [Germany](#), [Hungary](#), [Greece](#), [Tunisia](#) and [Portugal](#).

The collaborative efforts of SAM partners are driving the **expansion of AM skills and expertise across diverse geographical locations**, fostering the development of a robust and thriving AM community!

2.2 SAM Assembly in Nantes

SAM consortium had its last final meeting in Nantes, France hosted by Ecole Centrale de Nantes from 30th of May till 1st of June. We delved into the depths of our achievements, charted the course for promoting the remarkable IAMQS and AM Observatory platform, and



Check out more in our [News section](#)

2.3 AM Skills Event & 4th Workshop for the Validation of Skills Needs

The [4th internal workshop](#) held on April 5th, marked a significant milestone for SAM partners. We delved into the latest round of auscultation results collected from industrial organisations and their workers, analysing the insights gathered on the current training needs in Additive Manufacturing.

The workshop provided us with invaluable insights to refine our approach and ensure that we meet the ever-evolving needs of the industry, highlighting the following objectives:

- Analyze industry responses to identify AM skills needs that should be addressed within the next year, focusing on real case scenarios.
- Identify any gaps in professional profiles, skills, and knowledge.
- Compare the evolving needs with industry responses from 2021 and 2022, allowing us to track the progress and changes.
- Reflect on the implications of the results for the IAMQS.
- Identify priorities and topics that require validation with external organizations.

The AM Skills event, held on April 27th in the city of Leuven, Belgium, was a remarkable gathering hosted by Materialise, a global leader in AM. The workshop served as a convergence of brilliant minds, with 45 esteemed experts from across Europe's AM community in attendance. The participants represented academia, research centres, the AM and Defence industries, standards experts, policy makers (including CECIMO), and prominent AM clusters such as the Greek Hub and the Danish Hub. This event showcased the exceptional knowledge and unwavering dedication that drive SAM's extensive network.



👉 Check out more [here!](#)

2.4 TECH4KIDS Events



TECH4KIDS' 23



to enrol in several funny and informative hand-on sessions related to AM technology (3D printing). SAM materials were highly appreciated, such; the SAM the Beaver/AM quiz, Comic Series, Beaver recycling game among others.

3. PODCASTS

Introducing two remarkable SAM podcasts created this year! In the 7th edition, EPMA's Kenan Boz dives into the captivating world of additive manufacturing (AM) and its crucial role in the manufacturing sector as part of the SAM project. In the 8th edition, MTC's David Wimpenny explores various facets of AM, shedding light on its profound impact within the SAM project and the manufacturing industry. These podcasts provide a wealth of knowledge on the multifaceted aspects of AM and its significance for advancing the manufacturing sector.

To find out all the SAM podcasts, click [here!](#)



4. Publications

The SAM consortium has curated a compelling collection of 13 articles that explore diverse aspects of AM training and skills development. Our latest additions highlight the pivotal role of AM in shaping a sustainable industry of the future, expertly crafted by [AITIIP](#) and the impact of the SAM project students' learning experiences developed by the [FAN3D](#). In our continuous effort to keep you informed, we are thrilled to announce the upcoming release of a comprehensive [Booklet](#) that consolidates all 13 articles into a single, invaluable resource. Stay tuned to ensure you don't miss out on the latest updates from SAM.

Stay tuned for this invaluable compilation that captures the wealth of knowledge and

6. Join SAM Community!

As we near the final stages of the SAM project, our commitment to consolidating and sustaining the SAM legacy remains unwavering. To ensure you are well-informed and actively engaged, we encourage you to [visit our website](#), subscribe to our [YouTube channel](#) for the latest [SAM video](#) which provides insights into our identity, activities, and ways to connect with us, and follow us on Twitter [skills4am](#). By doing so, you will gain access to an array of invaluable webinar recordings and a rich collection of SAM materials.

In our endeavour to streamline communication and foster collaboration, we have consolidated our LinkedIn presence into a single group. Join our community of [Students, Trainees & Jobseekers in Additive Manufacturing](#) and position yourself at the forefront of the ever-evolving Additive Manufacturing field.

[Join the LinkedIn group](#)



SAM legacy will continue bringing you more ground-breaking achievements in the world of AM.

Thanks to all partners, associated partners, experts and remaining stakeholder for their active engagement and support.

Follow our social media channels for the latest updates that lay ahead and subscribe to our newsletter for exclusive event invitations!

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

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