

**D7.5 Dissemination Portfolio** 

Subject/Deliverable: D7.5 Dissemination Portfolio

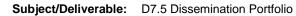


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Final	30/10/2020	Susana Nogueira	EWF	Update of the report	Based on an update of all ADMIRE partners' dissemination activities and final dissemination elements

Author Institution Sign-Off 1	Signature	Date
EWF	Susona Nogueira	30/10/2020
Approval Institution Sign-Off	Signature	Date
	Oignatar o	



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#### 1 Introduction

ADMIRE "Knowledge Alliance for a Dditive Manufacturing between Industry and unive Rsiti Es" dissemination report/portfolio is a live document developed to collect all the evidences of the dissemination tools and activities carried out by Cranfield University, University of Bremen, University of Birmingham, Instituto Superior Técnico (IST), IREPA Laser, Manufacturing Technology Centre (MTC), GKN Aerospace and the European Federation for Welding, Joining and Cutting (EWF), Partners of ADMIRE consortium, periodically updated between January 2017 and October 2020.

This document is composed of a description of the dissemination tools developed to increase ADMIRE impact on key stakeholders from Education and Additive Manufacturing (AM) Industry, and it also contains information about the dissemination activities carried out by all ADMIRE partners, listed in a specific table and sorted out by types for a better comprehension of those activities.

This document starts with a reference to ADMIRE external image definition and its logo, going through press activity, online activity and organization and attendance to events by ADMIRE partners, in line with the Dissemination, Sustainability and Exploitability Plan (deliverable D7.4).

At the end of this document, a list of the activities carried out by all Partners is presented, organised by chronological order. Their respective evidence can be found in Annex 1.

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### 2 ADMIRE Project identity

### 2.1 Project logo and Templates

ADMIRE logo was created in February 2017 to be used by all Partners to identify the project in all dissemination activities:



Figure 1 ADMIRE Logo

In addition to the project's logo, specific Word (used for Deliverables, for example) and PowerPoint (used for events, for example) templates were created, ensuring that ADMIRE was always presented by Partners in a harmonized way, as Figs. 2 and 3 illustrate:



**Figure 2 Word Template** 





Figure 3 PowerPoint template

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### 3 Press Activity (Hard Copies)

#### 3.1 ADMIRE Press Release

In the very beginning, ADMIRE released a statement in the form of Press Release, addressing the objectives and mission of the project in bringing companies from AM supply chain, research centres and universities together to discuss AM workforce qualification.

This Press Release was distributed with all ADMIRE partners for dissemination, was uploaded on ADMIRE website for consultation/download and was published on "Welding and Cutting – Technical journal for welding and allied processes", thus ensuring its visibility.

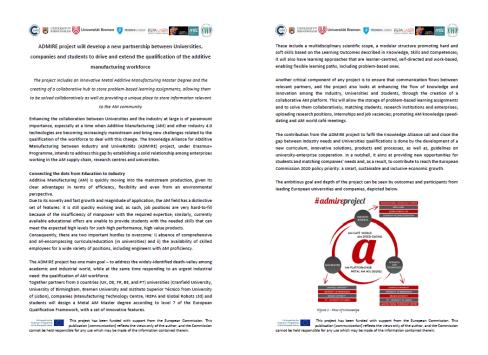


Figure 4 ADMIRE #1 Press Release

A second Press Release was planned to be published in the beginning of November 2020, short after ADMIRE conclusion, to provide to ADMIRE target groups information about the project's achievements and how its outcomes can be implemented by Universities and AM Industry (i.e. ADMIRE European MSc and AM Hub/Platform) at European and International levels.

This Press Release will be shared amongst ADMIRE partners for dissemination and will be available on ADMIRE website for consulting and downloading.

Due to their scope and target groups, both Press Releases were elaborated in EN.

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Figure 4.A 1 ADMIRE #2 Press Release

#### 3.2 Articles on Journals and Publications

#### 3.2.1 International Technical Journal

In the beginning of the project, an article about the ADMIRE project was published in Welding and Cutting Issue 3 (May/June 2017), an international technical journal in English language about welding, cutting and brazing technology and related fields with a circulation of 8000 copies.

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Figure 5 Article on Welding and Cutting (2017) No.3

#### 3.2.2 "Additive Manufacturing – Developments in Training and Education"

Also at the beginning of ADMIRE project, a reference to the project was made on chapter *Professional Training of AM at the European Level* section of the book "Additive Manufacturing – Developments in Training and Education". ADMIRE was highlighted as an example of how companies, universities, training institutions and governments can work together to address the challenge of tackling AM skills needs and shortages. A full description of this reference can be found on <u>ADMIRE website</u>.

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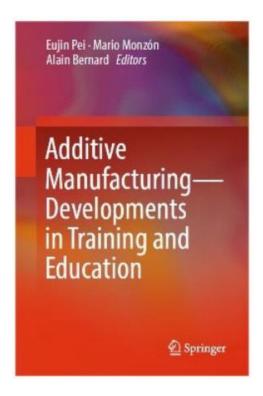


Figure 5a 1 "Additive Manufacturing - Developments in Training and Education" book cover

### 4 ADMIRE Project Flyers

Four different flyers were created to enlighten the general information about ADMIRE. The flyers, which also contain a QR code that leads to ADMIRE website, were distributed at both national and international levels and are also available on the project's website to increase the public awareness.

The first flyer (produced in May 2017) was developed to promote ADMIRE project as a solution to reply to the gap between AM Industry's needs for highly qualified personnel in the field and University qualifications in AM, at European level. It also mentioned the background of each ADMIRE Partner, crucial to achieve the project's purposes of creating/developing a European Metal AM MSc and the AM Hub/Platform:

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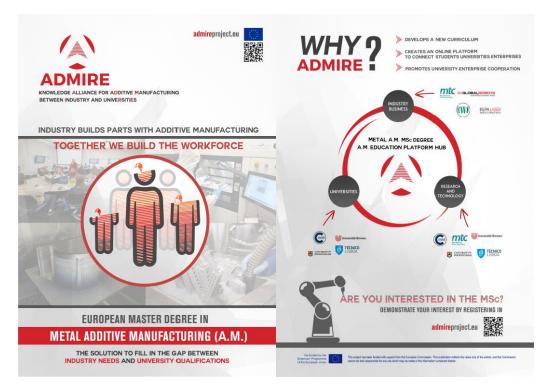


Figure 6 Flyer #1 EN

The second flyer (developed in May 2019) focused on the curricula of the European Metal AM MSc, with a brief summary of each module's contents, informing the readers that the MSc's piloting phase would start in October 2019 and that they should access to ADMIRE website fr more information on how to apply:

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Figure 7 Flyer #2 EN

The third flyer (concluded on December 2019) focused on the features of the European Metal AM MCs and on its benefits for European universities:

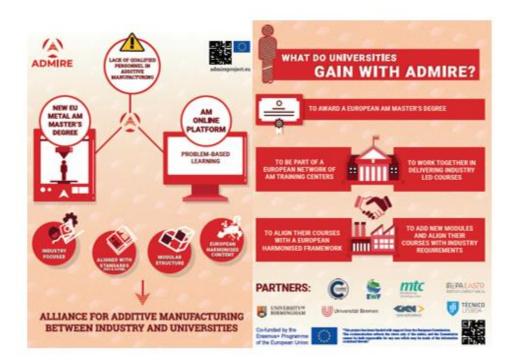


Figure 8 Flyer #3 EN

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Following the extension of ADMIRE project for three more months, the project partners decided to elaborate a fourth flyer, focusing on one of the most important ADMIRE outcomes: the European Metal AM Engineer MSc which, for sustainability purposes, will be implemented by the International AM Qualification System (IAMQS), managed by EWF. This flyer was developed in September 2020 and focused on the advantages provided to Universities of being part of a European Network of Universities and of implementing the European Metal AM Engineer MSc and its specializations. It also provided information about its curriculum:



Figure 9 Flyer #4 EN

All flyers were translated into German, French and Portuguese to bring the project closer to the national target groups/key stakeholders, on the countries of the partnership, as illustrated in the following pages.

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### 4.1 Project Flyers (DE)



Figure 10 Flyer #1 DE



Figure 11 Flyer #2 DE



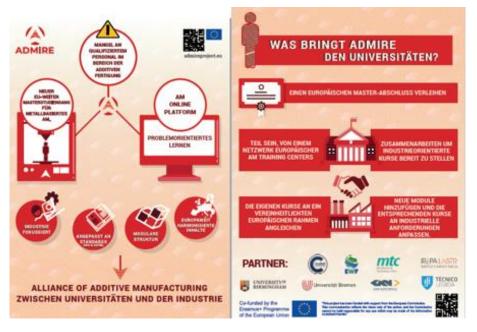


Figure 12 Flyer #3 DE



Figure 13 Flyer #4 DE

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### 4.2 Project Flyers (FR)



Figure 14 Flyer #1 FR



Figure 15 Flyer #2 FR



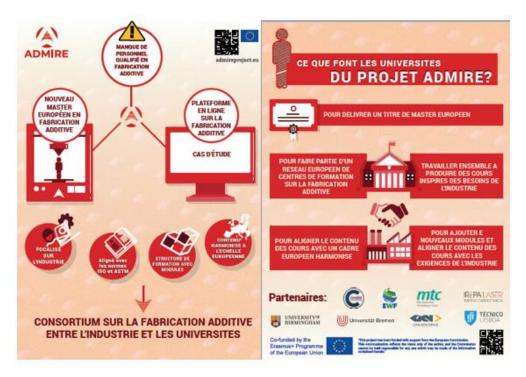


Figure 16 Flyer #3 FR

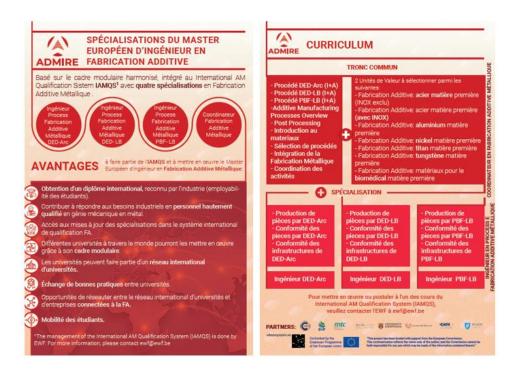


Figure 17 Flyer #4 FR

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### 4.3 Project Flyers (PT)



Figure 18 Flyer #1 PT



Figure 19 Flyer #2 PT





Figure 20 Flyer #3 PT

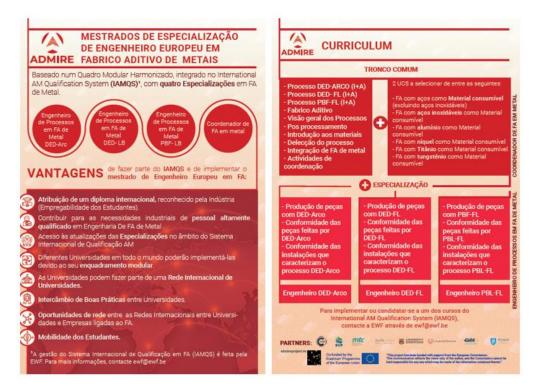


Figure 21 Flyer #4 PT

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### 5 Project Posters

ADMIRE project's posters were created as additional dissemination material in order to promote the project in conferences and other public events where Partners participated. Due to their large printing format, posters were ideal to catch the viewers' attention when displayed on those events.



Figure 22 ADMIRE Poster displayed at EWF 2nd AM Qualification Workshop (October 2018)

#### 5.1 ADMIRE Poster #1

The first poster was produced in October 2017 and focused on the scope of ADMIRE project and on the presentation of the project's Partners and their background (i.e. Industry/Business, Universities and Research & Technology):

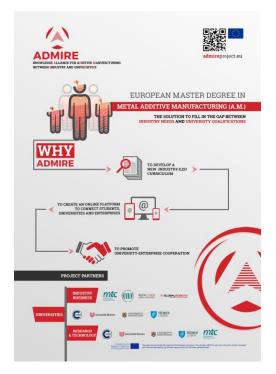


Figure 23 ADMIRE Poster #1 EN

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### **5.1.1** Translated versions

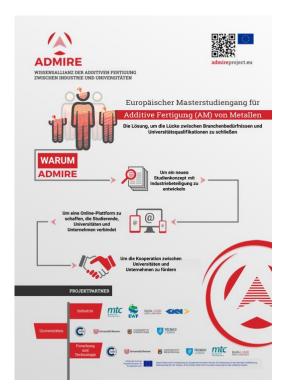


Figure 24 ADMIRE Poster #1 DE

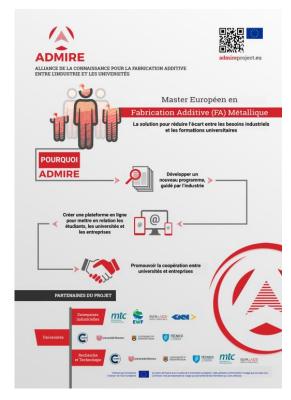


Figure 25 ADMIRE Poster #1 FR

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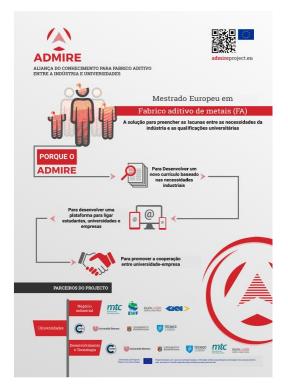


Figure 26 ADMIRE Poster #1 PT

#### 5.2 ADMIRE Poster #2

The second ADMIRE poster was developed in June 2018, focusing on one of the project's purposes: to promote contacts between stakeholders from AM Industry and Education for future endeavors, closing the gap between both sectors:

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Figure 27 ADMIRE Poster #2 EN

#### 5.2.1 Translated versions

This poster was also translated into the languages of the partnership, as illustrated bellow:



Figure 28 ADMIRE Poster #2 DE





Figure 29 ADMIRE Poster #2 FR



Figure 30 ADMIRE Poster #2 PT

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### 6 Roll-Up

Also created as additional dissemination material, a roll-up was developed to be used in ADMIRE meetings and external meetings (e.g. in the scope of other projects addressing Additive Manufacturing), conferences and workshops addressing AM where Partners could participate, as a way to bring the attention towards the project and foster events' participants' curiosity about ADMIRE.

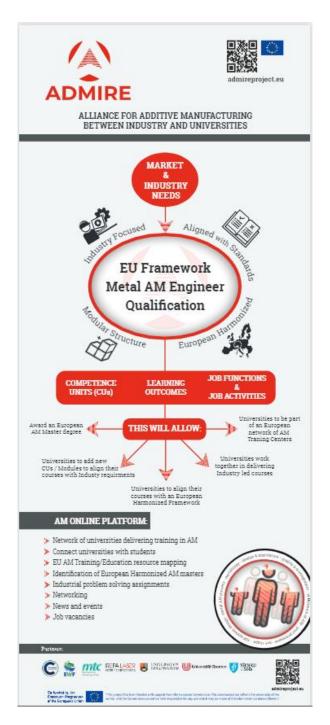


Figure 31 ADMIRE Roll-Up

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#### 7 ADMIRE Newsletters

Newsletters are a mean to publicise the projects' development in terms of activities carried out during a certain period of time and those still to be implemented. ADMIRE had three newsletters, created and circulated among the Partners' networks by email, using a specific platform (MailChimp) to generate links to which key stakeholders could access to read the Newsletters.

Each Newsletter was translated to the languages of the partnership, for a broader reach and uploaded on ADMIRE website and referred Social Media, as described below in this document, to increase their visibility.

#### 7.1 ADMIRE Newsletter #1



Figure 32 ADMIRE Newsletter #1 EN (June 2018)

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### 7.1.1 Translated versions

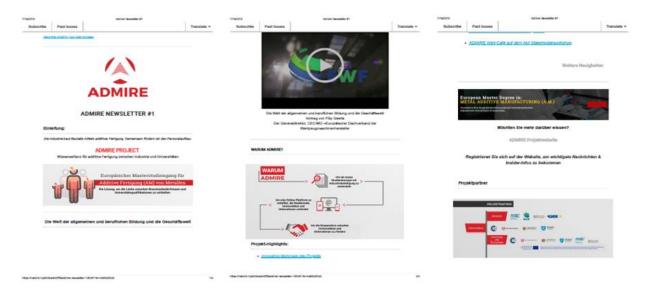


Figure 33 ADMIRE Newsletter #1 DE

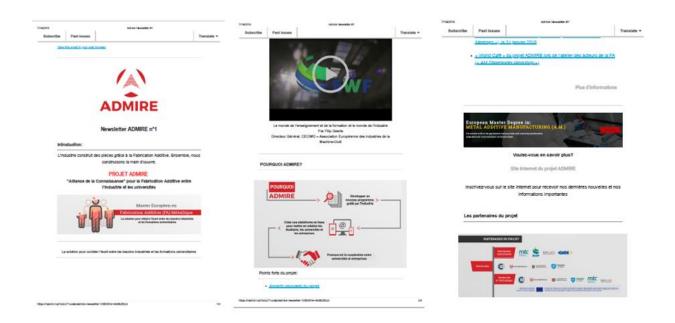


Figure 34 ADMIRE Newsletter #1 FR



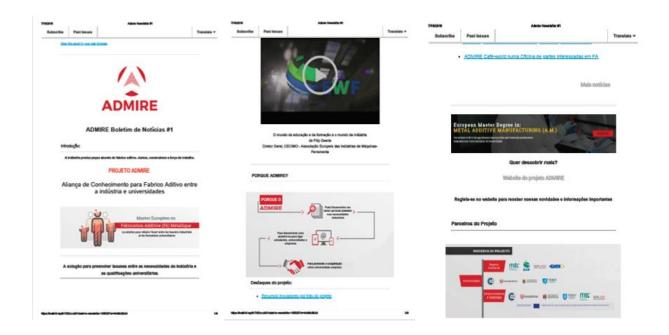


Figure 35 ADMIRE Newsletter #1 PT

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#### 7.2 ADMIRE Newsletter #2



Figure 36 Newsletter #2 EN (June 2019)

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## 7.2.1 Translated versions



Figure 37 ADMIRE Newsletter #2 DE





Figure 38 ADMIRE Newsletter #2 FR





Figure 39 ADMIRE Newsletter #2 PT

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## 7.3 ADMIRE Newsletter #3



Figure 40 ADMIRE Newsletter #3 EN (March 2020)

## 7.3.1 Translated versions

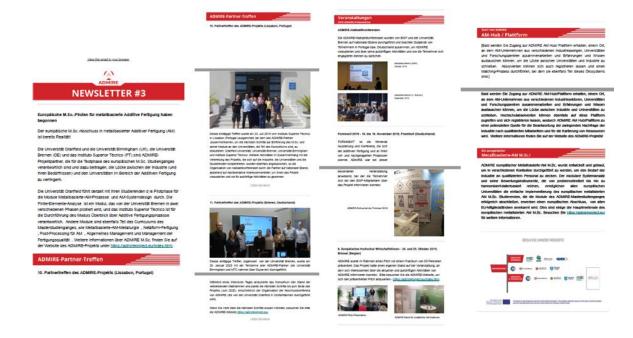


Figure 41 ADMIRE Newsletter #3 DE





Figure 42 ADMIRE Newsletter #3 FR



Figure 43 ADMIRE Newsletter #3 PT

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# 8 ADMIRE: The future is now – The European Metal AM Engineer MSc

In order to have a dissemination product that would assist the exploitation of ADMIRE project, partners developed a "booklet" focusing on the European Metal AM Engineer MSc and on the AM Hub/Platform, created in the scope of ADMIRE.

This product aims at Universities and Students and provides information about:

- The scope of ADMIRE project;
- Features of the European Metal AM Engineer MSc and its curriculum, including a description of the professional profiles addressed by its specializations (in Metal AM Process Engineer and Metal AM Coordinator);
- Information about how Universities can implement the European Metal AM Engineer curriculum and what its advantages are to Students;
- Features of the AM Hub/Platform and information about how to access to it:
- Advantages in using this platform both for Universities and Students;
- Links for ADMIRE website and for AM Hub/Platform.

This "booklet" was uploaded on ADMIRE website and available in English to be consulted/downloaded by its visitors. It was also sent as annex to the email sent to ADMIRE partners' contacts /networks to invite key stakeholders to attend ADMIRE Final Conference. EWF printed 100 copies to use this dissemination tool in future in person events, when possible.



Figure 44 ADMIRE « Booklet » ADMIRE : The Future is Now - The European Metal AM Engineer MSc

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# 9 ADMIRE Partner Organizations' Publications: Reference to ADMIRE Project

Throughout the project, ADMIRE partners were actively engaged in referring the project, its development and results achieved on their own publications.

This specific activity aimed to an add-on in terms of dissemination, engaging key stakeholders from the networks and contacts of ADMIRE partner organizations with the project, to raise their awareness towards the activities carried out and work developed to achieve ADMIRE results and, ultimately, promote their exploitation.

### 9.1 **EWF**

## 9.1.1 EWF Annual Reports

An Annual Report is a comprehensive report on an organisation's activities throughout the preceding year. Annual Reports are intended to give shareholders and other interested people information about the organisations' activities and financial performance.

During ADMIRE lifetime, EWF dedicated a short note to the project in its Annual Reports as one of the organisation's actions, disseminating the project to EWF members and network/contacts. A printed version was used by EWF on several occasions to be distributed among events' participants interested and/or involved in the field of AM.



Figure 45 Cover of EWF Annual Report 2017, where a reference to ADMIRE is made

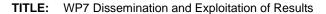






Figure 46 Reference to ADMIRE on EWF Annual Report 2017



Figure 47 Cover of EWF Annual Report 2019 and Reference to ADMIRE project

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## 9.1.2 EWF Corporate Profile

EWF Corporate profile was intended to show EWF's main activities to all its members and key stakeholders. It encompassed an overview on EWF's mission, team and technical committees, focusing also on its key activities, highlights, main projects, core projects and EWF Network Members. ADMIRE was presented in the "Core projects" section of this Corporate Profile.



Figure 48 Cover of EWF Corporate Profile 2018 and References to ADMIRE project

## 9.1.3 EWF White Paper (2019)

ADMIRE project was once again addressed by EWF in its White Paper, a publication which aimed to provide information about the state of the art of Additive Manufacturing in Europe and how EWF have been contributing for the growth of this field with its International AM Qualification System (IAMQS) and EWF's active involvement on several Erasmus+ funded projects, including ADMIRE (presented with a brief summary of its scope and main purposes, with a link for the project's website):

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Figure 49 EWF White Paper (Dec. 2019)

#### 9.1.4 EWF Newsletters



Figure 50 Reference to ADMIRE on **EWF Newsletter** (First semester of 2017)

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A recent contribution was given to the development of new qualifications, such as:

Bonding Processes Personnel – MICROBOND Project

Adhesive Bonding Technology – AdTech Project

Additive Manufacturing – ADMIRE Project

H&S in Electromagnetic Fields in Welding - HS-EMFW Project

DISCOVER OUR ACTIVITY IN EDUCATION & RESEARCH

Figure 51 Reference to ADMIRE on **EWF Newsletter** (Last semester of 2017): Link to ADMIRE website



Figure 52 Banner addressing a collaborative Workshop in which ADMIRE was presented

(EWF Newsletter – March 2018)

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# **10 Online Activity**

In today's world, having a strong online presence is of paramount importance to ensure that projects' activities are disseminated to a wider audience.

In ADMIRE, this effort was done by conducting the following activities:

- Creation of ADMIRE website;
- Creation of news articles for publishing in the official ADMIRE project website;
- Specific publications in the several ADMIRE Partner Organizations' websites;
- Publications across social media platforms (i.e. Facebook, LinkedIn and Twitter).

# 10.1 ADMIRE Project website

As part of the ADMIRE project, a website was developed on behalf of the consortium (with the domain name <a href="https://admireproject.eu/index.html">https://admireproject.eu/index.html</a>) by EWF, with contributions from all ADMIRE partners. This website was the focal point of the project, containing all ADMIRE dissemination tools (as referred in their respective links, above in this report) and also ADMIRE public deliverables, to be accessed and downloaded by all its visitors to be used in the scope of their activities, including after the project's conclusion.

Since May 2017, this website was continuously updated when needed, helping Partners to communicate new information about the project and its activities to the website's visitors (e.g. news about the focus groups, information about the opening of the European Metal AM MSc pilot sessions, link for the AM Hub/Platform, news about ADMIRE Transnational Partners' Meetings, news about the National Roundtables, links for registering ADMIRE AM Symposium 20020 and ADMIRE Final Conference |Skilling the AM Future 2020, etc.). By the end of the project, it reached a total of 12 187, as further described. It continued being updated after the project's conclusion, with news on ADMIRE second Press Release, posted at its general publication on social media (November 11<sup>th</sup>, 2020).

The following pictures show the homepage of the website as it currently appears on the web browser. The website is multiplatform, as it is also prepared to be used on mobile devices.



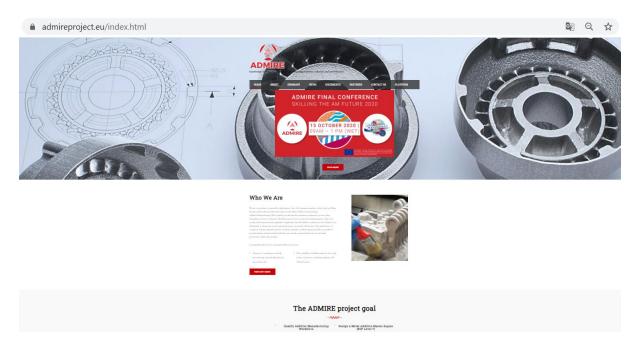


Figure 53 ADMIRE website homepage

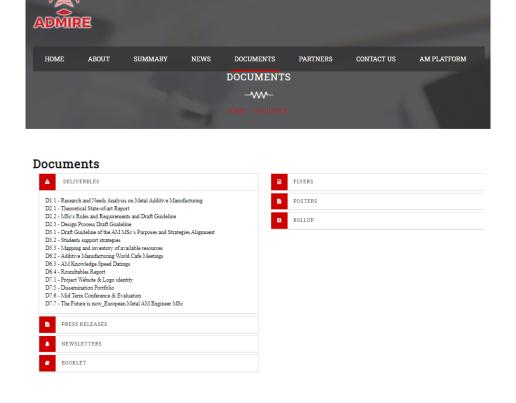


Figure 54 ADMIRE website **Documents section** 







Figure 55 ADMIRE website News section

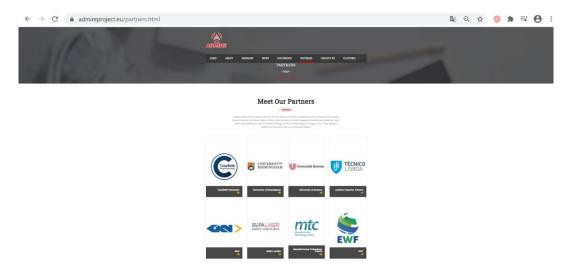


Figure 56 ADMIRE website **Partners section** 

Subject/Deliverable: D7.5 Dissemination Portfolio



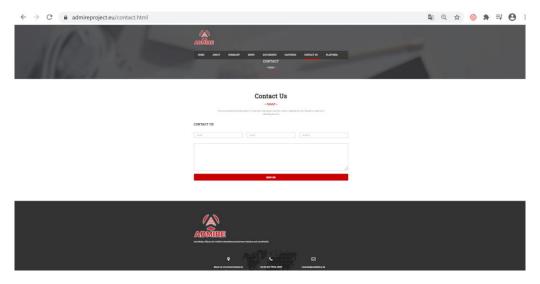


Figure 57 ADMIRE Contact Us section

ADMIRE website has a specific section that allows its visitors to directly access to ADMIRE AM Hub/Platform (deliverable D6.1):



Figure 58 ADMIRE website Platform section

### **10.1.1** ADMIRE Website in numbers

Managed by EWF (ADMIRE partner responsible for updating the website, as previously mentioned), this online dissemination tool provided an overview of ADMIRE, the scope of the project, its goals, innovative features, partners, news to be highlighted, documents (dissemination tools and public project deliverables) and contacts.

Throughout the project's implementation, it was possible to register a growing number of visitors, from all corners of the world.

Subject/Deliverable: D7.5 Dissemination Portfolio



Between May 2017 and 20<sup>th</sup> June 2018 it had **3,237 views/visitors**, most of which were from Europe:

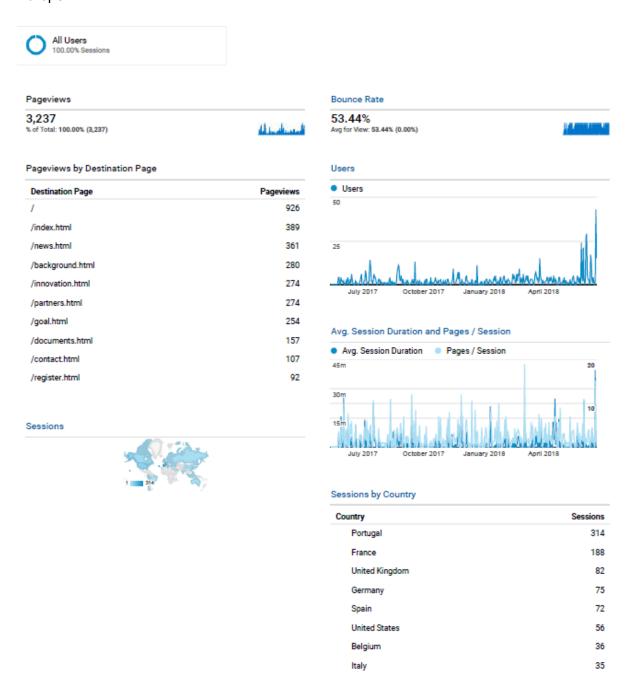


Figure 59 Data analytics on ADMIRE's website (May 2017 - June 2018)

In the figure below, the graphics show that, even though there was a large number of new visitors, 11,5% were returning visitors looking for news about the project (which indicates their engagement with the project's activities):

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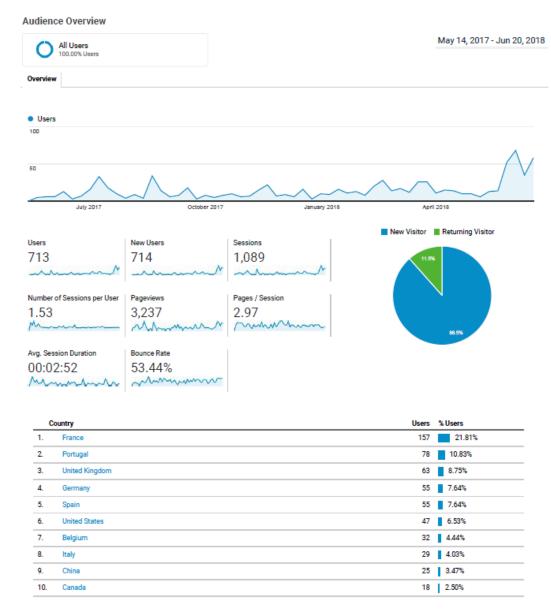


Figure 60 Data analytics on ADMIRE's website (May 2017 - June 2018) II

In the period between the 1<sup>st</sup> July 2018 and August 2020, the number of views increased almost 5 000, with a total of 8 236 views. As seen in the image below, the top three countries to which visitors belonged were United States of America (690), followed by Portugal (585) and United Kingdom (465). It is also interesting to observe that, in this period, ADMIRE website also registered views from India (136) and China (113), an indication of the reach and impact of the project not only at European level, but also beyond borders.

The difference between returning and new visitors kept the same percentage as in the previous period.

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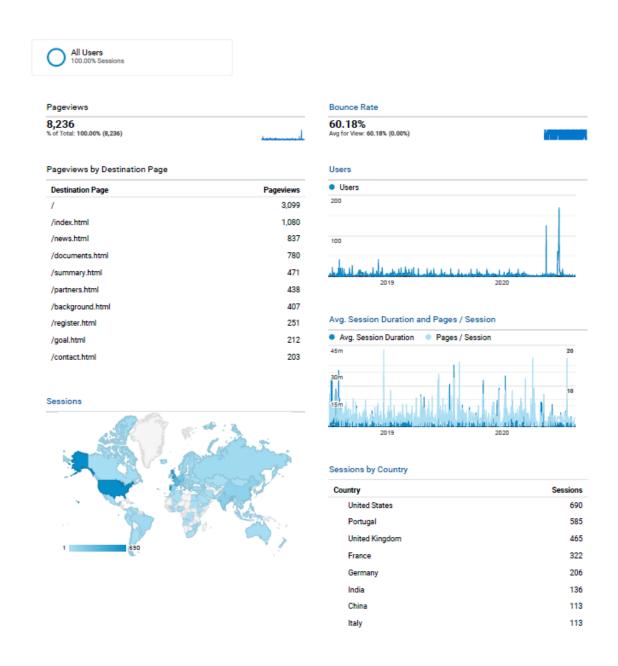


Figure 61 Data analytics on ADMIRE's website (July 2018 - August 2020)

At the end of the project, a final analysis was made to ADMIRE website, focusing on its overall progression since May 2017 (when it was made available to public) until the end of October 2020 (final month of ADMIRE project's implementation).

Figure 62, below, allows to conclude on the success of this website based on the total number of visitors/views: 12 187 (which means that between August 2020, where 8 236 views were recorded, and the end of October 2020, the website had 3 951 visits).

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As for the countries to which the visitors belong, the most represented one is Portugal (with 1 012 visitors), followed by the United States of America (a total of 787 visitors). Other countries from the EU are also represented, with 546 visitors from France and 309 from Germany. The United Kingdom and India also had visitors accessing to ADMIRE website (569 and 148, respectively).

Once again, these numbers prove the scope of ADMIRE website in the four corners of the world, a significant aspect of ADMIRE dissemination activity with an important impact in terms of potential sustainability and exploitation of the project's results:

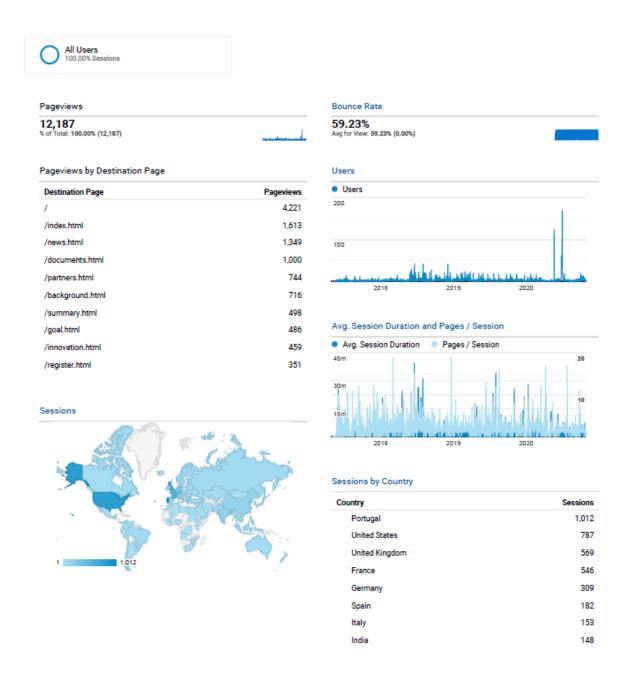


Figure 62 Data analytics ADMIRE Website (May 2017 - October 2020) - Visitors

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Figure 63 shows that the majority of visits was made to ADMIRE website's **Index**, where visitors accessed to information about the project's scope and main goals, to the video made to present the project in an interactive way (i.e. pitch video), dedicated tabs to the most recent news published on the website and information about ADMIRE partners (1 613 visitors), followed by the **News** section (total of 1 349 visitors).

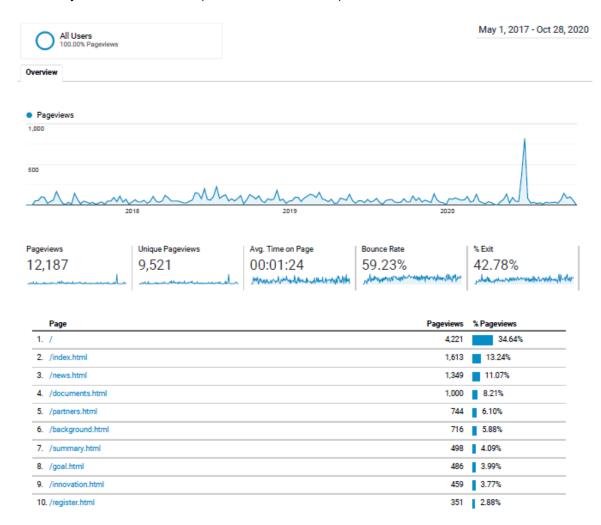


Figure 63 Data analytics ADMIRE Website (May 2017 - October 2020) - Views per Section

Roughly 1 000 visitors accessed to ADMIRE documents, an indication of their interest for ADMIRE results and their potential usage by them, in line with the Dissemination, Sustainability and Exploitation Plan (deliverable D7.4).

In conclusion, ADMIRE website proved to be a successful dissemination tool, narrowing the bridge between ADMIRE project and its target groups, providing them with updated

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information on the project's activities and achievements, with ADMIRE results and a link for the AM Hub/Platform, which also enables its sustainability.

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# 10.2 ADMIRE Partner Organizations' websites

According to the established project's dissemination strategy, most ADMIRE Partners created, within their organisations' website, specific sections featuring ADMIRE information and/or news articles about the project, which enable to reach a specific target group related to Partner Organizations' own field of expertise, whether on Education or AM Industry sectors, or even the general public.

Below are the descriptions and links to ADMIRE partner organizations which created a specific section within their websites to disseminate the project:

### 10.2.1 University of Birmingham

ADMIRE had a special reference on AMPLab website, which is University of Birmingham's Advanced Materials Processing Laboratory (responsible for studying the impact of advanced materials processing techniques, like additive manufacturing or powder processing, on the microstructure-property development in advanced materials):



Figure 64 Reference to ADMIRE at University of Birmingham AMPLab's website

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## **10.2.2** Bremen University

Another example can be found in ISEMP, Airbus Endowed Chair for Integrative Simulation and Engineering of Materials and Processes located at Bremen University which, in addition to researching methods and approaches for numerical simulation of innovative materials and manufacturing processes, also teaches experts in the field of computer simulation, focusing on finite element method.

Information provided by ISEMP about the project can be found in EN and DE:



Figure 65 ADMIRE's reference at <a href="ISEMP website">ISEMP website</a> (contents)

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## 10.2.3 Cranfield University

Cranfield University's webpage has a number of references to ADMIRE to which visitors can access by clicking the respective links. Below an example of the publications made on Cranfield University's website:



Figure 66 Reference to ADMIRE Metal AM MSc on Cranfield University website

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### 10.2.4 EWF

EWF also has a specific section dedicated to Erasmus+ funded projects in its website, which ADMIRE is part of, as seen in the Figure below:

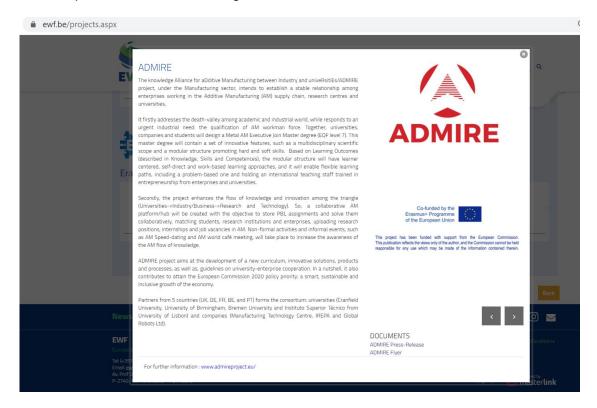


Figure 67 Reference to ADMIRE on EWF's website

EWF kept on publishing news about ADMIRE activities in its website, as exemplified in the Figures below:



Figure 68 News about ADMIRE Capacity Building from Industry to Academia (at Cranfield University)

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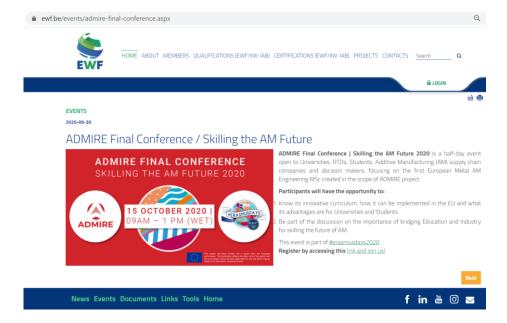


Figure 69 News about ADMIRE Final Conference, with banner and links for registration

#### 10.2.5 IREPA Laser

IREPA Laser also created a specific section in its website (<a href="www.irepa-laser.com/en/news/admire-project">www.irepa-laser.com/en/news/admire-project</a>) to provide its visitors a brief summary of ADMIRE project and information about its role in the project (available in EN and FR).

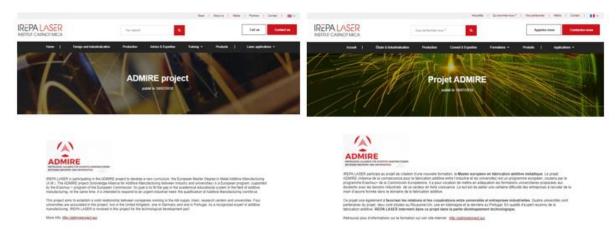


Figure 70 Reference to ADMIRE on IREPA LASER website (EN & FR)

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## 10.3 Social media

Main social media networks (Facebook, Twitter and LinkedIn) were used to promote the news related to ADMIRE.

A hashtag related to the project, (#ADMIREproject), was created to bring attention and assemble all information published about it.

As partner responsible for ADMIRE dissemination, EWF was fruitful in using its Facebook account to share news about the project and its activities with its followers, whenever applicable and/or necessary. Some examples are illustrated by the figures below:

## 10.3.1 EWF Facebook publications

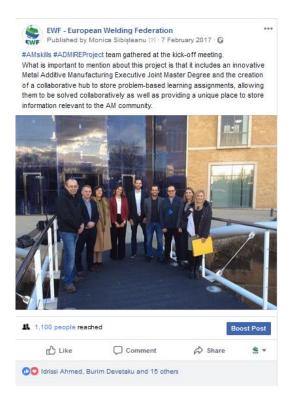


Figure 71 Facebook Post about ADMIRE Kick off Meeting (February 2017)



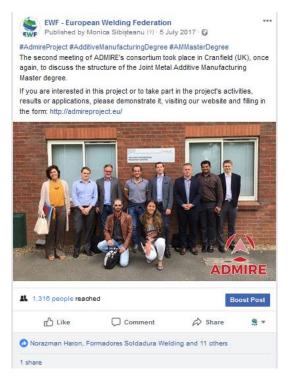


Figure 72 Facebook post 2nd Meeting (July 2017)

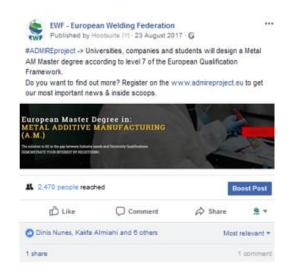


Figure 73 Facebook Posts on ADMIRE project (August 2017)



Figure 74 Facebook Posts on ADMIRE project (August 2017)





Figure 75 Facebook Post about Erasmus+ Knowledge Alliance Cluster (January 2018)



Figure 76 Facebook Post - David Brackett on AM and ADMIRE (February 2018)





Figure 77 Facebook Post - AM Stakeholder Workshop (March 2018)



Figure 78 Facebook Post - News about the ADMIRE project (June 2018)





Figure 79 Facebook Post on ADMIRE's Capacity Building workshop at Cranfield University (September 2018)



Figure 80 Facebook Post to promote ADMIRE website (January 2019)





Figure 81 Facebook Post to inform of the launching of the European Metal AM MSc, at Cranfield University (October 2019)



Figure 82 Facebook Post on ADMIRE's pitch presentation during 8<sup>th</sup> University to Business Forum (Brussels, BE) (October 2019)

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Table 1 Metrics about EWF Facebook activity on ADMIRE (August 2017 - June 2020)

	Table 1 Metries abo	at Evil 1 accook activity on Admin's (Augu	ot zon - bunc zozoj							
facebook										
iacc						Lifetime Post Total Reach				
Date	Post Message	Permalink	Туре	Likes	Shares	Lifetime: The total number of people your Page post was served to. (Unique Users)				

				Lifetime Post Total Reach	Lifetime Post Total Impressions	Lifetime Engaged Users		
Date	Post Message	Permalink	Туре	Likes	Shares	Lifetime: The total number of people your Page post was served to. (Unique Users)	Lifetime: The number of impressions of your Page post. (Total Count)	Lifetime: The number of people who clicked anywhere in your posts. (Unique Users)



7/2/20 20	This week, ADMIRE's AM Symposium 2020 took place and was an online event that gathered more than 80 participants!  Here it was discussed the objectives and results of the project and the importance of Education in AM field. Plus, during this session the attendees had the opportunity to understand how different Universities from the UK, Portugal and Denmark tested the contents of the European Joint Executive Metal AM Engineer Master's Degree course and how Universities can be part of an European Network and implement this Metal AM MSc. ALSO, ADMIRE's AM Hub/Platform was presented, arousing much curiosity among the Symposium participants. Next big event will be ADMIRE Final Conference, in October, stay tuned!  For more info: https://admireproject.eu/ind	https://www.facebook.com/EuropeanWeldingFederation/posts/3548463091849100	Link	11.00	2.00	362.00	451.00	16.00	
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6/5/20 20	As ADMIRE is reaching its conclusion, Partners are committed to carry out its last activities. ADMIRE National Roundtable sessions are currently taking place online, one of which took place yesterday, June 4th, aiming to test ADMIRE AM Hub/Platform.  The purpose of this innovative online Platform is to provide its users access to a European network of Education/Training in AM, access to PBLs created by Industry, allowing Students to have access to real industrial problems and to be part of their solution, and publication of job vacancies by Companies, to which Students can apply.  Access ADMIRE AM Hub/Platform: https://www.ewf.be/admire More about ADMIRE project: https://admireproject.eu/ind ex.html	https://www.facebook.com/EuropeanWeldingFederation/posts/3472588069436603	Link	11.00	3.00	329.00	379.00	14.00	
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semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting							
	https://www.facebook.com/EuropeanWeldingFe	Taret	16.00	0.00	200.00	222.00	22.00
the remaining actions to be	deration/posts/3164754836886596	rext	16.00	0.00	300.00	333.00	22.00
	now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of	semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of the remaining actions to be addressed and to plan the next steps to take, including the organization of ADMIRE's Final Conference (to be carried out by Cranfield University, with support from EWF).  To know more about what's to come, please access ADMIRE	semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of the remaining actions to be addressed and to plan the next steps to take, including the organization of ADMIRE's Final Conference (to be carried out by Cranfield University, with support from EWF).  To know more about what's to come, please access ADMIRE	semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of the remaining actions to be addressed and to plan the next steps to take, including the organization of ADMIRE's Final Conference (to be carried out by Cranfield University, with support from EWF).  To know more about what's to come, please access ADMIRE	semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of the remaining actions to be addressed and to plan the next steps to take, including the organization of ADMIRE's Final Conference (to be carried out by Cranfield University, with support from EWF).  To know more about what's to come, please access ADMIRE	semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of the remaining actions to be addressed and to plan the next steps to take, including the organization of ADMIRE's Final Conference (to be carried out by Cranfield University, with support from EWF).  To know more about what's to come, please access ADMIRE	semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.  ADMIRE 11th Partners' Meeting gathered all project partners in Bremen University (Germany) to analyze the state of play of the remaining actions to be addressed and to plan the next steps to take, including the organization of ADMIRE's Final Conference (to be carried out by Cranfield University, with support from EWF).  To know more about what's to come, please access ADMIRE



11/19/ 2019	Hi!  We are at FORMNEXT, in Frankfurt, Germany! Feel free to visit us at booth 11.0-B71.  Come see how EWF is qualifying the world in Additive Manufacturing!  #FORMNEXT2019 #jobsforthefuture #3dprinting #industry #manufacturing #engineering #visitus #AM #Additivemanufacturing #Qualifications	https://www.facebook.com/EuropeanWeldingFederation/photos/a.181045008590942/29963260 13729480/?type=3&theater	Text	12.00	3.00	449.00	510.00	34.00
10/25/ 2019	This week EWF was present at the 8th University to Business Forum in Brussels! Several projects within the knowledge aliances were presented and pitched. #ADMIRE was one of them!  The event counted with 400 people, and industry as well as university participants were present.	https://www.facebook.com/EuropeanWeldingFederation/photos/a.181045008590942/2938851476143601/?type=3&theater	Text	16.00	1.00	357.00	474.00	22.00



10/14/ 2019	Today is the launch of the new Master's Degree in Metal Additive Manufacturing at Cranfield University through our #ADMIRE project! The new Master's Degree combines technical knowledge with industrial manufacturing skills! It is a highly specialised program for a fascinating and rapidly growing technology and it is considered a cutting edge course for the next generation of engineers. If you are interested in getting to know more about this innovative Master's program, please visit: https://www.cranfield.ac.uk/cou rses/taught/metal-additive- manufacturing	https://www.facebook.com/EuropeanWeldingFe deration/posts/2912908738737875	Link	10.00	2.00	321.00	434.00	18.00
5/20/2 019	#Admire project will design a Metal AM Master degree according to level 7 of the European Qualification Framework. Learn more → www.admireproject.eu/	https://www.facebook.com/EuropeanWeldingFederation/photos/a.181045008590942/26320671 76822034/?type=3&theater	Link	10.00	2.00	299.00	424.00	12.00
1/21/2 019	Additive Manufacturing workforce can only get more skilled with the #ADMIRE project! The project includes an innovative Metal Additive Manufacturing Master Degree. Learn more in: https://admireproject.eu/	https://www.facebook.com/EuropeanWeldingFedera tion/photos/a.181045008590942/243757183960490 3/?type=3&theater	Link	15.00	1.00	439.00	626.00	22.00



10/30/ 2018	During the 53rd EWF General Assembly is highlighted the work developed by so far on developing #additivemanufacturing qualifications to provide a qualified workforce that respond the industry needs.	https://www.facebook.com/EuropeanWeldingFederation/photos/a.687605721268199/2304481876247234/?type=3&theater	Link	11.00	0.00	360.00	493.00	16.00
10/24/ 2018	Having an operational workforce in #AdditiveManufacturing is a must. At #AMEF2018 are presented #ErasmusPlus #EUfunded projects in which we are partners, such as #AdmireProject and #CLLAIMproject that address the #AMskills — em BluePoint Venues (BluePoint Brussels, Région de Bruxelles-Capitale).	https://www.facebook.com/EuropeanWeldingFederation/photos/a.687605721268199/2294394500589305/?type=3&theater	Link	11.00	0.00	285.00	404.00	17.00



-	′9/2 18	#AdmireProject  #AdditiveManufacturingSkills  "If you're going to start additive, you need a staff to work on your machines," said Dr David Brackett, Technology Manager, AM, National Centre for AM, Manufacturing Technology Centre (MTC). https://lnkd.in/guvxyP4	https://www.facebook.com/EuropeanWeldingFe deration/posts/2273043379391084	Link	9.00	0.00	230.00	337.00	10.00
9/2	5/2 18	#ADMIREproject #ErasmusPlus Metal AM master's degree - Capacity Building from Industry to Academia www.admireproject.eu	https://www.facebook.com/EuropeanWeldingFederation/posts/2304017169627038	Link	13.00	3.00	414.00	666.00	34.00
	1/2 18	Check the #AdmireProject Newsletter! Is out! mailchi.mp/7681afe48a09/a dmire-newsletter-68733 - Find out about the European Master Degree in Metal #AdditiveManufacturing #ErasmusPlus		Link	8.00	2.00	239.00	10.00	3.00



1/31/2 018	Today at the #ErasmusPlus Knowledge Alliances Cluster Meeting, we are representing the #ADMIREproject - designing a #MetalAdditive Master degree and qualify the #AdditiveManufacturing workforce - https://goo.gl/NF5f4U	https://www.facebook.com/EuropeanWeldingFedera tion/posts/1930726626956096	Photo	9.00	0.00	301.00	452.00	13.00	
2/20/2 018	#AdmireProject  #AdditiveManufacturingSkills  "If you're going to start additive, you need a staff to work on your machines," said Dr. David Brackett, Technology Manager, AM, National Centre for AM, Manufacturing Technology Centre (MTC).	https://www.facebook.com/EuropeanWeldingFedera tion/posts/1953529778009114	Link	10.00	0.00	300.00	410.00	14.00	



3/20/2 018	Today at the #AdditiveManufacturing Stakeholders workshop about AM Education and Skills in Aachen (Germany) our representative André Cereja gave a presentation stressing the necessity of having a skilled workforce and an AM Qualification System. Projects such as #AdmireProject, #AmableProject #CLLAIMproject and initiatives such as #AMplatform & #AMmotion contributes to the development of new technologies & skilled workforce.	https://www.facebook.com/EuropeanWeldingFedera tion/posts/1988353811193377	Photo	12.00	0.00	216.00	290.00	20.00	
---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	-------	-------	------	--------	--------	-------	--



7/2/20 17	#AMskills #ADMIREProject team gathered at the kick- off meeting. What is important to mention about this project is that it includes an innovative Metal Additive Manufacturing Executive Joint Master Degree and the creation of a collaborative hub to store problem-based learning assignments, allowing them to be solved collaboratively as well as providing a unique place to store information relevant to the AM community.	https://www.facebook.com/EuropeanWeldingFedera tion/posts/1546566522038777:0	Photo	17.00	0.00	1100.00	1893.00	39.00
5/7/20 17	The second meeting of ADMIRE's consortium took place in Cranfield (UK), once again, to discuss the structure of the Joint Metal Additive Manufacturing Master degree. If you are interested in this project or to take part in the project's activities, results or applications, please demonstrate it, visiting our website and filling in the form: http://admireproject.eu/	https://www.facebook.com/EuropeanWeldingFedera tion/posts/1710069619021799:0	Photo	13.00	0.00	1314.00	2295.00	42.00



8/23/2 017	#ADMIREproject -> Universities, companies and students will design a Metal AM Master degree according to level 7 of the European Qualification Framework. Do you want to find out more?  Register on the www.admireproject.eu to get our most important news & inside scoops.	https://www.facebook.com/EuropeanWeldingFederation/posts/1762858957076198:0	Photo	8.00	9.00	2467.00	5242.00	
8/23/2 017	#ADMIREproject -> Do you want to find out more? Register on the https://t.co/XGGjspJ30i to get our most important news & inside scoops.	https://www.facebook.com/EuropeanWeldingFedera tion/posts/1762771267084967	Link	4.00	0.00	192.00	295.00	

Subject/Deliverable: D7.5 Dissemination Portfolio



#### 10.3.2 LinkedIn

#### 10.3.2.1 IREPA

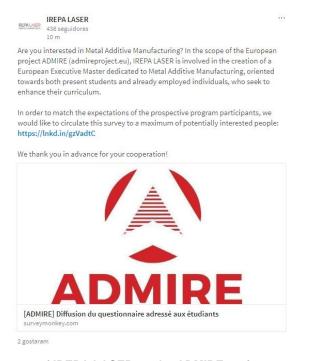


Figure 83LinkedIn post of IREPA LASER on the ADMIRE project surveys (August 2017)

# 10.3.2.2 EWF



Figure 84 LinkedIn post on Erasmus+ Knowledge Alliance Cluster (January 2018)





Figure 85 LinkedIn post regarding David Brackett on AM and ADMIRE (February 2018)

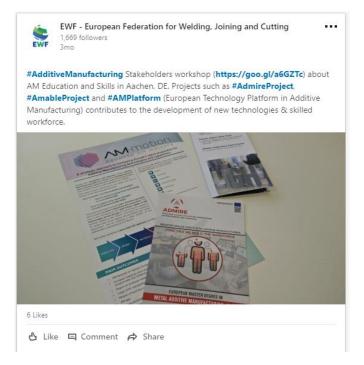


Figure 86 LinkedIn post on AM Stakeholder Workshop (March 2018)





Figure 87 LinkedIn post on news about the ADMIRE project (June 2018)

Subject/Deliverable: D7.5 Dissemination Portfolio



# Table 2 Metrics about LinkedIn activity on ADMIRE



					Impressions	Clicks	Social Actions
Date	Message	Link	Туре	Likes	The number of times each update was shown to LinkedIn members. This includes both organic and sponsored impressions.	The number of clicks on your content, the company name, or the logo. This includes both organic and sponsored clicks, but doesn't include interactions (shares,likes, and comments) or followers acquired.	The number of times that each update is liked, shared, and commented on.
3/20/202	#AdditiveManufacturing Stakeholders workshop (https://goo.gl/a6GZTc) about AM Education and Skills in Aachen, DE. Projects such as #AdmireProject, #AmableProject and #AMPlatform (European Technology Platform in				878.00	11.00	



	Additive Manufacturing) contributes to the development of new technologies & skilled workforce.						
10/30/20		https://www.linkedin.com/feed/update/urn:li:activity:6463011 827143053312/					
18	#education		Photo	13.00	1019.00	32.00	0.04



11/1/201 8	Together with universities, companies and students are involved in the hashtag #ADMIREproject which aims to design a Metal AM Master degree (MSc) according to level 7 of the European Qualification Framework. https://lnkd.in/guXsR37	https://www.linkedin.com/feed/update/urn:li:activity:6463771  720800178176/	Photo	11.00	713.00	17.00	0.04
1/21/201 S	In the #ADMIRE project partners from five countries (UK, DE, FR, BE, and PT) universities (Cranfield University, University of Birmingham, Bremen University and Instituto Superior Técnico from University of Lisbon), companies (Manufacturing Technology Centre, IREPA and Global Robots Ltd) and students will design a Metal AM Master degree according to level 7 of the European Qualification	https://www.linkedin.com/feed/update/urn:li:activity:6493117 184800223233/	Link	12.00	1161.00	16.00	0.03



Framework, w innovative fea Learn more in http//admirep	itures.						
In the #ADMII partners from countries will Metal AM Ma according to let the European Qualification Framework, winnovative fea A capacity bui meeting took 3/14/201 Coventry, at N 9 facilities.	design a ster degree evel 7 of https://www.lin	nkedin.com/feed/update/urn:li:activity:651 920898105344/	1961 Photo	32.00	2294.00	95.00	0.06



	#Admire project was presented to IST students today to promote their engagement in the Metal Additive Manufacturing MSc at Cranfield University. The presentation on the Additive Manufacturing Technologies was a huge success amongst these future engineers.	https://www.linkedin.com/feed/update/urn:li:activity:6516731 254652571648/					
	Lear more about Admire https://lnkd.in/d23pRQk		Photo	8.00	1142.00	62.00	0.06
5/20/201 9	hashtag #Admire project will design a Metal AM Master degree according to level 7 of the European Qualification Framework. Learn more	https://www.linkedin.com/feed/update/urn:li:activity:6536271 397696614400/	Link	18.00	1031.00	29.00	0.05





1	 			
qualification, modelling				
and materials. Practical				
experience will be				
gained through				
assignments and group				
and individual projects in				
close collaboration with				
leading industrial end-				
users.				
If you are interested in				
getting to know more				
about this innovative				
Master's program,				
please visit:				
https://lnkd.in/dEYhbTu				
#additivemanufacturing				
#metal #materials				
#engineers #designing				
#technical				



10/25/2	This week EWF was present at the 8th University to Business Forum in Brussels! Several projects within the knowledge aliances were presented and pitched. #ADMIRE was one of them!  The event counted with 400 people, and industry as well as university participants were	https://www.linkedin.com/feed/update/urn:li:activity:6593509 750577606656/	Text	15.00			
	9 present.				1000.00	36.00	15.00
1/31/202	Having reached its final semester, ADMIRE project is now in a phase where all its activities must be scheduled in order to be concluded by June 2020.		Link	23	1919	62	23



organization of			
ADMIRE's Final			
Conference (to be			
carried out by Cranfield			
University, with support			
from EWF).			
To know more about			
what's to come, please			
access ADMIRE website			
admireproject.eu.			



6/6/2020 F	As ADMIRE is reaching its conclusion, Partners are committed to carry out its last activities. ADMIRE National Roundtable sessions are currently taking place online, one of which took place yesterday, June 4th, aiming to test ADMIRE AM Hub/Platform.  The purpose of this innovative online Platform is to provide its users access to a European network of Education/Training in AM, access to PBLs created by Industry, allowing Students to have access to real industrial problems and to be part of their solution, and publication of job vacancies by Companies, to which Students can apply.  Access ADMIRE AM Hub/Platform: https://www.ewf.be/ad	https://www.linkedin.com/posts/ewf-european-federation-forwelding-joining-and-cutting_as-admire-is-reaching-its-conclusion-partners-activity-6674637041264844800-s308/	- <u>-</u> link	10	885	7	10
------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------	----	-----	---	----



mire			
More about ADMIRE			
project: https://lnkd.in/e9d-DWu			



7/2/2020	This week, ADMIRE's AM Symposium 2020 took place and was an online event that gathered more than 80 participants!  Here it was discussed the objectives and results of the project and the importance of Education in AM field.  Plus, during this session the attendees had the opportunity to understand how different Universities from the UK, Portugal and Denmark tested the contents of the European Joint Executive Metal AM Engineer Master's Degree course and how Universities can be part of an European Network and implement this Metal AM MSc.  ALSO, ADMIRE's AM Hub/Platform was presented, arousing	https://www.linkedin.com/posts/ewf-european-federation-for-welding-joining-and-cutting this-week-admires-am-symposium-2020-activity-6684417579643092992-2bQt/	Link	8	980	10	8
----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------	------	---	-----	----	---



much curiosity among the Symposium participants.			
Next big event will be ADMIRE Final Conference, in October, stay tuned!			
For more info: https://lnkd.in/e9d- DWu.			

Subject/Deliverable: D7.5 Dissemination Portfolio



#### 10.3.3 Twitter



Figure 88 Twitter post on the ADMIRE project (August 2017)



Figure 89 Twitter Post about Erasmus+ Knowledge Alliance Cluster (January 2018)





Figure 90 Twitter Post regarding AM Stakeholder Workshop (March 2018)



Figure 91 Twitter Post on news about the ADMIRE project (June 2018)

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# Table 3 Metrics about Twitter activity on ADMIRE

Date	Tweet text	Tweet permalink	Туре	Impressions  No. of times users saw the Tweet on Twitter	total number of times a user has interact Tweet. This includes all clicks anywhere Tweet (including hashtags, links, avatar, and tweet expansion), retweets, replies and likes.		interacte nywhere avatar, u	on the sername
1/31/20 18	Today at the #ErasmusPlus Knowledge Alliances Cluster Meeting, we are representing the #ADMIREproject - designing a #MetalAdditive Master degree and qualify the #AdditiveManufacturing workforce - https://t.co/hRoUN8gCwH https://t.co/9ovToYtK4w	https://twitter.com/EWF_Welding/ status/958618795190386688	Photo	486	8	2	2	0
3/20/20 18	#AdditiveManufacturing Stakeholders workshop about AM Education and Skills in Aachen, DE. Projects such as #AdmireProject, @amable_eu and @AM_EUplatform contributes to the development of new technologies & skilled workforce. pic.twitter.com/yPhCaugwiM	https://twitter.com/EWF_Welding/ status/976053917887946752	Photo	911	8	1	6	0
6/4/201 8	#AdmireProject - European Master Degree in Metal #AdditiveManufacturing Click here: https://lnkd.in/epmDf7A to read the news about this #ErasmusPlus project, which aims to provide the solution to fill in the gap between Industry needs and University Qualifications.	https://twitter.com/EWF_Welding/ status/1003634917765472259	Photo	1514	25	4	7	6



6/21/20 18	Check the #AdmireProject Newsletter! Is out! http://mailchi.mp/7681afe48a09/admire- newsletter-68733 Find out about the European Master Degree in Metal #AdditiveManufacturing #ErasmusPlus https://twitter.com/EWF_Welding/status/100363 4917765472259	https://twitter.com/EWF_Welding/status/1009715055708049408	Photo	941	9	2	5	0
10/23/2 018	Having an operational workforce in #AdditiveManufacturing is a must. At #AMEF2018 are presented #ErasmusPlus #EUfunded projects in which we are partners, such as #AdmireProject and #CLLAIMproject that address the #Amskills	https://twitter.com/EWF Welding/ status/1054716211425148929	Photo	902	12	1	4	0
11/1/20 18	Together with universities, companies and students, we are involved in the #ADMIREproject, supported by #ErasmusPlus which aims to design a Metal #AdditiveManufacturing Master degree (MSc) according to level 7 of the European Qualification Framework.  https://ewf.be/news/metal-am-masters-degree-capacity-building-from-industry-to-academia.aspx	https://twitter.com/EWF_Welding/status/1058006583538524163	Photo	996	7	1	2	3



3/14/20 19	In the #ADMIRE project partners from 5 countries will design a Metal AM Master degree according to level 7 of the European Qualification Framework, with a set of innovative features. A capacity building meeting took place in Coventry, at MTC facilities. http://admireproject.eu	https://twitter.com/EWF_Welding/ status/1106196616623652864	Photo	940	17	1	5	3
3/27/20 19	http://www.admireproject.eu was presented to @istecnico students today to promote their engagement in the Metal Additive Manufacturing MSc at Cranfield University. The presentation on the Additive Manufacturing Technologies was a huge success amongst these future engineers. pic.twitter.com/ggXTsGLPQu	https://twitter.com/EWF_Welding/ status/1110964633802805253	Photo	276	8	0	1	0
10/25/2 019	This week EWF was present at the 8th University to Business Forum in Brussels! Several projects within the knowledge aliances were presented and pitched. #ADMIRE was one of them! The event counted with 400 people, and industry as well a university participants were present.	https://twitter.com/EWF_Welding/ status/1187744176248709126	Photo	530	0	0	0	0

Subject/Deliverable: D7.5 Dissemination Portfolio



# 10.4 Other online platforms

### 10.4.1 Online general newspapers

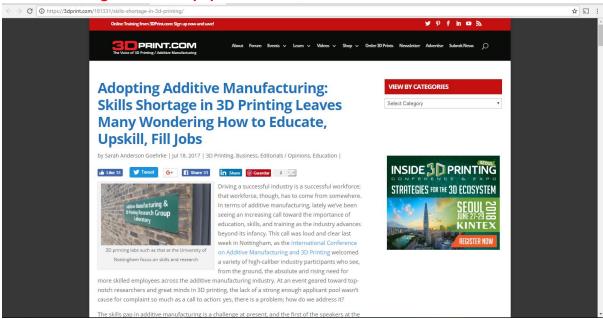


Figure 92 Article about the International Conference on Additive Manufacturing and 3D Printing with mention to <u>ADMIRE project</u>, on behalf of MTC



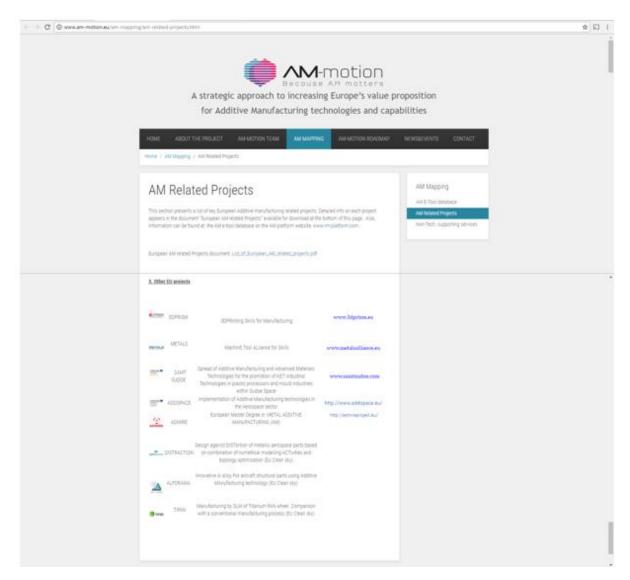


Figure 93 reference to ADMIRE project on AM-Platform website

Subject/Deliverable: D7.5 Dissemination Portfolio



# 10.4.2 Online surveys platforms

Several surveys were developed and distributed using online platforms such as Survey Monkey and Google forms, allowing partners to collect key stakeholders' feedback about the activities in which they participated and use the information on the development of ADMIRE outcomes.

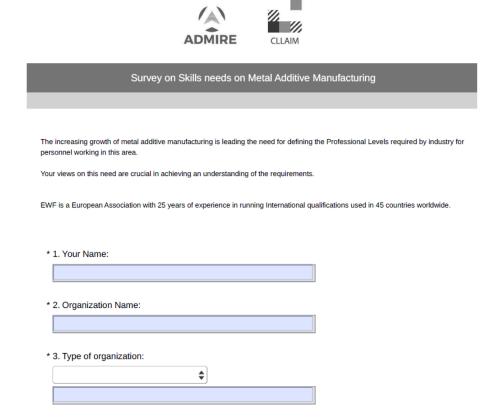


Figure 94 Survey "Skills needs on Metal Additive Manufacturing", using Survey Monkey (I)

Subject/Deliverable: D7.5 Dissemination Portfolio







Survey on Skills needs in Metal Additive Manufacturing - PART II

#### 1. INTRODUCTION

The European Welding Federation for Welding, Joining and Cutting (EWF) is a European Association with 25 years of experience in running International qualifications used in 45 countries worldwide. The increasing growth of Metal Additive Manufacturing (MAM) technology is demanding the definition of new professional levels required by industry for personnel working in this area. EWF is currently performing a research on this topic, being this the second part of a preliminary survey. We are very must interested in collecting your views on the requirements for the following professional profiles:

European Metal AM Engineer
European Metal AM Supervisor
European Metal AM Designer
European Metal AM Inspector / Quality Assurance Supervisor
European Metal AM Operator

This survey was structured based on the results of the first survey.

Figure 95 Survey "Skills needs on Metal Additive Manufacturing", using Survey Monkey (II)

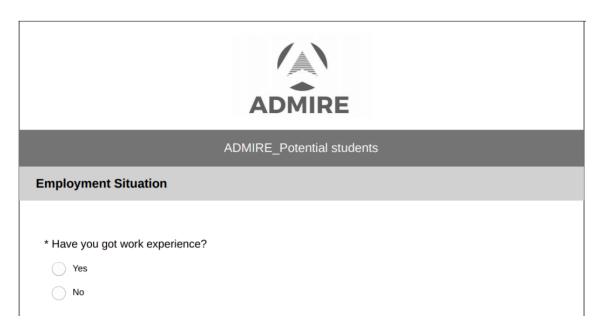


Figure 96 "Potential Students", using Survey Monkey



Αľ	ADMIRE National Roundtable		
Satisfaction Questionnaire			
ADMIRE - 2020 This questionnaire aims to understand your satisfaction degree in terms of the organisation, venue and content of the National Roundtable, carried out in the scope of ADMIRE project. Your participation will help us improve future events. Thank you in advance for your contribution!			
*Obri	gatório		
Rour	ndtable in general		
Ove	rall, are you satisfied with how the roundtable went on? *		
0	Very satisfied		
0	Satisfied		
0	Neutral		
0	Dissatisfied		
0	Very dissatisfied		
Wh	nat is your status ?		
	Teacher-academic,		
	Industrial,		
	Student,		
	Business professional,		
	Researcher,		
	Regulator,		
	Organisation team member		
	Other		

Figure 97 Excerpt of the Satisfaction Questionnaire « National Roundtables », using Google Forms (I)



Are y	you willing to participate in such other roundtable ?
	Yes
	No
	ld you be interested in presenting ADMIRE AM Hub/Platform to other agues?
	Yes
	No
Whic	ch subjects do you want to be developped in such roundtable ?
A sua	n resposta

Figure 98 Excerpt of the Satisfaction Questionnaire « National Roundtables », using Google Forms (II)

Subject/Deliverable: D7.5 Dissemination Portfolio



# 11 Events

#### 11.1 ADMIRE Events

During the project's lifecycle, ADMIRE partners carried out several presentations on the goals and results achieved. Those presentations were made to a wide audience, representing the several target groups of the project, particularly targeted at EWF members, education committees, VET centres, HE education institutions, policy and decision makers, practitioners in general.

ADMIRE dissemination in events comprised dissemination in meetings, conferences, fairs and during the ADMIRE specific events. Some examples are illustrated below.

# 11.1.1 CECIMO Meeting

On the 15<sup>th</sup> of July 2017, an assembly was organized at CECIMO to discuss European Qualification Systems and try to solve the lack of skilled workers in manufacturing, the same problem ADMIRE is tackling. This meeting had an attendance of 3 people.



Figure 99 CECIMO Meeting (July 2017)





Figure 100 Presence List CECIMO General Assembly (July 2017)

Subject/Deliverable: D7.5 Dissemination Portfolio



# 11.1.2 Meeting with Irish stakeholders

ADMIRE project organized a meeting in Ireland on the 23<sup>rd</sup> and 24<sup>th</sup> of August 2017 to discuss the qualification of Additive Manufacturing workforce.



Figure 101 Presence list of Meeting with Irish stakeholders (August 23rd 2017)

**Subject/Deliverable:** D7.5 Dissemination Portfolio





Dublin, Ireland 24th August 2017

Name	Organisation	Country	Signature
Janul Torney Desort Bribagon Lames Loghum Syluno Jonogl	IT 5/40	Toland	92
Dernot Brobigion	beu	Ireland	022
Lames Lagheren	IV- SEMM-UM	Ivelan	& Dames
Island Honogl	un SEAM-WIT	Ireland	Egent Olonsofu

Figure 102 Presence list of Meeting with Irish stakeholders (August 24th 2017)

Co-tracted by the Designation of the European Commission. This publication reflects the siews only of the author, and the Commission of the European Commiss

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# 11.1.3 Schweissen & Schneiden 2017

The ADMIRE project participated in the Schweissen & Schneiden fair from the 25<sup>th</sup> to the 29<sup>th</sup> of September 2017, in Germany, which had an attendance of 25 000 participants.





Figure 103, Figure 104 & Figure 105 Schweissen & Schneiden fair (September 2017)

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# 11.1.4 AM Stakeholder Workshop (ADMIRE World Cafe meeting)

In March 2018 a Workshop on Additive Manufacturing occurred at Aachen (Germany) with an attendance of 40 people. The aim was to set a strategic vision for AM, concerning education needs and validate which curricula needs to be developed and which infrastructure is needed to support skills development, employer's needs and scientific education. Within the scope of this event, the first ADMIRE World Café was organised.





Figure 106, Figure 107 & Figure 108 AM Stakeholder Workshop (March 2018)

Subject/Deliverable: D7.5 Dissemination Portfolio



# 11.1.5 1st AM Qualifications Workshop

Experts in Additive Manufacturing discussed the development of AM Qualifications at the 1st AM Qualifications Workshop hosted by EWF, in Porto Salvo (Portugal), from 8<sup>th</sup> to the 10<sup>th</sup> of May 2018. This event gathered key stakeholders from Education/Research Centers (e.g. Brunel University, Politechnico di Milano, SINTEF and TWI) and from Industry (Voestalpine, FRONIUS and Lloyd's Register).



Figure 109 EWF 1<sup>st</sup> AM Qualifications Workshop in Porto Salvo (May 2018)

# 11.1.6 2<sup>nd</sup> AM Qualification Workshop (ADMIRE AM Knowledge "Speed-Dating)

During the 2<sup>nd</sup> AM Qualification Workshop held by EWF in Porto Salvo (Portugal), on October 2<sup>nd</sup>, 2018, the AM Knowledge Speed-Dating (ADMIRE deliverable 6.3) was carried out involving all 22 participants of the Workshop. Additional information about this activity can be found on D6.3 Report. Similar to the previous EWF AM Qualification Workshop, representatives from Education and Industry sectors were also present, including University of Patras, Fraunhofer, AIMWN, PRODINTEC and General Electric (GE), to name a few.

Subject/Deliverable: D7.5 Dissemination Portfolio







Figure 110 2nd AM Qualifications Workshop in Lisbon (October 2018)

# 11.1.7 International Conference on EWF Qualification System (ADMIRE Mid Term Conference)

During International Conference on EWF Qualification, carried out in Porto Salvo (Portugal) in October 2019, ADMIRE was presented to an audience of 22 participants interested in knowing about EWF's Qualification System and about the Qualifications developed in the scope of some of the projects in which EWF is actively involved. ADMIRE European Metal AM MSc was presented in this collaborative event, carried out to present other projects related to the development of qualifications, including CLLAIM project, to which ADMIRE was also connected. More information about ADMIRE Mid Term Conference can be found on the D7.6 Mid Term Conference & Evaluation report.

Subject/Deliverable: D7.5 Dissemination Portfolio





Figure 111 International Conference on EWF Qualification Agenda & ADMIRE presentation, by Rute Ferraz (EWF Director)

# 11.1.8 4th EWF AM Qualification Workshop (ADMIRE World Cafe meeting)

This Workshop, carried out on 28<sup>th</sup> and 29<sup>th</sup> of October, gathered 13 participants from Education and Industry sectors, represented by entities such as CESOL, LORTEK, IDONIAL, Ensiacet and Laser Akademie (some of the above mentioned entities were also present at this Workshop). One of ADMIRE World Cafe meetings was carried out in the scope of this event, in which all participants discussed the future of AM and its implementation in the next 5 years was an issue discussed among them. As explained on ADMIRE *Deliverable 6.2 Additive Manufacturing World Café meetings* report, all participants were divided into three different groups. There were three tables where a specific theme was discussed: AM Materials, AM Processes and AM Sectors. Each group sat on each table, where a moderator asked participants to discuss the issue at hand, focusing on the table's theme. After 15 minutes, the groups changed tables and provided inputs additional to the ones provided by the previous group about that specific theme, and so on.

At the end of the rounds, the moderator from each table presented the global results (also described on the previously mentioned report).

Subject/Deliverable: D7.5 Dissemination Portfolio





Figure 112 4th EWF AM Qualification Workshop/ADMIRE World Cafe (October 2019)

ADMIRE roll up was placed in the room where this two-days event took place, in Porto Salvo (Portugal).



Figure 113 4th EWF AM Qualifications Workshop (October 2019)

The third EWF AM Qualification Workshop (held in Porto Salvo, in May 2019) was also an opportunity to collect inputs for ADMIRE project's results, namely the collection of case studies and validation of the contents of the European Metal AM MSc. Therefore, EWF took the opportunity to address ADMIRE project in all its AM Qualification Workshops, by implementing its activities (e.g. World Cafe meeting and Knowledge "Speed-Dating") and/or as a trusted source of information to develop its results in accordance with the inputs provided by all key stakeholders attending the events.

Subject/Deliverable: D7.5 Dissemination Portfolio



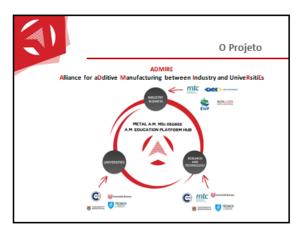
# 11.1.9 ADMIRE National Roundtables

ADMIRE National Roundtables were carried out by Partners in the scope of Work Package 6/Deliverable D6.4 Roundtables (a report was developed by Partners with main results achieved in each session), with Students, Teachers and AM Company representatives to test AM Hub/Platform's (D6.1) functionalities and to collect participants' feedback on its positive aspects and those in need for improvements.

Due to the global pandemic, these sessions were carried out online, after intense contacts made by ADMIRE partners with to invite potential participants from ADMIRE target groups (e.g. emails, messages, etc.).

During the session, ADMIRE project was briefly presented, focusing on its scope and main outcomes, not only to engage participants with the project, but also to provide context to the National Roundtable Session.









Subject/Deliverable: D7.5 Dissemination Portfolio





Figure 114 PPT Presentation used by IST & EWF to present ADMIRE to Portuguese participants of ADMIRE National Roundtable (June 2020)

These online sessions gathered a total of 19 participants (including one company representative participating from China), who demonstrated interest and availability to participate in future ADMIRE events and enthusiasm with the AM Hub/Platform and its potentialities:

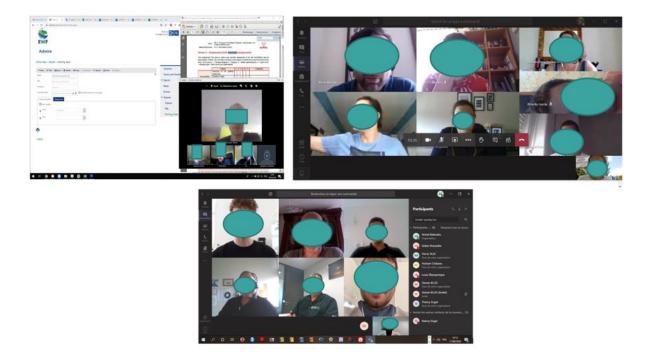


Figure 115 Print screens taken during National Roundtable online sessions' with participants from DE,
PT and FR (between April and June 2020)

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# 11.2 Other Events



Figure 116 Presentation ADMIRE during 49th EWF General Assembly (November 2016)



Figure 117 Presence at ICWAM in Metz (May 2017)

Subject/Deliverable: D7.5 Dissemination Portfolio



#### 2017 WAAMMat Industry Day 25/26 May 2017 Cranfield University, CMRI building

#### Day 1

10:00 Introduction to the day, programme update (Stewart Williams)
10:40 WAAM into production - ADS case study (Jason Gilmore)
11:00 Latest trainium mechanical properties (Xiang Zhang)
11:20 Microstructural characterisation of Ti (Alistair Ho)
11:40 BREAK
12:00 Advanced gas use (cooling and cleaning) (Paul Colegrove)
12:20 HIVE development and RAWFEED (Anthony McAndrew)
12:50 Alternative cold work methods (Jan Hoennige)
13:20 LUNCH
14:00 Aluminium wire production (Frof Zhai)
14:30 Laser+ wire (Flomeno Martina)
14:50 WAAMMDesign, WAAMMSont, WAAMCort (Florent Michel)
15:20 Photonic seniors (Tom Kissinger + Tom Charrett)
15:40 BREAK
16:00 Deposition of refractories (Gianrocco Marinelli)
16:20 JiP for qualification and standardisation of WAAM (Andrew Imrie)
16:40 WAAM company and commercialisation plans (Stewart Williams)
17:00 Lab tours

Day 2

09:30 Latest parts built (Jialuo Ding)
10:10 Aluminium MMCs (Kwasi Ayarkwa)
10:30 Depostiplate interface studies in aluminium (Eloise Elmer)
11:00 AC/DC WAAM of aluminium (Jaluo Ding)
11:20 BREAK
11:35 Characterisation of WAAMed aluminium (Heien Lockett)
12:25 Modelling activities (Xingwang Bai)
12:26 Steels properties (Armando Caballero)
13:55 Steels properties (Armando Caballero)
14:25 Mixed-materials structures (Xiangfang Xu)
14:35 Mixed-materials structures (Xiangfang Xu)

Figure 118 WAAMMat Industry Day Agenda (May 2017)



Figure 119 Project presentation IIW 70th Annual *Shanghai*Assembly and Conference (June 2017)







Figure 120, Figure 121 & Figure 122 EWF 25th Anniversary (November 2017)



Figure 123 ADMIRE at CAMA (December 2017)





Figure 124 Presence list at CAMA (December 2017)



Figure 125 Erasmus+ Knowledge Alliance main auditorium (January 2018)



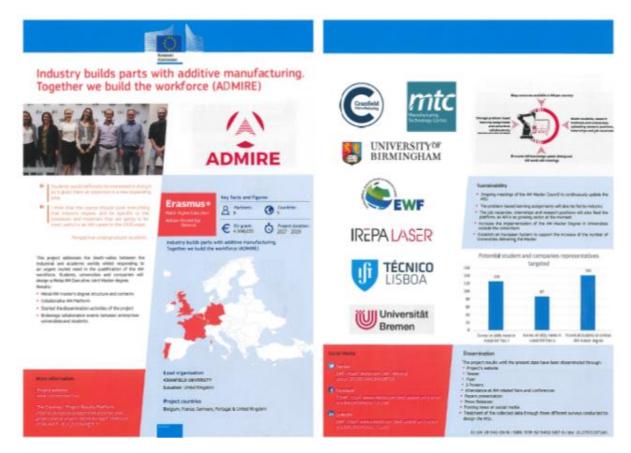


Figure 126 Erasmus+ Knowledge Alliance Flyer (January 2018)



Figure 127 Programme Erasmus+Knowledge Alliance (January 2018)



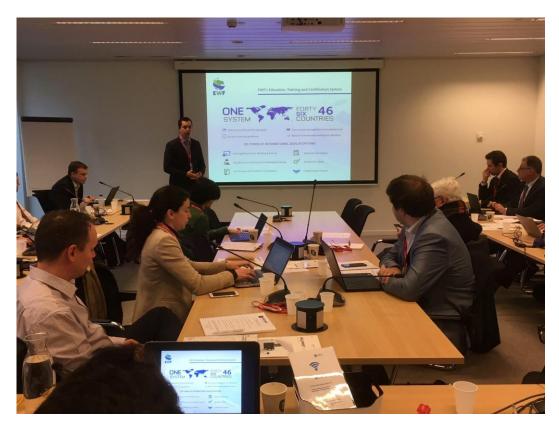


Figure 128 CECIMO General Assembly (March 2018)



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#### European approach to

# Additive Manufacturing Qualifications

A link between AM supply chain, research centres and universities L Coutinho <sup>1</sup>, M. Sibişteanu<sup>1</sup>, A. Cereja<sup>1</sup>

<sup>1</sup>EWF - European Federation for Welding, Joining and Cutting

Abstract. One of the pillars of the 4th Industrial Evrolutions is Additive Manufacturing (AA) to technology that it is used currently in a smaller scale, but which has within amount curring in most insufficient and Insurger commercial impact. Several hurden need to be overcome to achieve full utilisation of additive manufacturing in most industrials clearates, from part sits and resistance to the shifty to mix meterials in one productions in most industrials clearates, from part sits and evisitation can be shifty to mix meterials in one production. In all fact but not the least, the qualification of procument while to use these vectiondegree. Therefore, to Manufacturing of AA, manufacturing explanations unnex forces on developing capithe tool achieve.

EWF is tackling these aspects in collaboration projects focusing on two main topics, research and development (RTD) and training and qualification of personnel.

Through the participation in RTD projects, SUF is aware of the propress the AM technologies are undergoing, disterminates the results in its network and includes the innovations in the EWF personnel qualification profiles. As such, EWF is also involved in collaboration projects addressing the development of new qualifications for addrive manufacturing personnel which are tackling the industrial needs in this field. The obsent ourse froques on the results obtained in some of the twoicets EWF has been involved.

#### I. INTRODUCTION

Manufacturing is considered the backbone of European economy. It provides 32 million jobs in more than 2 million enterprises, including around 13 million jobs in a growing high-tech manufacturing sector<sup>2</sup>, and around 60 million additional jobs related to associate services. <sup>2</sup> The share of manufacturing in the EU-28 was 16.1% of GDP in 2016.<sup>2</sup>

Addressing Additive Manufacturing's workforce disruption

Consulting frim McKinoy describes the 4R, as the next phase in the digitization of the manufacturing sector, driven by four disruptions: the rise in data volumes, computational power, and connectivity, analytics and busines-intelligence capabilities, human-machine interaction; and improvements in manfaring digital inturactions to the physical world Takes together, they will lay the foundation for a revolution more comprehensive and all-encompassing than anything we have ever seen. In the near future, they may transform the economics of global provisation in amagine industries, as mart systems—homes, factories, frame, grids or cities—will help tackle problems areasies from soundary dain managements to climite charge.

One of the pillars of this revolution is Additive Mannfacturing that is currently used on a smaller scale, but which has within mannfacturing it most significant and lasting commercial impact. Several handles need to be overcome in order to achieve full utilization of additive mannfacturing in most induction locaratios, from parts size and resistance to the ability to mis materials in one production mu and, last but not the least, the qualification of personnel able to use these technologies. Moreover, the World Economic Forum has assessed put that in a recent document and the second of the second production of th

That change is pervasive and will be felt in all areas, going from the most traditional jobs to the highest qualified technical jobs. Industry 40 will bring added change given the compound effect of its pillars on each other. And in keeping up with the tradition of mostung in tandem with the evolution of industry since 1997 with its harmonised qualification system for personnal involved in welding, joining and related technologies, EWF is a keeply responding by shoping its system to

Reducing costs, improving efficiency and production flexibility are core pillars to improv Europe's industrial competitiveness. And for this to be assured a few initiatives are bein undertaken in continuation this paper will present bright come of these projects.

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# II. RESEARCH AND TECHNICAL DEVELOPMENT (RTD) PROJECTS II.1 THE DEVELOPMENT OF A LARGE ADDITIVE SUBTRACTIVE INTEGRATED MODULAR MACHINE

MODULAR MACHINE
The LASDMG project (Large Addinive Subtractive Integrated Modular Machine) aims to addruin need through the development of a large scale and flexible all-in-one bybrid machines, but on a modular architecture that it is easily exables, and ensuring that the prospectics of the mate produced surpars those of a forged material. It will enable the production of a partyroched citize from computer-saided design (CAD) models within a reshort lumeframe. The machine result from this project will be equipped with both subtractive and additive mannferturing for large sengineering par large sengineering partyroched citizes.



In parallel immificating process requires that the machine architectuse is based on robotics. To ensure that the surface finish and accuracy needed for an engineering component is obtained, a parallel kinematic motion (PKM) obtained, a parallel kinematic motion (PKM) obtained is employed for the subtractive stup. This robotic can also be used for application of cold work by rolling between passes. This ensures that material properties can be better than those of a forged material. A key part of this project is the development of the ICT infrastructure and toollowce needed to programme and run the machine. The implementation of parallel manufacturing is estimately challenging from a software purposed two and ultracture at too grow the project. When the project is the project is the project is a parallel project in the project is an accordance of the project in the project is the project in the project is the project in the project in the project in the project is the project in the project is the project in the

II.2 THE DEVELOPMENT OF AN HYBRID ADDITIVE MANUFACTURING SOLUTION The OPENHYBRID project will offer univalled flexibility, high quality on parts produced and increased productivity for companies looking into taking advantage of its unique ability to perform both additive and subtractive manufacturing.



OPENHYBRID will be a game changer for faster creation of new opportunities and applications for Metal Additive Manufacturing (AM). This new solution, when implemented, will increase the level of robustness and repeatability of tenh industrial processes, will optimize and evaluate the increased performance of production lines in terms of productivy and cost-effectiveness and, finally, it will assess the sustainability, functionality and performance of the produced new materials. Beyond oney party production, this new manufacturing method will also allow for a very effective appart technique. If

II.3. THE DEVELOPMENT OF AN INTEGRATED DESIGN DECISION SUPPORT SYSTEM ENCOMPASS is a three-year project that aims to significantly improve the overall productivity of the Isser-based metal powder bed finsion technology process chain, principally through the creation of an integrated design decision support (IDDS) system (IDDS) and the property of the pro

creation of an integrated engin decision support (IDDS) system. Commercial metal AM machines have been available for many years, and the interest from industry for the adoption of this technology for production of end parts is steadily increasing. However, for these technologies to be widely adopted by the industry as available production method, process claim productivity needs to be significantly improved. The specific category of metal AM that action at the beart of the ENCOMPASS projects is laser powder bed fusion (L. PSP) where metal powder is flusted together to form solid material supplying a laser-based energy source. Whilst metal AM is used together to form solid material supplying a laser-based energy source. Whilst metal AM is used for prototyping and has begun to posteriate some smaller markets, it is not yet entirely competitive on a larger scale, especially concerning production speed and

metal AM is being used, the current state of the process chain is typified by non-integrated stages dependent on the knowledge of expect for appropriate decision making. In order see the productivity of the process chain and to bring it a significant step further towards all manufacturing, a better mastering of all stages of the process chain and their interaction and a processing of the processing of the process chain and their interaction are required to the processing of the processing of the process of the processing of

The three key overall chillenge in the industrial exploitation of metal AM can be summarized at 1. Time and cost to The three key overall chillenge in the industrial exploitation of metal AM can be summarized at 1. Time and cost to get from component design to production 3. Relabelity and robustness of the process. To address these challenges, the overall aim of the ENCOMPAS project is to cente am integrated design describes a challenge, the overall aim of the ENCOMPAS project is to cente am integrated design describes support (IDDS) system for the whole L-PBF process chain to optimize the exploitation of metal AM flexibly.





Tigue 2 of PLINI IDAD Project — www.geograpera.ea The new system will be able to switch between powder and wire feed-stock within a single part providing unmatched flexibility in terms of materials, a must-have for these industries as they look for optimization on cost, weight and resources utilisation, to which the ability to use several materials within the same piece is paramount. Moserow, the process can be fitted to a diverse range of platforms (with minimal muchem officiation being required) as well as to existing machine tools; it strongly reduces the investment needed while at the same time provides new capabilities to large and small companies.

- Smart Laser cladding heads, incorporating temperature sensors and material feed sensing.
  Lases scanning head for hear treatment, polishing and resturing;
  Laser ultrasonic non-destructive tempic imperceits of redefect analysis;
  Enhanced gas shielding, medium shielding through a trailing shield and high shielding through a frailing shield and high shielding through a flathesis enclosure;
  Mechanical stress relieving through the development of classing head;
  Continuations control through the development of classing head;
  Enhanced impaction utilizing combined thermal and optical imaging.



Figure 3 ENCOMPASS PROJECT - www.er

The three key process chairs teps tockled in the ENCOMPASS project are the component process, the L-PBF build process that, then the key process (including post-proc and inspection). The integration at digital level enables minerous syneagies between these and in addition, the steps themselves are being optimized to improve the capability and efficient of the overall chair. This will enable a significant reduction in time and cost, and an enl level of quality for stelly contributed to the contribute of the overall chair. This will enable a significant reduction in time and cost, and an enl level of quality for stelly critical parts.

SALINSIACAM
As emerging technologies increase flexibility in production, the prospect of new business models
arises, with a new mix of production functions. While automation of production can lead to a
greater efficiency and affect, the cost of such changes on the prohibitive. In order not to hold beat,
European industry, the business dimension is crucial to unleash the potential of the new technology
and to mignet exists of losing competitiveness.

In order to meet the needs of European SMEs and mid-caps interested in engaging with AM technology has been created and developed the AMable project, a sustainable Digital AM ecosystem that will accelerate the uptake of AM technologies by SMEs; leading to the development of innovative business and service models and new value-chain models in a fully digital

Alfable provides support to SMEs and mid-caps for their uptake of additive manufacturing.

Across all technologies from plastics through polymers to metals, AMable offers services that target challenges for newcomers, enthusiarts and experts alike. Grouped along the value chain, four stages guide your idea to delivery.

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Is your idea Additirely Manufacturable? This question is driving and guiding all actions within the AMble eco-system, which is based on three core offerings – Stages, Platforms and AM Services – with the manufacturing chain divided into four 'stages': concept, construct, print and finish.

Table 1 - AMable Manufacturing chain stages - www amable et

Stage	Description
Concept Stage	The concept stage captures the product idea and assists in the development of untilst implementation scenarios. Visualisation through sugmented and virtual reality (ARVR) technologies allows you in depth discussion of features and functionalizes. At this early stage, the AMSelb business case assessment tool assists you with a first estimate on the economic viability of the envisioned product.
Construct Stage	At the construct stage, experts give support on simulating product properties such as fluid dynamics or load cases. Topology optimisation as a service stands at the heart of an interlinked holistic approach to ensure the achievement of all expected properties.
Print Stage	Once the 3D model was fully assessed, it can be printed wherever the owner chooses. The print stage supports data preparation and execution of critical prints. Data acquisition during production tracks progress and specifications.
Finish Stage	Finishing a part makes your part ready for use. If it needs milling or grinding, testing or computer tomography, your specifications at construct stage define the finish line.

Each of these stages will act as an entry point into the ecosystem, directing potential parties to th relevant competence centres that can support the fulfilment of new AM ideas by SMEs. Regardin the AM services that AMable offers SMEs (and mid-caps) are organised through three platforms business skill by and above too me the bubblew. (Figure 4)

Starting off with a business case analysis, more than fourteen service offerings facilitate the transition from idea to the first prototype, from the willingness to invest in training on the job. There are as many solutions as there are use cases fished by the AMable Digital Innovation Hub OURLY as one of the chart.

It is expected that AMable will offer guidance to more than 150 additive ideas, with financias support to third parties of more than 5 Million Enro. The European Commission supports this effort under the unbrelled of the 148M Shinistive with a strong commission to SME support and digitation. The ideas will be matched with the AMable eco-system organization, according to the platforms, services and stages that the project addisease, which will result in possible new AM



Each challenge receives a business case assessment to identify the potential of the idea, the suitab services to develop it and the best roadmap to ramp up production for successful market ent. Key elements from the desig



ay element from the design ages are vitualization services that see latest technologies in virtual sality and sugmested reality to seate an understanding of someties, simulation results and as effects of design changes, earnbuilty of functional quarteenests is ensured by design commendations from experts how the latest construction and mulation tools.

While the process of 3D printing is commonly perceived as an easy and well automated task, a successful build is still critical for functional parts. The AMable utors accompany each idea for that to end to ensure that all reaching the properties of the second through.

At the digital heart of AMable, t tutors, the customers and t experts are supported by a digit backbone that tracks all changes

design, construction, print and finish while preserving privacy and transparency simultaneously. Adhable implement the Industrial Datapares principle for Additive Manufacturing (IDS-AM) which follows the paradigm of leaving the data with the owner to put each participant in full command of his installed-anal property. Each participant decides what to have and under which conditions to hars. Transparency is created through the creation of the first ever AM blockchain. The AMAble is fully integrated most the indicatival Datapase to create disputifications are consistently also as the control of the co

Europe is firmly committed to position itself at the leading edge of Manufacturing innovation, as the industry is considered one of the drivers that well provide the foundation for mutatimaking or economic growth, competitiveness and long-term jobs in the region. Within the new technologies that are rechanging the industry, Additive Manufacturing stands out Challenges remain that need to be addressed, among them qualified professionals capable of taking advantage of this technology.



#### III VOCATIONAL EDUCATION AND TRAINING (VET) PROJECT

Enhancing the collaboration between Universities and the industry at large is of paramount importance, especially at a time when Additive Manufacturing (AM) and other Industry 4.0 technologies are becoming increasingly mainsteam and bring new challenges related to the qualification of the workforce to deal with this change.



Figure 5 - EWF's mission - www.ewf.be

With the aim to bridge the gap between market demand and the job seekers' skills in the professions related to AM, in 2017 EWF developed a survey on Skills needs on Metal Additive Manufacturing, with more than 200 responses. The survey results represent the AM qualifications needs identified by companies, as well as the relevance of each topic for a specific AM

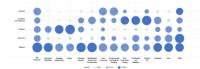


Figure 6 - AM Survey Results

It was shown that due to its novelty and fast growth and magnitude of application, the AM field has a distinctive set of features. AM is still quickly evolving and, as such, job positions are very and-to-fill because of the insufficiency of a workforce with the required expertise; similarly currently available educational offers are unable to provide students with the needed skills that can be applied to the contract of the co



III. 1 Knowledge Alliance for Additive Manufacturing Between Industry and Universities Consequently, there are two important hardles to overcome: i) absence of comprehensive and all encompassing curricula/education (in universities) and ii) the availability of skilled employees fo a wide variety of positions, including engineers with AM proficiency.

To address the widely-identified death-valley among the academic and industrial world, and at the same time responding to an urgent industrial need, the qualification of AM workforce is one of the ADMITE revised's main goals.

Accordance systems of the second seco



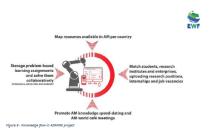
Furthermore, the ADMIRE project enhances the flow of knowledge and innovation, through the creation of a collaborative AM platform/hub to store problem-based learning (PBL) assignment and solve them collaboratively, matching students, research institutions and enterprises, uploading research positions, internships and job vacancies in AM; promoting AM knowledge speed-dating

and and worm care meetings.

In a meta-analytical perspective, ADMIRE contributes to improve higher education systems quality and relevance, make the triangle knowledge work, enhance transversal competences in a lifelong perspective, strength quality through mobility and cross-border cooperation while,

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qualification system will embed several brand-new profiles (European AM open AM designer, European AM specialist and impector) that file the requirement yas adapysh the CDF (European Qualifications Framework) and ECVET (European Gardinications Framework) and ECVET (European Gardinications Framework) and ECVET (European for Vocational Education and Training) asserbaciologies. For that, it is anadatory to maining curriculas and assessment tools, we well as introducing unnovative training approximation of the contraction of



- rate modularity on the qualifications systems industry's qualification systems with the European Qu ing a more qualified and mobile workforce within EU.





Figure 129 Paper presented at Sudura by EWF, referring ADMIRE project (April 2018)











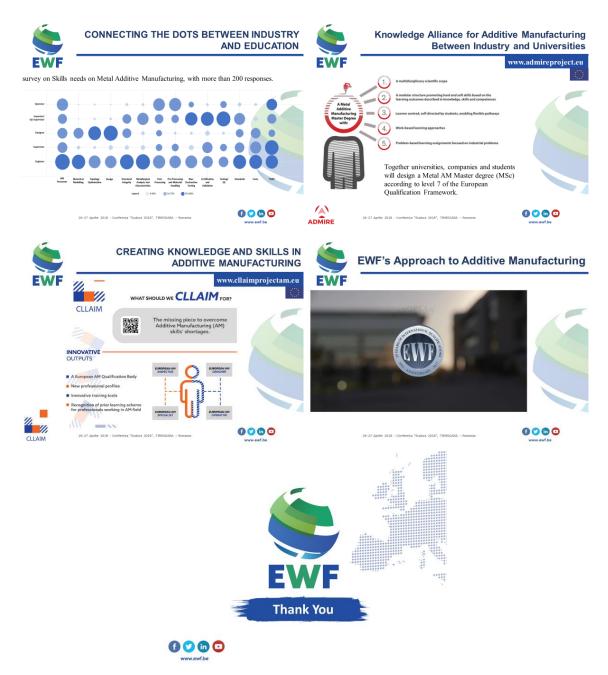


Figure 130 Presentation at Sudura in Timisoara (April 2018)

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ISO/ASTM JG 74 – Personnel Training

Eurico Assunção EWF Deputy Director







### **Agenda**

# Meeting Agenda ISO TC 261 / ASTM F42 – JG74 on **Personnel Training**

Call to order and introduction of attendees

- Approval of Agenda Membership updates
- Presentation and discussion of the results obtained in a survey carried out by EWF on Qualifications for Metal AM
  Discussion of the scope of activity of JG 74
- Definition of future work items New business
- Future meetings
- Meeting adjournment



# Membership

Role	Appointed by	Country	Stakeholder category	Salutation	Last name, First name
Committee member	BSI	United Kingdom	A - Industry and commerce	Mr	Pei, Eujin
Committee member	DIN	Germany	A - Industry and commerce	Mr DrIng.	Seidel, Christian
Committee member	IPQ	Portugal	A - Industry and commerce	Dr	Assunção, Eurico
Committee member	SAC	China	A - Industry and commerce	Mr	LI, Haibin
Committee member	SIS	Sweden	A - Industry and commerce	Ms	Widström, Katarina
Technical programme manager	ISO	-	-	Mr	Bazin de Caix, Charles-Pierre



# Background Information

EWF's Education, Training and Certification System















# **Background Information**

EWF's Education, Training and Certification System

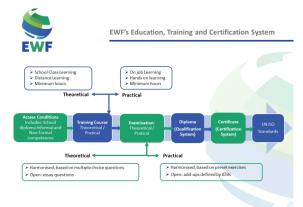














### **Background Information**

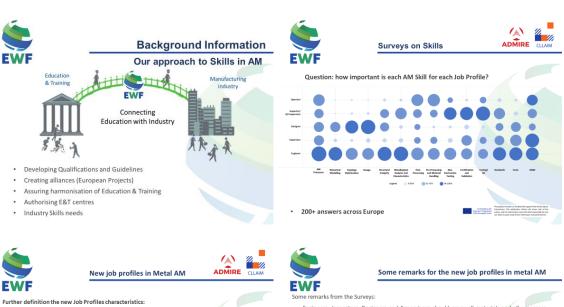
Our approach to Skills in AM

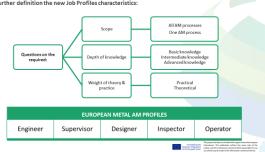
Create an International Additive Manufacturing Qualification System!



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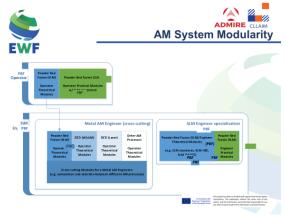




- Engineers, Inspectors, Designers and Supervisors should cover all materials and all processes used in Metal AM -> the driver is the PROCESS
- Operators should cover one process and all materials relevant for that process
- The training scheme needs to be fully MODULAR, without repetitions between the modules
- Higher level profiles are built upon the modules from lower levels, giving the possibility of an Operator becoming a Supervisor, for instance
- Metal AM Engineer job profile:
  - Characteristics of a Manufacturing Engineer
  - Cross-cutting Engineer qualification, with a possibility to specialize in a process

    Proportion and Control of the Contro







Discussion of the scope of activity of JG 74 Definition of future work items

JG Scope - ISO/TC261/IG74 is a Joint Group developing guidelines related to establish a comprehensive training program for the different roles necessary for the metal Powder Bed Fusion (PBF) process. This includes powder technicians, build set-up engineers, machine operators and other personnel necessary for the production of metal PBF parts. This JG liaises with ISO/TC44/SC14 which focuses on standards on welding, brazing and structural soldering for aerospace applications.

Do we need to update the JG scope?

Are we aiming at preparing Qualifications?

Co. Amind by the Common Amind Common Co. This project has been on Amderical's support from the Gurapean Common of the Common Commo



Discussion of the scope of activity of JG 74 Definition of future work items

Proposed Work Items - Additive Manufacturing-General Principals-Standard Guidelines for Establishing a Personnel Training Program for Metal Powder Bed Fusion Process. Excluded from this standard guide is the machine operator qualification for aerospace, which is covered by ISO/TC 261/JWG 5.

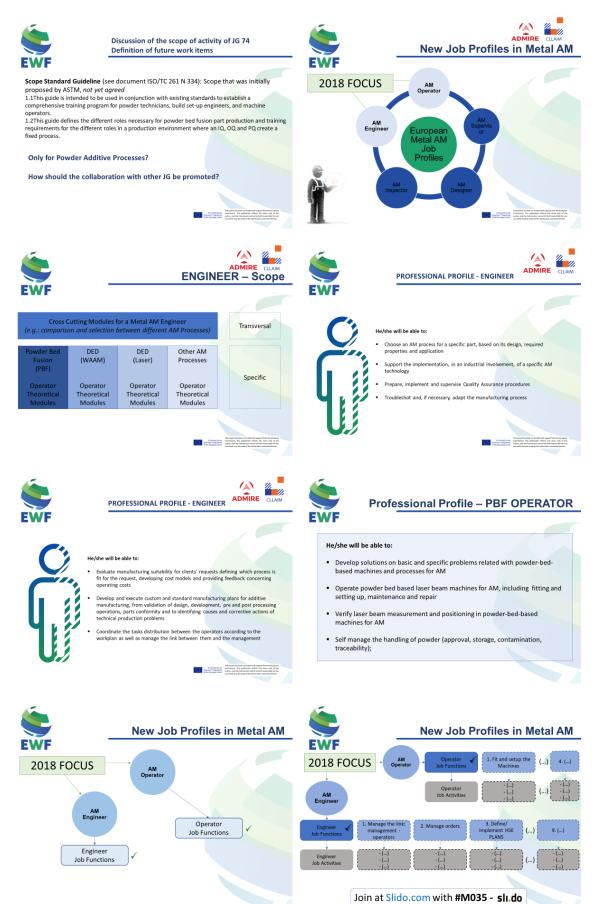
Are all members ok with the proposed work items?

How do we ensure that there is no overlapping between JG74 and JWG5?

Is the Standard being developed in JWG 5 a Qualification or a Certification Standard?

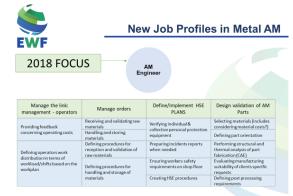
Colonied by the Commission. This project has been on Anderlands by the Commission. This patients reflects the steen only of the Commission where the bell represented for any white large reads of the identities contained therein.



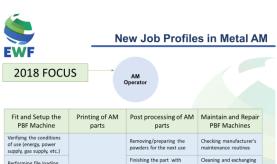


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Validate levels at: sli.do #M035



# Overview regarding depth of subjects AM (General) ENGINEER

**EWF** systems framework &

correspondence to EQF

Validate levels at: sli.do #M035												
	AM PROCESSES	SUBTRACT PROCESSI		NUMERICAL MODELLING		TOPOLOGY OPTIMIZATION		DESIGN		STRUCTURAL INTEGRITY		RGICAL SIS/ ERISTIC
Engineer	6 - Advanced	5 - Profici	ent 5-F	Proficient	ient 5 - Pro		oficient 5 - F		5 - F	Proficient	5 - Proficient	
Validation	Yes No	Yes	No Yes	No	Yes No		Yes	Yes No		Yes No		No
	POST- PROCESSING	OST- PROCESSING/ DESTRU		NON- CERTIFICATION RUCTIVE AND STING VALIDATION		TESTING/ QUALITY CONTROL		STANDARDS		COSTS	H&S AND ENVIRONMENT	
Engineer	6 - Advanced	6 - Advanced	5 - Proficie	ent 5 - Pro	oficient	5 - Proficient		5 - Profici	ent 5	ent 5 - Proficient		ficient
Validation	Yes No	Yes No	Yes N	lo Yes	No	Yes	No	Yes N	lo	Yes No	Yes	No



# Overview regarding depth of subjects PBF ENGINEER

### Suggest levels at: sli.do #M035

					.00												
	AM PROCESSES			BTRACT		NUMER		TOPOLOGY OPTIMIZATION		DESIGN		STRUCTURAL INTEGRITY		ANA	LURGICAL ALYSIS/ CTERISTIC		
Engineer			?			?		?			?		?		?		?
Validation			No Yes No Yes		Yes	No Yes No			Yes No		Ye	Yes No		Yes No			
	POST- PROCESSING		PROCESSING MATERIAL DE		DESTE	STRUCTIVE AF		FICATION TESTIN ND QUALI DATION CONTR		TY STANDARE		DS COSTS			S AND ONMENT		
Engineer	?			?		?		? ?			?		?		?		
Validation	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes 1	No	Yes N	yes Yes	No		



### OPERATOR - Scope

# slı.do #M035



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Summary

# Expected Outcomes (2018):

- · New System for Education & Training in AM
- New Job Profiles in Metal AM
- Rules for Quality Assurance and harmonisation
- Rules for authorizing training centres and universities





# **Designer Professional Profile**

What is expected from an AM Designer?







Figure 131 ISO Meeting (May 2018)

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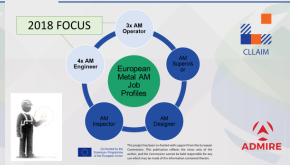


# **EWF AM 2018 Objectives**

# EWF AM 2018 Objectives New Job Profiles

- Creation of EWF AM by the EWF General Assembly (November 2017)
- New System for Education & Training in AM
- · Rules for QA and Harmonisation
- 7 new Job Profiles in Metal AM
  - 3x Metal AM Operator
  - 1x Metal AM Engineer
  - 3x Metal AM Specialized Engineer (e.g. LPBF Engineer)

Engagement with Experts and Industry



## Completed activities

## Completed activities

- Draft system Rules and Structure, including Modularity
- Draft contents for the Guidelines of the 7 Qualifications
  - Entry Requirements
  - Professional Profile description
  - Job Functions
  - Job Activites
  - Course Competence Units



EWF

#### 1st AM Qualifications Workshop



### **Upcoming actions**

#### **EWF AM Risks**

#### Until the end of 2018:

- · Final version of the new Guidelines
- Organisation of the 2nd AM Qualifications Workshop, for the validation of the completed Guidelines
- Presentation of the EWF AM System Rules



# Risks to EWF AM System:

- Other organizations, like ASTM, are already developing AM Qualifications
- EWF members are not recognized in the market as the main experts in AM
- The project results (AM Qualifications) are public and if we do not implement them quickly someone else will do so



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**EWF Opportunity** 

**EWF System Rules** 

### **EWF System Rules**

Cut. Five sha

In order to ensure the sustainability of the EWF AM we need to:

- · Create in the market the recognition of EWF AM
- Ensure that the main organizations in AM are using our system
- Have a set of rules that allow a fast implementation of the EWF AM System, this will require a flexible procedure to aprove ATBs



EWF has the opportunity to become the recognised organization for AM Qualifications in Europe (and not only)



### **EWF System Rules**

Change the rules in order to:

Required changes to system rules for EWF AM:

- It is expected that, at an initial stage, the number of awarded diplomas will be small. Adding to this the current ANBs to not have the required expertise in AM. So a direct approval of the ATBs through EWF ,with the support of the ANBs, will ensure that the ANBs are involved as the EWF AM System grows
- Use of the ANBs auditors team (which will generate income to the ANBs) in the audit process of the EWF AM ATBs
- Create a Virtual ANB across Europe, with members
- that are involved in AM

  This Virtual ANB would be responsible to
  - Diplomas
     And the audit expertise for the creation of na audit team and authorization of AM ATBs

provide the exam expertise for the award of the





Figure 132 Presentation at 52nd EWF General Assembly in Moscow (May 2018)



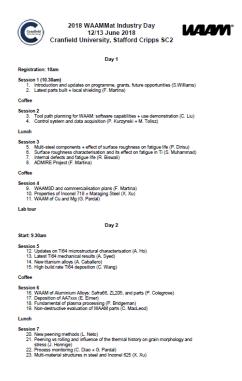


Figure 133 WAAMMat Industry day, at Cranfield University (June 2018)



Figure 134 AMEF 2018 Additive Manufacturing European Forum / Posters' Summary (October 2018)





Figure 135 53<sup>rd</sup> EWF General Assembly (October 2018)



Figure 136 ADMIRE Poster displayed at FORMNEXT 2018 (November 2018)





Figure 137 ADMIRE Roll-up displayed at FORMNEXT 2019 (November 2019)



Figure 138 55<sup>th</sup> EWF General Assembly (October 2019)

**Subject/Deliverable:** D7.5 Dissemination Portfolio





Figure 139 FORMEXT 2019 (December 2019)

# 11.2.1 8th European University-Business Forum (Brussels, BE)

During the 8<sup>th</sup> European University-Business Forum (held in Brussels, on October 2019), Bremen University and EWF representatives attended the event to present ADMIRE project to its more than 50 participants, using a video-pitch (which is available on ADMIRE website - <a href="https://admireproject.eu/index.html">https://admireproject.eu/index.html</a>).

ADMIRE had a dedicated booth at this two-days event, where all participants had the opportunity to be given information about ADMIRE and its results, as well as its flyer for future reference.

Subject/Deliverable: D7.5 Dissemination Portfolio







Figure 140 ADMIRE project presentation at 8<sup>th</sup> European University- Business Forum (October 2019)

# 11.2.2 Presentation of ADMIRE Project at EFFRA "Made in Europe" online working groups (22 September 2020)



Figure 141 Excerpt from the PPT presentation made at EFFRA "Made in Europe" online working groups, where ADMIRE project was also addressed (September 2020)

Subject/Deliverable: D7.5 Dissemination Portfolio



### 12 ADMIRE Final Conference

## 12.1 ADMIRE Additive Manufacturing Symposium 2020 (June 2020)

Due to the global pandemic, ADMIRE partners were not able to conduct the project's Final Conference at Cranfield University in person, as initially planned. Therefore, the solution found was to conduct an online event entitled ADMIRE Additive Manufacturing (AM) Symposium 2020.

This half-day event, carried out on 30<sup>th</sup> June 2020, was organized by Cranfield University, with support from EWF and all ADMIRE partners, who actively participated on the Symposium, attended by 80 participants (with initial 188 registrations made).

Cranfield University created a registration page, where visitors could access information about ADMIRE, a brief summary of the event, a link for the Symposium's Agenda and also the form for registration:



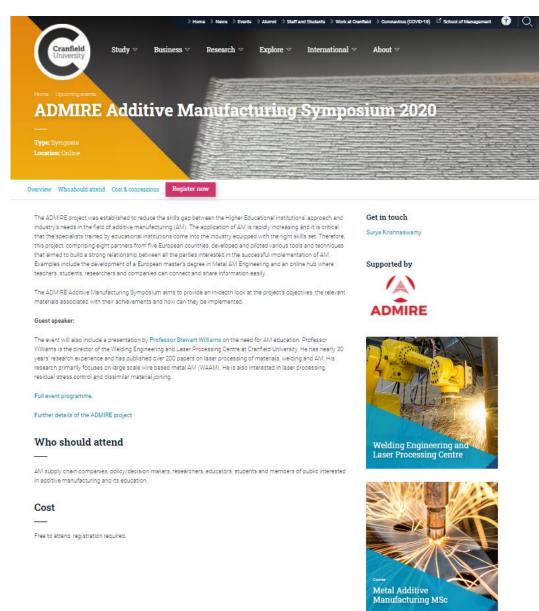


Figure 142 ADMIRE AM Symposium 2020 Registration website



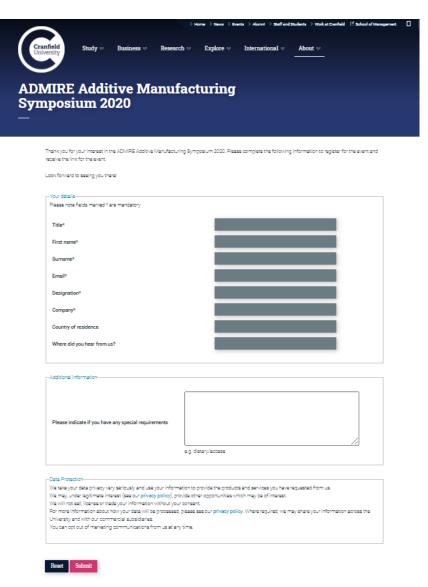


Figure 143 ADMIRE AM Symposium 2020 Registration form

Subject/Deliverable: D7.5 Dissemination Portfolio





ADMIRE Additive Manufacturing Symposium 2020- Agenda

Time	Event	Speaker(s)
0930-1000	Introduction and Welcome	Surya Krishnaswamy (Cranfield University)
1000-1045	Aim/objectives of ADMIRE	Susana Nogueira ( <i>EWF</i> )
1045-1130	Guest Lecture- The need for AM education	Prof. Stewart Williams
1130-1145		Break
1145-1230	Results from ADMIRE	Susana Nogueira (EWF) Inês Pires (IST) Surya Krishnaswamy/Filomeno Martina (Cranfield University) Yuvaraj Patil (University of Bremen)
1230-1300	Conclusion	Surya Krishnaswamy (Cranfield University)



Figure 144 ADMIRE AM Symposium 2020 Agenda

Once the registration was submitted, the registered participants automatically received an email confirming the registration and thanking them for their interest on behalf of ADMIRE Partnership, along with the event and satisfaction questionnaire, as illustrated below:

Hello

Thank you for registering for the ADMIRE Additive Manufacturing Symposium, 2020. We are extremely happy to be able to welcome you to the event. Please use the following link to attend the event on the day.

#### Event Link

We would also be extremely grateful if you could take the time to fill in a satisfaction questionnaire about the event to help us improve in the future. Satisfaction Questionnaire

Kind regards,

The ADMIRE Consortium

Figure 145 Registration response email

Subject/Deliverable: D7.5 Dissemination Portfolio



Before the event took place, ADMIRE partners were active in disseminating it among their contacts/network, sharing the link for the registration website via email or by posting it on social media.

ADMIRE website also made reference to ADMIRE AM Symposium 2020.

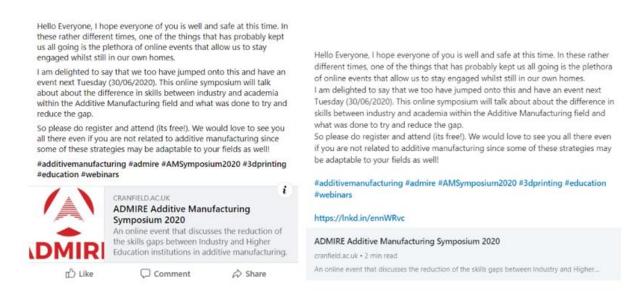


Figure 146 Cranfield University's representative Facebook & LinkedIn post



Figure 147 Cranfield University's Tweet

Subject/Deliverable: D7.5 Dissemination Portfolio



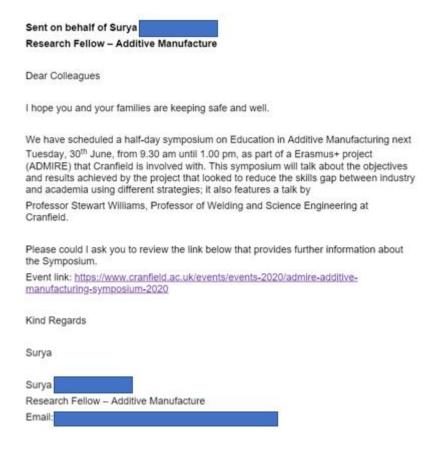


Figure 148 Cranfield University's intranet invitation



EWF is glad to invite you to attend ADMIRE Additive Manufacturing Symposium 2020 on the 30<sup>th</sup> June (starting at 09.30 am/London time), an event that will allow attendees to learn more about ADMIRE project ( ADMIRE – knowledge Alliance for AdDitive Manufacturing between Industry and UniveRsitiEs ) and its results' potential impact on Education and AM Industry at EU level.

During the event, ADMIRE project's innovative joint European Metal AM MSc curriculum and the AM Hub/Platform will be presented. This Platform intends to be a contact point between AM Industry, Universities and Students, offering a collaborative environment to its users and to map AM resources at European level.

This event will have the presence of all ADMIRE Partners, some of who will talk about their experience in piloting ADMIRE European Metal AM MSc, and a guest speaker from Cranfield University, who will talk about the importance of Education in AM.

The registration website for ADMIRE Additive Manufacturing Symposium 2020 is already available (please access here) and the Agenda of the event is in annex to this invitation. In case you are interested, please carry out your registration until Monday (29th June). Afterwards, you will receive a confirmation email and the link for the session.

Hoping to see you there, we wish you a good day!

Kind regards,

Projects and Administrative Assistan



Figure 149 Content of the email sent by EWF to all its members

Subject/Deliverable: D7.5 Dissemination Portfolio



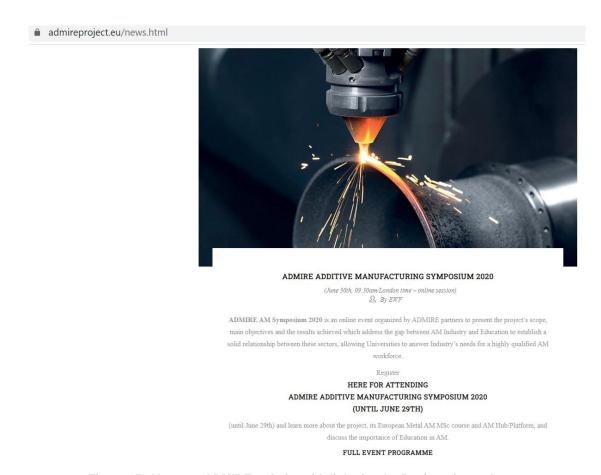


Figure 150 News on ADMIRE website with links for the Registration webpage

After the Symposium, a publication was made on ADMIRE website providing information about the event and urging its visitors to be aware of ADMIRE Final Conference, to be held on October 2020.



Figure 151 News on ADMIRE website about ADMIRE AM Symposium 2020



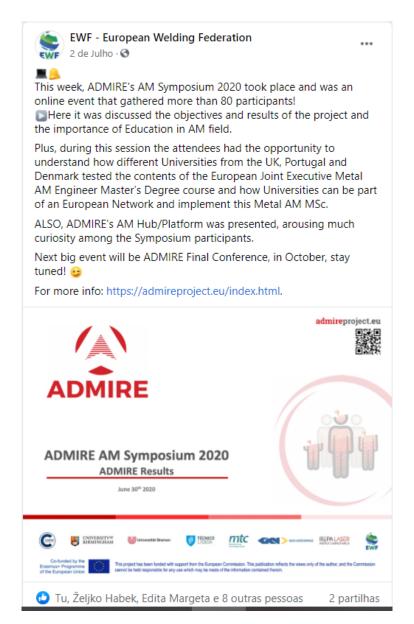


Figure 152 EWF Facebook post about ADMIRE AM Symposium 2020

Subject/Deliverable: D7.5 Dissemination Portfolio



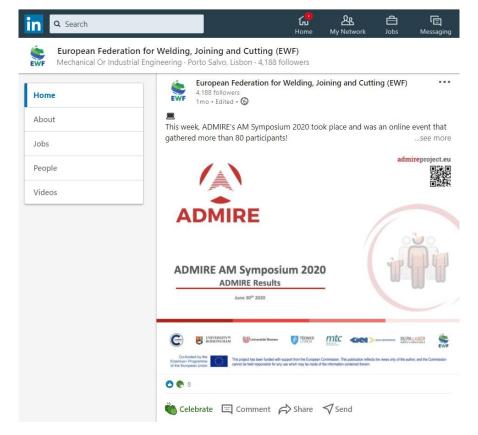


Figure 153 EWF LinkedIn post about ADMIRE AM Symposium 2020

All ADMIRE AM Symposium 2020 participants were requested to fill in a Satisfaction Questionnaire, previously prepared by IREPA Laser (partner responsible for Evaluation).

The results of this questionnaire can be found on D8.1 Final Evaluation Report.

Subject/Deliverable: D7.5 Dissemination Portfolio



# 12.2 ADMIRE Final Conference | Skilling the AM Future 2020

As a result from the extension of ADMIRE project until October 2020, in the wake of the impact of the global pandemic on ADMIRE activities, the project consortium decided to carry out an additional Final Conference, again organized by Cranfield University (partner responsible for this task in the project), with contributions from EWF and all ADMIRE Partners.

The registration platform created for this event had a total or 345 visits, as total of 29 participants attended ADMIRE Final Conference.

In terms of dissemination, and in order to ensure this special event was disseminated to a broader audience, EWF registered ADMIRE Final Conference on an Erasmus+ programme initiative, entitled #ErasmusDays2020. Because this registration was made in Portugal, the text confirming it came from the Portuguese National Agency, in Portuguese language:



Figure 154 Registration confirmation from the Portuguese Erasmus National Agency

One of the main requests made was to include #ErasmusDays2020 logo and hashtag in all dissemination tools and in all online publications, as a way to ensure a wider dissemination of the event and of this initiative.

Subject/Deliverable: D7.5 Dissemination Portfolio





Figure 155 Reference to ADMIRE Final Conference | Skilling the AM Future 2020 on #ErasmusDays2020 Platform

Before registering the Conference in this Platform, EWF assisted Cranfield University with the creation of a registration platform, using Eventbrite, where all the necessary details were provided in terms of scope of the event, date, place and agenda, with a link for ADMIRE website as well.

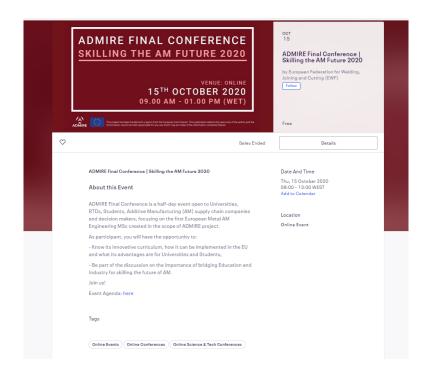


Figure 156 Registration platform

Subject/Deliverable: D7.5 Dissemination Portfolio



The Agenda of ADMIRE Final Conference was also extensively shared by partners with their own contacts, and was also available on ADMIRE website, which link for a specific news about this event was provided in all dissemination activities carried out to promote/disseminate the Final Conference:





#### ADMIRE Final Conference | Skilling the AM Future 2020

October 15th, 2020 (Online Session) 09.00 am - 01.00 pm (WET)

#### Agenda

Time	Activities
09.00 to 09.15	Welcome to ADMIRE Final Conference Surya Krishnaswamy – Cranfield University
09.15 to 09.45	Introduction to ADMIRE project Susana Nogueira- EWF
09.45 to 10.15	The new European Metal AM Engineer MSc: Curriculum and Implementation Susana Nogueira – EWF
10.15 to 10.35	Skilling the AM Future: Contributions from ADMIRE and SAM projects Adelaide Almeida - EWF
10.35 to 10.45	Break
10.45 to 11.15	Participating on the European Metal AM Engineer MSc pilots: Testimonies from Students/Teaching Staff Surya Krishnaswamy – Cranfield University
11.15 to 11.45	The importance of bringing Education & Industry closer (from Industry point of view) Martin White - Head of Additive Manufacturing Programs - Europe/ASTM
11.45 to 12.00	Break
12.00 to 12.30	AM World Cafe meeting (Sustainability and Exploitation of ADMIRE Results) (Moderated by ADMIRE Partners)
12.30 to 12.45	Main results from the AM World Café meeting (Main Moderator of each Room)
12.45 to 13.00	Wrap up and conclusion Surya Krishnaswamy – Cranfield University











Figure 157 Agenda of ADMIRE Final Conference

Subject/Deliverable: D7.5 Dissemination Portfolio



EWF also created a banner to be used by all partners for disseminating the event:



Figure 158 ADMIRE Final Conference | Skilling the AM Future 2020 banner

All ADMIRE partners were actively involved in disseminating the event by contacting their own networks with dedicated emails and/or by using social media to share the link for the registration platform created, as shown in the examples below:



Figure 159 Bremen University post on Facebook





**Figure 160 Cranfield University Twitter** 



Figure 161 Cranfield University LinkedIn post



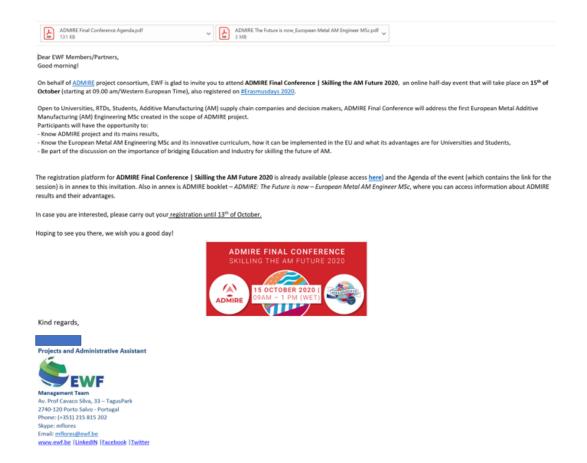


Figure 162 Email sent by EWF to all its Members and Partners from other projects related to AM

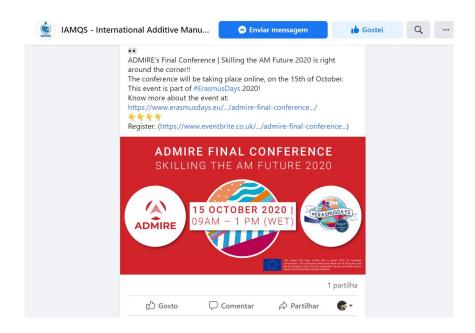


Figure 163 Post on EWF's International AM Qualification System Facebook account

Subject/Deliverable: D7.5 Dissemination Portfolio



In the beginning of the session, a reference was made to the fact that ADMIRE Final Conference was being organized in partnership with #ErasmusDays2020 initiative, and its logo was used in all PowerPoint (PPT) presentations used during the event:



Figure 164 First slide of some of the PPT presentations used on ADMIRE Final Conference

A link for the previously prepared Satisfaction Questionnaire was sent to all participants to allow ADMIRE partners understanding participants' degree of satisfaction towards the event and the topics addressed during the Final Conference (results reported on D8.1 Final Evaluation Report).

## **12.2.1** Participants from both ADMIRE Final Conference events

Overall, a total of 106 participants attended both events. Those participants were mainly representatives from AM Industry and Education, i.e. companies belonging to AM supply chain, Universities' teaching staff and Students.

Therefore, all dissemination activities carried out by ADMIRE partners to promote both events had a positive result in gathering a high number of key stakeholders targeted by the project and engaging them with ADMIRE results.

**Subject/Deliverable:** D7.5 Dissemination Portfolio



# List of Dissemination Activities (January 2017 - November 2020)

The following list of Dissemination Activities include all dissemination activities carried out by ADMIRE partners throughout the implementation of the project (January 2017 to October 2020).

It also includes the activities already planned for November 2020, some of which already with an expected number of participants, in line with ADMIRE partners' commitment of continuing disseminating the project beyond its lifecycle, at national, European and international levels. Most of those activities will be carried out by EWF in the scope of its activities, in conferences and workshops to be realised both at European and International levels, in line with ADMIRE partners' commitment to continue disseminating ADMIRE project and its results beyond the project's implementation. Those activities will be conducted based on the integration of the European Metal AM Engineer MSc/specialization on the International Additive Manufacturing Qualification System (IAMQS), managed by EWF, and on the integration of the AM Hub/Platform on AM Observatory (as also described on deliverable D7.4 Dissemination, Sustainability and Exploitation Plan).

It is important to point out that <u>ADMIRE website</u> was systematically updated with information about most of these listed activities, in line with most social media publications (which also mentioned ADMIRE website).

Overall, ADMIRE partners conducted a total of **234 dissemination activities**, using ADMIRE dissemination tools, such as flyers, posters, roll-up, through emails sent to their own contacts at national, European and International levels, social media (Facebook, Twitter, LinkedIn) and by participating on several events in which ADMIRE project was (and will continue being) presented. These activities reached and/or actively involved a total of 60.510 people, a number that continue rising after the project's conclusion.

This List of Dissemination Activities is organised by chronological order, and the respective evidence can be found either in this Portfolio (Figures) or in **Annex 1**.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
1	UK	A/B	Technical progress meeting with Siemens.	Industry	2	8	11/01/2017	Confidential	Briefed them on the ADMIRE project	Cranfield University
2	UK	A/B	Technical progress meeting with the Culham Centre for Nuclear Fusion.	Research orgs	3	15	16/01/2017	Confidential	Briefed them on the ADMIRE project.	Cranfield University
3	UK	A/B	Technical progress meeting with Tampere University.	Research orgs	3	15	19/01/2017	Confidential	Briefed them on the ADMIRE project.	Cranfield University
4	JAP	A/B	Meeting with KOBE Steel.	Industry	2	7	26/01/2017	Confidential	Briefed them on the ADMIRE project.	Cranfield University
5	EU	D.	Logo	General public	-	-	02/2017	Figure 1	N.A.	EWF
6	EU	C.	Facebook Post – Kick Off Meeting	General public	-	1100	07/2/2017	Fig. 71	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.1810450085 90942.49349.1732165227 07124/154656652203877 7/?type=3&theater	EWF
7	EU	C.	EWF website – Kick Off OMeeting	General public	-	-	07/2/2017	N.A.	N.A	EWF
8	UK	A/B	Meeting with Queen's Mary University.	Research orgs	2	3	17/02/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible collaborations	Cranfield University
9	DEN	A/B	Meeting with Vestas.	Industry	2	9	21/02/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of Vestas in the ADMIRE project.	Cranfield University

Key for "Type" of activity:A. Distribution of information

<sup>B. Project presentations
C. Articles and postings (websites, blogs, newspapers, journals, etc.). Note: you do not need to fill in columns marked with \* for type C.</sup> 

**D**. Other activities



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
10	USA	A/B	Meeting with GE.	Industry	2	5	15/03/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of GE in the ADMIRE project also through GE educational campaign	Cranfield University
11	AUS	A/B	Meeting with Bohler.	Industry	2	11	20- 21/03/2017	Confidential	Briefed them on the ADMIRE project	Cranfield University
12	FR	A/B	APS conference in Lyon	Industry, and research orgs	Several	357	20- 21/03/2017	Evid. 1 Congress Pr ogram_APS2 017	Closed technical presentation with one slide on the ADMIRE project	Cranfield University
13	EU	C.	ADMIRE #1 Press Release	General public, technology	-	1500	05/2017		Word Document/Pdf document	EWF
14	EU	C.	Press Release Publication Joining and Cutting	Research institutes, Companies, manufactur ers	-	8000	05/2017	Fig. 4	http://www.welding-and- cutting.info/article/the- admire-project-extending- the-qualification-of-the- additive-manufacturing- workforce/	EWF
15	GR	A.	EWF 50th General Assembly, Greece	EWF members	29	29	09/05/2017	Confidential	N.A.	EWF
16	UK	A/B	Meeting with Boeing	Industry	2	5	09/05/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of Boeing.	Cranfield University
17	NED	A/B	Titanium Europe 2017	Industry, research orgs, general public	Several	~100	17- 19/05/2017	Evid. 2 Titanium Europe 2017	Closed technical presentation with one slide on the ADMIRE project	Cranfield University



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
18	EU	А.	Flyer distribution - ICWAM	HE institutions, researchers and students	-	50	17/05/2017 - 19/05/2017	Fig 117	N.A.	EWF
19	EU	D.	ADMIRE's website	General public	-	-	24/5/2017	Fig. 53 to 58	N.A.	EWF
20	EU	D.	ADMIRE flyer #1	General public	-	-	24/5/2017	Fig. 6	N.A.	EWF
21	UK	A/B	WAAMMat 2017 Industry days	Industry and research organisatio ns	Several	80	25- 26/05/2017	Fig. 118	Presented the ADMIRE project to the WAAMMat industry partners	Cranfield University
22	DEN	A/B	3D printing live! Conference	Industry, research orgs, general public	Several	80-100	30/05/2017	Evid. 3_3D printing live! Conference	Closed technical presentation with one slide on the ADMIRE project	Cranfield University
23	UK	A/B	AMAZE project final plenary and public dissemination	Industry, research orgs, general public	Several	80-100	6- 7/06/2017	N.A.	Closed technical presentation with one slide on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
24	NED	A/B	Invited lecture at TU Delft	Research org	2	20	16/06/2017	N.A.	Closed technical presentation with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
25	EU	Α.	EWF Newsletter - Survey on Skills Needs on AM – part I	Companies' managers, companies' professiona	-	(1258 people) 126	23/06/2017	Fig. 94	https://www.surveymonke y.com/r/Survey_on_Skills_ needs_on_Metal_Additiv e_Manufacturing	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				ls dealing with AM						
26	China (CH)	Α.	Presentation at the 70th IIW Conference, at the members meeting, in Shanghai (CH)	Research institutes, Companies, Manufactur ers	-	150	28/06/2017	Fig. 119		EWF
27	EU	C.	ADMIRE website – 2 <sup>nd</sup> Meeting	General Public	-	-	02/07/2017	Evid. 4_ADMIRE 2nd Meeting Proj. Website	https://admireproject.eu/n ews-detail_2.html	EWF
28	ITA	A/B	EUCASS 2017	Industry, research orgs, general public	Several	~25	3- 6/07/2017	N.A	Closed technical presentation with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
29	EU	C.	Facebook post – ADMIRE 2 <sup>nd</sup> Meeting	General Public	-	1316	05/07/2017	Fig. 72	https://www.facebook.com /EuropeanWeldingFederat ion/posts/1710069619021 799:0	EWF
30	EU	C.	Facebook post – Link for survey Skills Needs on AM – Part I	HE students, professiona ls, researchers	-	789	06/07/2017	Evid. 5 Survey Skills Needs for AM Facebook		EWF
31	EU	C.	LinkedIn Post – EU MAM MSc	General Public	-	1401	11/07/2017	Evid. 6 EU Metal AM MSc Linkd.		EWF
32	EU	B.	Meeting with CECIMO	EU organisatio n	1	3	15/07/2017	Fig. 99	Presence list	EWF
33	EU	C.	Facebook Post – Meeting with CECIMO	General Public	-	516	19/07/2017	Evid. 7_ Meeting		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
								CECIMO Facebook		
34	FR	A.	Paris air show	Industry, research orgs, general public	Several	~400	19- 24/07/2017	N.A.	Distribution of ADMIRE leaflets at the stand Cranfield University had at the Air Show	Cranfield University
35	UK	A/B	Meeting with GKN Aerospace	Industry	2	4	27/07/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of GKN.	Cranfield University
36	USA	A/B	Solid Freeform Fabrication Symposium	Industry, research orgs, general public	Several	~35	7- 9/08/2017	https://sffsym posium.engr. utexas.edu/sit es/default/file s/SFF2017_fi nal%20Front %20Matter.pd f	20 min presentation on the ADMIRE project delivered by Filomeno Martina	Cranfield University
37	EU	A.	Survey Potential students	HE students, professiona ls, researchers	-	142	08/2017	Fig. 96	https://www.surveymonke y.com/r/ADMIRE_student s	EWF
38	EU	C.	LinkedIn Post – Universities, companies and students will design MAM MSc	Research institutes, students, manufactur ers and companies	-	1474	23/08/2017	Evid. 8_ European Metal AM MSc LinkdIn		EWF
39	EU	A.	E-mail - Survey Potential students	HE students, professiona	NA	NA	23/08/2017	N.A.	https://www.linkedin.com/f eed/update/urn:li:activity:6 306055467089166336	IREPA Laser



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				ls, researchers						
40	EU	C.	Facebook Post - Universities, companies and students will design MAM MSc	Research institutes, students, manufactur ers and companies	-	2470	23/08/2017	Evid. 9_ European Metal AM MSc Facebook		EWF
41	IRL	В.	Meeting with Irish stakeholders	Research institutes, manufactur ers and companies	5	7	23/08/2017	Fig. 101	Presence list	EWF
42	EU	C.	Twitter post – ADMIRE project dissemination	General Public	-	552	23/08/2017	Evid. 10_ European Metal AM MSc Twitter.PNG		EWF
43	IRL	В.	Meeting with Irish stakeholders	Research institutes, manufactur ers and companies	3	4	24/08/2017	Fig. 102	Presence list	EWF
44	EU	C.	LinkedIn Post – Meeting Irish industry and academia	General Public	-	2267	24/08/2017	N.A.		EWF
45	EU	C.	EWF newsletter August/September	Research centres, VET providers, industry representati ves	-	752	25/08/2017	Fig. 50		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
46	EU	А.	Schweissen & Schneiden 2017	Research institutes, Companies, manufactur ers	-	25.000 participant s	25/09/2017 - 29/09/2017	Fig 103 to 105		EWF
47	FR	A.	E-mail - Survey Potential students	Prospective students	1	NA	29/08/2017	N.A.	https://www.surveymonke y.com/r/ADMIRE_student s	IREPA Laser
48	FR	A.	E-mail - Survey Potential students	Prospective students	1	NA	30/08/2017	N.A.	https://www.surveymonke y.com/r/ADMIRE_student s	IREPA Laser
49	UK	A/B	Meeting with TechnipFMC	Industry	2	10	18/09/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of TechnipFMC.	Cranfield University
50	UK	A/B	TCT Conference	Industry, research orgs, general public	Several	~150	26/09/2017	Evid. 11_TCT Conference	Closed technical presentation with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
51	UK	A/B	Invited lecture at Imperial College London	Research org	2	30	04/10/2017	Evid. 12_lecture at Imperial College Twitter	Closed invited lecture with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
52	FR	C.	ADMIRE entry on the Research & Development web page of IREPA LASER's website	General public	-	-	05/10/2017	Fig. 70	https://www.irepa- laser.com/fr/recherche-et- developpement	IREPA Laser
53	USA	A/B	American Welding Society Conference on large-scale AM	Industry, research orgs, general public	Several	~50	10- 11/10/2017	Evid. 13 American Welding Society Conference	Closed invited technical presentation with a few slides on the ADMIRE project, delivered by Stewart Williams	Cranfield University



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
54	EU	D.	ADMIRE's poster	General public	-	-	11/10/2017	Fig. 23		EWF
55	EU	A.	E-mail - Survey on Skills Needs on AM – part		-	(853) 80	31/10/2017	N.A.	https://www.surveymonke y.com/r/AMskillsneeds-2	EWF
56	UK	A/B	Meeting with Rolls Royce	Industry	2	40	08/11/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of Rolls Royce.	Cranfield University
57	FR	A.	E-mail - Survey Potential students	Prospective students	1	NA	09/11/2017	N.A.	https://www.surveymonke y.com/r/ADMIRE_student s	IREPA Laser
58	FR	A.	E-mail - Survey employers' needs	Prospective employers	1	NA	10/11/2017	N.A.	https://www.surveymonke y.com/r/AMskillsneeds-2	IREPA Laser
59	DE	Α.	Flyer distribution – Formnext 2017	Research institutes, manufactur ers and companies	200+	4800+	14/11/2017 - 17/11/2017	N.A	https://www.mesago.de/d e/727altfon/Fuer_Besuche r/Hallenplan/messe- iplan.htm?sid=c6056d19b 603b1961a3de238d2910a 59&stamp=1528448565	ISEMP, University of Bremen
60	PT/EU	A.	EWF 51th General Assembly, Oeiras	EWF members	30	30	14/11/2017	Confidential		EWF
61	PT/EU	A.	EWF Annual Report 2017	EWF Members	30	30	14/11/2017	Fig. 45 and 46		EWF
62	FR	A/B	Additive in Aerospace Summit	Industry, research orgs, general public	Several	~200	20- 22/11/2017	http://france.a dditive- aerospace- summit.com/i ndex.php/sum mit/speakers/ 8-2017- speakers/35- filomeno- martina	Round-table discussion. Promoted ADMIRE project as a mean to address skill- gap in EU industry	Cranfield University



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
63	UK	A/B	Meeting with GE Aviation.	Industry	2	8	23/11/2017	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of GE Aviation in the ADMIRE project	Cranfield University
64	EU	В.	Computer Aided Additive Manufacturing Conference	Research institutes, manufactur ers and companies	68	90	12/12/2017 - 13/12/2017	Fig. 133 and 134		ISEMP, University of Bremen
65	DE	А.	Focus Group Discussion: Higher Education stakeholder group	HE professiona ls, researchers	1	5	15/12/2017	Focus Group Report	See Focus Group Report	ISEMP, University of Bremen
66	UK	C.	Blog post	Industry, research orgs, general public	Several	235	28/12/2017	Evid.14_ WAAM Final 2018 Newsletter	End of the year newsletter	Cranfield University
67	UK	A.	Focus group	Studnets at UoB	1	3	08/01/2018		See Focus group transcript/WP1 report	University of Birmingh am
68	BE	А.	Erasmus+ Knowledge Alliance Cluster Meeting	Research institutes, manufactur ers and companies	-	100	31/01/2018 - 01/02/2018	Fig. 125 to 127	Pictures Flyer Programme	EWF
69	EU	C.	Facebook Post – Erasmus+ Knowledge Alliance Cluster	General Public	-	301	31/01/2018	Fig. 75	https://www.facebook.com /EuropeanWeldingFederat ion/posts/1930726626956 096	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
70	EU	C.	Twitter Post – Erasmus+ Knowledge Alliance Cluster	General Public	-	486	31/01/2018	Fig. 89	https://twitter.com/EWF Welding/status/95861879 5190386688	EWF
71	EU	C.	LinkedIn Post – Erasmus+ Knowledge Alliance Cluster	General Public	-	1492	31/01/2018	Fig. 84	https://www.linkedin.com/f eed/update/urn:li:activity:6 364401350154948608	EWF
72	UK	A/B	Evolution journey into Industry 4.0	Industry, research orgs, general public	Several	~60	15/02/2018	https://www.e ventbrite.co.u k/e/evolution- journey-into- industry-40- tickets- 39873493693 #	Closed invited technical presentation with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
73	EU	C.	Facebook Post – David Brackett on AM and ADMIRE	General Public	-	300	20/02/2018	Fig. 76	https://www.facebook.com /EuropeanWeldingFederat ion/posts/1953529778009 114	EWF
74	EU	C.	LinkedIn Post – David Brackett on AM and ADMIRE	General Public	-	1146	20/02/2018	Fig. 85	https://www.linkedin.com/f eed/update/urn:li:activity:6 371671572805144576	EWF
75	UK	A/B	Meeting with ArcelorMittal	Industry	2	5	07/03/2018	Confidential	Briefed them on the ADMIRE project. Discussed possible involvement of ArcelorMittal in the ADMIRE project	Cranfield University
76	USA	A/B	TMS2018 Conference	Industry, research orgs, general public	Several	~40	12- 16/03/2018	Evid.15_ TMS2018 Conference_ Twitter	Closed invited technical presentation with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
77	DE	В.	AM Stakeholder Workshop	RTDs, Midcaps, SMEs	-	40	20/03/2018	Fig. 105 to 108	https://www.amable.eu/ev ents/am-stakeholder- workshop/	EWF
78	EU	C.	Facebook Post – AM Stakeholder Workshop	General Public	-	216	20/03/2018	Fig. 77	https://www.facebook.com /EuropeanWeldingFederat ion/posts/1988353811193 377	EWF
79	EU	C.	Twitter Post – AM Stakeholder Workshop	General Public	-	851	20/03/2018	Fig. 90	https://twitter.com/EWF Welding/status/97605391 7887946752	EWF
80	EU	C.	LinkedIn Post – AM Stakeholder Workshop	General Public	-	878	20/03/2018	Fig. 86	https://www.linkedin.com/f eed/update/urn:li:activity:6 381824046656483329	EWF
81	USA	В.	Qualifications workshop at ISO Technical Committee	Research institutes, Companies, manufactur ers	-	25	04/04/2018	Confidential		EWF
82	RO	B.	Paper Presentation at Sudura 2018 in Timisoara (RO)	Research institutes, Companies, manufactur ers	-	250	26/04/2018 - 27/04/2018	Fig. 129 and 130	Paper and Presentation	EWF
83	EU	A/B	EWF 1st AM Qualifications Workshop	Companies, research centres, academia	15	17	8- 10/05/2018	Fig. 109		EWF
84	EU	C.	AMPlab website	General Public	-	-	23/05/2018	Fig. 64	https://amplab- bham.com/projects/admir e-project/	University of Birmingh am
85	EU	C.	ADMIRE's webpage at ISEMP website	General public	-	-	06/2018	Fig. 65	http://www.bccms.uni- bremen.de/en/isemp/rese	ISEMP, University



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
									arch/laufende- forschungsprojekte/	of Bremen
86	DE	A.	Flyer distribution - Rapid.Tech + FabCon 3.D	Research institutes, manufactur ers and companies	200+	4800+	04/06/2018 - 06/06/2018	Hall Plan (presence)	http://www.rapidtech- fabcon.de/aussteller/halle nplan.html	ISEMP, University of Bremen
87	EU	C.	Facebook Post – News about the ADMIRE project	General public	-	438	04/06/2018	Fig. 78	https://www.facebook.com /EuropeanWeldingFederat ion/posts/2072936519401 772	EWF
88	EU	C.	Twitter Post - News about the ADMIRE project	General Public	-	827	04/06/2018	Fig. 91	https://twitter.com/EWF Welding/status/10036349 17765472259	EWF
89	EU	C.	LinkedIn Post – News about the ADMIRE project	General Public	-	763	04/06/2018	Fig. 87	https://www.linkedin.com/f eed/update/urn:li:activity:6 409399571809660928	EWF
90	UK	A/B	LOGNET-18 Conference	Industry, research orgs	Several	~150	07/06/2018	https://www.e ventbrite.co.u k/e/lognet-18- 1- modernising- defence- logistics- tickets- 42896377219	Closed invited technical presentation with a few slides on the ADMIRE project, delivered by Filomeno Martina	Cranfield University
91	UK	A/B	WAAMMat 2018 Industry days	Industry and research organisatio ns	Several	95	12- 13/06/2018	Evi. 16_CRAN_di ssemination_ agenda_WAA MMat_2018	Presented the ADMIRE project to the WAAMMat industry partners	Cranfield University
92	EU	C.	1st ADMIRE newsletter	General Public	-	43	14/06/2018	Fig. 32		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
93	EU	C.	Facebook Post – ADMIRE's newsletter	General Public	-	219	21/06/2018	Evid. 17_ADMIRE_ 1st Nsltr_Facebo ok	https://www.facebook.com /EuropeanWeldingFederat ion/posts/2096760763686 014	EWF
94	EU	A./B.	Technical progress meeting with SAAB	Industry	2	5	26/06/2018	Confidential		Cranfield U.
95	EU	A./B.	Plasma Conference, in Toulouse	Scientific Community (Higher Education, Research)	N.A.	50-60	N.A.	N.A.	https://htpp15ups.science sconf.org/?forward- action=index&forward- controller=index⟨=en	Cranfield U.
96	Indonesia	A./B.	Presentation of ADMIRE results and discussion of their implementation at IIW Annual Assembly and Conference	Research institutes, Companies, Manufactur ers	N.A.	150	15- 20/07/2018	Confidencial		EWF
97	EU	C.	Short article on IREPA LASER's website	Industry General Public	N.A.	N.A	25- 26/07/2018	N.A	https://www.irepa- laser.com/fr/les- actualites/irepa-laser- partenaire-du-projet- admire-pour-un-master- europeen-en-fabrication https://www.irepa- laser.com/en/news/irepa- laser-partner-admire- project-european-master- degree-metal-additive- manufacturing	IREPA
98	EU	A./B.	Technical progress meeting with Tampere University	Scientific Community (Higher	2	8	16/08/2019	Confidential		Cranfield U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				Education, Research)						
99	EU	A./B.	Visit from Nanyang Technological University	Scientific Community (Higher Education, Research)	2	15	21/08/2019	N.A.		Cranfield U.
100	EU	A./B.	8 <sup>th</sup> International Conference on Structural Analysis of Advanced Materials	Scientific Community (Higher Education, Research)	N.A.	30	28/08/2019	N.A.	https://icsaam2018.scienc esconf.org/	Cranfield U.
101	UK	A.B.	Promote the planned short pilot courses to be implemented by Cranfield University at AM in Aerospace Conference & Exhibition	Scientific Community (Higher Education, Research), Students & Industry	N.A.	N.A.	19- 20/09/2018	N.A.		Cranfield U.
102	EU	B.	Stand with leaflets at OpenHybrid final project event	Industry	N.A.	80	18/09/2018	N.A.		MTC
103	China	B.	Presentation of the project on ISO TC261 Meetings	Industry	N.A.	>200	18- 21/09/2018	Confidential		EWF
<mark>104</mark>	China	В.	Presentation of the project and validation of results on ISO TC261 – JG74 Personnel Training Meetings	Industry	N.A:	>200	20/09/2018	Confidential		EWF
105	EU	C.	Facebook post on ADMIRE Capacity Building carried out by Cranfield University	General Public	N.A.	13 likes/ 3 shares	25/09/2018	Evid.18_ADM IRECapacBuil d_Facebook	https://www.facebook.com /EuropeanWeldingFederat ion/posts/2304017169627 038?tn=-R	EWF
106	EU	A.	Flyer distribution at ADS Show	Industry	N.A.	5000	26- 27/09/2019	N.A.	Evid.19_ADS Show	IREPA
107	EU	A./B.	Technical progress meeting with Reaction Engines	Industry	2	6	02/10/2018	Confidential		Cranfield U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
<mark>10</mark> 9	EU	A./B	2 <sup>nd</sup> EWF AM Qualifications Workshop	Companies, research centres, academia	N.A.	22	02/10/2018	Fig. 110		EWF
109	EU	A./B.	Technical progress meeting with Steelo Ltd	Industry	2	3	05/10/2018	Confidential		Cranfield U.
110	EU	C.	Facebook post on 3DPRINT.COM news about MTC's presentation of ADMIRE and link to the project's website	General Public	N.A.	9 likes	09/10/2018	N.A.	https://www.facebook.com /EuropeanWeldingFederat ion/posts/2273043379391 084?tn=-R	EWF
111	USA	B.	Presentation of ADMIRE and collection of inputs from Industry for the development of the results at ISO TC261	Industry	N.A.	>200	17.18/09/2 018	Confidential		EWF
<mark>11</mark> 2	EU	A.	Flyer distribution at Ecole de la mécanique de l'IN2P3	Scientific Community (Higher Education, Research)	N.A.	N.A.	15- 19/10/2018	Evid.20_Ecol e de la mécanique de l'IN2P3		IREPA
113	EU	A.	ADMIRE poster displayed on EWF booth at the AMEF 2018 for further information on the project	Industry representati ve, other organizatio ns	N.A.	>300	23- 24/10/2018	Fig.134		EWF
114	EU	C.	Facebook post on ADMIRE poster at AMEF2018	General Public	N.A.	11 likes	24/10/2018	Evid.21_EWF Booth_AMEF 2018_FB	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.6876057212 68199/229439450058930 5/?type=3&theater	EWF
115	EU	Α.	Flyer distribution at 4th Symposium of Additive Manufacturing	Scientific Community (Higher Education, Research)	N.A.	200	25/10/2019	N.A.		IREPA



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
116	EU	A.	ADMIRE project's presentation at EWF's 53rd General Assembly in Portugal	Industry	29	40	30/10/2018	Fig. 135		EWF
117	EU	C.	Facebook post on ADMIRE presentation at EWF's 53rd General Assembly in Portugal	General Public	N.A.	11 likes	30/10/2018	Evid.22_EWF _53rdGA_Fac ebook	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.6876057212 68199/230448187624723 4/?type=3&theater	EWF
118	EU	C.	LinkedIn post on ADMIRE presentation at EWF's 53rd General Assembly (Porto Salvo, PT - Oct. '18)	General Public	N.A.	13 likes	30/10/2018	Evid.23_EWF _53rdGA_Lin kdIn	https://www.linkedin.com/f eed/update/urn:li:activity:6 463011827143053312/	EWF
119	EU	C.	News about ADMIRE Capacity Building carried out by Cranfield University on EWF website	General Public	N.A.	>1500 hits	30/10/2018	Fig. 68	https://www.ewf.be/news/ metal-am-masters- degree-capacity-building- from-industry-to- academia22.aspx	EWF
120	EU	C.	Twitter on ADMIRE MSc	General Public	N.A.	843 views/ 1 retweet	01/11/2018	Evid.24_ADM IRE MSc_Twitter	https://twitter.com/EWF_ Welding/status/10580065 83538524163	EWF
121	EU	C.	LinkedIn post on ADMIRE MSc	General Public	N.A.	11 likes	01/11/2018	Evid.25_ADM IRE MSc_Linkedin	https://www.linkedin.com/f eed/update/urn:li:activity:6 463771720800178176/	EWF
122	EU	A./B.	ADMIRE poster displayed on EWF booth at FORMNEXT 2018	Industry  Scientific Community (Higher Education, Research)	>90	500	13- 16/11/2018	Fig. 136		EWF
123	EU	C.	Facebook post on ADMIRE post displayed on Formnext 2018	General Public	N.A.	414 Reached/ 75 Engagem ent	15/11/2018	Evid.26_EWF _Formnext20 18_Facebook	https://www.facebook.com/E uropeanWeldingFederation/p hotos/ms.c.eJxFkMkNxAAIA ztacRrov7FVIJDvyAdGVMkd RaQErfzJAEmFVpS~_INQfg MQqmFChbLaK8M7gs6Az4 B~_YFtmWYHsyyGhBWivoQ	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
									jkaBC9wbqCxQMaCs~_hY~; CzEvUW2BYVZKwdiFJdBO YfhWnJa7lLj~_ccHZm3sWui 8MG9~_znzKP9JFSw8~- .bps.a.2327573947271360/2 330557600306328/?type=3& theater	
124	EU	Α.	Flyer distribution at the poster session (MATERIAUX 2018)	Scientific Community (Higher Education, Research)	N.A.	1600	19- 23/11/2019	Evid.27_Maté riaux 2018_Strasbo urg_1 Evid.28_Maté riaux 2018_Strasbo urg_2		IREPA
125	EU	A./B.	Technical progress meeting with Safran / Zodiac	Industry	4	10	22/10/2018	Confidential		Cranfield U.
126	EU	A./B.	Technical progress meeting with GE Aviation	Industry	2	7	29/10/2018	Confidential		Cranfield U.
127	EU	A./B.	Visit from Pix Moving (China)	Industry	2	10	01/11/2018	Confidential		Cranfield U.
128	EU	A./B.	Visit from Pix Moving (China)	Industry  Scientific Community (Higher Education, Research)	N.A.	70-80	05/12/2018	Evid. 29_Program me R2 Journée Technique FA	https://www.isgroupe.com/ fr/espace- membres/Documents/Pro gramme%20R2%20Journ ée%20Technique%20FA %20%20Arc-Fil%20- %205.12.18.pdf	Cranfield U.
129	EU	A.	Flyer distribution at Metal Days (Forum CTIF)	Industry	N.A.	N.A.	07/11/2018	Evid.30_CTIF		IREPA
130	EU	A./B.	TWI local branch talk	Industry Scientific Community	N.A.	10	06/12/2018	N.A.		Cranfield U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				(Higher Education, Research)						
131	EU	C.	Facebook post with link to ADMIRE website	General Public	N.A.	10 likes/1 share	21/01/2019	Fig. 80	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.1810450085 90942/243757183960490 3/?type=3&theater	EWF
132	EU	C.	LinkedIn post describing who will be involved in ADMIRE MSc's development	General Public	N.A.	12 likes	21/01/2019	Evid.31_ADM IRE MSc development_ LinkedIn	https://www.linkedin.com/f eed/update/urn:li:activity:6 493117184800223233/	EWF
133	EU	В.	Admire MSC advertised to MTC community via email	Scientific Community (Higher Education, Research)	1	25	08/03/2019	N.A.		MTC
134	EU	C.	Twitter on ADMIRE Capacity Building meeting held in MTC facilities (Coventry, UK)	General Public	N.A.	757 views/ 1 retweet	14/03/2019	Evid.32_ADM IRE Capacity Building MTC_Twitter	https://twitter.com/EWF_ Welding/status/11061966 16623652864	EWF
135	EU	C.	LinkedIn on ADMIRE Capacity Building meeting held in MTC facilities (Coventry, UK)	General Public	N.A.	32 likes	14/03/2019	Evid. (.)_LinkedIn ADMIRE Capacity Building MTC	https://www.linkedin.com/f eed/update/urn:li:activity:6 511961920898105344	EWF
136	EU	B.	APS meeting (flyers at disposal on the booth)	Industry	N.A.	200	19- 20/03/2019	<u>N.A.</u>		IREPA
137	EU	B.	Mastering AM event - information on AM stand	Industry	N.A.	100	27/03/2019	<u>N.A.</u>		MTC
138	EU	C.	Twitter on ADMIRE MSc presentation to students at Instituto Superior Técnico (Lisboa,Portugal)	General Public	N.A.	276 views	27/03/2019	Evid.34_ADM IRE MSc presentation at IST_twitter	https://twitter.com/EWF_ Welding/status/11109646 33802805253	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
139	EU	C.	LinkedIn post on ADMIRE MSc presentation to students at Instituto Superior Técnico (Lisboa,Portugal)	General Public	N.A.	8 likes	27/03/2019	Evid.35_ADM IRE MSc presentation at IST_linkedin	https://www.linkedin.com/f eed/update/urn:li:activity:6 516731254652571648/	EWF
140	EU	C.	Website post about ADMIRE MSc	General Public	N.A.	N.A.	01/04/2019	N.A.	https://www.cranfield.ac.u k/courses/taught/metal- additive-manufacturing	Cranfield U.
141	EU	A.D.	ADMIRE Conference (Disseminate project results & introduce new MSc)	Industry  Scientific Community (Higher Education, Research)	N.A.	40-50	07/04/2019	N.A.	Attendance List	Cranfield U.
142	EU	B.	MadAM days (conference on ADMIRE and evaluation questionnaires)	Industry	N.A.	50	10- 11/04/2019	<u>N.A.</u>		IREPA
143	EU	A./B.	Strategic meeting with Boeing	Industry	2	20	09/05/2019	Confidential		Cranfield U.
144	EU	C.	Facebook post about ADMIRE Metal AM Master's degree and link to the project's website	General Public	N.A.	10 likes	20/05/2019	Evid.36_ADM IRE Metal AM Master's degree & Link_Faceboo k	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.1810450085 90942/263206717682203 4/?type=3&theater	EWF
145	EU	C.	LinkedIn post about ADMIRE Metal AM Master's degree and link to the project's website	General Public	N.A.	19 likes	20/05/2019	Evid.37_ADM IRE Metal AM Master's degree & Link_Linkedin	https://www.linkedin.com/f eed/update/urn:li:activity:6 536271397696614400	EWF
146	EU	A.	Distribution of ADMIRE flyers among participants on EWF 3rd AM Workshop	Industry	N.A.	30	29- 31/05/2019	N.A.		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				Scientific Community (Higher Education, Research)						
147	EU	B.	Exhibition at salon Le Bourget (flyers at disposal on the booth)	Industry	N.A.	N.A.	21- 23/06/2019	N.A.		IREPA
148	EU	C.	Post on GKN intranet introducing the ADMIRE project	Industry	1	100-200	03/07/2019	Evid.GKN_Int ranet		GKN
149	EU	C.	ADMIRE description on EWF White Paper 2019	EWF members (Industry, Training Centers) General Public	>100	>200	10/2019	Fig.49	https://www.ewf.be/news/ white-paper- 2019.aspx?fbclid=lwAR1K 7z9Dza8hkLBXwHISRB2 SMSS1bde26cT6447SL0 galjJAd2koX7AnXis	EWF
150	BE	C.	Presentation of ADMIRE on Knowledge Alliance Cluster Meeting	Research institutes, manufactur ers and companies	40	>40	31/01/2018	PPT_Present ation_Cluster Meeting		EWF
151	EU	C.	Facebook on ADMIRE MSc launch at Cranfield University	General Public	N.A.	10 likes/2shar es	14/10/2019	Evid.38_Laun ch of ADMIRE MSc at Cranfield UFacebook	https://www.facebook.com /EuropeanWeldingFederat ion/posts/2912908738737 875?tn=-R	EWF
152	EU	C.	LinkedIn post on ADMIRE MSc launch at Cranfield University	General Public	N.A.	49 likes	14/10/2019	Evid.39_Laun ch of ADMIRE MSc at Cranfield ULinkedin	https://www.linkedin.com/f eed/update/urn:li:activity:6 589496986603405312	EWF
153	EU	B.	Knowledge Alliances Cluster Meeting, Brussels	Scientific Community (Higher	N.A.	170	23/10/2019	Confidencial		Bremen U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				Education, Research)						
154	EU	В.	ADMIRE-stand at the University Business Forum	Scientific Community (Higher Education, Research)	N.A.	>200	24- 25/10/2019	Evid.40_UB- ForumBrussel s2019		Bremen U.
155	EU	В.	Pitch carried out through a video on ADMIRE project, presented at lunch time; booth at the forum displaying ADMIRE poster to advertise the project and present it to participants	Scientific Community (Higher Education, Research)	N.A.	>200	24- 25/10/2019	Evid.41_Pres entation of the pitch video		EWF
156	EU	C.	Facebook post on the presentation made at the 8th European University-Company Forum, in Brussels	General Public	N.A.	16 likes/1 share	25/10/2019	Evid.42_8th European University- Company Forum Facebook	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.1810450085 90942/293885147614360 1/?type=3&theater	EWF
157	EU	C.	LinkedIn post on the presentation made at the 8th European University-Company Forum, in Brussels	General Public	N.A.	10 likes	25/10/2019	Evid.43_8th European University- Company Forum_Linke din	https://www.linkedin.com/f eed/update/urn:li:activity:6 593509750577606656	EWF
158	EU	В.	ADMIRE presentation on EWF 4th AM Workshop (Portugal)	Industry  Scientific Community (Higher Education, Research)	13	13	28/10/2019	Evid.44_4thA genda_EWF_ Worksh.		EWF
159	EU	C.	ADMIRE presentation on EWF International Conference	EWF members (Industry,	N.A.	40	30/10/2019	Fig.111		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				Training Centers)						
				Scientific Community (Higher Education, Research)						
160	EU	C.	Re-distribution of 2 <sup>nd</sup> Newsletter around campus.	General Public	-	-	05/11/2019	N.A.	Aiming to promote this within the University and further.	Birmingh am U.
161	EU	D.	Hard copies of #2 ADMIRE Newsletter posted around University of Birmingham	Scientific Community (Higher Education, Research)	N.A.	N.A.	05/11/2019	N.A.		Birmingh am U.
162	EU	C.	Facebook post on ADMIRE advertisement at FORMNEXT 2019, in Frankfurt, using its roll-up	General Public	N.A.	12 likes/13 shares	19/11/2019	Evid.45_EWF _BoothFORM NEXT 2019_FB	https://www.facebook.com /EuropeanWeldingFederat ion/photos/a.1810450085 90942/299632601372948 0/?type=3&theater	EWF
163	EU	В.	Display of ADMIRE Roll-up in EWF booth at FORMNEXT 2019 to introduce/present the project	Industry Scientific Community (Higher Education, Research)	N.A.	500	19- 22/11/2019	Fig.137		EWF
164	EU	В.	Flyer distribution at FORMNEXT 2019	Other	N.A.	>26 000	19- 22/11/2019	Evid.46_Flyer _Distribution- Formnext201 9		Bremen U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
165	EU	B.	Poster presentation at MSTAM Conference	Other	N.A.	85	10- 11/12/2019	Evid.47_Pictu resMSTAM20 19		Bremen U.
166	EU	B.	Additive Aero Summit 2019	Industry	N.A.	N.A.	03- 04/12/2019	N.A.		IREPA
167	EU	C.	Dissemination of ADMIRE project at IST Facebook account	General Public	N.A.	7 likes	05/12/2019	Evid.48_IST_ FB_2019	https://www.facebook.com /dem.tecnico/posts/26396 72639412224	IST
168	EU	C.	Dissemination via LinkedIn	General Public	N.A.	4 likes	January 2020	N.A.		Birmingh am U.
169	EU	C.	Post about ADMIRE 11th Transnational Partners' Meeting, in Bremen (Germany) on EWF Facebook account	General Public	N.A.	13 likes	30.01.2020	Evid.49_EWF _FB_11TPMs	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3164754836886 596	EWF
170	EU	C.	Publication about ADMIRE 11th Transnational Partners' Meeting, in Bremen (Germany) on EWF LinkedIn account	General Public	N.A.	23 likes/ 1 comment	30.01.2020	Evid.50_Evid. 49_ADMIRE_ 11TPMs_Link d.	https://www.linkedin.com/posts/ewf-european-federation-for-welding-joining-and-cutting_having-reached-its-final-semester-admire-activity-6628990594813304833-0vjz/	EWF
171	EU	C.	Dissemination via LinkedIn to promote the planned short sample courses being run by Cranfield	General Public	N.A.	4 likes	07.02.2020	Evid.B'ham_ MSc_LkdIn	https://www.linkedin.com/f eed/update/urn:li:activity:6 631466671208968192/	Birmingh am U.
172	EU	C.	AMPlab website	General Public	N.A.	N.A.	Ongoing		https://amplab- bham.com/projects/admir e-project/	Birmingh am U.
173	UK	C.	Post on GKN intranet introducing ADMIRE project	Industry	N.A.	100-200	20.03.2020	Evid.63_GKN _Intranet		GKN
174	PT	В	Presentation of ADMIRE results on EWF General Assembly	EWF Members	46	53	26.05.2020	Evid.51_EWF _GA_ADMIR E		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
175	UK	A/B	Dissemination of Cluster Meeting Reports (The pilot satisfaction questionnaire and cluster meeting reports were circulated to all staff members of the Wedling Engineering and Laser Poressing Centre so that they knew what the feedback was)	Scientific Community (Higher Education, Research)	N.A.	10-50 people	01.06.2020	Evid.56_Clust .Meet.Report		Cranfield U.
176	EU	C.	Post about ADMIRE National Roundtable carried out in Portugal (IST & EWF) and link for the AM Hub/Platform, on EWF Facebook account	General Public	N.A.	11 likes/3 shares	05.06.2020	Evid.52_ADM IRE_NR_PT_ FB	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3472588069436 603	EWF
177	EU	C.	Post about ADMIRE National Roundtable carried out in Portugal (IST & EWF) and link for the AM Hub/Platform, on EWF Facebook account	General Public	N.A.	10 likes	05.06.2020	Evid.53_ADM IRE_NR_PT_ Linkd.	https://www.linkedin.com/ posts/ewf-european- federation-for-welding- joining-and-cutting as- admire-is-reaching-its- conclusion-partners- activity- 6674637041264844800- s308/	EWF
178	PT	A.	Dissemination of ADMIRE AM Symposium 2020 on LinkedIn	General Public	N.A.	454	08.06.2020	Evid.62_Sym posium_IST_ Linkedin	Personal LinkedIn account	IST
179	UK	В.	Presentation to MTC staff/sales team on outputs of ADMIRE and MSc to help with further engagement	Scientific Community (Higher Education, Research)	N.A.	100	18.06.2020	Confidential		MTC
180	UK	B.	Additive Manufacture Training: External MTC training course offered online. ADMIRE project mentioned as example of helping to address skills gap	Industry	N.A.	150	23.06.2020	Confidential		MTC
181	UK	C.	AM Final Symposium (Personal Linkedin Posts; although multiple staff members shared a post on Linkedin, for the sake of	General Public	N.A.	>500	25.06.2020	Evid.60_Sym posium_Linke d.		Cranfield U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
			brevity and GDPR only one post is shown here)							
182	UK	C.	AM Final Symposium (Personal Facebook post)	General Public	N.A.	200-300	25.06.2020	Evid.61_Sym posium_SS_L inkedin		Cranfield U.
183	EU	A.	Invitation email sent to all EWF contacts (incl. EWF members and partners from other projects)	VET, Scientific Community (Higher Education, Research), Industry	>300	N.A.	25.06.2020	Fig. 149	ADMIRE Final Conference/Symposium 2020	EWF
184	UK	C.	Post on GKN intranet introducing ADMIRE project	Industry	N.A.	100-200	25.06.2020	Evid.64_AMS ymposGKN _Intra		GKN
185	UK	C.	AM Final Symposium (Add in Cranfield's internal Intranet for registering and attending the AM final symposium	Scientific Community (Higher Education, Research)	N.A.	N.A.	26.06.2020	Evid.57_Cran fi.Intranet_Sy mp.	Cranfield Univeristy's staff and students who would have accessed the events page of the intranet	Cranfield U.
186	UK	C.	AM Final Symposium (An email was sent to all staff and students at the School of Aerospace, Transport and Manufacturing advertising the event)	Scientific Community (Higher Education, Research)	SATM staff and students	>500	26.06.2020	N.A.		Cranfield U.
187	UK	Α.	ADMIRE Final Symposium (Information added in NEWAM website - NEWAM is a project with multiple partners that works on WAAM)	Scientific Community (Higher Education, Research)	N.A.	N.A.	26.06.2020	Evid.58_NEW AM	NEWAM project partners and general public (if they access the website)	Cranfield U.
188	UK	C.	AM Final Symposium (Tweet by Cranfield University's official account to advertise the event)	General Public	N.A.	>500	29.06.2020	Evid.59_Sym pCranf.Twitt er	Followers of Cranfield University's twitter account (currently at 23.2K followers; on 09/07/2020)	Cranfield U.



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
189	EU	C.	Post about ADMIRE AM Symposium 2020, on EWF Facebook account	General Public	N.A.	11 likes/ 2 shares	02.07.2020	Evid.54_ADM IRE Symp. Facebook	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3548463091849 100	EWF
190	EU	C.	Publication about ADMIRE AM Symposium 2020, on EWF LinkedIn account	General Public	N.A.	8 reactions	02.07.2020	Evid.55_EWF _LkdIn_Symp osium 2020	https://www.linkedin.com/ posts/ewf-european- federation-for-welding- joining-and-cutting this- week-admires-am- symposium-2020-activity- 6684417579643092992- 2bQt/	EWF
191	UK	C.	Dissemination of ADMIRE events within MTC via email/team meetings	MTC internal staff	N.A.	10	September 2020	Confidential		MTC
192	EU	C.	Link for ADMIRE website on AM Platform – European Technology Platform in Additive Manufacturing website	Scientific Community (Higher Education, Research), Industry	700	>500	September 2020	Evid.75_AMPI atform_ADMI RE	https://www.rm- platform.com/am-related- projects/projects-list	EWF
193	EU	B.	Presentation of ADMIRE professional profiles at ISO Plenary Meeting	Industry	N.A.	30	19.09.2020	Confidential		EWF
194	EU	B.	Presentation of ADMIRE project and main results at EFFRA "Made in Europe Working Groups" – Working Group 4 "Human-centred and human-driven manufacturing innovation"	Scientific Community (Higher Education, Research), Industry	192	80	22.09.2020	Evid.74_EFF RA_Presentat ion	https://cloud.effra.eu/index .php/s/H7Im9RLPAnJPSG q#pdfviewer	EWF
195	EU	D.	Creation of a promotional banner for ADMIRE Final Conference, to be used as "Save the Date" and to be published online	Scientific Community (Higher Education,	N.A.	N.A.	25.09.2020	Fig.158	This banner was published on ADMIRE website on this day, and all EWF staff included it on their email signatures as a way to	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
				Research), Industry, General Public					increase promotion of the event, reaching all their contacts	
196	EU	D.	Creation of a registration platform, using Eventbrite, so that potential participants of ADMIRE Final Conference could register	Scientific Community (Higher Education, Research), Industry, General Public	N.A.	345	25.09.2020	Fig. 156	EWF sent the link for this registration platform to all ADMIRE partners for dissemination	EWF
197	EU	В.	Presentation of ADMIRE at CLLAIM project Mid-Term Conference	Scientific Community (Higher Education, Research), Industry	N.A.	61	29.09.2020	Evid.76_ADM IREatCLLAIM _MTConf.	Connection between CLLAIM project and ADMIRE, with reference to the IAMQS	EWF
198	EU	Α.	Invitation by email to EWF members and to other contacts to attend ADMIRE Final Conference	VET, Scientific Community (Higher Education, Research), Industry	>300	N.A.	30.09.2020	Fig. 162	The Agenda and D7.7 was sent attached to the email	EWF
199	EU	C.	Registration of ADMIRE Final Conference on #ErasmusDays2020 initiative platform	VET, Scientific Community (Higher Education, Research), General Public	>1000	>500	30.09.2020	Figs. 154 & 155		EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
200	EU	C.	Post about ADMIRE's final conference, on EWF facebook account	General Public	N.A.	9 likes / 1 share	30.09.2020	Evid.77_EWF _FBewf_Final Conf 2020	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3826747177354 022	EWF
201	EU	C.	Post about ADMIRE's Final Conference, on IAMQS' facebook account	General Public	N.A.	2 likes/ 2 shares	30.09.2020	Evid.78_EWF _FBlamqs_Fi nalConf 2020	https://www.facebook.com /iamqsystem/posts/12397 2572786936	EWF
202	EU	C.	Post about ADMIRE's Final Conference, on EWF's Linkedin account	General Public	N.A.	10 likes	30.09.2020	Evid.79_EWF _LkdInewf_Fi nalConf 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 717006987088953344/	EWF
203	EU	C.	Post about ADMIRE's Final Conference, on IAMQS' Linkedin account	General Public	N.A.	5 likes	30.09.2020	Evid.80_WF_ LkdIniamqs_F inalConf 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 717005615480221697	EWF
204	EU	C.	Post on IAMQS Facebook account about the presentation made at EFFRA Workshop, including ADMIRE project presentation	General Public	N.A.	3 likes/ 4 shares	30.09.2020	Evid.81_EWF _FBiamqs_E FFRA 2020	https://www.facebook.com/ /iamqsystem/posts/12478 8606038666	EWF
205	EU	C.	Post on EWF Facebook account about the presentation made at EFFRA Workshop, including ADMIRE project presentation	General Public	N.A	5 likes/ 2 shares	30.09.2020	Evid.82_EWF _FBewf_EFF RA 2020	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3827568347271 905	EWF
206	EU	C.	Post on EWF LinkedIn account about the presentation made at EFFRA Workshop, including ADMIRE project presentation	General Public	N.A	11 likes	30.09.2020	Evid.83_EWF _LkdInewf_E FFRA 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 717085307151364096/	EWF
207	EU	C.	Dissemination of ADMIRE Final Flyer on EWF Facebook account	General Public	N.A	7 likes/ 1 share	30.09.2020	Evid.84_EWF _FBewf_laun chFinalFlyer	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3827874793907 927	EWF
208	EU	C.	Dissemination of ADMIRE Final Flyer on IAMQS Facebook account	General Public	N.A	3 likes/ 2 shares	30.09.2020	Evid.85_EWF _FBewf_laun chFinalFlyer	https://www.facebook.com /iamqsystem/posts/12483 1542701039	EWF
209	EU	C.	Dissemination of ADMIRE Final Flyer on EWF LinkedIn account	General Public	N.A	19 likes	30.09.2020	Evid.86_EWF _LkdInewf_la unchIFinaIFly er	https://www.linkedin.com/feed/update/urn:li:activity:6717115510867161088	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
210	EU	C.	Dissemination of ADMIRE Final Flyer on IAMQS LinkedIn account	General Public	N.A	5 likes	30.09.2020	Evid.87_EWF _LkdIniamqs_ launchFinal Flyer	https://www.linkedin.com/f eed/update/urn:li:activity:6 717114074745847808/	EWF
211	EU	C.	Publication of reference to ADMIRE Final Conference on 3DPI Platform schedule for events connected to Additive Manufacturing	Industry	N.A.	N.A.	30.09.2020	Evid.88_EWF _3DPI_Final Conf,	https://3dprintingindustry.c om/events/	EWF
212	DE	C.	Announcement of ADMIRE Final Conference event on social media page	Students, professiona ls, researchers	N.A.	68 likes	02.10.2020	Evid.72_ADM IRE FinalConf_Br emenFacebo ok	https://www.facebook.com /Bremen-Center-for- Computational-Materials- Science-BCCMS- 106825316089553	Bremen University
213	DE	C.	Announcement of ADMIRE Final Conference event on ISEMP's webpage	Research institutes, manufactur ers and companies	N.A.	N.A.	02.10.2020	Evid.73_ADM IREFinalConf _ISEMPsite	https://www.bccms.uni- bremen.de/de/isemp/vera nstaltungen	Bremen University
214	PT	C.	Dissemination of ADMIRE Final Conference	General Public	N.A.	860 views/ 9 likes	03.10.2020	Evid.68_IST_ Final Conference ADMIRE	https://www.linkedin.com/i n/in%C3%AAs-pires- 201a0011/detail/recent- activity/shares/	IST
215	EU	C.	Post about ADMIRE's Final Conference on EWF's facebook page	General Public	N.A	6 likes	07.10.2020	Evid.89_EWF _FBewf_Final Conf 2020	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3866744156687 657	EWF
216	EU	C.	Post about ADMIRE's Final Conference on IAMQS's facebook account	General Public	N.A	3 likes/ 2 shares	07.10.2020	Evid.90_EWF _FBiamqs_Fi nalConf 2020	https://www.facebook.com /iamqsystem/posts/14350 0610834132	EWF
217	EU	C.	Post about ADMIRE's Final Conference on EWF Linkedin account	General Public	N.A	9 likes	07.10.2020	Evid.91_EWF _LkdInewf_Fi nalConf 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 719594971151790080/	EWF
218	EU	C.	Post about ADMIRE's Final Conference on IAMQS Linkedin account	General Public	N.A	5 likes	07.10.2020	Evid.92_EWF _LkdIniamqs_	https://www.linkedin.com/f eed/update/urn:li:activity:6 719590452451938305/	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
								FinalConf 2020		
219	UK	C.	Post on LinkedIn about the ADMIRE Final Conference	General Public	N.A.	841 views	09.10.2020	Evid.65_Final ConfCranf.	Personal LinkedIn account	Cranfield U.
220	UK	C.	Post on GKN intranet introducing ADMIRE project	Industry	N.A.	100-200	09.10.2020	Evid. 69_ADMIRE Booklet_GKN Intra		GKN
221	UK	C.	Post by Cranfield University on LinkedIn about the ADMIRE Final Conference	General Public	N.A.	77 695 followers	12.10.2020	Evid.66_Final ConfCranf_ Linkedin		Cranfield U.
222	UK	C.	Post by Cranfield University on Twitter about the ADMIRE Final Conference	General Public	N.A.	23 600 followers	12.10.2020	Evid.67_Final ConfCranf_ Twitter		Cranfield U.
223	EU	C.	Post about ADMIRE's Final Conference on EWF's facebook page	General Public	N.A.	6 likes	12.10.2020	Evid.93_EWF _FBewf_Final Conf 2020	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3866744156687 657	EWF
224	EU	C.	Post about ADMIRE's Final Conference on EWF's Linkedin page	General Public	N.A.	15 likes	12.10.2020	Evid.94_EWF _LkdInewf_Fi nalConf 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 721441611647094784/	EWF
225	PT	C.	Dissemination of ADMIRE Final Conference	General Public	N.A.	104 views/ 2 likes	13.10.2020	Evid.70_Final Conf.ADMIRE _IST_Linkedi n	https://www.linkedin.com/i n/in%C3%AAs-pires- 201a0011/detail/recent- activity/shares/	IST
226	PT	C.	Dissemination of ADMIRE Final Partners' Meeting	General Public	N.A.	80 views/ 2likes	15.10.2020	Evid.71_ADM IRE_FinalTP M_Linkedin	https://www.linkedin.com/i n/in%C3%AAs-pires- 201a0011/detail/recent- activity/shares/	IST
227	EU	C.	Post about ADMIRE's Final Conference and Final Partners' Meeting on EWF's Facebook page	General Public	N.A.	5 likes	15.10.2020	Evid.95_EWF _FBewf_Final Conf&FPM20 20	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3875665672462 172	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
228	EU	C.	Post about ADMIRE's Final Conference and Final Partners' Meeting on IAMQS Facebook page	General Public	N.A.	3 likes/ 1share	15.10.2020	Evid.96_EWF _FBiamqs_Fi nalConf&FPM 2020	https://www.facebook.com /iamqsystem/posts/15036 1010148092	EWF
229	EU	C.	Post about ADMIRE's Final Conference and Final Partners' Meeting on EWF's LinkedIn page	General Public	N.A.	11 likes	15.10.2020	Evid.97_EWF _LkdInewf_Fi nalConf&FPM 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 722549345868107776/	EWF
230	EU	C.	Post about ADMIRE's Final Conference and Final Partners' Meeting on IAMQS LinkedIn page	General Public	N.A.	4 likes	15.10.2020	Evid.98_EWF _LkdIniamqs_ FinalConf&FP M 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 722547780641947648	EWF
231	EU	C.	Post announcing ADMIRE's last day on EWF's Facebook account (with pitch video)	General Public	N.A.	4 likes	30.10.2020	Evid.99_EWF _FBewf_Last Day 2020	https://www.facebook.com /EuropeanWeldingFederat ion/posts/3917673648261 374	EWF
232	EU	C.	Post announcing ADMIRE's last day on IAMQS Facebook account (with pitch video)	General Public	N.A.	1 likes/ 1 share	30.10.2020	Evid.100_EW F_FBiamqs_L astDay 2020	https://www.facebook.com/iamqsystem/posts/160363012481225	EWF
233	EU	C.	Post announcing ADMIRE's last day on EWF's LinkedIn account (with pitch video)	General Public	N.A.	7 likes	30.10.2020	Evid.101_EW F_LkdInewf_L astDay 2020	https://www.linkedin.com/f eed/update/urn:li:activity:6 727903845726330880	EWF
234	EU	C.	Post announcing ADMIRE's last day on IAMQS LinkedIn account (with pitch video)	General Public	N.A.	8 likes	30.10.2020	Evid.102_EW F_LkdIniamqs _LastDay 2020	https://www.linkedin.com/feed/update/urn:li:activity:6727903092647460864	EWF
			Planned D	<b>Disseminatio</b> i	n Activities for I	November 2	020			
235	EU	C.	Post about Thesis developed by IST students during the MSc pilot sessions, on EWF's LinkedIn account	General Public	N.A.	10 likes	02.11.2020	Evid.103_AD MIRE_ThesisI ST_EWFLink d.	https://www.linkedin.com/f eed/update/urn:li:activity:6 729048018647052288	EWF
236	EU	C.	Post about Thesis developed by IST students during the MSc pilot sessions, on IAMQS LinkedIn account	General Public	N.A.	3 likes	02.11.2020	Evid.104_AD MIRE_ThesisI	https://www.linkedin.com/f eed/update/urn:li:activity:6 729047518224646144/	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
								ST_IAMQSLi nkd.		
237	EU	В.	Joint FAA – EASA Workshop on Qualification / Certification of Additively Manufactured Parts (online session)	Research institutes, Industry (incl. Standardiza tion bodies – ISO)	N.A.	179 participant s	04.11.2020	Evid.105_Join tFAA_Present ation Evid.106_Join tFAA_Agenda	Presentation about Standards and Training Programs for the Qualification of AM Personnel, including ADMIRE European Metal AM Engineer MSc/specializations	EWF
238	EU	C.	ADMIRE Press Release #2	General public, technology	N.A.	N.A	11.11.2020	Fig. 4a1	https://admireproject.eu/d ocuments/ADMIRE%20% 232%20Press%20Releas e.pdf	EWF
239	EU	В.	ICAAM – International Conference on Additive Manufacturing 2020 (online session , organised by ASTM Center of Excellence)	Research institutes, Industry	N.A.	N.A.	16- 20.11.2020	Evid.107_EW F_PPT_ICAA M2020	EWF will be presenting "Personnel Qualification for Polymer and Composite in AM", providing information about AM Qualifications that are part of IAMQS, including ADMIRE European Metal AM Engineer MSc/specializations	EWF
240	Brazil	В.	1 <sup>st</sup> Brazilian Congress on Additive Manufacturing (CBMAdi)	Research institutes, Industry	N.A.	N.A.	30.11.2020	Evid.108_EW F_CBMAdiPr esent.	EWF will be presenting "Additive Manufacturing in Europe – Recent results from collaborative projects and development of professional qualifications", including ADMIRE European Metal AM Engineer	EWF



No.	Country/EU	Туре	Descrip. of the activity <sup>1</sup>	Target groups	Institutions (No.)	Persons (No.)	Date	Document.	Comments	Partner Respo nsible
									MSc/specializations, D7.7 (ADMIRE "booklet" and an	
									explanation on how can	
									the MSc be implemented	
									by Universities, with	
									assistance of IAMQS	

**Subject/Deliverable:** D7.5 Dissemination Portfolio



## Conclusion

Efficient dissemination is a fundamental activity in any project, since the success of the dissemination activities carried out during (and after) the project contribute decisively to both the short and long-term success of it.

As previously mentioned, the overall <u>234 dissemination activities</u> carried out between January and the end of October 2020 were realised on a regular basis, making use of diversified sort of means on the endeavour to reach end engage relevant stakeholders (e.g. local, national, European education authorities, training managers, education practitioners, vet providers, higher education providers, trainees, companies, business representatives and manufacturing representatives).

Overall, a total number of 60.510 people were reached or actively involved on those activities, a number that will continue to rise beyond the project. During the month of November 2020, a total of <u>6 dissemination activities</u> are already planned to be conducted as a way to ensure ADMIRE results' sustainability and exploitation opportunities.

Because the European Metal AM Engineer MSc/specializations is being implemented by EWF's International Additive Manufacturing Qualification System (IAMQS), and the AM Hub/Platform is already part of the AM Observatory (created in the scope of SAM<sup>2</sup> project (as explained on deliverable D7.4 - Dissemination, Sustainability and Exploitation Plan), EWF will continue disseminating ADMIRE in the future, as part of its activities.

Supporting this document was a group effort done by all the ADMIRE partners to lead the project to good outcomes, having in mind the still to come and necessary steps to exploit the results in a proper way.

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<sup>&</sup>lt;sup>2</sup> http://www.skills4am.eu/

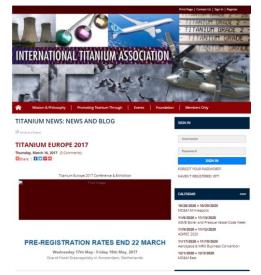
Subject/Deliverable: D7.5 Dissemination Portfolio



# **ANNEX 1 – Dissemination Evidence**



Evid. 1 Congress\_Program\_APS2017



Evid. 2 Titanium Europe 2017



Evid. 3\_3D printing live! Conference



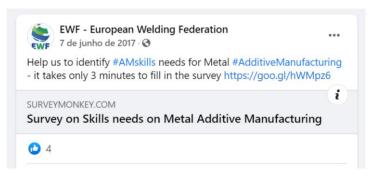


The second meeting of ADMIRE's consortium took place in Cranfield (UK), once again, to discuss the structure of the Joint
Metal Additive Manufacturing Master degree.

Evid. 4 ADMIRE 2nd Meeting Proj. Website



Evid. 7\_ Meeting CECIMO Facebook



Evid. 5 Survey Skills Needs for AM Facebook



Evid. 8\_ European Metal AM MSc LinkdIn



Evid. 6 EU Metal AM MSc Linkd.



Evid. 9\_ European Metal AM MSc Facebook



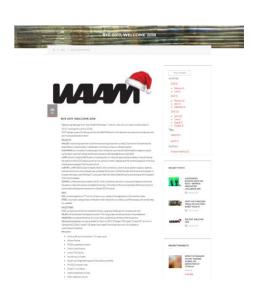


Evid. 10\_ European Metal AM MSc Twitter





Evid. 11\_TCT Conference





Evid. 12\_lecture at Imperial College Twitter







Evid. 16\_CRAN\_dissemination\_agenda\_WAAMMat\_2018



Evid.19\_ADS Show



Evid. 17\_ADMIRE\_1st Nsltr\_Facebook



Evid.20\_Ecole de la mécanique de l'IN2P3



Evid.18\_ADMIRECapacBuild\_Facebook



Evid.21 Booth AMEF 2018\_FB





European Federation for Welding, Joining and Cutting (EWF)

4.313 followers

EWF 2y-F

During the Sird EWF General Assembly is highlighted the work developed by so far
on developing additivemanufacturing qualifications to provide a qualified
workforce required by the industry. #ADMIREproject #CLLAIMproject #education

Evid.23\_EWF\_53rdGA\_LinkdIn



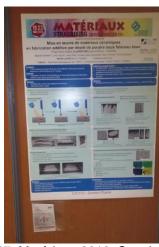


Evid.25\_ADMIRE MSc\_Linkedin

Evid.26\_EWF\_Formnext2018\_Facebook



Evid.24\_ADMIRE MSc\_Twitter



Evid.27\_Matériaux 2018\_Strasbourg\_1

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Evid.28\_Matériaux 2018\_Strasbourg\_2

been so easy



Evid. 29\_Programme R2 Journée Technique FA



Evid.30\_CTIF

Evid.31\_ADMIRE MSc development\_LinkedIn



Evid.24\_ADMIRE MSc\_Twitter



Evid.32\_ADMIRE Capacity Building MTC\_Twitter





Evid.33\_ADMIRE Capacity Building MTC\_LinkedIn



Evid.36\_ADMIRE Metal AM Master's degree & Link Facebook



Evid.34\_ADMIRE MSc presentation at IST\_twitter



Evid.37\_ADMIRE Metal AM Master's degree & Link Linkedin



Evid.35\_ADMIRE MSc presentation at IST\_linkedin



Evid.38\_Launch of ADMIRE MSc at Cranfield U. Facebook

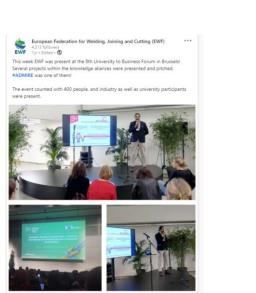




Evid.39\_Launch of ADMIRE MSc at Cranfield U. \_Linkedin



Evid.40\_UB-ForumBrussels2019



Evid.43\_8th European University-Company Forum\_Linkedin





Evid.41\_Presentation of the pitch video at UB Forum



Evid.44\_4thAgenda\_EWF\_Workshop.



Evid.42\_8th European University-Company Forum Facebook





Evid.45\_EWF\_BoothFORMNEXT 2019\_FB



Evid.48\_IST\_FB\_2019



Evid.46\_Flyer\_Distribution-Formnext2019



Evid.49\_EWF\_FB\_11TPMs



Evid.47\_PicturesMSTAM2019

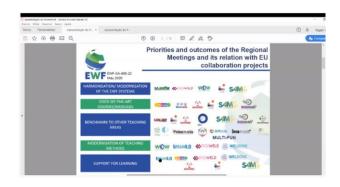


Evid.35\_ADMIRE MSc presentation at IST\_linkedin





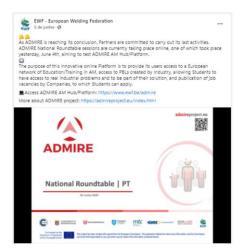
Evid.48\_IST\_FB\_2019



Evid.51 EWF GA ADMIRE



Evid.49\_EWF\_FB\_11TPMs



Evid.52 ADMIRE NR PT FB



Evid.50\_ADMIRE\_11TPMs\_Linkd.



Evid.53 ADMIRE NR PT Linkd.

#### Subject/Deliverable: D7.5 Dissemination Portfolio





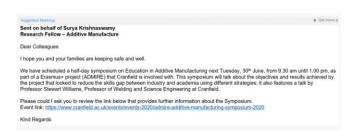


Evid.55\_EWF\_LkdIn\_Symposium 2020

to WELP Staff

Hello all,

the general and module specific implementation steps.





The event will also include a presentation by Professor Stewart Williams on the need for AM

Symposium on AM education as



Evid.56\_Clust.Meet.Report

I hope all of you are well and safe at this time. When I was carrying out the meeting to collect your feedback on the Metal AM MSc course last month, some of you

Also I would be grateful if you could keep this report to yourselves and not share it with anyone else since the results are confidential. Thank you

wanted to have a look at the report. Therefore, I have attached the report with this mail. If you are not very interested in the actual analysis, the summary section has



Manufacturing Symposium 2020

Find out more and register here cranfield.ac.uk/events/events-...

## #manufacturing #mfg #ukmfg

8:15 PM · Jun 29, 2020 · Sprout Social

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2 Retweets 2 Likes

Evid.59\_Symp.\_Cranf.Twitter

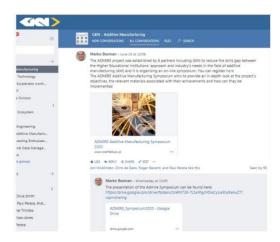
Evid.57\_Cranfi.Intranet\_Symp.

Evid.58 NEWAM





Evid.60 Symposium Linked.



Evid.64\_AMSympos.\_GKN\_Intra



Evid.61 Symposium SS Linkedin



Evid.65 FinalConf. Cranf.



Evid.63 GKN Intranet



Evid.66\_FinalConf.\_Cranf\_Linkedin





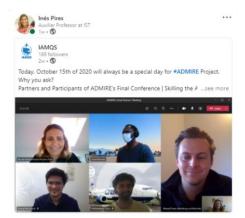
Evid.67\_FinalConf.\_Cranf\_Twitter



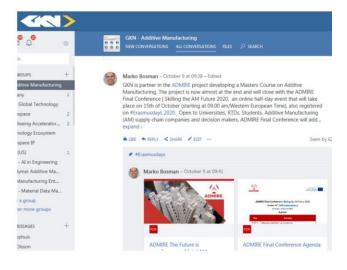
Evid.70\_FinalConf.ADMIRE\_IST\_Linkedin



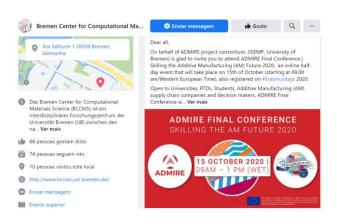
Evid.68\_IST\_Final Conference ADMIRE



Evid.71\_ADMIRE\_FinalTPM\_Linkedin



Evid. 69\_ADMIRE Booklet\_GKN\_Intra



Evid.72\_ADMIRE FinalConf\_BremenFacebook

Subject/Deliverable: D7.5 Dissemination Portfolio





Evid.73\_ADMIREFinalConf\_ISEMPsite



Evid.74\_EFFRA\_Presentation



Evid.76 ADMIREatCLLAIM MTConf.



Evid.77 EWF FBewf FinalConf 2020



### Evid.75\_AMPlatform\_ADMIRE



Evid.78\_EWF\_FBlamqs\_FinalConf 2020





Evid.80\_WF\_LkdIniamqs\_FinalConf 2020



Evid.83\_EWF\_LkdInewf\_EFFRA 2020



Evid.81\_EWF\_FBiamqs\_EFFRA 2020



Evid.84\_EWF\_FBewf\_launchFinalFlyer



Evid.82\_EWF\_FBewf\_EFFRA 2020



Evid.85\_EWF\_FBewf\_launchFinalFlyer

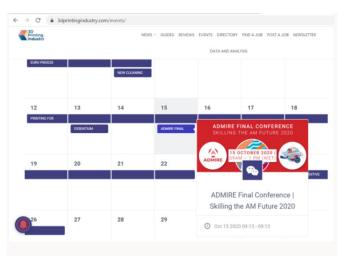




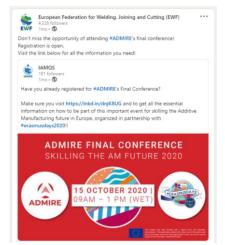
Evid.87\_EWF\_LkdIniamqs\_launchFinal Flyer



Evid.90\_EWF\_FBiamqs\_FinalConf 2020



Evid.88\_EWF\_3DPI\_Final Conf,



Evid.91 EWF LkdInewf FinalConf 2020



Evid.89\_EWF\_FBewf\_FinalConf 2020



Evid.92\_EWF\_LkdIniamqs\_FinalConf 2020





European Federation for Welding, Joining and Cutting (EWF)

4.328 followers
3w · ②

Don't miss this opportunity! Make sure you register to #ADMIRE's Final Conference!

Visit https://lnkd.in/dnjK8UG and get all essential information on how to be part of this important event for skilling the Additive Manufacturing future in Europe, organized in partnership with #erasmusdays2020!!

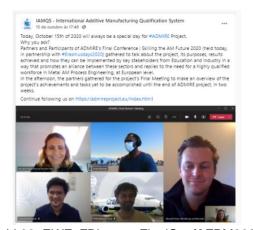
ADMIRE FINAL CONFERENCE
SKILLING THE AM FUTURE 2020

15 OCTOBER 2020

19 ADMIRE FINAL CONFERENCE
SKILLING THE AM FUTURE 2020

Evid.93\_EWF\_FBewf\_FinalConf 2020

Evid.94 EWF LkdInewf FinalConf 2020





Evid.96\_EWF\_FBiamqs\_FinalConf&FPM2020

Evid.97 EWF LkdInewf FinalConf&FPM2020

EWF - European Welding Federation

William S de oruntario is 17:50 · ©

ADMIRE's Final Conference took place today, and we will certainly remember it for a while!
Check out the post below for more information on what was discussed!

Meanwhile, visit the projects website: https://admireproject.eu/index.html

IAMQS - International Additive Manufacturing Qualification System

15 de outubro is 17:48 · ©

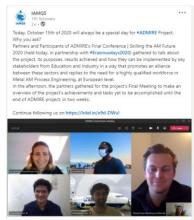
Today, October 15th of 2020 will always be a special day for #ADMIRE Project.
Why you ask?

Partners and Participants of ADMIRE's Final Conference | Skilling the AM Future 2020 (held today, in partnership with #Ensamudays/2020) gathered to talk about the project, its purposes, results achieved and how they can be implemented by key stakeholders from Education and Industry in a way that promotes an alliance between these sectors and replies to the need for a highly qualified workforce in Metal AM Process Engineering. At European level.

In the aftermoon, the partners gathered for the project's Final Meeting to make an overview of the project's achievements and tasks yet to be accomplished until the end of ADMIRE project, in two weeks.

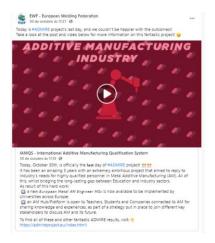
Continue following us on https://admireproject.eu/index.html!

Evid.95\_EWF\_FBewf\_FinalConf&FPM2020



Evid.98 EWF LkdIniamgs FinalConf&FPM 2020





Evid.99\_EWF\_FBewf\_LastDay 2020



Evid.100\_EWF\_FBiamqs\_LastDay 2020



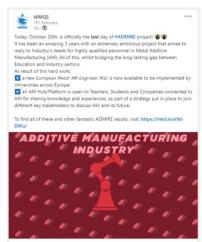
Evid.84\_EWF\_FBewf\_launchFinalFlyer



Evid.101\_EWF\_LkdInewf\_LastDay 2020



Evid.85\_EWF\_FBewf\_launchFinalFlyer



Evid.102\_EWF\_LkdIniamqs\_LastDay 2020

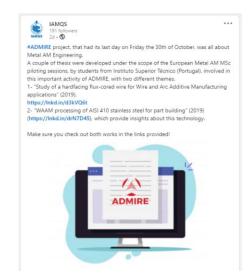




Evid.103 B'ham\_MSc\_LkdIn



Evid.106\_JointFAA\_Agenda



Evid.104\_ADMIRE\_ThesisIST\_IAMQSLinkd.



Evid.107\_EWF\_PPT\_ICAAM2020

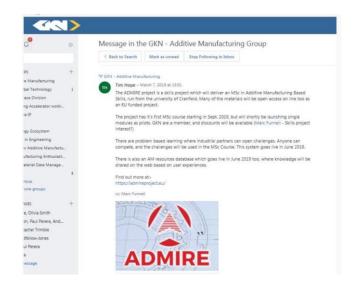


Evid.105\_Joint FAA\_Presentation



Evid.108\_EWF\_CBMAdiPresent.





Evid.109 GKN\_Intranet



Evid.83\_EWF\_LkdInewf\_EFFRA 2020













PPTEvid.110 Presentation\_ClusterMeeting



Evid.84\_EWF\_FBewf\_launchFinalFlyer



Evid.85\_EWF\_FBewf\_launchFinalFlyer



Evid.85\_EWF\_FBewf\_launchFinalFlyer





Evid.83\_EWF\_LkdInewf\_EFFRA 2020



Evid.83\_EWF\_LkdInewf\_EFFRA 2020



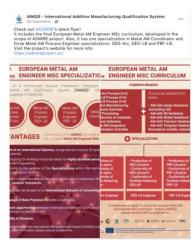
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