



WP 6: Exchange of Knowledge Strategies' Implementation and Testing at National Level

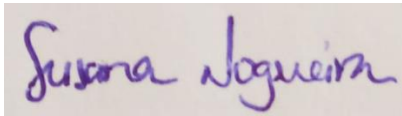

D 6.3 – Additive Manufacturing Knowledge “Speed Datings”

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Subject/Deliverable: D 6.3 – Additive Manufacturing Knowledge “Speed Datings”



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Executive Summary

Additive Manufacturing (AM) Knowledge “Speed-Datings” is one of the exchange of knowledge strategies planned to be piloted in the scope of ADMIRE project's Work Package (WP) 6 – *Exchange of Knowledge Strategies' Implementation and Testing at National Level*, whose leader is the European Federation for Welding, Joining and Cutting (EFW).

This strategy is part of a set of exchange of knowledge strategies piloted by ADMIRE partners to verify their usefulness and feasibility, which also include:

- AM hub/platform developed in the scope of ADMIRE project,
- AM World Café Meetings at national level.

In order to carry out these pilots, ADMIRE consortium, composed by partners belonging to Academia (Cranfield University, University of Birmingham, Bremen University and Instituto Superior Técnico from University of Lisbon) and Industry/Business (Manufacturing Technology Centre, IREPA and GKN), from 5 countries (UK, DE, FR, BE and PT), selected which partner(s) would be responsible for piloting for which strategy.

EFW was chosen to carry out the AM Knowledge Speed Dating, which aim is to bridge diverse sectors that might intersect in AM supply chain, opening ways for future collaborations in research projects, products and solutions, clustering participants according to their scope and interests.

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1 Introduction

The European Federation for Welding, Joining and Cutting (EFW) is a European Association with 27 years of experience in running European/International qualifications in place in 45 countries worldwide.

The increasing growth of Metal Additive Manufacturing (AM) technology is demanding the definition of new professional levels required by industry for personnel working in this area. Interested to know the views on the requirements for the European Metal AM Engineer, a qualification in which ADMIRE project is focused, EWF conducted (and will continue to conduct) research on this topic and a series of activities that allowed to collect information about this matter.

This report addresses the strategy used to conduct the AM Knowledge “Speed-dating” session held in Porto Salvo (Portugal) by EWF on October 2nd, 2018, in the scope of its second AM Qualification Workshop, and the results achieved with this strategy.

This event gathered stakeholders from industry, manufacturing, Higher Education and R&D (some of the target-participants of this event) to discuss EWF’s AM Qualifications System, and was an opportunity to present ADMIRE and its expected results and to conduct this session.

The procedures performed to organize and carry out the session are described in the following pages, as well as the results achieved.

The strategies and methodologies in place to conduct the AM Knowledge “Speed-dating” session will be discussed by all ADMIRE partners on a dedicated Common Partners’ Roundtable session, to understand the need to improve those strategies/methodologies towards the future implementation of AM Knowledge “Speed-dating”, beyond ADMIRE project’s lifecycle. The results from those discussions will be available on D6.4 Roundtables report.

2 Aim

A speed dating is by definition an event where two persons with mutual interests and who do not know each other can join and meet in a short time-frame.

ADMIRE AM Knowledge “Speed Dating” was an event that intends to bridge different sectors that might intersect in AM supply chain, opening ways for new collaborations among its participants (i.e. companies that integrate AM supply chain, AM MSc students and other professionals interested to know more about the sector).

EFW carried out the AM Knowledge “Speed-Dating” as an ice-break activity of its 2nd AM Qualifications Workshop held in Porto Salvo, Portugal, in October 2nd, 2018.

This activity, based on specific rules and defined objectives, allowed all participants of this workshop to present themselves and their backgrounds (as well as their interests), and to network aiming at possible future collaborations, in accordance with the AM Knowledge “Speed Dating” main purpose.

The aim of this report is to describe how this event, that gathered 22 participants (stakeholders from the manufacturing sector, industrial associations, High Education institutions and R&D) was organized and accomplished by EWF.

3 Preparation for the session

As previously mentioned, this AM Knowledge “Speed Dating” was carried out in the scope of EWF’s 2nd AM Qualifications Workshop.

When registering for the event, participants were asked to choose one topic to discuss during the session, based on their interests. This would be the core activity of the AM Knowledge “Speed Dating”.

There were five distinct topics, all related to AM sector:

1. Discuss calls and proposals (e.g. Factories of the Future (FoFs), etc.);
2. Products and solutions (e.g. design optimization, material properties, build layout optimization, inspection, etc.);
3. Education and training in AM;
4. Standardization in AM;
5. Other topic(s).

Each topic had a specific colour:

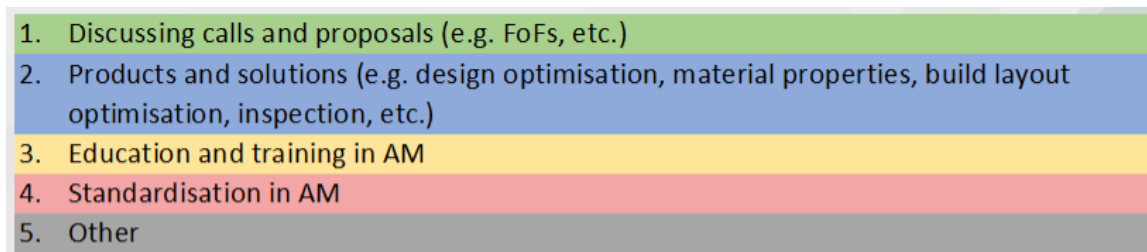


Image 1 – Topics for discussion during AM Knowledge Speed Dating, organised by colours

When selecting one topic (some chose more than one), participants were given an ADMIRE badge with the respective colour:



Image 2 – ADMIRE badges handed to participants with colours referring to the topics for discussion

Because this was also an opportunity for participants to trade business cards during the session (one of the main purposes of the activity) a business card template was provided to those who did not have one, making sure all participants had the same opportunity to network.

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Below is the Attendance List with the names of the AM Knowledge “Speed Dating participants, the names of their respective organizations, as well as indication of the topics each participant chose to discuss:

2nd AM QUALIFICATIONS WORKSHOP 

AM Networking ‘Speed Dating’

From the following AM topics, which of them are you interested in? You can pick more than one.

1. Discussing calls and proposals (e.g. FoFs, etc.)
2. Products and solutions (e.g. design optimisation, material properties, build layout optimisation, inspection, etc.)
3. Education and training in AM
4. Standardisation in AM
5. Other

#	First Name	Surname	Organisation	Interests
1	A		PROINTEC	1, 2
2			GE	
3			CRF	All
4			VOESTALPINE	3
5			LZH	1, 3
6			Cranfield	all
7			ISQ	All
8			Renishaw	
9			SINTEF	All
10			TWI	All
11			MTC	All
12			IIS	All
13			Upatras	All
14			inspire	
15			Fraunhofer	4, 1
16			TWI	3, 4
17			Cranfield	All
18			AIMEN	1, 3
19	W		Loyds Register	all

Image 3 - AM Knowledge “Speed Dating Attendance List (the names are hidden for confidentiality purposes)

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4 AM Knowledge “Speed Dating” | Presentation to Participants

After welcoming all participants to EWF’s 2nd AM Qualifications Workshop and presenting its agenda for the upcoming days, and before starting the session, a moderator made a brief presentation about the AM Knowledge “Speed Dating” using a short PowerPoint focusing on the following topics:

- What is a “Speed Dating”?;
- Expected Outcomes;
- Rules of the session;
- Importance of the colours for the activity.

Hence, participants were informed that the “speed dating” is a formalised event carried out to allow people who do not know each other to meet and discover mutual interests in a short timeframe.

The expected outcomes of this activity were to promote a close relationship between different key personnel from AM industry (i.e. all participants of the event), enabling participants to share knowledge and ideas about common interests in AM, opening the door for future contacts and collaborations and, ultimately, bring benefits to Metal Additive Manufacturing sector.

The rules for carrying out the AM Knowledge “Speed Dating” were also presented: each participant had to make eye to eye conversation in a 3 minute round to speak with the person in front of him/her. In the end, the participant had to move chairs in a clockwise direction and take his/her personal belongings. Every 60 seconds, a timekeeper (i.e. moderator) would advise participants of the remaining time to finish the conversation. Participants needed to spot the shared colours (i.e. topics for discussion) and engage conversation.

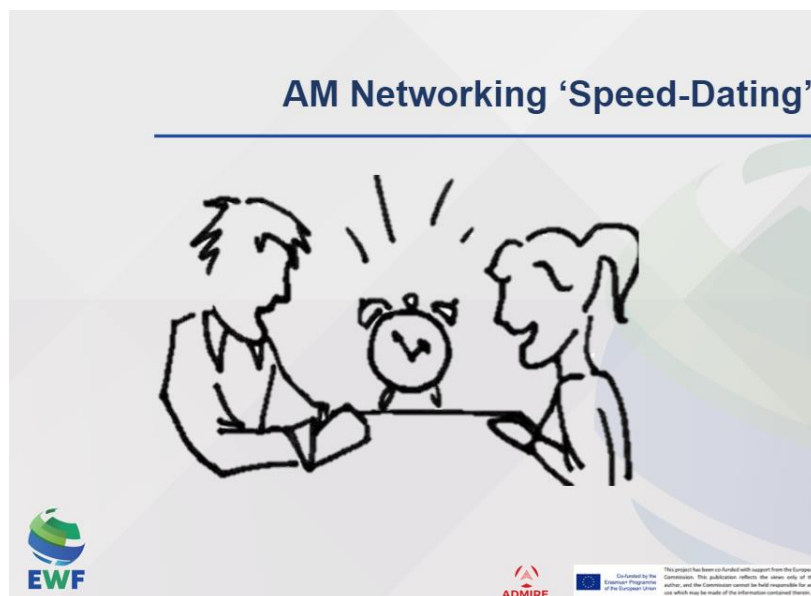


Image 4 – First slide of the presentation made about ADMIRE AM Knowledge “Speed Dating” to present the session, rules and purposes

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5 AM Knowledge “Speed Dating” | The session

For one hour, the seventeen EWF’s 2nd AM Qualifications Workshop’s participants had the chance to meet each other in a closer way due to the AM Knowledge “Speed Dating”, exchange contacts and discuss common interests.

The room where the activity took place was settled previously, with all tables placed in line with the chairs faced in front of one another to allow participants to sit in front of each other for the speed dating rounds. Rounds were organized using the following structure:

A	B	C	D	E	F	G	H	I	J
T	S	R	Q	P	O	N	M	L	K

T	A	B	C	D	E	F	G	H	I
S	R	Q	P	O	N	M	L	K	J

S	T	A	B	C	D	E	F	G	H
R	Q	P	O	N	M	L	K	J	I

R	S	T	A	B	C	D	E	F	G
Q	P	O	N	M	L	K	J	I	H

Q	R	S	T	A	B	C	D	E	F
P	O	N	M	L	K	J	I	H	G

P	Q	R	S	T	A	B	C	D	E
O	N	M	L	K	J	I	H	G	F

O	P	Q	R	S	T	A	B	C	D
N	M	L	K	J	I	H	G	F	E

N	O	P	Q	R	S	T	A	B	C
M	L	K	J	I	H	G	F	E	D

M	N	O	P	Q	R	S	T	A	B
L	K	J	I	H	G	F	E	D	C

L	M	N	O	P	Q	R	S	T	A
K	J	I	H	G	F	E	D	C	B

Image 5 – Speed dating rounds’ organization structure

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The session moderator had a safeguard script he could use in case participants had difficulties starting or maintaining the discussions. This script contained the following questions:

- What made you decide to come to this event?
- What's your favourite part of your job?
- How did you get into the role / industry you are in now?
- What are your favourite productivity sites, tools, and apps?
- My most recent accomplishment was _____
- Do you have any thoughts on how I could position that experience to help me get to my next step, which is _____
- I'm currently (explain something you're experience in current role). Do you have suggestions on how to deal with that situation?
- What do you expect to do next?
- Is there anyone else in your network you think I should speak with?

The session had a total of nine rounds of three minutes each, which allowed all participants to interact with each other.



Image 5 – First round of the AM Knowledge “Speed Dating”



Image 6 – Moment when one of the speed dating rounds finished to start another one

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6 Conclusion

ADMIRE AM Knowledge “Speed Dating” was a successful activity, proven by the impact it had on participants who represented different sectors - from industry and manufacturing to education and R&D, in line with ADMIRE purpose of bringing together stakeholders from different sectors.

Even though they belonged to different backgrounds, the fact that participants had similar interests in what refers to the AM sector is a predictor of the potentialities for future collaborations (i.e. research projects, products and solutions), which is in line with one of the main purposes of this ADMIRE outcome: to bridge different sectors that may intersect in AM supply chain, opening ways for collaboration.

Due to its impact on participants, it is recommended that the AM Knowledge “Speed Dating” be replicated in future events connected to AM as a way to bring different stakeholders together for a common purpose: development of AM sector in various fronts.

The methodology and strategies put in place to conduct this AM Knowledge “Speed-Date” will be discussed on the Common Partners’ Roundtable (to be held in the scope of WP6/D 6.4 Roundtables) by all ADMIRE partners. The report to be developed after this Roundtable will provide suggestions about the necessary improvements to be made to enhance results and future AM Knowledge “Speed-Datings”.