Project title:

Creating know**L**edge and skil**L**s in **A**dd**I**tive **M**anufacturing
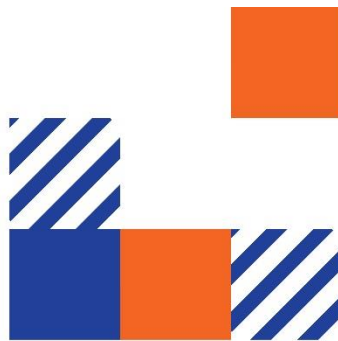
CLLAIM

Reference number:

2017-3309/591838-EPP-1-2017-1-ES-EPPKA2-SSA

Working Package 8

Working Package Leader LZH Laser Akademie

Deliverable 8.3

Title Final Conference Report

Creating knowLedge and skiLLs in AddItive Manufacturing
Reference number: 2017-3309/591838-EPP-1-2017-1-ES-EPPKA2-SSA
Preparation date: March 03, 2020   Revision: 2

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Introduction

The main aim of Creating KnowLedge and SkilLs in AddItive Manufacturing (CLLAIM), set to address the Manufacturing & Engineering sector, was to develop a brand-new European sector-oriented qualification system and body in Additive Manufacturing (AM) through the exchange among EU partners of an innovative training curriculum.

The results achieved during the three years of the project duration were presented in a final conference, among others the developed guidelines for the European qualification system. Moreover, insights, best practices and outcomes form the piloting events of the professional profiles were shown to the participants of the Final Conference. The developed system of recognition of prior learning was also introduced and described.

The CLLAIM Final Conference was a public event that was conducted online via the software Microsoft Teams due to the pandemic caused by the coronavirus. International stakeholders, policy makers, national qualification authorities, VET providers, trainers, experts, trainees, young people, industries and manufacturers related to AM were invited by the consortium to attend this one-day-event on the 5th November 2020. Presentations to show the CLLAIM achievements and outcomes were prepared by the partners, the moderation of the conference was undertaken by David Hardarce from Lloyd' s Register. The evidences for the conduction of the CLLAIM Final Conference are shown in this report.

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1. Agenda and Invitation

In preparation for the final conference, a date was set together with the partners and the agenda was developed. The partners agreed on the 5th November 2020 to held the CLLAIM final conference in Hanover, Germany at LZH Laser Akademie at an early stage of the project. In order to avoid difficulties resulting from the outbreak of COVID-19, the consortium of CLLAIM wrote a formal amendment letter to the project officer to ask to carry out the final conference online. The request was granted. A draft for the agenda of the final conference was prepared by LZH Laser Akademie and edited together with the partners. The agenda is shown in Figure 1 and in Annex 1.

Figure 1: Agenda of the Final Conference of CLLAIM

For reaching a broad range of participants, belonging to the target group, there were several ways of disseminating the invitation to and the information on the CLLAIM Final Conference. First of all, a LinkedIn Group (social media) for the CLLAIM Final Conference was founded (see Figure 2 and Figure 3). This group offered information about the date, the time, the objective, the agenda, the possibility for registration to the final conference and the online link to attend the final conference.
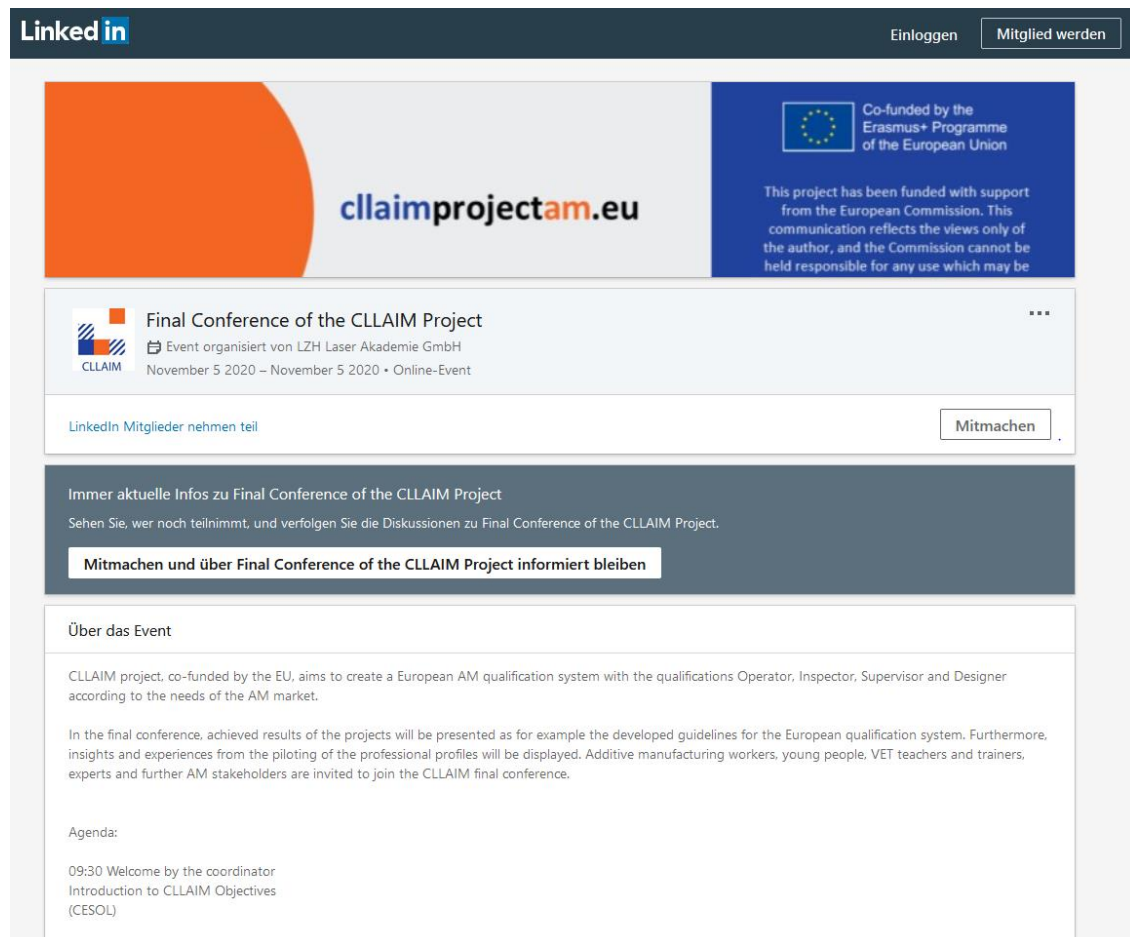

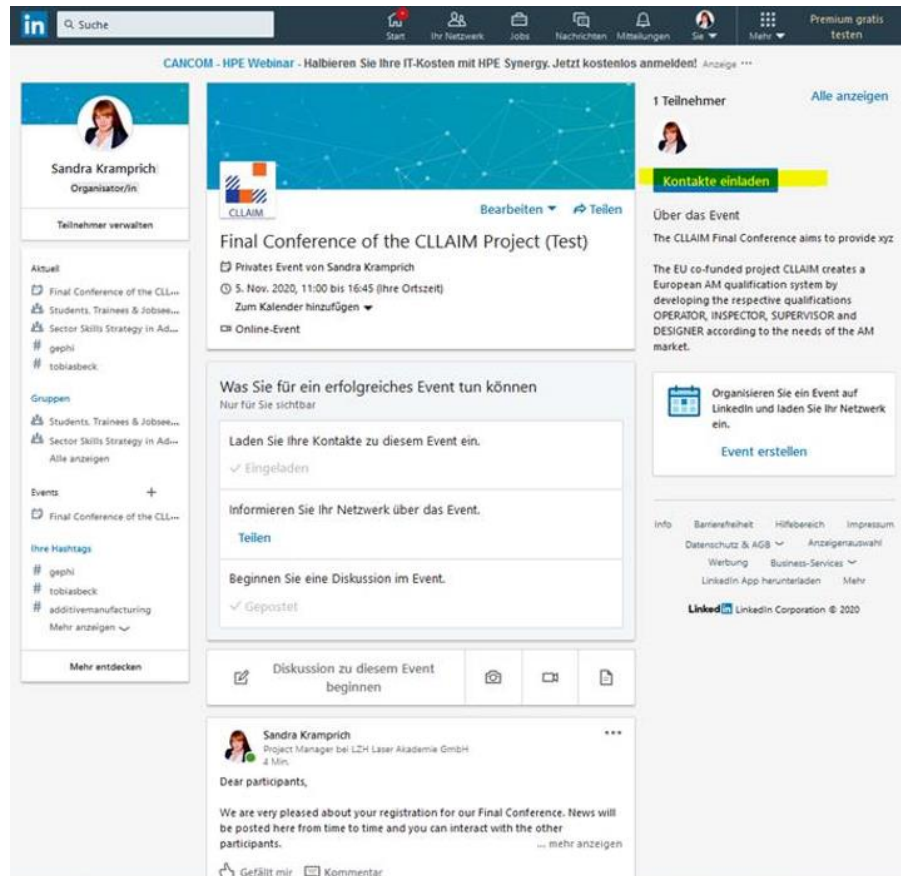**Figure 2: Screenshot of the LinkedIn Group for the Final Conference of the CLLAIM project**

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Figure 3: Screenshot of the promotion of the Final Conference of the CLLAIM project at LinkedIn

In the second place, a news article was published on the website of the CLLAIM project (see Figure 4). This online article informed about the final conference taking place and the objectives. The agenda, the LinkedIn Group and a document for registration without LinkedIn were also linked in the article. As a third step, an exemplary invitation text (see Figure 5) was offered to the partners, who could use, modify or translate the text for inviting contacts via email.

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Figure 4: Screenshot of News Article to annouce the CLLAIM Final Conference

Dear Sir or Madam,

hereby we would like to invite you to the final conference of the CLLAIM project. The conference will be held online on the 5th November 2020 from 9:30 to 16 CET and is free of charge. Please find the agenda here.

Please register briefly via LinkedIn. If you don't have access to LinkedIn, please use the registration document attached. The link to the online event will be circulated at least one week before the conference.

CLLAIM project, co-funded by the EU, aims to create a European AM qualification system with the qualifications Operator, Inspector, Supervisor and Designer according to the needs of the AM market. Please find more information on our project website: http://cllaimprojectam.eu/

In the final conference, achieved results of the projects will be presented as for example the developed guidelines for the European qualification system. Furthermore, insights and experiences from the piloting of the professional profiles will be displayed. Additive

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manufacturing workers, young people, VET teachers and trainers, experts and further AM stakeholders are invited to join the CLLAIM final conference.

We look forward to see you in November!

Kind regards,

Figure 5: Generic text for an invitation to the final conference

All partners started inviting their contacts face to face or by email (see Figure 6). They informed about the ways for registration or linked the news article in their emails. Furthermore, it was possible to invite partners LinkedIn contacts directly via LinkedIn (social media) to join the "Final Conference of the CLLAIM Project" LinkedIn group. If an invited contact joins the group this is shown to his / her contacts as well, so that in this way many contacts were reached beyond the consortium partners.

Yvonne Wessarges

An:	[w
Betreff:	Einladung zur CLLAIM Final Conference
Anlagen:	CLLAIM D8.3_Final Conference_Agenda_v6.pdf; RegistrationCLLAIMFinalConference_DataProtectionDeclaration_.docx

Sehr geehrte Damen und Herren,

vielen Dank für Ihre Teilnahme an den Pilotveranstaltungen der LZH Laser Akademie im Rahmen des EU-Projektes CLLAIM.

Wir möchten Sie herzlich zu unserer Abschlusskonferenz am 5.11.2020 (9:30 – 16 Uhr) einladen. Die Abschlusskonferenz wird online stattfinden. Die Anmeldung ist über das beigefügte Formular oder über die Plattform LinkedIn möglich. Weitere Informationen finden Sie auf der CLLAIM-Homepage.

Bei Fragen können Sie sich jederzeit gern an mich wenden.

Mit freundlichen Grüßen
Yvonne Wessarges

LZH Laser Akademie GmbH
\
Garbsener Landstraße 10
30419 Hannover

Fon:
Fax:
mail:
URL: www.lzh-laser-akademie.de
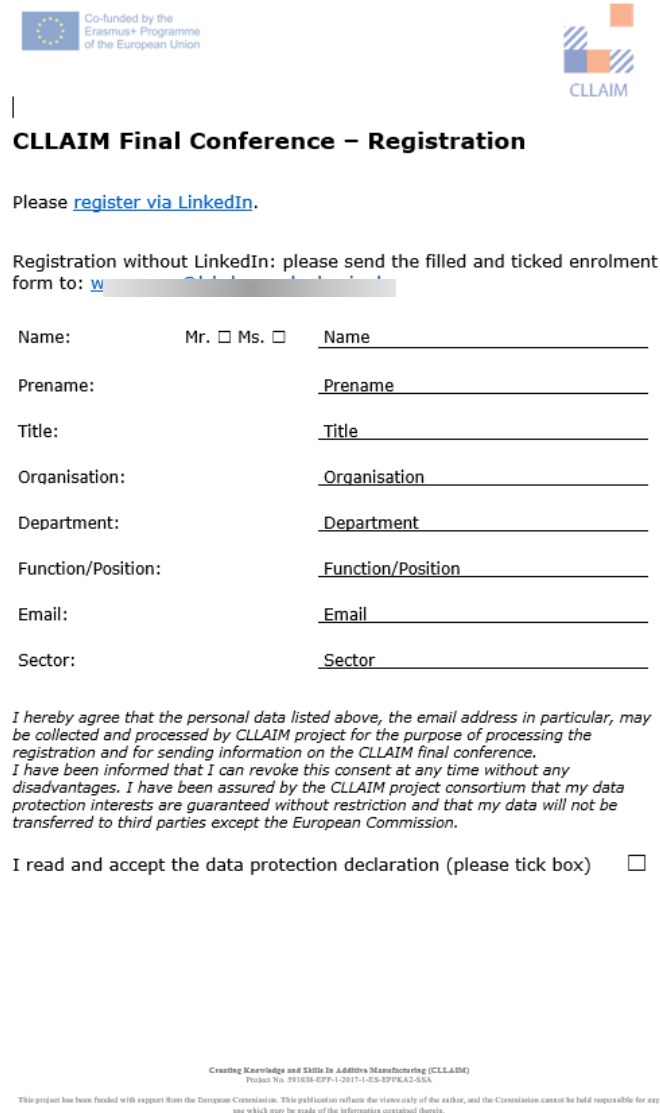
Geschäftsführung:
Prof. Dr
Amtsgericht Hannover
Handelsregister B 61392
USt-IdNr.: DE231851661

Die LZH Laser Akademie auf Facebook.

Figure 6: German invitation to the final conference of CLLAIM by email

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2. Registration

The registration for the final conference was possible by sending a registration document (available in the news article on the website and sent together with the invitations by email, see Figure 7 and also Annex 2) via email or by joining the CLLAIM Final Conference LinkedIn Group (social media, see description in chapter 1). The link to the online conference was distributed by email to all participants that registered via the registration document (19 registrations, see Figure 8 and Figure 9 or Annex 3) and posted in the "Final Conference of the CLLAIM Project" LinkedIn Group. 198 participants joined the LinkedIn Group for the Final Conference before it took place on 5th November 2020 (see screenshot in Figure 10 and Annex 3).

Figure 7: Document for registration at CLLAIM Final Conference

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Nr.	Mr./Ms.	Name	Prename	Title	Organisation	Department	Function/Position	Email	Sector	check data protection declaration	date of registration	Link sent	attended
1	Mr.					Additive Technologies	Manager		Energy Technology	yes	29.07.2020	30.10.2020	n
2	Mr.					Additive Technologies	Additive Manufacturing Materials Scientist		Energy Technology	yes	29.07.2020	cancelled	n
3	Ms.					ANB	Chief Executive		ANB	yes	12.08.2020	30.10.2020	y
4	Mr.					R&D			welding	yes	26.08.2020	30.10.2020	n
5	Mr.					Engineering & Technology	Technical Standards Leader		Machine Manufacturer	yes	26.08.2020	30.10.2020	n
6	Mr.					TES	Senior NDT Lecturer		General & Aerospace	yes	12.10.2020	30.10.2020	y
7	Mr.					Metallbau	Teacher (OstR)		VET Metal	yes	13.10.2020	30.10.2020	y
8	Mr.					Additive Fertigung	Gruppenleiter		F&E	yes	15.10.2020	30.10.2020	y
9	Mr.					Technical Department	Technician		Welding	yes	16.10.2020	30.10.2020	y
10	Ms.					Ausbildung	Leitering Ausbildung		Aus- und Weiterbildung	yes	19.10.2020	30.10.2020	y
11	Mr.					Applied Physics & Materials Engineering	Head. Group on Laser Eng.		Higher Education	yes	16.10.2020	30.10.2020	y
12	Mr.					Training and Education	Head of Department		Sector	yes	26.10.2020	30.10.2020	n
13	Ms.					Komponenten und Prozesse	Gruppenleiterin		Entwicklung	yes	30.10.2020	02.11.2020	y
14	Mr.					Komponenten und Prozesse	Abteilungsleiter		Entwicklung	yes	30.10.2020	02.11.2020	y
15	Mr.					Komponenten und Prozesse	Wissenschaftlicher Mitarbeiter		Entwicklung	yes	30.10.2020	02.11.2020	y
16	Mr.					Additive Manufacturing	Head of Additive		Medical	yes	03.11.2020	03.11.2020	y
17	Ms.				-La	Diseño Industrial y Fabricación Digital	Técnico de diseño		industrial	yes	04.11.2020	04.11.2020	y
18	Mr.					Product Management	Head of product management		Additive Manufacturing	yes	04.11.2020	04.11.2020	y
19	Mr.					Industrial Design	department responsible		Industrial	yes	04.11.2020	04.11.2020	y

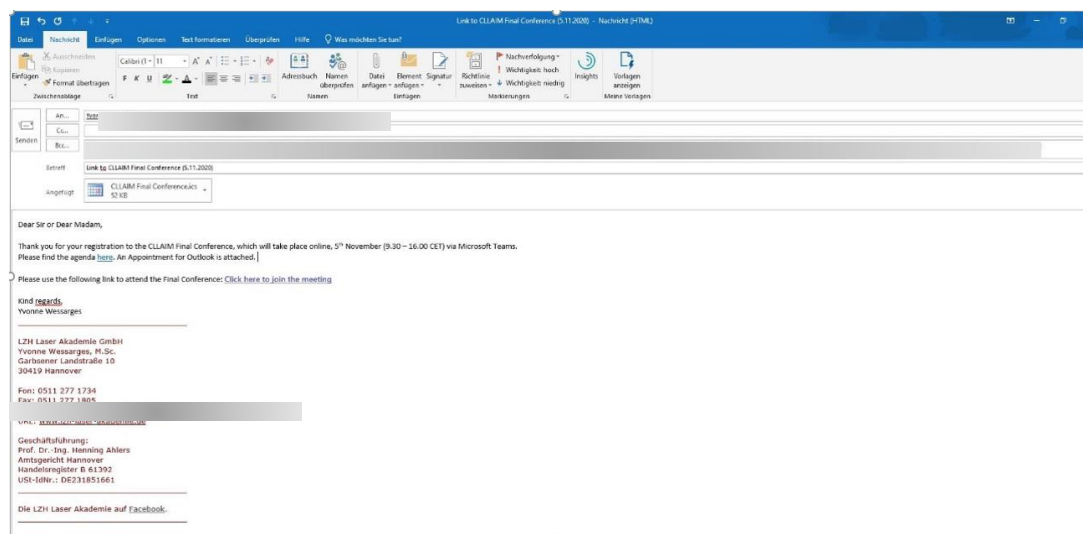**Figure 8: Registrations for CLLAIM Final Conference via Registration Document**

Figure 9: Sending Link to participants that registered with registration document via email
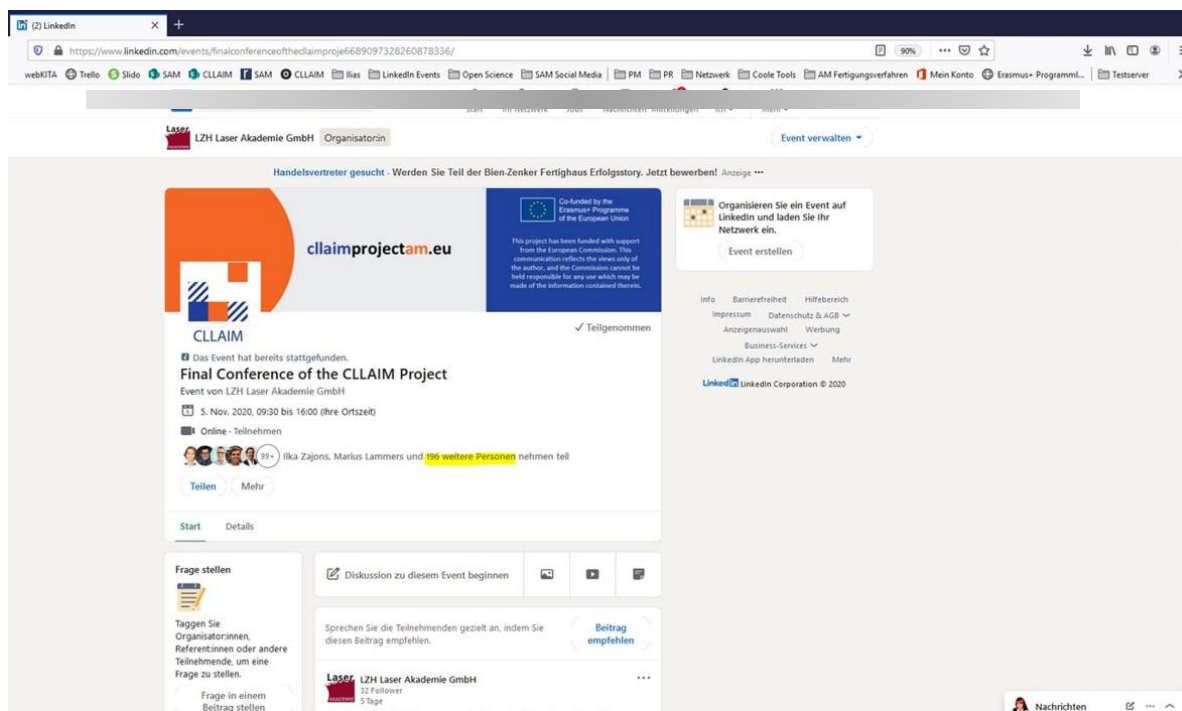

Figure 10: Screenshot of LinkedIn Group

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3. Presentations

According to the agenda, the partners prepared various contributions to present the results to the participants of the final conference. Furthermore, slides were prepared by every partner to introduce the companies and partners of the CLLAIM consortium in the beginning of the final conference. The company presentations and the presentations of results can be found on the sharepoint. Subsequent to the final conference, the presentations will be supplied to the public by upload to the CLLAIM homepage.

In the beginning of Final Conference the, the general CLLAIM objectives and general outcomes were shown. Next, every partner company introduces itself to the participants. After that, the developed guidelines and the method of recognition of prior learning to achieve a qualification based on knowledge acquired outside of courses according to the guidelines. The next sessions showed insights in working with the developed professional profiles Operator, Designer, Supervisor and Inspector. The last talk was on future possibilities how the participants can engage and contribute to maintain the outcomes achieved during CLLAIM project. The participants became acquainted with the observatory of SAM project and the Mainstreaming Committees of CLLAIM project. The participants were invited to write their questions and point for discussion into the chat. The moderator forwarded them to the speaker after every presentation. Finally, the participants were asked for filling the questionnaire for the evaluation of the final conference and the session was closed. The presentations were shown in Annex 4.

4. List of attendees

As the final conference was conducted online, it was not possible to have a signed attendance list. Instead screenshots were taken and the list of logged-in participants was downloaded in the Microsoft Teams application. More than 200 participants registered by registration document or the LinkedIn Group. Annex 5 shows the joining of participants to the online Final Conference with timestamps. In total, 58 participants attended the online Final Conference of the CLLAIM project (see list of attendees in Figure 11).

The deviation between the number of registered participants (over 200) and those present may be explained by the fact that the event took place online and was also advertised very early. Some of the registered participants may have had other commitments at short notice or may have had technical difficulties dialling in to the conference. The Teams Application has proven to be very user-friendly in the past and

should continue to be used. It would be conceivable to extend the conference dial-in information for participants to prevent technical difficulties in the future.

It is possible that the participants who registered via the social media platform were not informed by the platform about the posting of the access link and there was no reminder of the conference. The participants who had registered by email had previously received an Outlook appointment with the link to the event. Here, the participation rate of almost 70% was significantly higher than for participants who had registered via LinkedIn.

For further events, the registration via social media, which is very successful in reaching many contacts, should be combined with a concrete collection of email data in order to contact the participants explicitly regarding the participation information.

Figure 11: List of attendees at Online Final Conference of CLLAIM

The number of 58 participants was identified as a possible risk for the dissemination of the outcomes of the CLLAIM project. Therefore, measures were defined to compensate the low number of participants. The CLLAIM project and important results were presented at two additional conferences after the final conference. Please see chapter 7 (Additional conferences for CLLAIM) for further information.

5. Screenshots

As evidence for the conduction of the final conference, screenshots were taken during the event (see below). More screenshots can be seen in annex 6.

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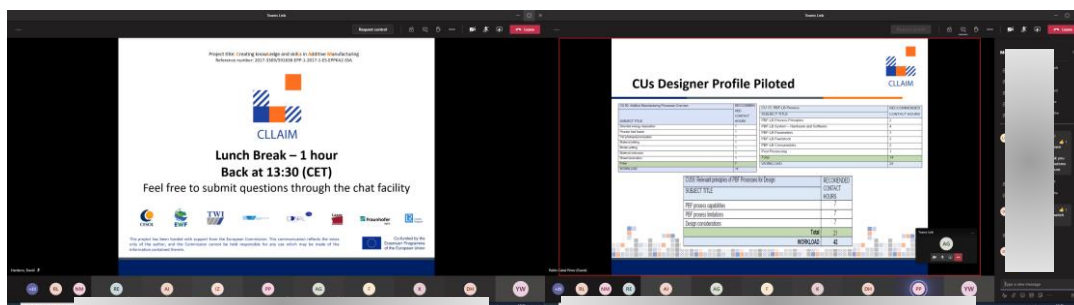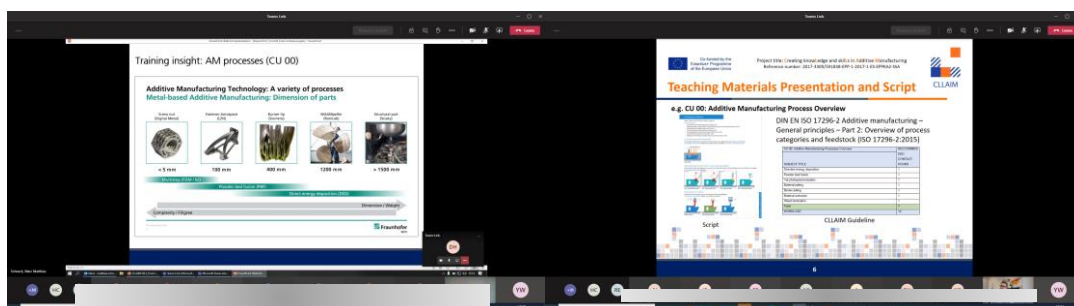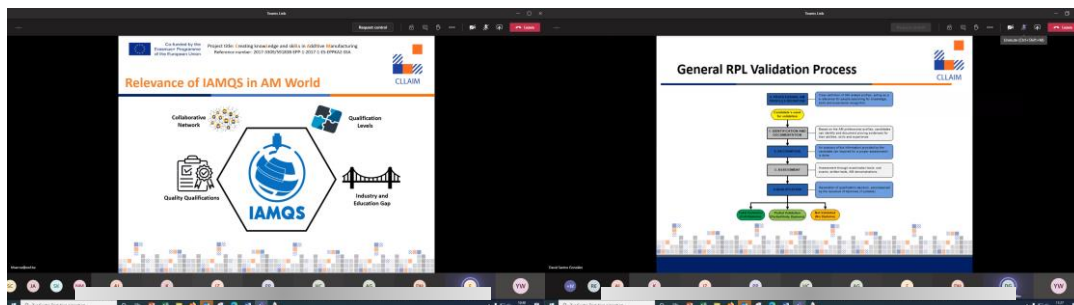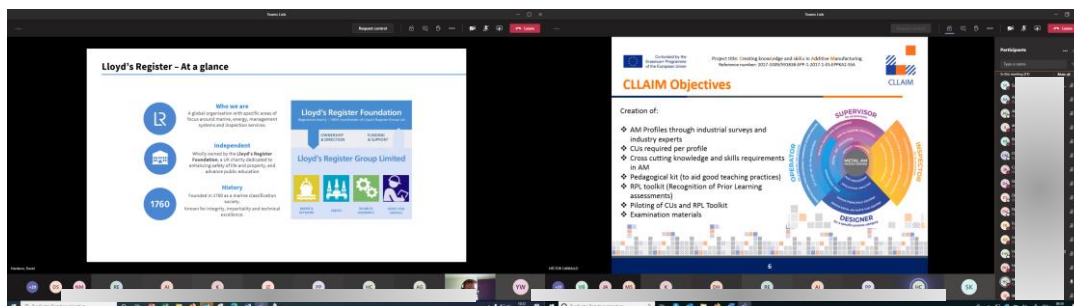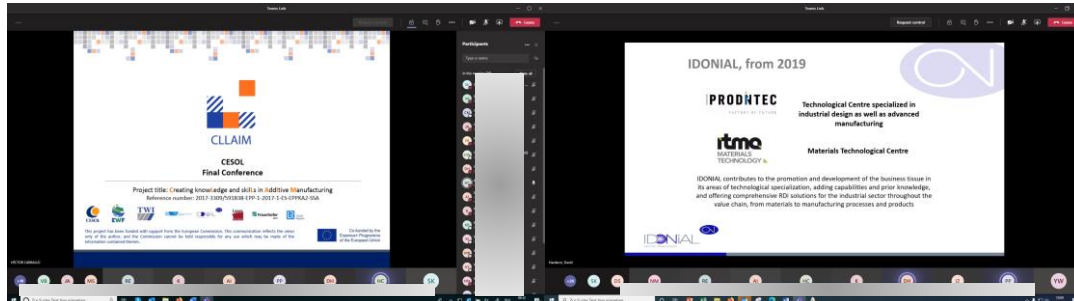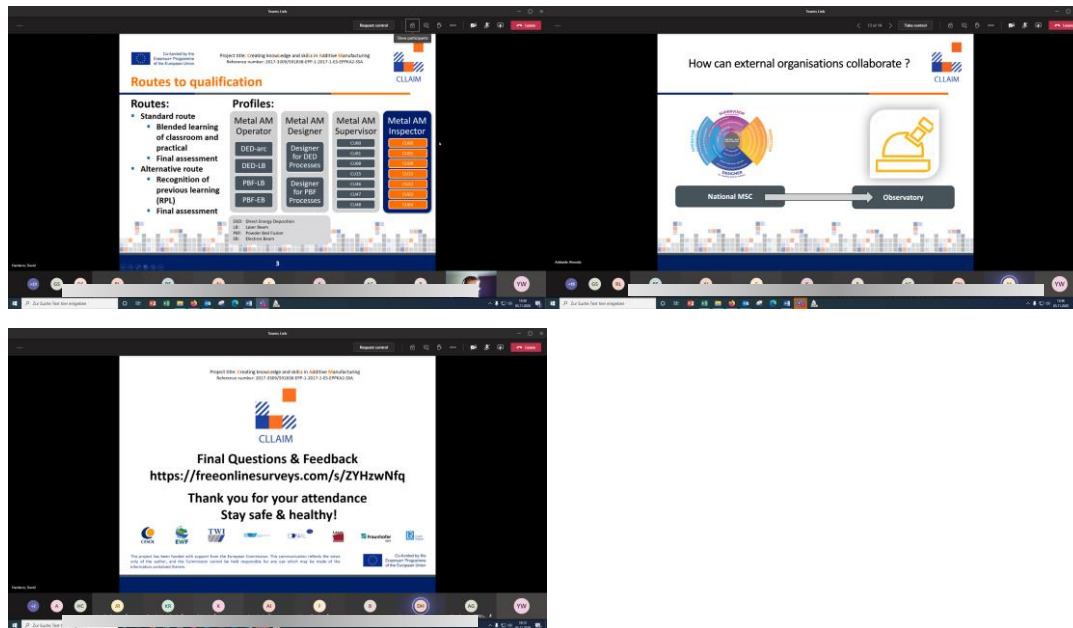
Figure 12: Screenshots taken during Online Final Conference of CLLAIM

6. Evaluation

The evaluation questionnaire was prepared by Fraunhofer IGCV. The questions were integrated to a survey at "Freeonlinesurvey" by LZH Laser Akademie to offer the possibility to the participants to conduct the feedback survey online. The moderator asked the participants during the conference to give a feedback at the end of the day and also reminded the participants of the survey at the end. The link to the survey ("https://freeonlinesurveys.com/s/ZYHzwNfq") was posted in the chat of the conference. All participants who had registered by email received an additional email after the conference with a friendly request to give a short feedback on the event. A total of 23 online surveys were completed by the third day after the conference, but one survey was sent blank. The detailed results of the evaluation can be seen in Annex 7.

The participants were asked to which group they belong: 12 answers for "AM Training Provider", 4 "AM User", 2 "AM Stakeholder", 1 "Potential AM User/Worker" and 3 "Other" that specified ANB AM, AM R+D and European Organisation. From the attendees who did the final conference evaluation, 9 participated from Germany, 2 from UK, 3 from Portugal and 6 from Spain. The majority rated the importance of a European education standard for additive manufacturing for themselves as "very important", the technical quality of the event as "very good" and the progress / outcomes of the project CLLAIM also as "very good" (comment given: "Good overview of the actual activities and what we can expect in the near future regarding education standards"). Six answers were given

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when asked about suggestions for improvement or notes for the team (see Annex 7). Various comments were made, among others on the duration of the conference and a supplement to the implementation. There was a lot of positive feedback on the organization and moderation of the event.

7. Additional conferences for CLLAIM final conference

To compensate the low number of participants at the CLLAIM final conference, the project outcomes were presented at two additional events as a corrective measure. The CLLAIM final conference had 58 participants. To reach a number of participants of 100, 42 participants to inform about CLLAIM outcomes are missing. The Next Generation of European Training For Manufacturing workshop had 45 participants in the Teams group, up to 34 attendees listened to the different sessions of the workshop. The evidences are shown below. The AM platform meeting had 105 attendees, up to 21 attendees participated in the CLLAIM Session 2 of the AM platform assembly. All in all, the KPI of 100 participants is met by the participants of the additional events (58+34+21 = 113).

Workshop The Next Generation of European Training For Manufacturing

The project CLLAIM was presented at a workshop for ATBs and ANBs, called "The Next Generation of European Training For Manufacturing" to enlarge IAMQS network of ATBs and ANBs. The workshop took place online on the 18th November 2020, 10-13:30 CET. The agenda can be seen below. The focus was on training associations that could join the IAMQS either as ANBs or ATBs. 45 participants joined the Teams group for this event, up to 34 participants joined the single sessions (see screenshots below). The presentations of the workshop are attached to the Annex section.

The Next Generation of European Training For Manufacturing

Session	Timing (CET)	Presentation	Presenter			Duration
Intro	10h00 – 10h05	Welcome	RB			5 min
1 SN	10h05 – 10h15	Weldone	SN			10 min
	10h15 – 10h35	WBL + RPL	AA			20 min
	10h35 – 10h45	Mod. System	SN			10 min
2 SN	10h45 – 11h05	Digiweld	SN			20 min
	11h05 – 11h15	Tools	FB			10 min
	11h15 – 11h30	*BREAK*	*BREAK*			*15 min*
3 AL	11h30 – 11h45	IAMQS/CLLAIM	AL			15 min
	11h45 – 12h00	Qualification + CUs	FB			15 min
4 RB	12h00 – 12h08	EU Funding works	RB			8 min
	12h08 – 12h12	AMable	RB			4 min
	12h12 – 12h16	LightMe	PC			4 min
	12h16 – 12h20	ModuLase	DB			4 min
	12h20 – 12h35	Hor. Europe	RB			15 min
	12h35 – 12h45	Skills Agenda	AA			10 min
	12h45 – 12h48	*SHORT BREAK*	*SHORT BREAK (for connection to the rooms)*			*3 min*
	12h48 – 13h00	Matchmaking	R1 AA + PC + SN (sala de Reuniões)	R2 RB + AL (sala AM)	R3 FA + FB + DB (sala direção)	12 min
Closing	13h00 – 13h03	Closing	RB			3 min

Figure 13: Agenda of Next Generation workshop

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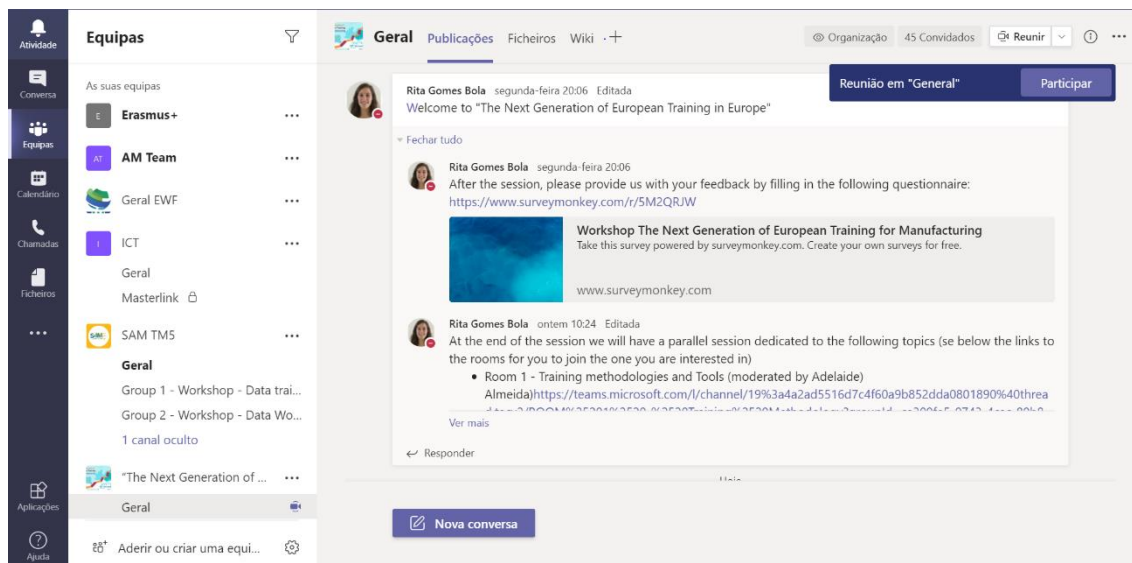
Figure 14: Screenshot of Teams group for Next Generation workshop

Figure 15: Screenshot of Next Generation workshop 1

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Figure 16: Screenshot of Next Generation workshop 2
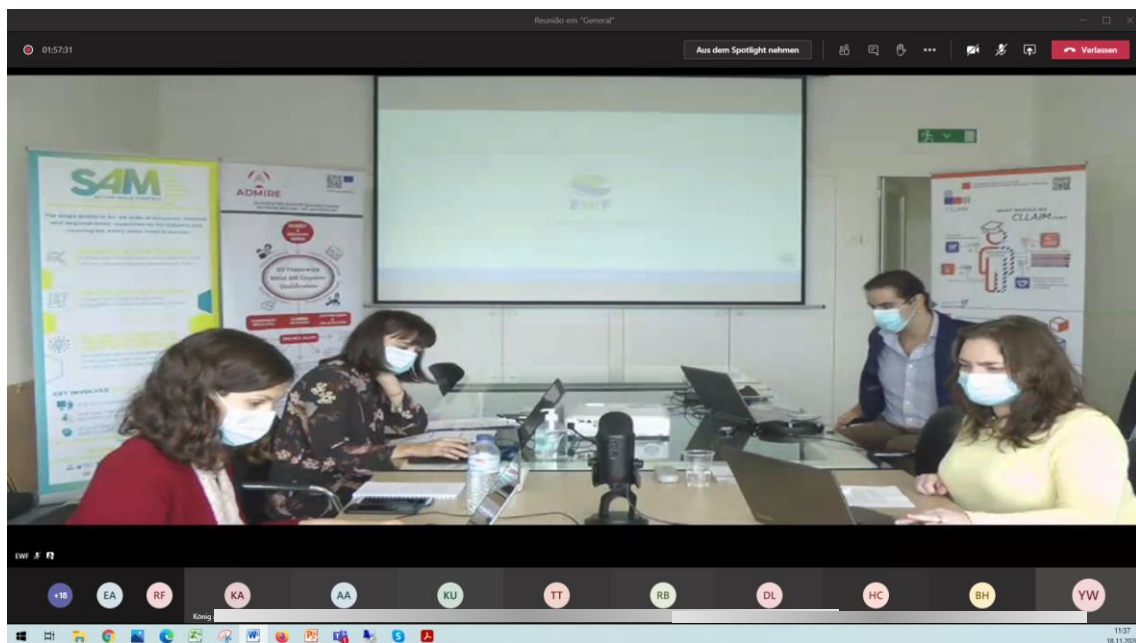
Figure 17: Screenshot of Next Generation workshop 3

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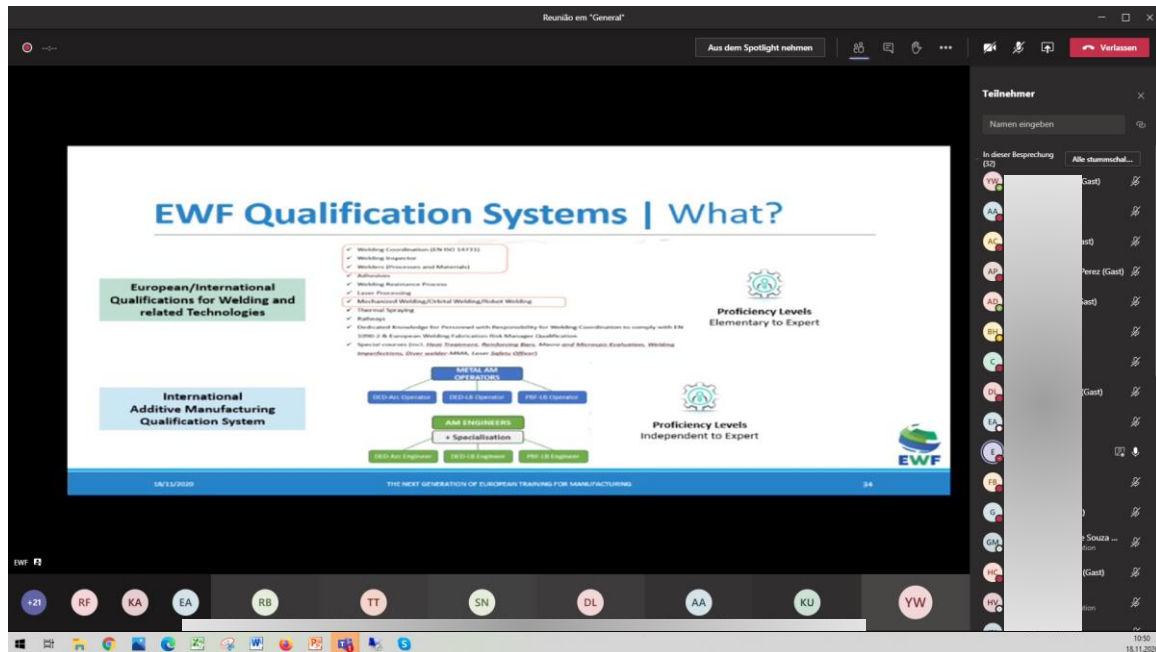
Figure 18: Screenshot of Next Generation workshop 4
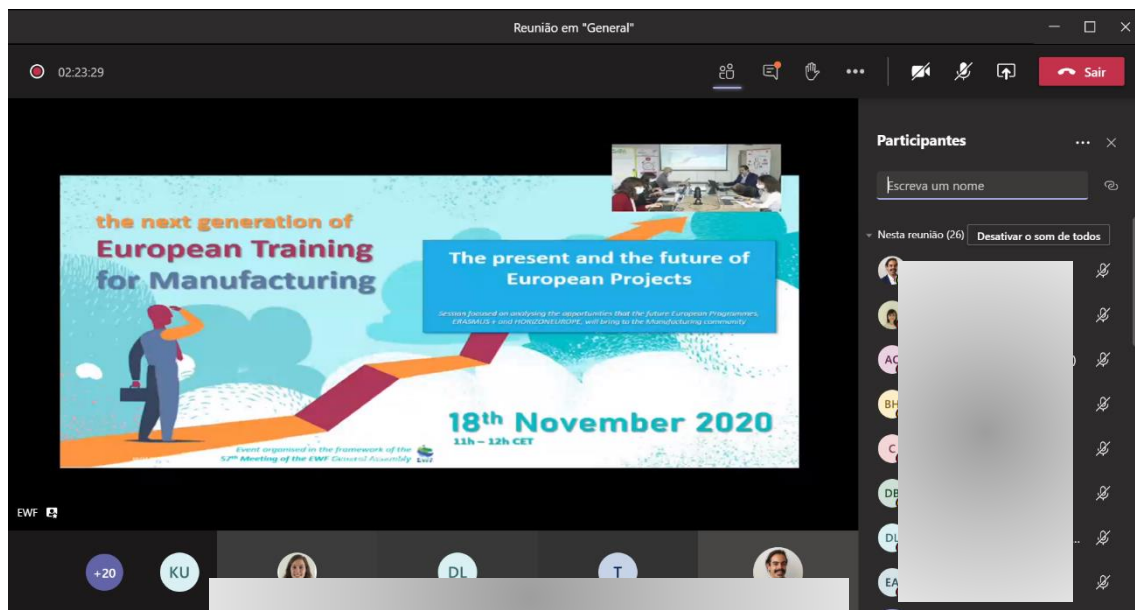
Figure 19: Screenshot of Next Generation workshop 5
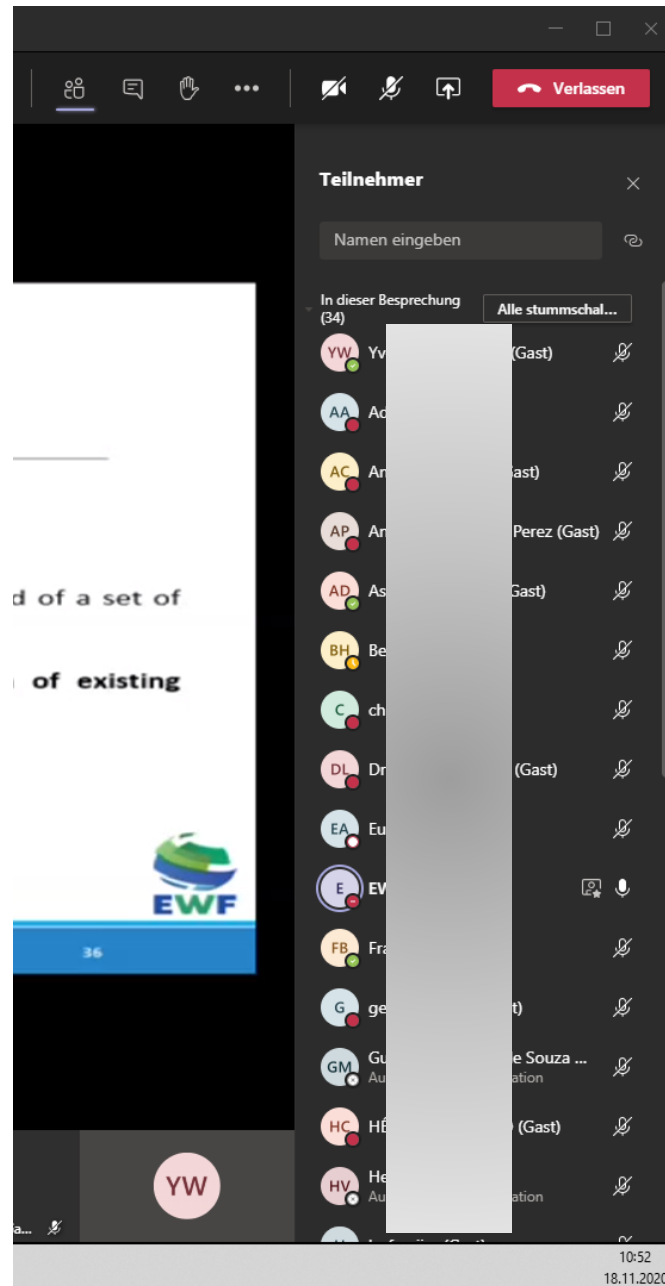
Figure 20: Screenshot of Next Generation workshop 6

AM Platform General Assembly

The project CLLAIM was also presented at the AM Platform General Assembly that was conducted online, the 10th December 2020, 14 – 16:15 CET. The Agenda is shown in Figure 21. The objectives of the AM platform meeting were enabling the networking of attendees and to give an update of the status of the AM market. The target group encompasses the whole AM ecosystem, from EU and national policy makers (EU commission included) to industrial and educational representatives.

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21st AM-Platform meeting

Date and time: December 10th 14.00-16:15H

Venue: webmeeting TEAMs

Draft Agenda

	Welcome and opening	
14.00-14:00h	Welcome and AM-Platform update	M ... air)
	Breakout sessions on AM key topics	
14.15	- AM National and Regional initiatives and activities - AM Qualifications and work force development - AM implementation and Industrialization - New Materials and improved Processes development in AM	
15.00	**Cascade funding opportunities**	
15.00-15.10	METABUILDING project: AM and construction	C
15.10-15.20	Change2twin & PULSATE funding opportunities	To
15.20	**News on Horizon Europe**	
15.20-15.40	Update on the Made In Europe Partnership	Ž
15.40-16.10	Horizon Europe what to expect?	Ju ... sion
	Conclusions – wrap up	
16.15	end of the meeting,	

Figure 21: Agenda of AM platform meeting

According to their interest, the participants could join different break-out sessions after the welcome (Agendas of break-out sessions shown in Figure 22, Figure 23, Figure 24, Figure 25). The CLLAIM project was presented in session 2 on the educational side, within the International AM qualification system. In this session, the IAMQS was presented first, secondly, the CLLAIM Qualifications were shown and, in the end, ADMIRE qualifications which are connected to CLLAIM as being part of the IAMQS). The presentations of Session 2 are attached to the Annex session.

5 min to shift:

Breakout sessions on AM key topics

- AM National and Regional initiatives and activities

CHAIR: Frits Feenstra, AM-Platform coordinator

LINK:

14.15-14.25	Addimalliance: French initiative	
14.25-14.35	Technology Platform Additive Manufacturing Austria	
14.35-14.45	CEFAM. Strategic Program for Training Excellence in Additive Manufacturing of Metallic materials	
14.45-14.55	National project Innovative Alloying Concepts for Additive Manufacturing	

Figure 22: Agenda of AM platform meeting break-out sessions – session 1

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Creating know**L**edge and skil**L**s in **A**dd**I**tive **M**anufacturing
Reference number: 2017-3309/591838-EPP-1-2017-1-ES-EPPKA2-SSA
Preparation date: March 03, 2020   Revision: 2

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- AM Qualifications and work force development
CHAIR: Eurico Assuncao, AM Platform Skills WG coordinador

LINK:

14.15-14.25	International AM qualification system	
14.25-14.40	"AM Qualifications and work force development"	
14.40-14.55	UK AM Curricula and programmes	

Figure 23: Agenda of AM platform meeting break-out sessions – session 2

- AM implementation and Industrialization
CHAIR: Paula Queipo, AM-Platform Deputy coordinator

LINK:

14.15-14.30	INTEGRADDE: Pilot lines for AM of metal components with DED processes	
14.30-14.45	ALFREC3D project : Development of innovative components for lightening high frequency devices	
14.45-15.00	AMABLE	

Figure 24: Agenda of AM platform meeting break-out sessions – session 3

- New Materials and improved Processes development in AM
CHAIR: Martin Schaefer, AM-Platform Chair

LINK:

14.15-14.30	the manufacturing of large Scalmalloy parts for space applications with Direct Metal Deposition	
14.30-14.45	Electro)chemical Surface Treatments as a key step for placing in the market of Additive Manufactured parts	
14.45-15.00	Lightme project	

Figure 25: Agenda of AM platform meeting break-out sessions – session 4

105 persons attended the AM Platform General Assembly. Insights into the slights can be found below. Screenshots are presented as evidence for the conduction of the meeting (Figure 26 and Figure 27). During the break-out sessions, the attendees could visit different sessions of parallel presentations. The CLLAIM project was presented in session 2 and was visited by 14 – 21 attendees (see Figure 28, Figure 29, Figure 30).

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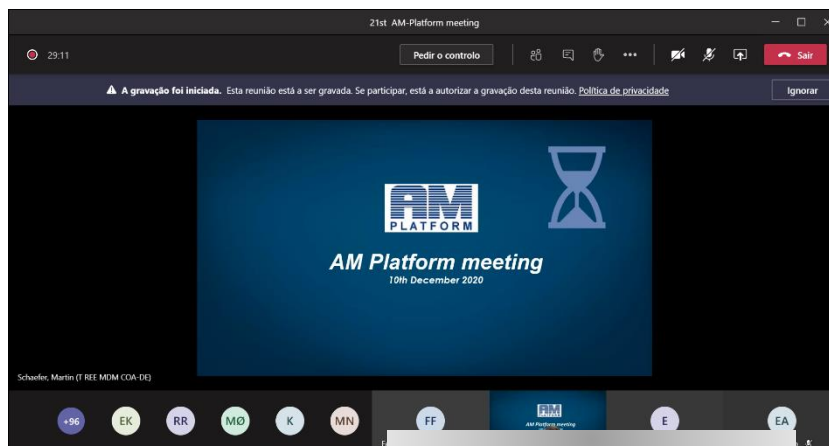
Figure 26: Screenshot of AM platform meeting 1
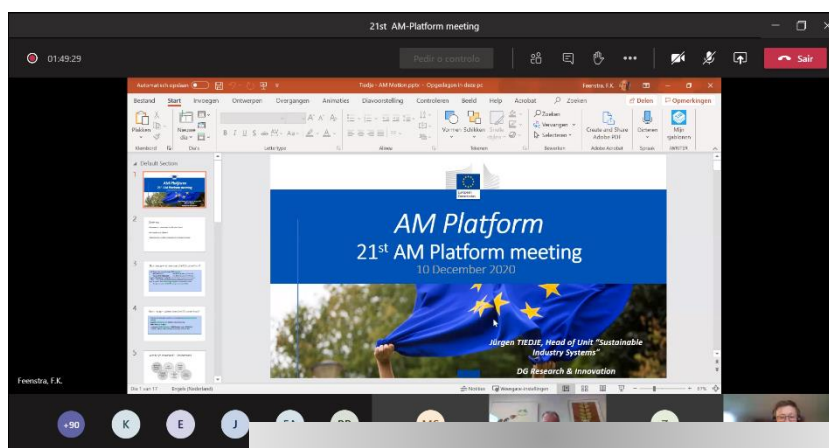
Figure 27: Screenshot of AM platform meeting 2

Figure 28: Screenshot of AM platform meeting – session 2 – 1

Creating know**L**edge and ski**L**ls in **Add**itive **M**anufacturing
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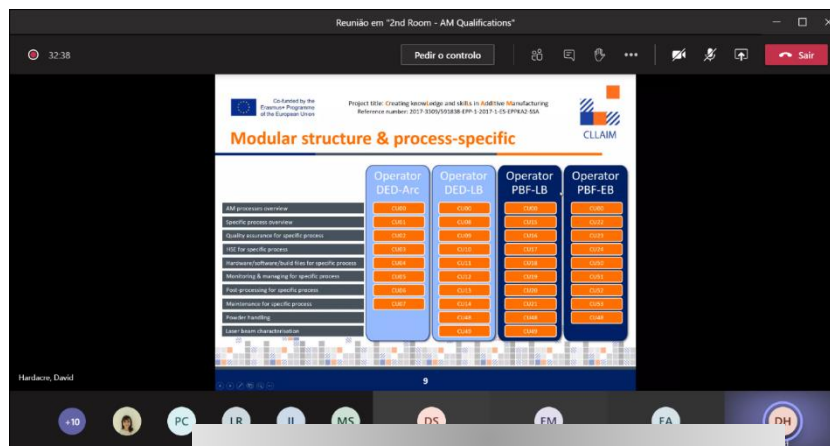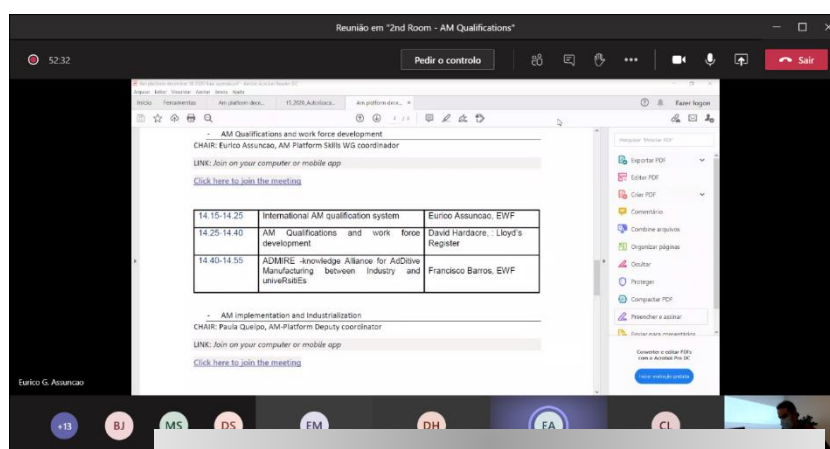
Figure 29: Screenshot of AM platform meeting – session 2 – 2

Figure 30: Screenshot of AM platform meeting – session 2 – 3

8. Annexes

Annex 1: Agenda of CLLAIM Final Conference

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CLLAIM

Final Conference of the project:
Creating knowledge and skills in Additive Manufacturing (CLLAIM)
Date: 5 November 2020, Online Event
09:30 – 16:00 (CET time)

Agenda

Time	Session
09:30 – 10:00	**Welcome by the coordinator** **Introduction to CLLAIM Objectives** (Hector Carballo, CESOL)
10:00 – 10:30	**Introduction of project consortium** (Hector Carballo, CESOL and project partners)
10:30 – 11:00	**Presentation of project results:** **- Guidelines** **CLLAIM Guidelines for professional profiles** (Francisco Sousa Barros, EWF)
11:00 – 11:20	*Coffee break*
11:20-11:50	**- RPL scheme** **CLLAIM Schemes to recognize prior learning** (David Santos, Idonial)
11:50-12:20	**- Piloting professional profiles: Operator** **Insights of experts or participants into operator pilots** (Matthias Schneck (Fraunhofer), Marvin Keinert + Sebastian Matthes (DVS))
12:20 – 13:20	*Lunch break and possible networking of participants*
13:20-13:50	**- Piloting professional profiles: Designer** **Insights of experts or participants into designer pilots** (Pablo Cabal, Idonial)
13:50-14:20	**- Piloting professional profiles: Supervisor** **Insights of experts or participants into supervisor pilots** (Yvonne Wessarges, LZH Laser Akademie)
14:20 – 14:40	*Coffee break*
14:40-15:10	**- Piloting professional profiles: Inspector** **Insights of experts or participants into inspector pilots** (David Hardacre (LLOYD'S REGISTER) & Stephen Wisniewski (TWI))
15:10-16:00	**Feedback and discussion** **Beyond the horizon: How will the project results be further exploited?** **Where can they be used?** (David Hardacre (LLOYD'S REGISTER) & Adelaide Almeida (EWF))
16:00	**Farewell** (Hector Carballo (CESOL) & David Hardacre (LLOYD'S REGISTER))

Creating Knowledge and Skills in Additive Manufacturing (CLLAIM)
Project No. 591838-EPP-1-2017-1-ES-EPPKA2-SSA

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Annex 2: Presentations shown at Final Conference

PDF	PDF	PDF	PDF	PDF
Annex04_1_CLLAIM_ Project_Objectives_C	Annex04_2_CLLAIM_ Final Conference_E	Annex04_3_RPL presentation Idonia	Annex04_4a_CLLAI M_Final Conference	Annex04_4b_CLLAI M D8.3 2020.11.05 D

PDF	PDF	PDF	PDF	PDF
Annex04_5_CLLAIM_ Final Conference_ID	Annex04_6_CLLAIM_ FinalConference_LA	Annex04_7a. Inspector Profile_LR.	Annex04_7b. Inspector Profile_TW	Annex04_8_CLLAIM_ SAM-EWF.pdf

These annexes corresponding to the presentations are available on the CLLAIM project website at the following link:

https://cllaimprojectam.eu/results.html

Annex 3: Presentations of Next Generation of European Training For Manufacturing Workshop

PDF	PDF	PDF	PDF	PDF
0 - Session 0 Presentation - Intro	1 - Session 1 Presentation.pdf	2 - Session 2 Presentation.pdf	3 - Session 3 Presentation.pdf	4 - Session 4 Presentation.pdf

These annexes corresponding to the presentations are available on the CLLAIM project website at the following link:

https://cllaimprojectam.eu/results.html

Annex 4: Presentations of AM Platform General Assembly – Session 2

PDF	PDF	PDF
2020_12_10_AM Platform Meeting_Pr	ADMIRE European Metal AM Eng MSc_	International Additive Manufactur

These annexes corresponding to the presentations are available on the CLLAIM project website at the following link:

https://cllaimprojectam.eu/results.html