

EDU-VET

EDU-VET-Meeting 2: Research and Development Conference Meeting Minutes 17th to 19th of November 2020

Project Title:	E-Learning, Digitisation and Units for Learning at VET schools – Creating online Learning Environments in Technical Education for European metal industry
Acronym:	EDU-VET
Reference number:	2019-1-DE02-KA202-006068
Project partners:	P1 University Paderborn (UPB), DE P2 Ingenious Knowledge GmbH (IK), DE P3 Berufskolleg Bocholt-West (BKBW), DE P4 Lancaster and Morecambe College (LMC), UK P5 Centro Integrado de Formación Profesional Someso (CIFP), ES P6 Stichting BE Oost-Gelderland (SBEOG), NL
Host:	<i>University Paderborn, Chair Business and Human Resource Education II</i>
Venue:	<i>Online via Zoom</i>



These minutes include the main statements from the EDU-VET Research and Development Conference. This Project Meeting was held online via Zoom. We had a great time with productive discussions and excellent results. These results are fixed in these minutes.

Topic 1: A warm welcome to the EDU-VET partners

Marc opens the meeting with a warm welcome and presents the agenda of this meeting:

- Current Status of EDU-VET in general
- Current Status of EDU-VET in the countries
- IO1: Current Status and Presentation of Research Results
- IO2: Curriculum and EDU-VET Moodle platform
- IO3: Development of Tasks for EDU-VET courses
- IO5: Online Observatory
- IO4: First Insights into EDU-VET Handbook
- Administration and financial information
- What's laying ahead of us?
- Dissemination and exploitation
- Meeting Evaluation

Topic 2: Current Status of EDU-VET in general

Following Marc presents the current status of EDU-VET in general. Firstly, he announces the extension of the project duration. With the confirmation of the NA via the Addendum for the Grant Agreement, the project will run until 31/03/2022.

After that, he points out the current status of the several IOs. With regard to the durations and activities of the IOs the project team is on track.

IO1: Summary Pedagogic Research Report

According to the desktop research all partners have finished this part. The second part of the Summary Research Report addresses the field-based research which is in progress. The next step will be the writing of this report. Moreover, UPB has to analyse the results of the survey study and the specific research of IK. Following LMC has to correct the English version of the Report. After the correction all other partners have to translate it into their national language. The last activity is the creation of the flipbook by IK.

IO2: Technical Education Curriculum for metal industry

The project activity regarding IO2 is also on track. UPB has already developed the curricular framework that includes the Learning Outcome Matrices, Modules for the VET training measures and the overview of the interactive tasks. All partners already completed the LOMs and UPB has matched them. The

next step is to match the Curriculum with existing syllabi in partner countries and write a report on this (max. 5 pages; orientation on Curricular Framework and completed LOMs). Furthermore the development of the Curriculum is in progress. Besides, Marc also explains the module structure of the EDU-VET Curriculum:



IO3: Online Courses for Technical education in metal industry

Concerning IO3, the creation of interactive learning units will be focused and is in progress. Here, all partners develop content for online and classroom tasks. Tasks for online scenarios can be interactive tasks via H5P or Moodle or the creation of videos, audios or quizzes. So, IK is responsible for the design of the tasks. This will start at beginning of next year. Finally, all VET school have to create an introduction video within IO3. The creation of these videos is planned for spring 2021.

IO4: Handbook and Guidelines for teachers

IO4 will start in December 2020. Therefore, no project activities are carried out so far. The Project Work Plan provides more details concerning next steps and activities for IO4. In summary, the leading organization SBEOG and UPB will provide all partners with further information in the next weeks.

IO5: Showcases of best practice in eLearning at VET Schools

This IO5 is also on track. Marc shows that the creation of the criteria setting for the Online Observatory is already done. All partners are in the searching process to acquire best-practices. The next step is the implementation of the Online Observatory by IK.

IO6: Policy Paper

The last IO6 will start in January 2021. Therefore, no project activities are carried out so far. Marc explains that all partners will be informed about detailed project activities in the next weeks.



In addition to the current status of the IOs, Marc focus on the timeline for the IOs and the transnational meetings. Due to the Corona Crisis all meetings will be conducted online at the moment. Besides, there will also be an adjustment of the timeline due to the extension of the project. The update will be done by Marc and Jana latest until end of this year 2020. Then, the modified timelines and deadlines will be provided to the partners.

Topic 2: Current Status of EDU-VET in the countries

Regarding topic 2 all partner presents the current status of EDU-VET project activities in the countries. In summary, all partners are very well on track. Due to the Corona crisis, the partners have to conduct all on-site meetings online. For more information concerning the current status of the partner activities, please have a closer look into the partner presentations which are uploaded in our NexCloud folder or on our EDU-VET website.

Topic 3: IO1: Current Status and Presentation of Research Results

Topic 3 addresses the current status of IO1. Moreover Jana presents it and also gives a short insight into the research results.

As already mentioned above, the project activities concerning the desktop and field-based research are done or are in progress. The final step is to write the Summary Pedagogic Research Report by UPB. Following the correction of the English Version and the translation have to be conducted. Please have a closer look into the work plan for more information concerning the deadlines.

Furthermore, Jana gives a first impression into the results of the research. Firstly she accentuates the structure of the Summary Research Report:

- 1 Executive Summary
- 2 Introduction
- 3 Part A: Results of the literature review in partner countries
 - 3.1 Existing experiences with new media, e-Learning and blended learning
 - 3.2 Key skill areas of a VET curriculum in the metal sector
- 4 Part B: Results of the questionnaires and interviews applied in partner countries
 - 4.1 Key results of the interviews
 - 4.2 Key results of the questionnaires
- 5 Part C: Results of the specific research conducted by IK
- 6 Insights into modules for the EDU VET training measures
- 7 Insights into Learning Outcome Matrices
- 8 Conclusions and Recommendations

Afterwards Jana focusses on the results of part A and B.

Part A: Results of the literature review in partner countries

However, these results are very extensive, so she only shows the summarised results. Firstly the partners should write about their existing experiences with new media, e-Learning and blended learning. In summary, all partners have a basic knowledge regarding new media and



e-learning. In addition, they already have experiences with the blended learning approach, as digital platforms like Moodle have been integrated into learning processes. However, at the institutions blended learning can still be expanded, so that there is not a wide range of experiences available yet.

Concerning the most appropriate technology platforms to be developed as e-learning environments the partners use Moodle, MS Office teams, Online platforms like It's Learning etc.

The second sub chapter of the Desktop Research is about needed key skill areas of a VET curriculum in the metal sector. Concerning key skill areas that need to be addressed in the EDU-VET proposed curriculum in the metal sector all partners agree on the need for digital, personal, professional and social competences. Moreover professional and subject-related skills need to be intensified in the VET metal sector, for example these include basic skills and knowledge in metalworking, construction or machining.

Concerning key skill levels that are appropriate to local target groups it is important to differentiate the tasks according to the three level. Level 1 is the introductory level which addresses knowledge tasks. Level 2 focus on advanced tasks and the third level addresses problem solving tasks. In this context, the research has shown that Moodle seems to be very suitable. Furthermore, a blended learning approach is very suitable for learners in the metal sector. In addition, videos, audios, interactive tasks can be added into the platform.

Regarding the type of assessment framework that would be most appropriate to facilitate the measurement of attainments, so the assessment should be built around an overall aim, learning outcomes, and assessment methods. EDU-VET follows a blended Learning approach. Based on this reason, the partners will integrate case studies, posters, life demonstrations or simulations for the classroom scenario. According to the online scenario the project team can choose interactive H5P or Moodle tasks, quizzes, or videos.

Part B: Results of the questionnaires and interviews applied in partner countries

Chapter 4 addresses the results of the the questionnaires and interviews applied in partner countries. Jana has only evaluated the interviews so far. The analysis of the survey study will follow in the next weeks.

The analysis of the interviews is also very extensive, which is the reason why Jana has summarised the most important aspects on her slide. Nevertheless, it appears that trainers and teachers welcome a blended learning approach and are willing to integrate online teaching into their lessons. In addition, a basic experience with various media formats is available. More details can be read in the Summary Research Report.

Finally, the last chapters are in progress and will be write in the next weeks.

Topic 4: IO2: Curriculum and EDU-VET Moodle platform

Regarding topic 4 Andree explains the contents and structure of the EDU-VET Moodle platform. In this context Andree illustrates this topic directly in the Moodle system. He points out that the EDU VET process model describes a manufacturing process. An event initiates the execution of a process step. The execution of the process steps leads to the events of step is completed and step outcomes are ready. Moreover, the EDU VET curriculum skill level model comprises three different skill levels distinguished by the complexity level to be handled on each skill level. Four sources drive the complexity (work piece properties; manufacturing environment; Production process and process steps; task context and background). Following Andree shows the partners the learning unit model. The EDU VET curriculum learning unit model comprises learning units of different types and variants and shall support several different learning unit application types and variants, too. Therefore, the EDU VET curriculum learning units are classified regarding delivery media and regarding learning activity type, this creates four basic types: [e-L], [e-E], [c-L], and [c-E].

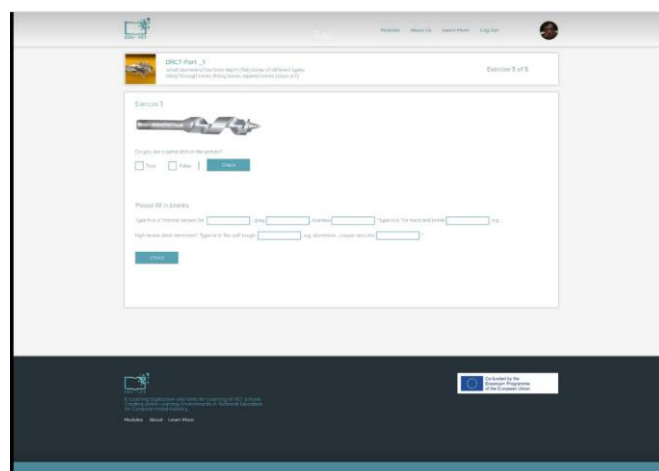
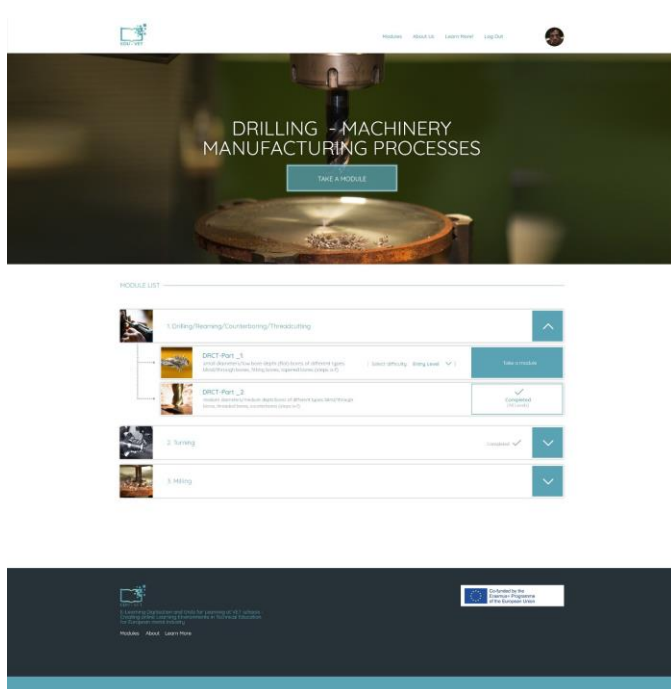
The attribution “e” or “e-lectronic “ marks a learning unit as being delivered digitally. Digital terminals like PCs, notebooks, tablets, smartphones are therefore required to access and use this learning unit. The attribution “c” or “c-onventional“ marks a learning unit as being delivered conventionally. No digital terminals are required to access the learning unit. The learning materials are available in the form of digital print templates and/or paper based copy templates.

The attribution “L” or “Learning“ marks a unit as being dedicated to help the user create a consistent mental model of all the relevant entities and relationships in the subject area called terms and concepts. The attribution “E” or “Exercise“ marks a unit as being dedicated to help the user build comprehensive capabilities in the execution of particular tasks or activities , the build up of a mental model of the relevant methods and tools and experiences in the application of these methods and tools are supported.

Finally he explains how you can integrate H5P and Moodle applications into the Moodle system. For more detailed information, please have a closer look into the Moodle platform.

Topic 5: IO3: Development of Tasks for EDU-VET courses

With regard to IO2 and the implementation of the online platform Rasmus demonstrates the design of the structure and the design of the interactive tasks. Following you can see the design:



Additionally, Andree introduces the simulation software from Keller to show the partners how to create simulation videos. The tool can be used to produce simulations so that learners can also learn practical contents online. The team agrees that Andree will provide all partners with further information after he has talked with the CEO of Keller regarding licensing.

Topic 6: IO5: Online Observatory

José Luis and Jana presents some insights into the Online Observatory regarding IO5. The aim is to give the partners an update regarding the current and further tasks within IO5. As José and Jana already mentioned in the meeting, all partners have to search for best-practices. So, each partner should acquire about 5 to 6 companies. Then the companies should fill in the guideline and answer the questions of the business profile. Following the completed profiles of companies should be translated into English and should be sent back to UPB.

Moreover, José highlights the main issues about the searching process and addresses the deadlines. For more information, please have a closer look into the work plan. At the end, José and Jana shows a German and a Spanish best-practice as examples for the other partners.

Topic 7: IO4: First Insights into EDU-VET Handbook

Afterwards Jana addresses topic 7 which focusses first insights into the EDU-VET handbook. Since the work will start in December 2020, Jana gives a short outlook on the upcoming activities during the meeting. First of all she shows the structure of the handbook:

- 1) Overview on the current situation
- 2) Overview on the EDU VET approach



- 3) The chances and challenges of online courses and blended learning approaches for VET
- 4) Definitions of digitisation and Industry 4.0 within metal industry
- 5) The EDU VET curriculum and the use of new media in metal VET
- 6) Research Results of the EDU VET Research
- 7) Challenges and Chances
- 8) Insights into best practice pedagogical materials and the showcases
- 9) Future developments in the field and insights into courses and modules and needs for further work and accreditation issues

Afterwards she presents the timetable. Please have a closer look into the work plan.

Topic 8: Administration and financial information

Due to personnel changes, Marc has once again discussed the PROM tool in detail. For the other participants this was only a repetition. An instruction with screenshots of the PROM Tool can be found in the presentation.

Topic 9: Dissemination and exploitation

Regarding dissemination activities, Jana give all new team members an overview about dissemination activities.

Moreover, she will create the 2nd Newsletter and flyer latest until end of November 2020 and send it to all partners for translating and providing it to interested persons. Besides, she reminds of the social media roster for Facebook.

In this context, she points out that all partners have to send their Facebook account name to Jana. Therefore she will set up all partners with editorial rights for posting on the EDU-VET Facebook page.

Topic 10: What's laying ahead of us?

Finally, Jana demonstrates the next steps. Please have also a closer look into the work plan to see all deadlines and current/ further tasks. Following you can see a very short summary of the next steps:

IO1:

- Completing survey study
- Analyse results of survey study and specific research results of IK
- Writing Summary Research Report
- Correction and translation of Summary Research Report
- Creation of flipbook

IO2:

- Development of EDU-VET Curriculum

IO3:

- Creation of interactive tasks for online and classroom scenarios

IO4:

- Distribution of book chapters to project partners
- Writing book chapter

IO5:

- Searching for best-practices/ metal companies

Tasks	Who	Deadline	UPB (P1)	IK (P2)	BKBW (P3)	LMC (P4)	CIFP (P5)	SBE0G (P6)
Dissemination activities/ Organisational activities								
Dissemination activities (providing newsletter, social media etc.) -Social Media Facebook: see social media roster	UPB, BKBW, LMC, CIP, SBE0G	Continuously		Not necessary				
Providing project website with new information, posts etc.	UPB	Continuously		Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
PROM-Tool (You have to provide evidence about the working days with your timesheets) http://eduproject.eu/prom/login.php	All partners	Every month						
All partners create Local Working Groups (LWG) with 5 to 6 persons. The first LWG Meeting can start immediately (Please think about participant list and some pictures) →At least 6 LWG Meetings	BKBW, LMC, CIP, SBE0G	Every 4 months	Not necessary	Not necessary				
Creation of 2 nd Newsletter (Information about results if IO1 and first insights into IO2 and IO3; Online Project Meeting) and send it to partners	UPB	Until 20/11/2020		Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
Translation of 2 nd Newsletter in national language and send it back to UPB or upload it on our NexCloud project folder	UPB, BKBW, CIP, SBE0G	Until end of November 2020		Not necessary		Not necessary		
Providing of 2 nd Newsletter to VET staff, learners or other interested persons	UPB, BKBW, LMC, CIP, SBE0G	Until end of November 2020		Not necessary				
Creation of 2 nd Flyer (Information about results if IO1 and first insights into IO2 and IO3; Online Project Meeting) and send it to partners	UPB	Until 20/11/2020		Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
Translation of 2 nd Flyer in national language and send it back to UPB or upload it on our NexCloud project folder	UPB, BKBW, CIP, SBE0G	Until end of November 2020		Not necessary		Not necessary		
Providing of 2 nd Flyer to VET staff, learners or other interested persons	UPB, BKBW, LMC, CIP, SBE0G	Until end of November 2020		Not necessary				

3.11) <u>Selection of questionnaire participants</u>	UPB, BKBW, LMC, CIFP, SBEOG	15/07/2020	✓	Not necessary	✓	✓	✓	✓
3.12) Completing questionnaire with at least 100 participants	UPB, BKBW, LMC, CIFP, SBEOG	End of August/ Beginning of Sep 2020	✓	Not necessary			✓	
3.13) Compiling data of the partners	UPB	Until middle of November 2020		Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
4) Writing of the research report (UPB)	UPB	Until end of November 2020		Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
4.1) Correction of English research Report (LMC)	LMC	31/12/2020	Not necessary	Not necessary	Not necessary		Not necessary	Not necessary
5) Translations of the research report into native languages	UPB, BKBW, CIFP, SBEOG	31/01/2021		Not necessary		Not necessary		
6) Creation of the flipbook on the basis of the translations of the research report and integration on the website (IK)	IK	31/01/2020	Not necessary		Not necessary	Not necessary	Not necessary	Not necessary
7) Update website with results of IO1 (UPB)	UPB	30/11/2020		Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
Desktop Research (IK)	IK	Until middle of	Not necessary		Not necessary	Not necessary	Not necessary	Not necessary
1) Desktop Research Report								
2) Field-Based Research		November 2020						
2.1) 4 interviews with learners								
2.2) 4 interviews with blended learning experts								

IO2: Technical Education Curriculum for metal industry (leading partner: BKBW)	All partners	01/10/2019 to 01/12/2020						
Design of the learning outcome matrix and send it to partners	UPB	31/07/2020	✓	Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
Design of curriculum framework and send it to partners	UPB	31/07/2020	✓	Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
Completing Learning Outcome Matrices and send it to UPB	UPB, BKBW, LMC, CIFP, SBEOG	End of September 2020	✓	Not necessary	✓	✓	✓	✓
Matching Curriculum with existing syllabi in partner countries - Writing a report on this (max. 5 pages; orientation on Curricular Framework and completed LOMs; Framework will send by UPB end of June 2020)	BKBW, LMC, CIFP, SBEOG	15/12/2020	Not necessary	Not necessary				
Development of Curriculum - UPB and BKBW will write a report on the curriculum and create a paper brochure	UPB, BKBW	31/01/2021		Not necessary		Not necessary	Not necessary	Not necessary
IO3: Online courses for Technical education in metal industry	UPB, BKBW, LMC, CIFP, SBEOG	01/02/2020 to 30/09/2021		Not necessary				

IO3: Online courses for Technical education in metal industry	UPB, BKBW, LMC, CIFP, SBEOG	01/02/2020 to 30/09/2021		Not necessary				
Start with content development for learning units	BKBW, LMC,	Start from beginning of		Not necessary				
	CIFP, SBEOG	January 2020						
Creating online tasks via H5P (examples on NextCloud and website) - Development of interactive tasks via H5P (Examples can already be found on H5P) H5P account: Accountname: eduvet@gmx.de Password: 20eduvet19	UPB, BKBW, LMC, CIFP, SBEOG	Until end of December 2020		Not necessary				
1) Creation of online tasks via H5P (testing phase; creation of the prototypes on H5P)	UPB, BKBW, LMC, CIFP, SBEOG	until end of September 2020	✓	Not necessary	✓			
2) Creation of real tasks at Moodle (BKBW and UPB will also give an introduction) Creation of courses - Development of content design - Development of task design - Development of interactive tasks - Development of quizzes, questionnaires - Development of video and audio design etc.	UPB, BKBW, LMC, CIFP, SBEOG	Until end of May 2021		Not necessary				
Content design	IK	Until end of August 2021	Not necessary		Not necessary	Not necessary	Not necessary	Not necessary
The schools will also provide partner and introduction videos	BKBW, LMC, CIFP, SBEOG	Until end of August 2021	Not necessary	Not necessary				

IO4: Handbook and Guidelines for teachers		01/12/2020 to 31/10/2021						
Determination of the book structure and distribution of the chapters to the partners	SBEOG, UPB	Until middle of December 2020		Not necessary	Not necessary	Not necessary	Not necessary	
Writing of book chapters and send completed chapters to UPB	All partners	Until middle of May 2021						
Matching of all book chapters	SBEOG, UPB	Until end of May 2021		Not necessary	Not necessary	Not necessary	Not necessary	
Correction of English version	LMC	Until end of June 2021	Not necessary	Not necessary	Not necessary		Not necessary	Not necessary
Translation of book in national language	UPB, BKBW, IK, CIFP, SBEOG	Until end of August 2021				Not necessary		
General book layout and setting of the book in InDesign	IK	Until end of September 2021	Not necessary		Not necessary	Not necessary	Not necessary	Not necessary
Developing a framework regarding the guideline concept for teachers	SBEOG, UPB	Until end of January 2021		Not necessary	Not necessary	Not necessary	Not necessary	
Writing of guideline concept for teachers (based on book chapters) and send it to UPB	All partners	Until end of July 2021						
Matching the guideline concept	SBEOG, UPB	Until middle of August 2021		Not necessary	Not necessary	Not necessary	Not necessary	
Correction of English version	LMC	Until end of September 2021	Not necessary	Not necessary	Not necessary		Not necessary	Not necessary
Translation of guideline concept in national language	UPB, BKBW, IK, CIFP, SBEOG	Until end of October 2021				Not necessary		

IO5: Showcases of best practices		01/01/2020 to 30/09/2021						
Technical implementation and development of technical infrastructure of Online Observatory	IK	Until middle of December 2020	Not necessary		Not necessary	Not necessary	Not necessary	Not necessary
Creation of criteria setting for Online Observatory	UPB, CIFP	Until end of May 2020	✓	Not necessary	Not necessary	Not necessary	✓	Not necessary
Provide guidelines to partner by UPB (until end of June 2020) Further information will follow until end of June 2020	UPB	Until end of June 2020	✓	Not necessary	Not necessary	Not necessary	Not necessary	Not necessary
Searching for best-practices (metal companies) which can be presented on Online Observatory - Each partner should acquire about 5 to 6 companies - Companies should fill in the guideline and answer the questions (until May 2021).	UPB, BKBW, LMC, CIFP, SBEOG	Until May 2021		Not necessary				
The completed profiles of companies should be sent back UPB (until May 2021).	UPB, BKBW, LMC, CIFP, SBEOG	Until May 2021		Not necessary				
Translation of Business profiles of companies from national language in English (until May 2021)	UPB, BKBW, LMC, CIFP, SBEOG	Until May 2021		Not necessary				

Additionally we distribute the modules concerning the EDU-VET Curriculum to the partners:



Topic 11: Meeting Evaluation

Jana ends the meeting with a meeting evaluation, which should be answered online by each partner. Jana will also create an evaluation report, which can also be downloaded in the NextCloud or on the EDU-VET website.

Impressions:



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Options anzeigen

Zoom Meeting

Ansicht

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EDU-VET

Welcome and current status of EDU-VET

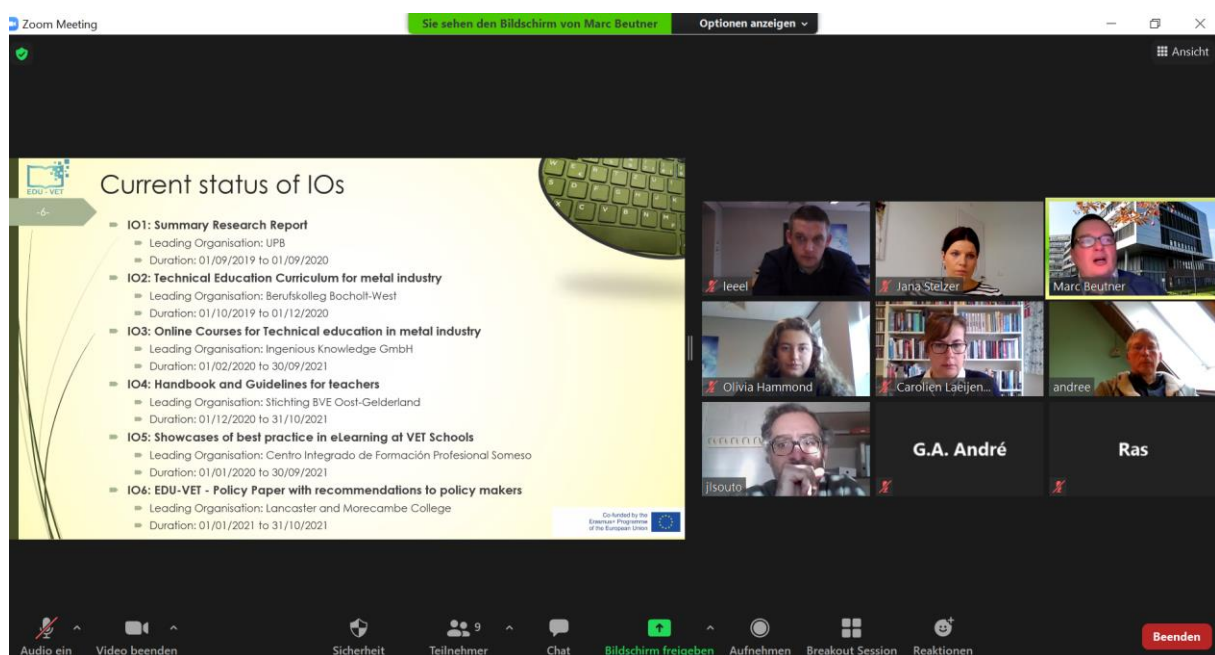
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Jana Stelzer
Marc Beutner
Olivia Hammond

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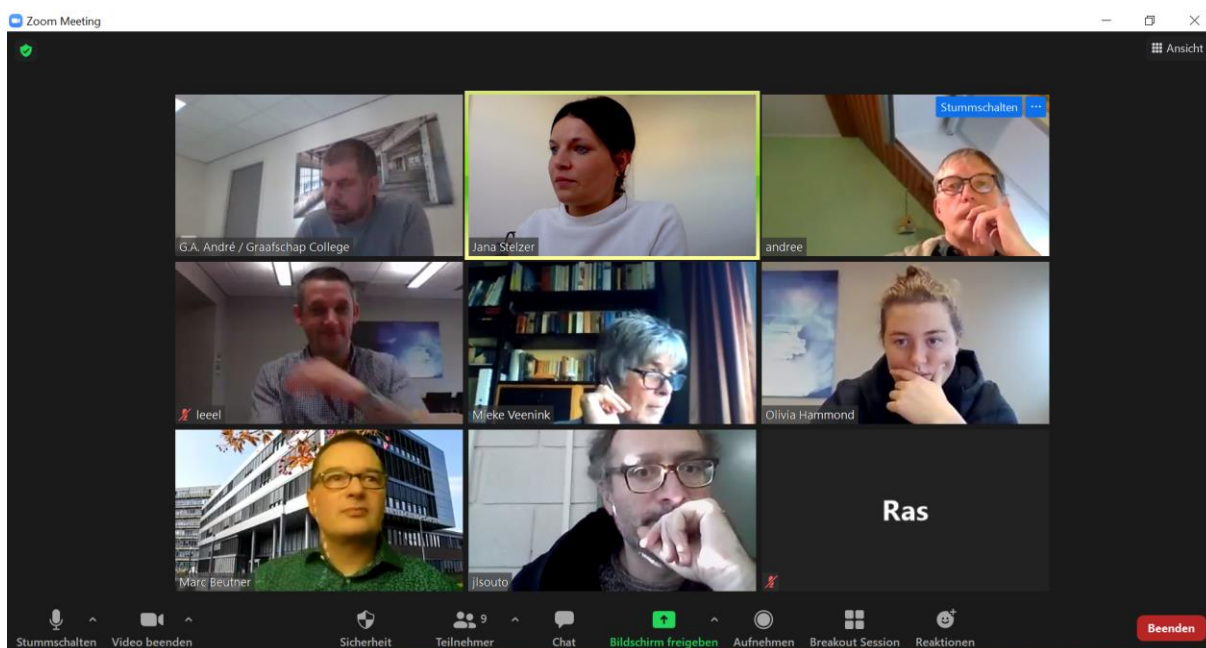
Current status of IOs

- IO1: Summary Research Report**
 - Leading Organisation: UPB
 - Duration: 01/09/2019 to 01/09/2020
- IO2: Technical Education Curriculum for metal industry**
 - Leading Organisation: Berufskolleg Bocholt-West
 - Duration: 01/10/2019 to 01/12/2020
- IO3: Online Courses for Technical education in metal industry**
 - Leading Organisation: Ingenious Knowledge GmbH
 - Duration: 01/02/2020 to 30/09/2021
- IO4: Handbook and Guidelines for teachers**
 - Leading Organisation: Slichting BVE Oost-Gelderland
 - Duration: 01/12/2020 to 31/10/2021
- IO5: Showcases of best practice in eLearning at VET Schools**
 - Leading Organisation: Centro Integrado de Formación Profesional Someso
 - Duration: 01/01/2020 to 30/09/2021
- IO6: EDU-VET - Policy Paper with recommendations to policy makers**
 - Leading Organisation: Lancaster and Morecambe College
 - Duration: 01/01/2021 to 31/10/2021

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Current status of IO2


-9-

Development of Curriculum – Module structure

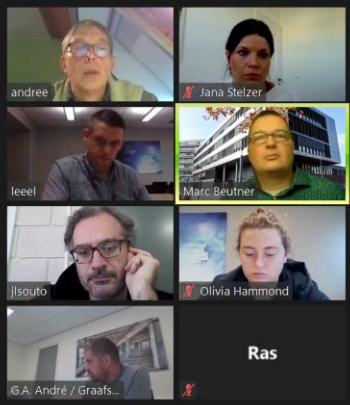
Experiences Drilling / Turning / Milling 1	Experiences Drilling / Turning / Milling 2	Experiences Drilling / Turning / Milling 3
Advanced Drilling / Turning	Advanced Drilling / Milling	Advanced Turning / Milling
Entry Drilling UK	Entry Turning ES	Entry Milling NL

Andree will cooperate with each partner

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