DOCUMENT TITLE:

REPORT ON CAPACITY BUILDING ACADEMY

Project: Improving RD and business policy conditions for transnational cooperation in the manufacturing industry

Acronym: Smart Factory Hub

Work package	WP5: L&C Hub 4 Tech alliances
Activity	A5.3: Training academy
Deliverable	D5.3.1: Capacity building academy
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Dissemination level		
PU	Public	
PP	Restricted to other Programme participants	
RE	Restricted to a group specified by the consortium	X
CO	Confidential, only for members of the consortium	

Project co-funded by European Union funds (ERDF, IPA)

1. Introduction and background

Training academy is used for capacity building identified regional facilitators and project partners, with the aim to foster the transfer of knowledge, best practices and enhance interregional cooperation. The ultimate goal and final output will be based on three-day training held in Stuttgart (DE), organized and implemented by the University of Stuttgart and University of Cluj-Napoca. Training sessions are going to be provided for a group of 25-30 persons (project partner members and selected facilitators) coming from all partner regions. The training will consist of theoretical and practical work, with theoretical training taking place in the classroom, while the practical work of the smart factory good practice example will be executed in selected companies in Stuttgart, since the aim of practical the training is to obtain latest knowledge and present good practices implemented in the field.

Further information

Three-day intensive training session will be organized at University of Stuttgart (DE), with the goal to train identified facilitators (and partners) coming from partner regions. Sessions will be implemented by experts/mentors and following the Training curricula and Training tools - transferability tools developed under the D5.2.1 and D5.2.2 (to the extent possible).

The role of project partners is to participate at capacity building academy and assure also participation of identified regional facilitators. Each regional partner will cover own travel and accommodation costs while catering will be covered by organizer. For other identified regional facilitators travel and accommodation costs will be covered by regional partners.

Target group involvement:
The target group will be involved to the extent of including facilitators and experts that are potentially coming from other institutions/stakeholders. In such cases, the facilitator or expert is a representative of such target group institution, which is interested for cooperation. Also, the training academy anticipates visiting good practices at target groups.

2. Training academy planning

Agenda

Agenda for the SMART FACTORY HUB Training Academy
Stuttgart, 24–26 April 2018

Day 1: 24th of April 2018

Time	Activity	Speaker
8:45 – 9:00	Registration	
9:00 - 9:10	Welcome, Agenda and Expectations	Moderated by USTUTT
9:10 – 9:30	Introduction IAT University Stuttgart	
9:30 – 10:30	**Technology transfer management** [Facilitator Training]	Moderated by PTP
10:30 – 10:45	*Coffee Break, Networking*	
10:45 – 11:30	**Additive Manufacturing, I-4.0 Maturity Model, Design Thinking** [Facilitator Training]	Moderated by PRO
11:30 – 12:15	**I4.0 Readiness Toolkit** [Facilitator Training]	Moderated by USTUTT
12:15 – 13:00	*Break for Lunch*	
13:00 – 14:30	Visit of Fraunhofer Labs **Future Work Lab**	Hosted by USTUTT
14:30 – 14:45	*Coffee Break, Networking*	
14:45 – 17:00	**cirp GmbH - Factory visit** Additive Manufacturing	
From 18:30	*Socializing evening dinner (Römerhof Kulinarium)*	

Day 2: 25th of April 2018

Time	Activity	Speaker
9:00 – 10:45	**Project discussion and procedure**	Moderated by PTP
10:45 – 11:00	*Comfort break, networking*	
11:00 – 12:00	**Smart Factory Hub E-Learning Platform** [Presentation & Discussion]	Moderated by USTUTT
12:00 – 13:00	*Break for Lunch*	
13:00 – 14:00	**Augmented reality work instructions; Digitalization of Intralogistics and Manufacturing; Platforms for bringing smart automation solutions to life; Production Cell 4.0** [Facilitator Training]	Moderated by UWB
14:00 – 15:00	**Six Sigma** [Facilitator Training]	Moderated by UTCN
15:00 – 15:15	*Coffee Break, Networking*	
15:15 – 16:00	**Statistical Process Control** [Facilitator Training]	Moderated by UTCN
16:00 – 16:45	**IT-Strategies for digitalization** [Facilitator Training]	Moderated by USTUTT
16:45 – 17:00	*Closing*	
From 17:30	*Optional, private event:* *Stuttgarter Frühlingsfest, Bad Cannstatt* (ca. 30€)	

Day 3: 26th of April 2018

Time	Activity	Speaker
9:00 – 9:45	Lessons learned/ Feedback	Moderated by USTUTT
09:45 – 10:45	Visit of Fraunhofer Labs **Application Center Industry 4.0**	Hosted by USTUTT
10:45 – 11:30	Visit of Fraunhofer Labs **Robotics & Automation Open Lab**	Hosted by USTUTT
11:45 – 12:15	Final discussion and further announcements	Moderated by USTUTT & PTP
12:15 - 13:00	*Break for Lunch*	
13:00	*Closure of Day 3 (afternoon session upon need)*	
From 13:00	*Optional, private event:* Mercedes Benz Museum Stuttgart (ca. 20€)	

Invitation

Dear Project partners,

According to the Project Plan IAT University of Stuttgart is organizing a SMART FACTORY HUB Technical meeting:

Venue: **CAMPUS.GUEST**
Universitätsstraße 34, D-70569 Stuttgart- Vaihingen
Tel: +49 711 / 97 464-0
Web: www.campus-guest.de

Date: **24. – 26. April 2018**

Attached to this invitation please find agenda for the meeting. Please note that comments and proposals for amending the draft agenda or any other issue can be sent to Daniel Copot (daniel.copot@p-tech.si) and representatives from the organizer – IAT University of Stuttgart - Marco Kayser (marco.kayser@iat.uni-stuttgart.de), Jonathan Masior (jonathan.masior@iat.uni-stuttgart.de) und Silvana Heckelsmüller (silvana.heckelsmueller@iat.uni-stuttgart.de) .

In case of any **special arrangements**, like special diets, vegetarian or vegan food requirements, please inform the organizer directly.

Please make your reservation via e-Mail and put Jonathan or me in cc to get the conditions for university staff. (if you decide to stay in the hotel proposed in this invitation – see below).

Moreover, you are kindly requested to **check a list of your representatives attending the meeting – please just sign in all names on Doodle latest until 17th of April 2018**.

Additional details of the meeting, including agenda and additional useful information about travel and accommodation can be found hereinafter.

We look forward to meeting you and your colleagues.

Marco Kayser
Jonathan Masior
Silvana Heckelsmüller
IAT University of Stuttgart

TRAVEL AND ACCOMMODATION

The meeting will take place at

CAMPUS.GUEST
Universitätsstraße 34, D-70569 Stuttgart- Vaihingen
Tel: +49 711 / 97 464-0
Web: www.campus-guest.de

STUTTGART

Stuttgart is the capital and largest city of the German state of Baden-Württemberg.

Stuttgart is located at the Neckar river and its urban area has a population of 609,219 making it the sixth largest city in Germany. 2.7 million people live in the city's administrative region and another 5.3 million people in its metropolitan area, making it the fourth largest metropolitan area in Germany.

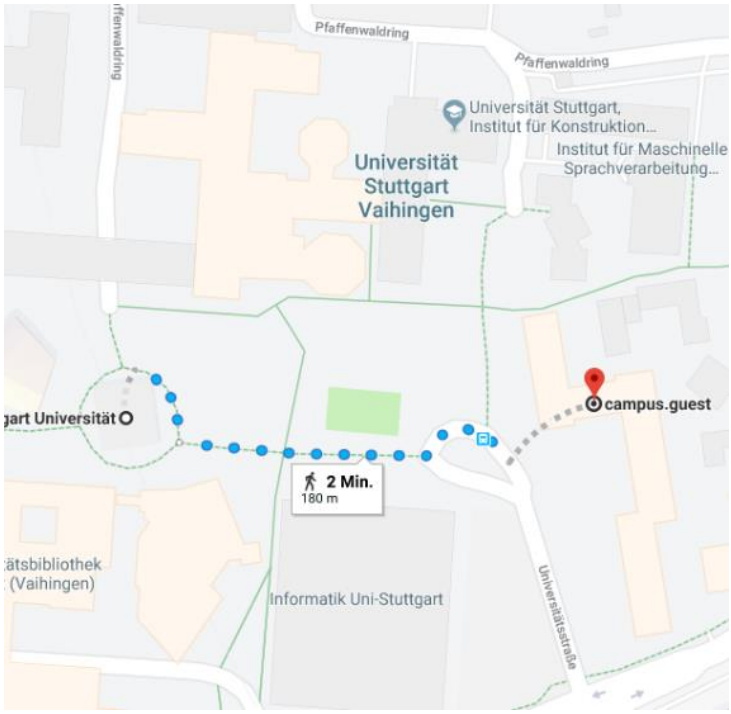
Stuttgart is unusual in the scheme of German cities. It is spread across a variety of hills (some of them covered in vineyards), valleys (especially around the Neckar river and the Stuttgart basin) and parks. This surprises visitors who associate the city with its reputation as the "cradle of the automobile".

Currency: EUR

HOW TO GET TO STUTTGART

By train

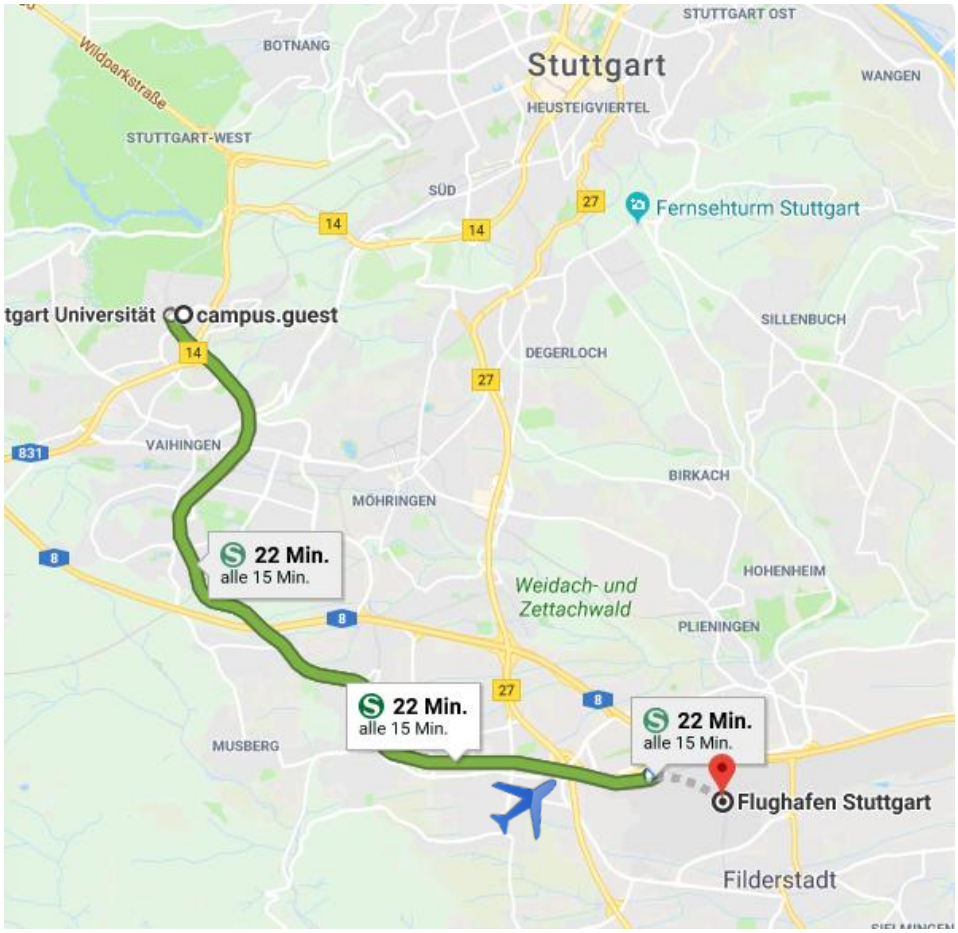
The main station (Stuttgart Hauptbahnhof) is in the very centre of Stuttgart. Timetables for trains and booking are available on the webpages of Deutsche Bahn AG. For getting on from Stuttgart Hauptbahnhof to the Hotel, use the S-Bahn line S1 to Herrenberg, S2 to Filderstadt, or S3 to Flughafen/Messe and leave the S-Bahn at the station Universität. Then walk to the Hotel campus.guest as seen below.



By Plane

Stuttgart has one airport, located in Leinfelden-Echterdingen. Various airlines serve direct flight connections between Stuttgart and major European cities.

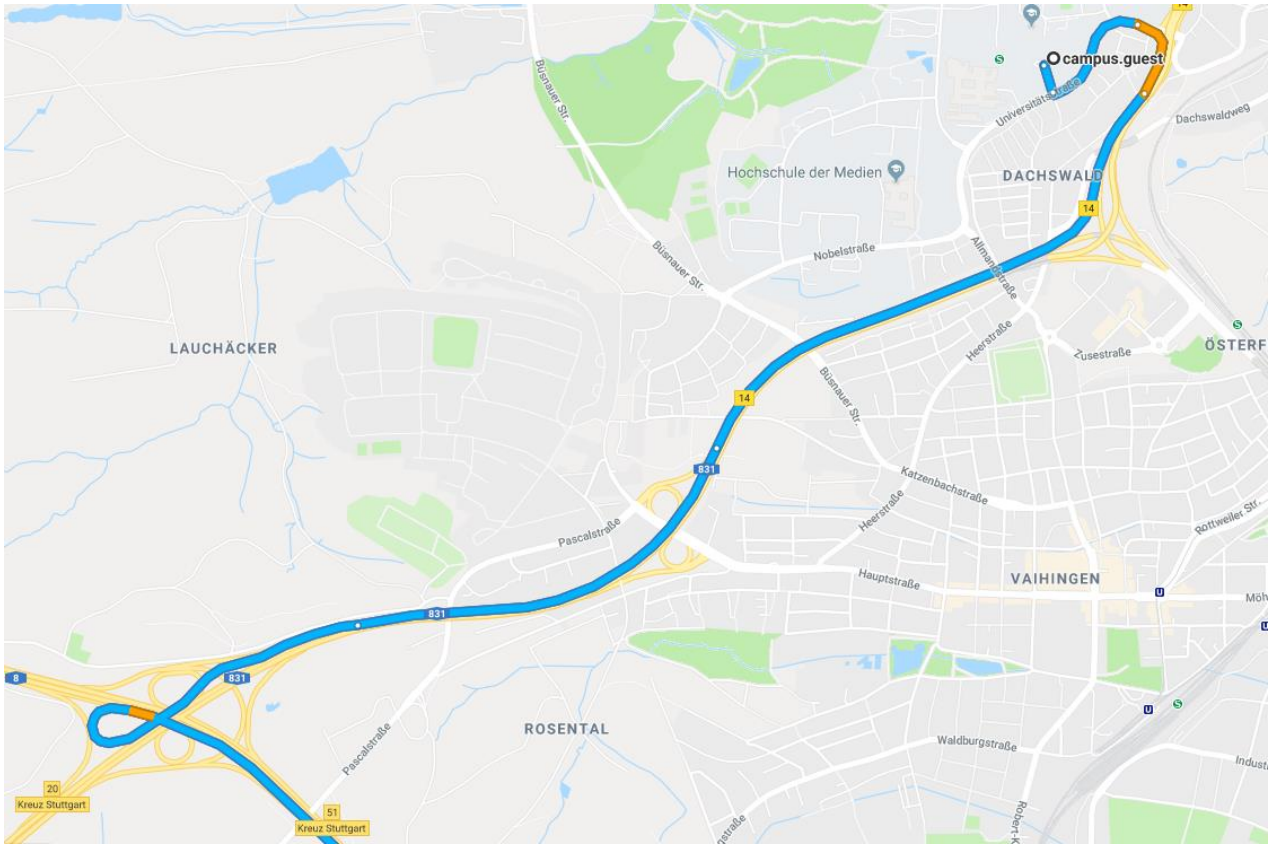
The S-Bahn line S2 to Schorndorf or S3 to Backnang will bring you to your Hotel. Leave the S-Bahn at the station Universität. Then walk to the Hotel campus.guest as seen under “By train”.



By car

Follow roadway A8, take exit “Kreuz Stuttgart”. Follow roadway A831 and take exit “Universitätsstraße”. Distance to the hotel: ~ 450 m.

Keep left at the crossroads and follow the signs to the university. After 450m, the Hotel is on the right hand side. There are free parking spaces at the hotel.



HOTEL

CAMPUS.GUEST
Universitätsstraße 34,
D-70569 Stuttgart- Vaihingen
Tel: +49 711 / 97 464-0
Web: www.campus-guest.de

Price: 79 EUR per night (incl. breakfast)

Please make your reservation via e-Mail and please **put Jonathan or me in cc** to get the conditions for university staff.

3. Training programme description and training courses

The following Training material and courses will be provided in DMS and on the SFH-eLearning Platform:

1. Technology transfer management
2. Additive Manufacturing
3. I-4.0 Maturity Model
4. Design Thinking
5. I4.0 Readiness Toolkit
6. Six Sigma and Lean Six Sigma (L6σ)
7. Statistical process control (SPC)
8. Augmented reality work instructions
9. Digitalization of Intralogistics and Manufacturing
10. Platforms for bringing smart automation solutions to life
11. Production Cell 4.0
12. IT-Strategies for Digitalization

4. Report on training academy

Subject:
Smart Factory HUB Training Academy

Date:
24.04.2018 09:00 – 17:00
25.04.2018 09:00 – 17:00
26.04.2018 09:00 – 13:00

Place:
Stuttgart, Germany

Participants (see also List of participants in Annex 1):

Nr.	Name	Institution (Acronym)	24.04.	25.04.	26.04.
1	Aleksandar Matić	Chamber of Commerce and Industry of Serbia	x	x	x
2	Anna Naydenova	Foundation "Cluster Information and Communications Technologies"	x	x	x
3	Attila Joós	AM-Lab	x	x	x
4	Balázs Barta	Pannon Business Network Association	x	x	x
5	Benjamin Schneider	University of Stuttgart Institute for Human Factors and Technology Management	x		
6	Calin Neamtu	Technical University of Cluj-Napoca	x	x	
7	Christian Wögerer	PROFACTOR GmbH	x	x	x
8	Daniel Copot	Pomurje Technology Park, Ltd.	x	x	x
9	Ferenc Tolner	AM-Lab	x	x	x
10	František Duchoň	Slovak University of Technology	x	x	x
11	Gordana Ribarić	Croatian Chamber of Economy	x		
12	Igor Paulíček	Slovak Chamber of Commerce and Industry	x	x	x
13	Ivan Vićovac	Chamber of Commerce and Industry of Serbia	x	x	x
14	Jaroslav Sobota	REX Controls s.r.o.		x	
15	Jonathan Masior	University of Stuttgart Institute for Human Factors and Technology Management	x	x	x
16	Kai Plambeck	IHK Heilbronn-Franken (Chamber of commerce and industry)	x	x	x
17	Marco Kayser	University of Stuttgart Institute for Human Factors and Technology Management	x	x	x
18	Marek Bures	University of West Bohemia	x	x	x
19	Marija Galeković	Croatian Agency for SMEs, innovations and investments	x	x	x
20	Marko Močnik	Pomurje Technology Park, Ltd.	x	x	x

21	Márton Magyarfalvi	AM-Lab	x	x	x
22	Mihai Dragomir	Technical University of Cluj-Napoca	x	x	
23	Milena Vujaklija	Chamber of Commerce and Industry of Serbia	x	x	x
24	Milica Djurić Jovičić	Innovation Centre. School of Electrical Engineering, University of Belgrade	x	x	
25	Miro Hegedić	University of Zagreb Faculty of Mechanical Engineering and Naval Architecture	x	x	x
26	Nina Vujović	Chamber of Commerce and Industry of Serbia	x	x	x
27	Pavel Roub	University of West Bohemia	x	x	x
28	Pavol Vašek	Slovak University of Technology	x	x	x
29	Reiner Lohse	Wirtschafts- und Innovationsförderungsgesellschaft für den Landkreis Göppingen mbH	x	x	x
30	Renata Csabai	Pannon Business Network Association	x	x	x
31	Sanja Jović	Croatian Agency for SMEs, innovations and investments	x	x	x
32	Silvana Heckelsmüller	University of Stuttgart Institute for Human Factors and Technology Management	x	x	x
33	Todor Mitov	Foundation “Cluster Information and Communications Technologies”	x	x	x
34	Tomaž Zadravec	Pomure Technology Park, Ltd.	x	x	x
35	Verena Musikar	PROFACTOR GmbH	x	x	x
36	Zdenek Fiala	Intemac Solutions, s.r.o.	x	x	x

Meeting Minutes

Day 1 (24.04.2018):

Meeting Kick-Off:
Subject of the meeting was an interactive workshop with the aim to train facilitators in the project. At the beginning the agenda was presented and organizational details of the event were clarified. Then a short introduction of all workshop participants followed.

Introduction to University of Stuttgart:
A brief introduction of the University of Stuttgart with the various laboratories, Demonstration and Consulting Centers was presented.

Facilitator Training: Technology transfer management (PTP)
Due to rapid changes in today's society, it is important for companies to adapt and change. It is a wide range what can be transferred in the technology transfer, but it is technology or knowledge, when it is transfer from one place to another. The technology transfer starts with a simple idea but then it's a complicated process.

Facilitator Training: Additive Manufacturing, I-4.0 Maturity Model, Design Thinking (PRO)
Overview of additive manufacturing and the presentation of four phases of the content of additive manufacturing. Timeline of the development of additive manufacturing processes. Overview of different types of additive manufacturing. Overview of assistance systems in production for example collaborative robotics and explanations why assistance is necessary.

Facilitator Training: I4.0 Readiness Toolkit (USTUTT)
SMEs see the need to prepare themselves for Industry 4.0 but they lack insight into their own capability to implement Industry 4.0 approaches in their company and relevant next steps to achieve a higher I4.0 readiness. The I4.0 Readiness Toolkit provides a three-step process aimed at giving SMEs a good understanding for their current I4.0 readiness and support for enhancing it. The Toolkit is set up in a modular way so that SMEs have free choice on the type and depth of support provided to them.

Visit of Future Work Lab
The participants were guided through the lab and the demonstrators were presented. The participants had the opportunity to try out industry 4.0 solutions and ask questions.

SME-Visit: cirp GmbH
At the beginning, cirp GmbH was presented with its business divisions and innovative product solutions. Afterwards, a tour of the production site took place, where questions could be asked.

Day 2 (25.04.2018):

Project discussion and procedure:
Current project progress is OK, nearly everything is on time. WP 4, 3, 2, 1 are completely done. WP 5 is in progress. Project is currently in the middle of Period 3. It is planned to finalise the eLearning platform until the end of June 2018. Learning demonstration workshops are still an open topic. Partners were asked to provide input for the eLearning platform (learning content) until the end of May. It will be discussed in Belgrade.

Digital publication on the Transferability guideline tool & training curriculum needs to be prepared until end of May and then send to the PBN. PBN will edit/ summarize the report and will prepare the Digital publication until end of June 2018.

Next crucial activity is, that each partner collects at least ten Smart Factory solutions until meeting in Belgrade. The solution should be applicable to the SMEs and should be already in the face of implementation and commercialization and real testing. It is necessary that to have a connection to the company and as a result certain access to the expertise behind the solution. The PTP to provide a template for reporting ten smart factory solutions from all partners.

Discussion regarding learning demonstration workshops: Facilitator, companies, project members can present. Every partner has to organize at least one regional learning demonstration workshop until October 2018. The goal is to finish all ten learning workshops with the ten solutions from the activity above. The workshops should be organized in English that everybody can join. Organize it as soon as possible.

The goal are 20 (two per partner) international matches of Smart Factory solution providers and production oriented SME to be endorsed in Technology transfer. As a result, the call for the voucher scheme could support production oriented SMEs who would be able to apply for the voucher.

Demonstration: Smart Factory Hub E-learning Platform (USTUTT)
The main functions of the platform tool were explained and demonstrated “live” via walkthrough.

It was noted that there is still the question of how the recorded BBB sessions get into the "Webinars" folder. It has also been said that the different time zones are a problem for appointments and it must always be marked in which time zone which appointment is held. If necessary, insert a clock in the Moodle to show what time it is in the required time zone. It was agreed that at the meeting in Belgrade, a test of BBB's functions would be conducted to test it.

Facilitator Training: Augmented reality work instructions; Digitalization of Intralogistics and Manufacturing; Platforms for bringing smart automation solutions to life; Production Cell 4.0 (UWB)

Presentation of Intralogistics in companies and different production processes. Description of the way from mass to customized production.

Platforms for bringing smart automation solutions to life: Company Presentation of REX Controls. Overview of the various projects in which they are integrated with regard to smart automation. The requirements that must be met in order to use Smart solutions were explained. The company developed the software platform "REXYGEN", which was also presented. The product "Monarco HAT" was also presented and explained.

Presentation about INTEMAC research center that was founded in 2013 after the model of Fraunhofer Institute (applied research organization). Presentation of the Digimat Programme, the south-moravian Digital Manufacturing Programme. Another project is the Production Cell 4.0, presentation of the functionalities of the Cell 4.0.

Facilitator Training: Six Sigma (UTCN)
Introduction of Six Sigma with an exercise in which the participants had to build a paper airplane and let it fly as far as possible. Explain what Six Sigma is and what its purpose is. Also explanation when which sigma occurs and how many errors per 1 million pieces there are in each case. Introduction to Lean Six Sigma to avoid the eight types of waste.

Facilitator Training: Statistical Process Control (UTCN)
Introduction to the topic with a short game. Explanation of the most important points to the topic. Explanation of different processes with their normal distributions and the different possibilities, how the curves can look like and how they are interpreted. Introduction to statistical process control.

Facilitator Training: IT-Strategies for digitalization (USTUTT)
Presentation about the advantages that Product Lifecycle Management (PLM) offers for the digitization of producing companies.

Day 3 (26.04.2018):

Lessons Learned:
At the end of the actual meeting, a feedback round took place in which each participant could share their impressions of the workshop with the group. See also annex 2.

Visit of IPA Applications Center 4.0
The participants were guided through the lab and the demonstrators were presented. The participants had the opportunity to try out industry 4.0 solutions and ask questions.

Visit of IPA Robotics Lab
The participants were guided through the lab and the demonstrators were presented. The participants had the opportunity to try out advanced robotics solutions and ask questions.

Annex 1: List of participants

Day 1 (24.04.2018):

Interreg
Danube Transnational Programme
Smart Factory Hub

List of participants

Place and date: Stuttgart, 24.04.18

	Name and Surname	Institution	Email or phone	Signature
1.	Marco Kayser	USTUTT		M. Kayser
2.	Silvana Heckelsmüller	USTUTT		SHeckelsmüller
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7.	BARTA BALÁZS	PBN	barta@pbn.hu	
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Interreg
Danube Transnational Programme
Smart Factory Hub

List of participants

Place and date: _____

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List of participants

Place and date: _____

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23.	Lohse, Reiner	WIF Göppingen	reiner.lohse@wif-gp.de 0049 7161 / 6064 913	
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Interreg
Danube Transnational Programme
Smart Factory Hub

List of participants

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32.	MARKO HOČNIK	PTP	marko@p-tech.si	

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Danube Transnational Programme
Smart Factory Hub

List of participants

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35.	Anna Naydenova	ICT Cluster	anna_naydenova@ictalent.org	
36.				
37.				
38.				
39.				
40.				

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Day 2 (25.04.2018):

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Smart Factory Hub

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List of participants

Place and date:

	Name and Surname	Institution	Email or phone	Signature
1.	DANIEL COPOT	PTP	daniel.copot@p-technisi	[signature]
2.	Jonathan Masior	MSTUTT		[signature]
3.	Marco Vicaysa	"		[signature]
4.	Silvana Heckelsmüller	"		S.Heckelsmüller
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Interreg
Danube Transnational Programme
Smart Factory Hub

List of participants

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13.	Christian WÖGERER	-"-	christian.woegerer@profactor.at	
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Interreg
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List of participants

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22.	~~DANIEL COPOT~~	~~A.D.~~	~~daniel.copot@p-tech.si~~	
23.	MARKO HOČEVAR	PTP	marko@p-tech.si	
24.	TOMAŽ ZADRAVEC	PTP	tomaz.zadravec@p-tech.si	

Interreg
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Smart Factory Hub

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List of participants

Place and date:_____

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Day 3 (26.04.2018):

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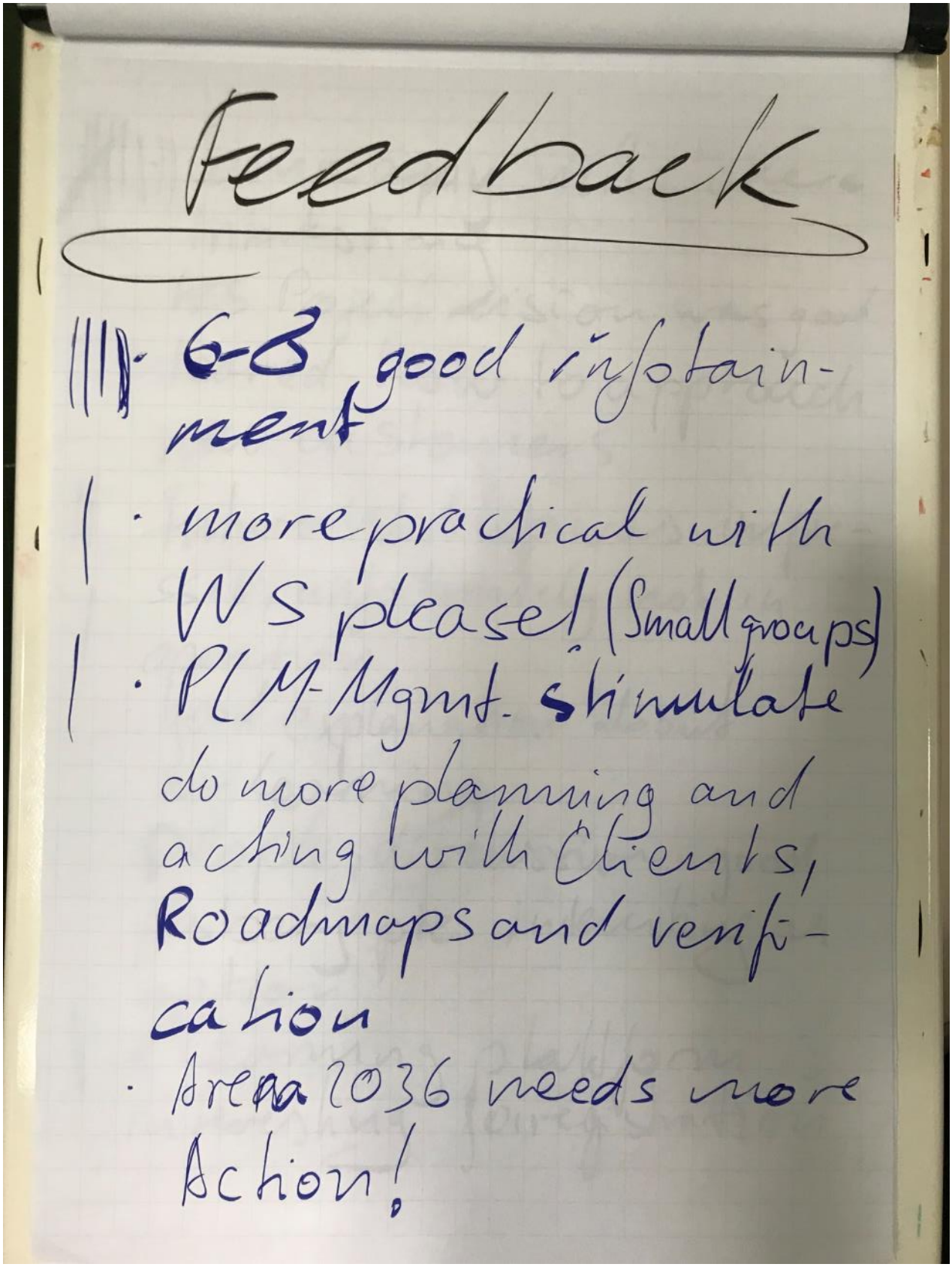
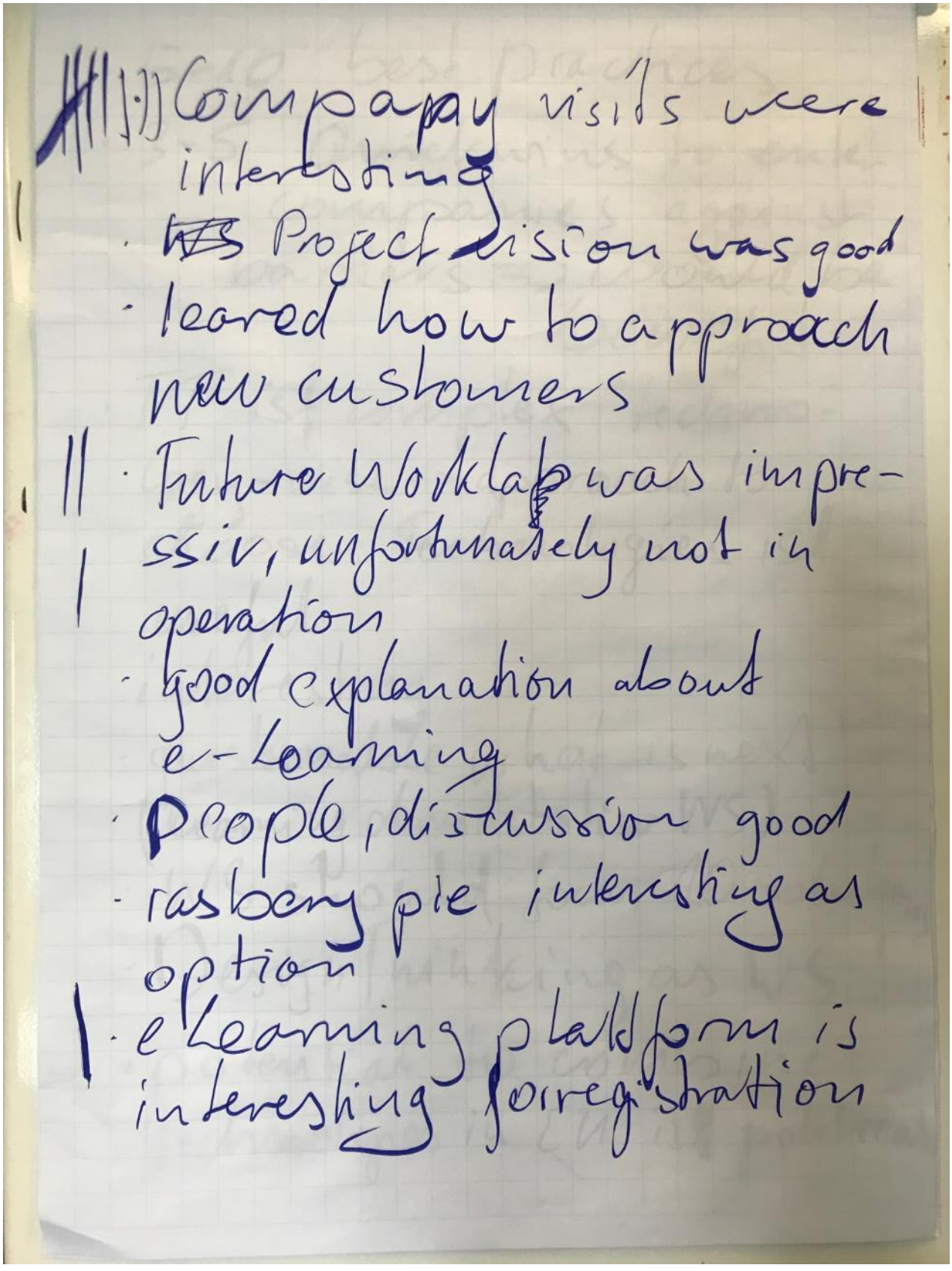
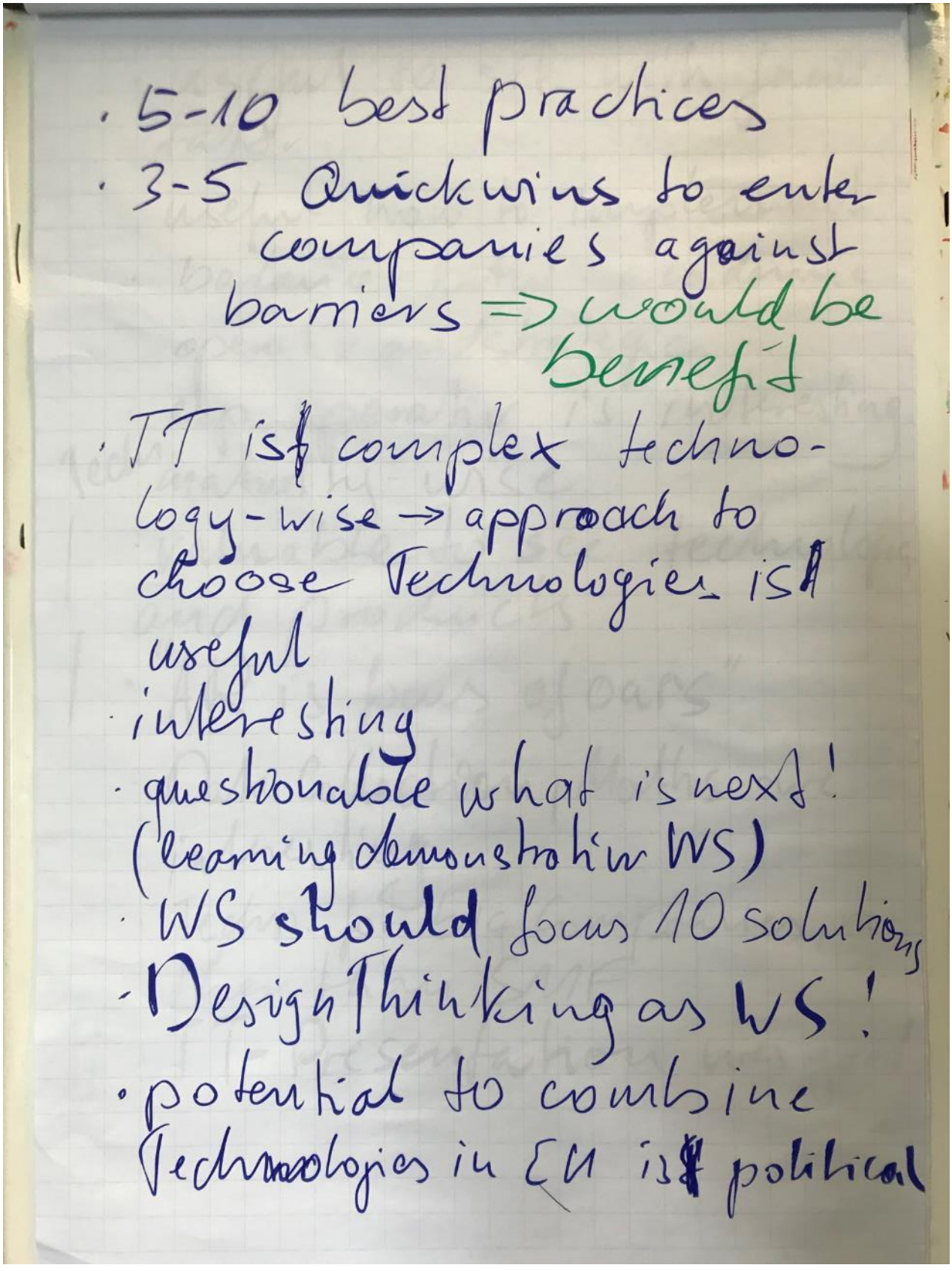
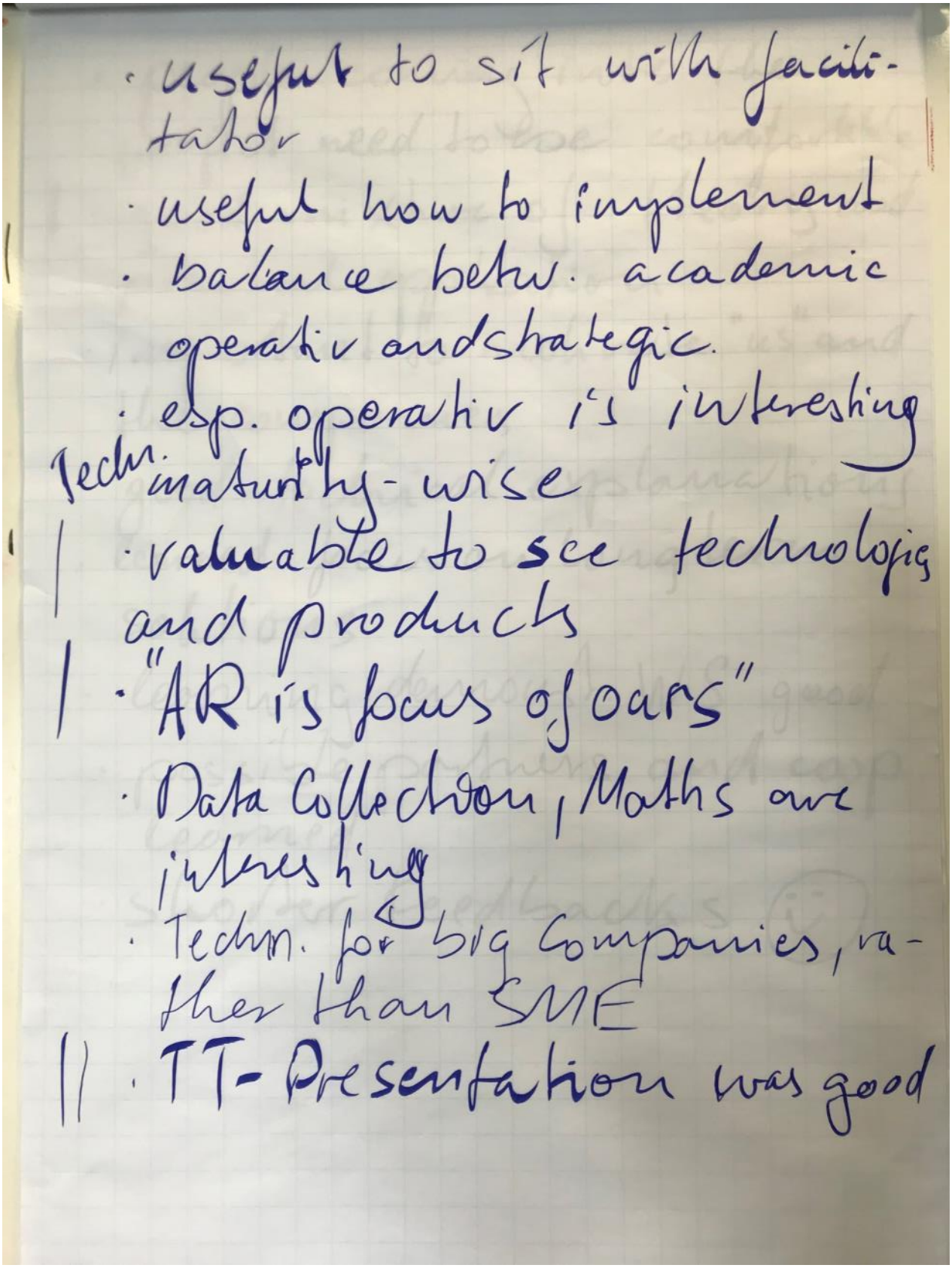
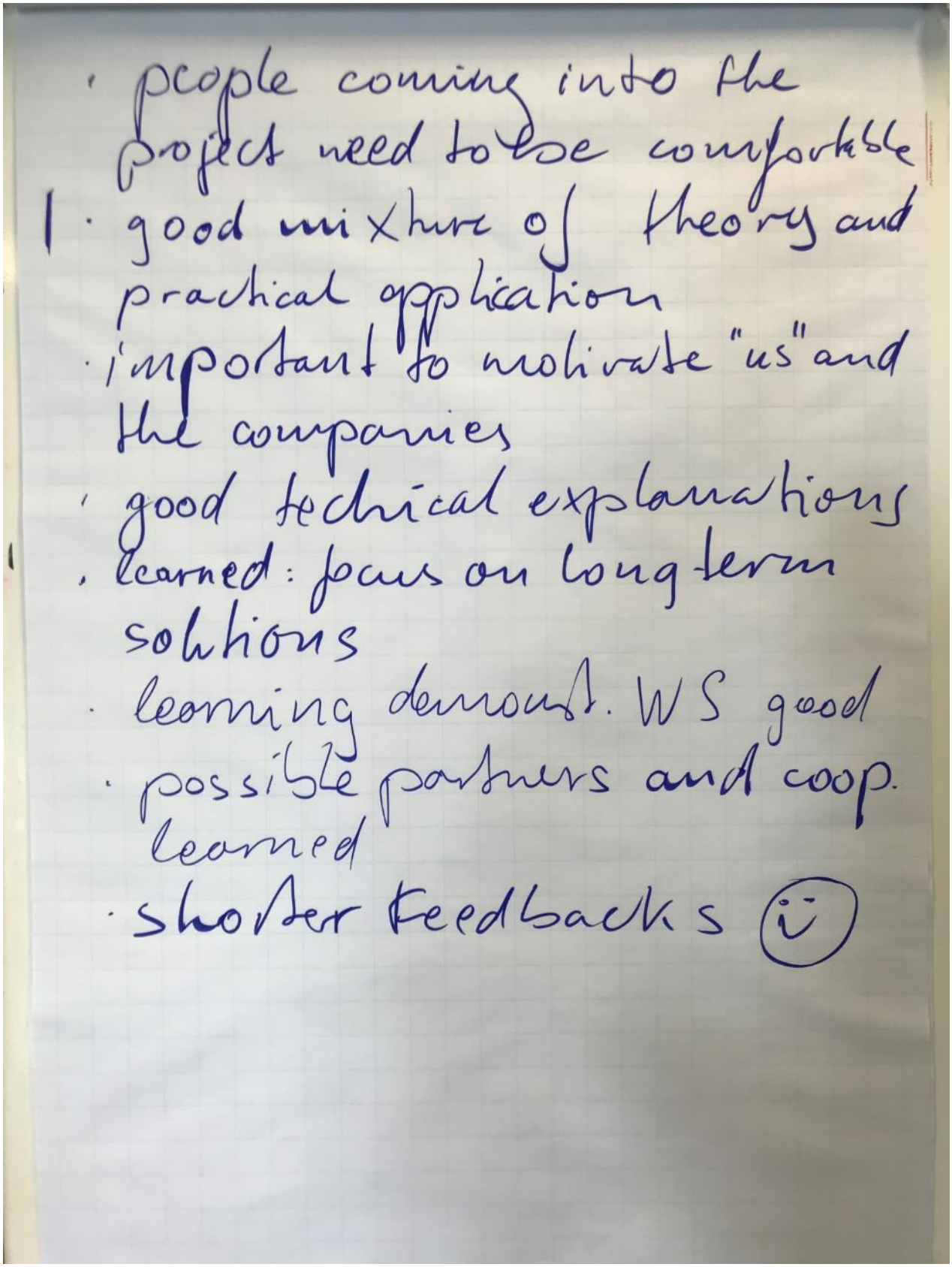
Annex 2: Lessons Learned


Feedback
6-8 good infotainment
more practical with WS please! (Small groups)
PLM-Mgmt. stimulate do more planning and acting with Clients, Roadmaps and verification
Area 2036 needs more Action!


Company visits were interesting
Project vision was good
learned how to approach new customers
Future Worklab was impressiv, unfortunately not in operation
good explanation about e-Learning
People, discussion good
raspberry pie interesting as option
eLearning plattform is interesting for registration


· 5-10 best practices
· 3-5 Quickwins to enter companies against barriers => would be benefit
· IT is complex technology-wise → approach to choose Technologies is useful
· interesting
· questionable what is next! (learning demonstration WS)
· WS should focus 10 solutions
· Design Thinking as WS!
· potential to combine Technologies in EU is political


· useful to sit with facilitator
· useful how to implement
· balance betw. academic operativ and strategic.
· esp. operativ is interesting
Techn. maturity-wise
· valuable to see technologies and products
· "AR is focus of ours"
· Data Collection, Maths are interesting
· Techn. for big companies, rather than SME
· TT-Presentation was good


· people coming into the project need to be comfortable
· good mixture of theory and practical application
· important to motivate "us" and the companies
· good technical explanations
· learned: focus on long term solutions
· learning demand. WS good
· possible partners and coop. learned
· shorter feedbacks

Annex 3: Photos

TECHNOLOGY TRANSFER MANAGEMENT

ELEVON
Ústav robotiky