



D4.3 Student mobilities

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1. INTRODUCTION

1.1 The mobility

On the second week of May 2019, 12 students of the OD&M training visited the training nodes (Florence, Bilbao, London, Dabrowa Gornicza) exploring the local ecosystems of alliances between Universities, makers communities and enterprises. The mobility gave the possibility to build mutual knowledge and relations between students from the four countries, and has been a very positive experience for both visitors and hosting organisations.

Student's experiences describe the rich learning environment of the four nodes of the project:

- In **Poland**, students had the occasion to work together on robotics based on open source hardware, and visited Łódź where they were able to customize their robots and see how revitalization of textile city looks like.
- In the **UK**, the week has been focussed on Social Enterprise and Intellectual Property in a context of Open Design, Co and Participatory Design Practices. Through tours, design activities, and workshops the students worked in teams to develop enterprise propositions focused on OD&M activities.
- In **Spain**, mobility focused on transferring to students the experience of the exercise carried out in collaboration with Fekoor – Etxegoki, an association that manages a group of apartments that provide autonomy to people with reduced mobility. During the week the students had the possibility to know the city of Bilbao and its transformation model, and they visited the most important open work spaces in the city.
- In **Italy**, they visited the spaces of Manifattura Tabacchi, and reviewed the solutions for the space developed by Italian students, with the aim of adding elements draining from their local learning experience in their OD&M training. Mobility students also presented, as a moment of peer learning, the solutions developed on their own challenges/contexts. Moreover, they participated to the event “Erasmus4Ever, Erasmus4Future” organised by Impact Hub Florence and INDIRE – Italian National Agency for Lifelong Learning Education.

The mobility has been aimed at defining commonalities and differences with their local context and with the solutions prototyped in their learning experience to inspire and influence both visiting and local students and their ideas/prototypes.

2. THE SELECTION PROCEDURE

2.1 Procedure for launch of the call and selection rules for students mobilities

The consortium adopted a shared and common procedure and criteria for selecting students as beneficiaries of the mobility, Implementing the following steps:

1. Potential winners have been selected among the students who applied for the mobility by sending an email to the tutors.
2. The selection rating system was based on a weighting of 40% on participation to the lessons, and at 60% on the relevance of the projects developed. This 60% have been composed of a 30% evaluation of the tutors and partners (all non-university actors in each node, both partners and challenge owners) and a 30% evaluation of the teaching team (representing HEI).
3. Finally, 6 profiles will be shortlisted by each university, and the hosting university expressed a preference on one of them, after an analysis of the documentation of the projects presented, and a skype talk with the other partners involved in the organisation of the mobility.

2.2 Calendar of activities and information plan

The activities implemented to prepare the mobilities are shown in the following table, divided by steps and actions, and presented together with additional and more detailed rules for the selection process.

Date	Action	Info
STEP 1: 25 th March – 8 th April	<p>Communicate the opportunity of the call for students, sharing the local mobility agenda.</p> <p>Students should candidate themselves by sending an email to a designated person (local course tutor). You can also ask them to fill a form (optional).</p>	<p>Three students selected in each node, each one goes in a different Country.</p> <p>Even if they receive the local mobilities agenda, there is no possibility for students to express a preference for one of the three destinations.</p> <p>Each awarded student has travel and accommodation costs covered by their HEI. The available budget is 275 € for travel and other 330 € (55* 6 days) for each student accommodation.</p>

		Each HEI has a total amount of 1815 € for the 3 students attending the mobility.
STEP 2: 8 th April – 10 th April	Evaluate candidates using the excel table provided. Share your evaluation with other partners.	Please see criteria and procedure for selection in the next section of this document.
STEP 3: 11 th April – 12 th April	Preferences should be expressed by hosting universities	Please see criteria and procedure for selection in the next section of this document.
STEP 4: 15 th April – 18 th April	Buy tickets and book accommodations for students. Sign bilateral agreements. Sign agreements with students.	Hosting partners should assist each other to facilitate the booking process. Bilateral agreement with UNIFI has been shared. Other bilateral agreements can be done using the document shared by DEUSTO, or other documentation if needed. Documentation for agreement with awarded students should be decided by each HEI according to its rules.
6 th – 10 th May	Mobility	Final and more detailed agenda of the mobility should be confirmed before the end of April.

2.3 Criteria for selection

Every student received an evaluation of A + B1 + B2 = max. 100 points.

A - Participation - 40 points

participated to 80% - 100% of lessons, including events:	40 points
participated to 60% - 80% of lessons, including events:	30 points
participated to 40% - 60% of lessons, including events:	20 points
participated to 20% - 40% of lessons, including events:	10 points
participated to less than 20% of lessons, including events:	0 points

B1, B2 - Projects proposed - 60 points (30 for evaluators team 1, 30 for evaluators team 2)

The two evaluators teams (one for challenge owners and tutors, one of University professors) scored each **award criterion** on a scale **from 0 to 5** (half point scores may be given):

0 - Very poor	Project fails to address the criterion or cannot be assessed due to missing or incomplete information
1 - Poor	Criterion is inadequately addressed or there are serious inherent weaknesses
2 - Fair	Project broadly addresses the criterion, but there are significant weaknesses
3 - Good	Project addresses the criterion well, but a number of shortcomings are present
4 – Very Good	Project addresses the criterion very well, but a small number of shortcomings are present
5 - Excellent	Project successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.
According to the following Criteria	Weighting
Clarity and pertinence of project objectives, related to the challenge;	X 1 (5 points)
Soundness of the concept, and credibility of the proposed methodology ;	X 1 (5 points)
The extent to which the outputs of the project may contribute the expected impacts mentioned in the challenge;	X 1 (5 points)
Quality of the project	X 2 (10 points)
Reach of the project, meaning stakeholders involved in the ideation, prototyping and testing phases	X 1 (5 points)

The final score for each candidate is A (40) + B1 (30) + B2 (30).

An excel template has been shared and filled in with every node evaluations.

The evaluation results, clearly evidencing the best 6 students for each node, have then be shared with all the consortium partners. Each node also shared the available documents on the projects developed by the 6 shortlisted students, together with a short narrative evaluation of the student profile and her/his project.

In the final phase, every hosting university ranked the 6 finalists from each Country according to their preferences, which have been motivated and related to the programme agenda and its contents. In those cases where the same students are selected by different hosting universities, an agreement between HEIs have been found.

3. LOCAL MOBILITY PROGRAMMES

3.1 Italy

The mobility took place between 6-10 of May. The three students from Poland, UK and Spain first got to know each other on day 1.

On day 2 and 4 they visited the spaces interested by the proposed solutions, and reviewing the solutions developed by Italian students, with the aim of adding elements draining from their local learning experience in their OD&M training. Mobility students also presented, as a moment of peer learning, the solutions developed on their own challenges/contexts.

The exercise has been aimed at defining commonalities and differences with their local context and with the solutions prototyped in their learning experience (Spain: accessibility, User-centred co-design, Maker culture; UK: Public space and commons, urban regeneration, user-centred co-design, sustainability; Poland: Maker culture, web, coding, textronics), to inspire and influence Italian students and their ideas/prototypes.



Day 3 has been dedicated to the participation in the event “Erasmus4Curious” organised by Impact Hub Florence and INDIRE - National Agency for Lifelong Learning Education.

In day 5, mobility students participated to an interview for the evaluation of the experience, with LAMA. in the afternoon, they visited Florence to get inspiration from the context.

Activities

Day	Activity	Where	Who
5/5/19	Arriving in Florence	Florence.	

6/5/19	<p>9:30 – 13:00 Visit of DIDA</p> <p>13:00 – 14:30 Lunch</p> <p>14:30 – 16:30 Workshop: knowing each other, setting the objectives of the visit</p>	DIDA - Calenzano	LAMA and DIDA teams
7/5/19	<p>9:30 – 13:00 Visit of LAMA/IHF, FabLab Florence</p> <p>13:00 – 14:30 Lunch</p> <p>14:30 – 17:00 Visit of MT Presentation of solutions developed by the first 3 teams (MT) – presentation of UK, PL and SP solutions to Italian students</p>	MT - Florence	MT management LAMA Team Students of team 1,2,3
8/5/19	<p>9.30 - 18.00 Participation in the event</p> <p>“Erasmus4Curious”</p> <p>organised by Impact Hub Florence and INDIRE - National Agency for Lifelong Learning Education</p>	IHF - Florence	LAMA Team DIDA Team
9/5/19	<p>11:00 – 13:00 Visit of CSM</p> <p>13:00 – 14:00 Lunch</p> <p>14:00 – 16:30 Presentation of solutions developed by the 2 teams (Camper) - presentation of UK, PL and SP solutions to Italian students</p>	CSM - Poggibonsi	CSM Team, LAMA Team DIDA Team Students of team 4, 5
10/5/19	<p>9.30 - 13.00 Interviews with mobility students for project evaluation</p> <p>14:30 – 18:30 Free for visiting the city</p>	IHF - Florence	LAMA Team
11/5/19	Leaving Florence		

Each student participating received a certificate of participation.

3.2 UK

The three students from Poland, Italy and Spain got to know each other on day 1 facilitated by UAL student ambassadors.

The week focussed on Social Enterprise and Intellectual Property in a context of Open Design, Co and Participatory Design Practices. Through tours, design activities, and workshops the students will work in teams to develop enterprise propositions focused on OD&M activities.

Each student participating received a certificate of participation. Also, badges have been issued by UAL to international and national students participating in the Co-Design Jam.



Activities

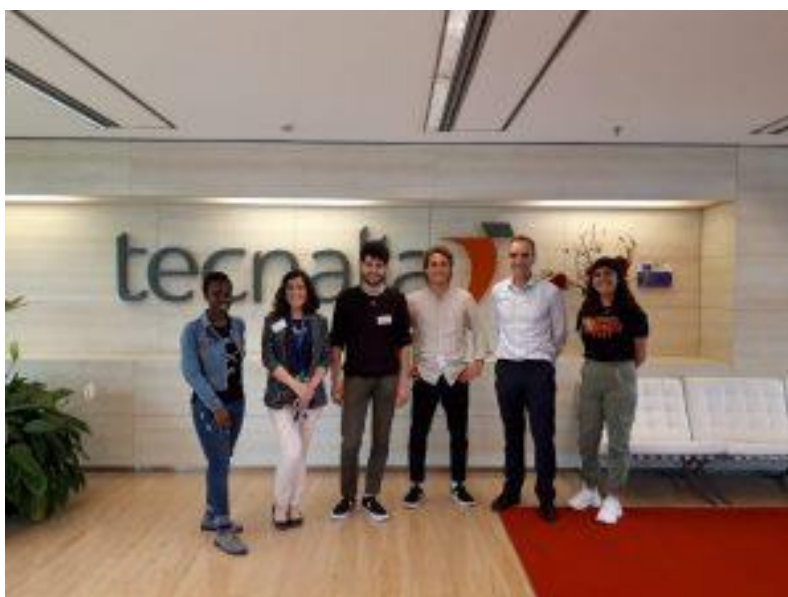
Day	Activity	Where	Who
5/5/19	Arriving in London	London Accommodation Recommended hostels to follow.	
6/5/19	NB. 6 th May is a public Holiday in the UK this will be the day to explore London. With nominated student ambassadors. 11:00	Design Museum	UAL Student Ambassadors

	<p>Students will meet at The Design Museum in Kensington to visit the Designer Maker exhibition and designers in residence.</p> <p>13:30 Lunch</p> <p>15:00 Student will take a short walk through Kensington to visit the Science Museum and Victoria and Albert Museum.</p> <p>17:00 Dinner</p>		
7/5/19	<p>10:00 – 13:00 Meet at Green Lab London. Meet and greet activities.</p> <p>13:00 – 14:30 Lunch</p> <p>14:30 – 16:30 Co-Design Jam Activities</p> <p>16:30 – 18:30 Intellectual property for open design and innovation workshop</p>	Green Lab	UAL Team Green Lab Team
8/5/19	<p>10:00 – 13:00 Co-Design Jam Activities</p> <p>13:00 – 14:00 Lunch</p> <p>14:00 – 15:30 Co-Design Jam Activities</p> <p>16:00 – 18:00 Pitching Social Enterprise Workshop</p>	Green Lab	UAL Team Green Lab Team
9/5/19	<p>10:00 – 13:00 Creative Attributes workshop</p> <p>13:00 – 14:00 Lunch</p>	Green Lab	UAL Team Green Lab Team

	14:00 – 16:00 Co-Design Jam Activities		
	17:00 – 19:00 Social innovation Safari: Studio Tours		
10/5/19	10:00 - 14:00 Plan your pitch 15:00 – 17:00 Pitching 17:00 – 21:00 Celebration	Central Saint Martins	UAL Team Green Lab Team
11/5/19	Leaving London		

3.3 Spain

The students of the OD & M Challenge in Deusto have learned about prototyping and accessible design; therefore, mobility has been focused on transferring to the students the experience of the exercise carried out in collaboration with Fekoor - Etxegoki; an association that manages a group of apartments that provide autonomy to people with reduced mobility.



During the week the students got to know the city of Bilbao and its transformation model, and they visited the most significant open work spaces in the city.

Each student participating received a certificate of participation.

Activities

Day	Activity	Where	Who
5/5/19 Sunday	Arrival in Bilbao.	Several options will be	Deusto OD&M Team

A knowledge Alliance between HEIs, makers and manufacturers to boost Open Design & Manufacturing in Europe.
Project Number: 575063-EPP-1-2016-1-IT-EPPKA2-KA

		<p>recommended to the students after the selection process.</p> <p>(First option: Accomodation in Deusto University Dorm)</p>	
6/5/19 Monday	<p>9:00 – 13:00 Visit to the University of Deusto and the Deusto Fablab (main venue of mobility).</p> <p>13:00 – 14:00 Lunch.</p> <p>14:00 – 17:00 Etxegoki Workshop Introduction to the project and presentation of the challenge. Brief summary of the activity developed in Deusto in relation to OD&M.</p>	<p>Deusto University / Deusto Fablab</p> <p>Deusto University / Deusto Fablab</p>	<p>Deusto OD&M Team / Deusto Design Research Group</p>
7/5/19 Tuesday	<p>9:00 – 11:00 Visit to Tecnalia Research Center.</p> <p>11:00 – 13:00 Visit to Etxegoki; a set of apartments equipped to provide autonomy to people with reduced mobility.</p> <p>13:00 – 14:00 Lunch.</p> <p>14:00 – 18:00 Inspiration session led by the participating students of the OD&M Challenge. The students of the University of Deusto will share the results obtained with the mobility students.</p>	<p>Tecnalia Facilites</p> <p>Etxegoki Facilities</p> <p>Deusto University / Deusto Fablab</p>	<p>Tecnalia OD&M Team</p> <p>Deusto OD&M Team / Fekoor</p> <p>Deusto OD&M Team / Deusto Design Research Group</p>
8/5/19 Wednesday	<p>9:00 – 13:00 Etxegoki Workshop Conceptualization and development.</p> <p>13:00 – 14:00 Lunch.</p>	<p>Deusto University / Deusto Fablab</p>	<p>Deusto OD&M Team / Deusto Design Research Group</p>

	From 14:00 Cultural visit. Including: Guggenheim Museum Espacio Open		
9/5/19 Thursday	Free day to visit Bilbao and Bilbao Area	Bilbao	--
10/5/19 Friday	9:00 – 13:00 Etxegoki Workshop Prototyping 13:00 – 14:00 Lunch 14:00 – 17:00 Workshop final results presentation	Deusto University / Deusto Fablab	Deusto OD&M Team / Deusto Design Research Group
11/5/19 Saturday	Leaving Bilbao		

3.4 Poland

Polish OD&M students during OD&M training acquired skills on coding, robot creation, IoT, soldering, sewing and textronics.

During Mobility week Polish and Mobility students worked on the creation of Smart Robot which will be a prototype of solution for one social challenge. Polish OD&M students taught Mobility students how to code, create robot, use sewing machine etc.

On day 2 and 3 they created robot prototype and visit revitalized places in Dąbrowa and Katowice.

On day 4 they visited Łódź where they will be able to customize their robots and see how revitalization of textile city looks like.

On day 5 they searched for “extra spark and historical perspective” for their robots on trip to Krakow.

On day 6 they finalized robots and present it in front of WSB audience.



Activities

Day	Activity	Where	Who
5/5/19 Sunday	Arriving in Katowice.	Katowice – Pyrzowice, and then Dąbrowa Górnicza or Katowice.	WSB University
6/5/19 Monday	<p>9:30 – 13:00 Visit at WSB University – meeting with Polish OD&M students – presentation of robots created by Polish OD&M students. Mobility students will also present the solutions developed on their own challenges.</p> <p>13:00 – 14:00 Lunch</p> <p>14:00 – 16:30 Workshop on Robotics – introduction – choosing main topic for mobility challenge. Mobility students will work with Polish OD&M students on creation of</p>	Dąbrowa Górnicza	WSB University

	one robot which will be solution for one social challenge – SMART CITY solution.		
7/5/19 Tuesday	<p>9:30 – 13:00 Visit at WSB University – meeting with Polish OD&M students – short presentation of SMART CLOTHES created by Polish OD&M students. First phase of robot creation.</p> <p>13:00 – 14:30 Lunch</p> <p>14:30 – 17:00 Visit at Śląskie Museum – familiarization with Upper Silesia Region tradition and history. Examples of revitalization of old mining area for most known culture place in Katowice.</p>	<p>Dąbrowa Górnicza and Katowice</p> <p>Free tickets on Tuesdays</p>	<p>WSB University</p>
8/5/19 Wednesday	<p>7:30 – 21:00 Visit in Łódź</p> <p>7:30-10.00 – transfer from Dąbrowa Górnicza to Łódź</p> <p>10:00 – 14.00 - Sewing and soldering workshop at TEXTILAB – preparation of elements for Smart robot.</p> <p>14.00-16.00 visit at technical university of Łódź IoT and Robotics laboratories.</p> <p>16:00-18.00 Visit at EC1 - a revitalized and expanded complex of the first power plant in Lodz. Now EC1 is a science center</p> <p>18.00-21.00 transfer from Łódź to Dąbrowa</p>	<p>Łódź</p>	<p>Fab Łódź Lab and WSB teams</p>
9/5/19 Thursday	Free day to visit Krakow	Krakow	WSB University
10/5/19 Friday	<p>9:30 – 13:00 Workshop on robotics – finalization of smart robot.</p>	Dąbrowa Górnicza	WSB University

	13:00 – 14:30 Lunch 14.30-16.30 Presentation of Smart Robot.		
11/5/19	Leaving Dąbrowa Górnicza		

Each student participating received a certificate of participation.

4. CONCLUSIONS

The short student mobility provided by the project has been an opportunity to work with students from other environments, and be confronted with other experiences with a “hand on” approach, in which students had the possibility to review and contribute to the prototypes developed locally by their peers.



The mobility has been aimed at defining commonalities and differences with their local context and with the solutions prototyped in their learning experience to inspire and influence both visiting and local students and their ideas.

The evaluation results of the mobility proved that it has been a success, which hopefully will be replicated in next years with bi-lateral agreement between the four universities participating in the project.