

Deliverable D4.7

Report on “Open-door” events 2

Project Acronym:	EXCELLABUST	
Grant Agreement number:	691980	
Project title:	Excelling LABUST in marine robotics	
Funding:	Horizon2020 Twinning	
Call:	H2020-TWINN-2015	
Type of action:	CSA	
Start date of project:	1 st January 2016	
Duration:	36 months	
Project website:	http://excellabust.fer.hr/	
Delivery date:		
Version:	1.0	
Lead participant	UL	
Dissemination level:		
PU	Public	X
CO	Confidential, only for members of the consortium (including the Commission Services)	



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DELIVERABLE DATA SHEET

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Deliverable summary
<p>The document reports the “open-door” events by the project partners in the period from July 2017 to December 2018.</p>



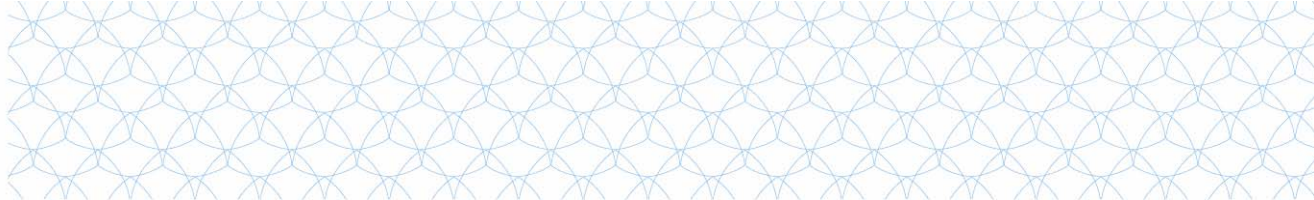
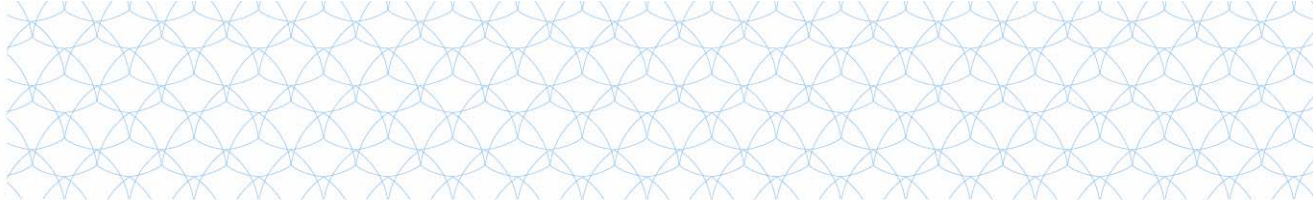


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INTRODUCTION

The Open-door events are dedicated to ensuring proper education-based dissemination for bringing marine robotics research closer to elementary and high-school children. All partners are experienced in hosting this type of activities, and have organised a number of Open-door events, where school children from different parts of Croatia, Italy, Ireland and Spain were invited to visit research labs and participate in outreach activities, such as demonstration of equipment and workshops.

These events significantly raise awareness of marine robotics research, and they are ensuring long-term sustainability of the marine robotics research area in Croatia, as well as in partner countries.



“OPEN-DOOR” EVENTS

Open-door events that took place from July 2017 to December 2018 are listed in Table 1. Various events were organised in Croatia, Ireland and Spain, targeting elementary school children, high school students and general public.

Table 1 Open-door events during M19- M36 period.

#	EVENT	DATE	LOCATION	PARTICIPANTS
1.	Open Days 2017 at University Of Limerick	19-20 Oct2017	Limerick, Ireland	UL
2.	LABUST at University of Zagreb Fair 2017	23-25 Nov 2017	Zagreb, Croatia	UNIZG-FER
3.	LABUST at Exhibition of Young Croatian Creators	26 Jan 2018	Zagreb, Croatia	UNIZG-FER
4.	The Polytechnic School of the University of Girona hosted First® Lego® League 2018	31 Jan 2018	Girona, Spain	UdG
5.	LABUST at the Festival of Science 2018	20 Apr 2018	Zagreb, Croatia	UNIZG-FER
6.	LABUST members at PhD Day	10 May 2018	Zagreb, Croatia	UNIZG-FER
7.	Open Days 2018 at University of Limerick	18-19 Oct 2018	Limerick, Ireland	UL
8.	Participation in the European robotics week 2018 under the robotics@fer.hr brand	22-24 Nov 2018	Zagreb, Croatia	UNIZG-FER
9.	LABUST at the University of Zagreb Fair	22-24 Nov 2018	Zagreb, Croatia	UNIZG-FER
10.	Open Door Day 2018 at UNIZG-FER	24 Nov 2018	Zagreb, Croatia	UNIZG-FER

1. OPEN DAYS 2017 AT UNIVERSITY OF LIMERICK, 19th-20th OCTOBER 2017



The University of Limerick (UL) hosted an Open Days 2017 event on the 19th and 20th of October 2017. This two-day event allowed a number of visitors (prospective students, their parents and teachers) to learn about the UL experience, to become familiar with available courses, to visit research labs and to talk to the current students, lecturers and researchers.

The MMRRC researchers presented ongoing research activities, including the EXCELLABUST project, and demonstrated the application of virtual reality (VR) headset as a user interaction interface to improve situation awareness during mission execution.

2. LABUST AT UNIVERSITY OF ZAGREB FAIR, 23rd – 25th NOVEMBER 2017



robotics and underwater systems.

LABUST participated at University of Zagreb Fair 2017 as part of the Faculty of electrical engineering and computing (FER) exhibition team. University of Zagreb Fair 2017 was held from 23rd to 25th November. The event took place at Student Centre Zagreb. Nadir Kapetanović and Matej Celega presented LABUST current and collaborative projects with other groups from FER. The event had a high attendance of undergraduates, high school students and other interested parties. It was a great opportunity to attract young people in world of science, particularly in

3. LABUST PARTICIPATED AT EXHIBITION OF YOUNG CROATIAN CREATORS, 26th JANUARY 2018



LABUST members Ivana Mikolić, Nadir Kapetanović, and Matej Celega participated in the exhibition of Young Croatian Creators held at the Faculty of Electrical Engineering and Computing, University of Zagreb on 26th January 2018. They presented ongoing research activities and explained the application of an aPad, autonomous marine surface vehicle. The event was organised as part of the national project “Hrvatska stvara” (Croatia Creates), aimed to increase the interest of young people for technology and innovation. The main objective of the project is to empower children and youth through education.

4. THE POLYTECHNIC SCHOOL AT THE UNIVERSITY OF GIRONA HOSTED FIRST® LEGO® LEAGUE 2018



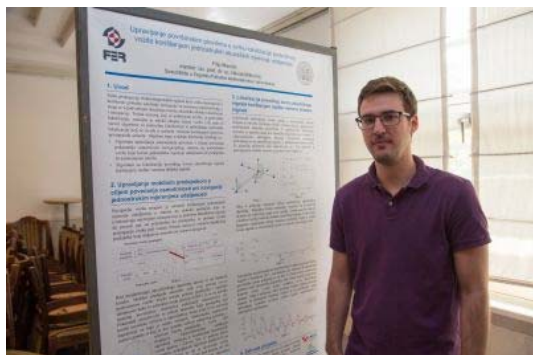
FIRST® LEGO® LEAGUE (FLL) is an international program that promotes the interest for the science and technology of youngsters between 10 and 16 years old. They are invited to have fun and get involved in technology through a yearly challenge robotics competition. In the contest, they have to show their abilities to perform as a team, to innovate and to solve real problems of the society. The 2018 edition challenge was related to the water cycle. Girona edition (31st of January 2018) counted on 37 teams (around 350 students) and more than 100 volunteers. The event was a great success and 600+ attendees enjoyed it.

5. LABUST PARTICIPATED AT THE FESTIVAL OF SCIENCE IN ZAGREB ON 20th APRIL 2018



LABUST, together with the Laboratory for Robotics and Intelligent Control Systems - LARICS and the Laboratory for Autonomous Systems and Mobile Robots - LAMOR, presented robotics research group Robotics@fer.hr at the Festival of Science, on April 20th, 2018 at the Technical Museum in Zagreb. Elementary and high school students from Zagreb had a chance to see and learn something about marine robotics and exploration of the underwater world. aPad, which is being developed by LABUST and partners, was showcased as an example of a modular marine vehicle used for such purposes.

6. LABUST MEMBERS PARTICIPATED AT PHD DAY AT UNIZG-FER, 10th MAY 2018



range acoustic measurements”.

On 10th May 2018, LABUST members Đula Nađ and Filip Mandić participated at the Annual PhD Day at the Faculty of Electrical Engineering and Computing University of Zagreb (UNIZG-FER). PhD Day is an annual event at UNIZG-FER that enables PhD students to broaden their research and career perspectives. Đula Nađ presented his rewarded doctorate theses on “Guidance and control of autonomous underwater agents with acoustically aided navigation” and Filip Mandić presented current results of his doctoral research on dissertation topic “Control of surface marine vessels for underwater vehicle localization using single

7. OPEN DAYS 2018 AT UNIVERSITY OF LIMERICK, 18-19th OCTOBER 2018



designed for operations in challenging conditions, advanced human-machine interface (HMI) (mixed reality) for interaction with heterogeneous robotic vehicles, and real-time reconstruction of subsea structures. The next Open days will be held in January 2019.

The University of Limerick (UL) hosted the Open Days on the 18th and 19th October 2018. We had more than 12,000 visitors to our campus what was the biggest UL Open Days ever. The event aimed at prospective students, their parents, and teachers to learn about the UL experience, to become familiar with available courses, research facilities and to talk to the current students, lecturers and researchers.

The CRIS team presented ongoing research activities, including the EXCELLABUST project, UL-made inspection class remote operated vehicle (I-ROV)

8. PARTICIPATION IN THE EUROPEAN ROBOTICS WEEK 2018 UNDER THE robotics@fer.hr brand



LABUST took part in ERW 2018 under the robotics@fer.hr brand, together with our colleagues from LARICS and LAMOR! The teams participated in the University of Zagreb Fair (22-24 November 2018) and they presented their work, equipment, projects, as well as opportunities for potential undergraduate, graduate and PhD students, researchers, teachers etc.



9. LABUST at the University of Zagreb Fair, 22nd - 24th November 2018



LABUST participated at the University of Zagreb Fair 2018 as part of the Faculty of Electrical Engineering and Computing. More than 30 other faculties presented their research during the fair, which took place at Student Centre Zagreb from 22nd November until 24th November 2018. The LABUST team members presented current projects including collaborative projects with other groups from FER. This year the visitors' pool was setup where they could operate LABUST vehicles. The event had high attendance of high school students, undergraduates, and other interested parties. It was a great opportunity to attract young people into the world of science, particularly

in robotics and underwater systems.

10. OPEN DOOR DAY 2018 AT UNIZG-FER, 24TH NOVEMBER 2018



The University of Zagreb, Faculty of Electrical Engineering and Computing (UNIZG-FER) hosted the Open Door Day on 24th November 2018. Igor Kvasić, new member of LABUST team, presented ongoing research activities and equipment. The event aimed at prospective students and their teachers to learn about the UNIZG-FER studies programmes, to become familiar with available research facilities and to talk to the current students, lecturers and researchers.