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Project:	Network of Competence on Internet of Things [NEON]
Project ID:	618942-EPP-1-2020-1-AT-EPPKA2-CBHE-JP
Work Package 7:	Dissemination and exploitation
Title:	D7.4 Report on open events to reach the community at-large and disseminate the results at ICT conferences
Lead Organization:	UCU
Participating Organizations:	UC3M, UCU, UDR, UK, UNC, UNMDP, UNS
Editors:	[insert names of editors]
Contributors:	D. Carrica, P. Donato

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<tr><td>Type</td><td>☐Teaching material ☐Event
☐Learning material ☒Report
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<tr><td>Date</td><td>27/12/2021</td></tr>
<tr><td>Language</td><td>English</td></tr>
<tr><td>Target groups</td><td colspan="2">☒Teaching staff
☒Students
☒ Trainees
☐ Administrative staff
☐ Technical staff
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<tr><td>Task</td><td colspan="2">T7.4 Organize an annual open event outreaching a wide audience that includes public authorities, industry, students, pupils and non-expert people
T7.9 Participate in an event of dissemination of project results</td></tr>
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Revision History				
Version	Date	Author(s)	Organization(s)	Brief description of change
1	20/12/2021	Daniel Carrica, P. Donato	UNMDP	

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1. Introduction

One of the purposes of the NEON project is the presentation and promotion of the main aspects of the project during open days at each university. The NEON project stated that this had to be accomplishing firstly by organising an open event (MS7.8) that involved the community on the study of ICTs with the participation of a renowned keynote speaker in UNMDP, planned for the ninth month of the schedule.

In effect, the 2021 NEON Open Event, organized in UNMDP, was mainly intended for students, pupils, industry and society at large along with other stakeholders such as the Chambers of Commerce, from Argentina, Uruguay, Spain and Austria, and also open for all the world.

There was a previous experience intended to prepare this 2021 NEON Open Event and also to meet all people from Mar del Plata and Tandil who are related to IoT. Mar del Plata and Tandil are Argentinean cities separated 170 km. This previous experience was held in July 2021 with a great success and served as a first approach to meet IoT people.

2. Objectives of the Deliverable

To report the characteristics and the conclusions of the 2021 NEON Open Event organized by the UNMDP.

3. Characteristics of the Open Event

The main characteristics of the 2021 NEON Open Event are the following:

- Open Event Date: October 21, 2021

- Type (virtual or face-to-face): Virtual

- Technology Platforms:
    - Zoom webinar meeting (English & Spanish)
    - YouTube on-line (English & Spanish)
    - YouTube current available (English & Spanish).

- Quantity of inscriptions: 180 inscriptions

- Origin of the inscriptions:
    - 40 from UNMDP
    - 20 from UCU
    - 14 from UdelaR
    - 11 from UNS
    - 10 from UNC
    - 4 from UK
    - 11 from other universities
    - 55 from companies
    - 14 from unknown origin

- IoT knowing of the inscriptions:
    - 88 voted yes

- 80 voted superficially
- 11 voted no

- Quantity of simultaneous attendees:
  - Zoom: 70 to 75 simultaneously
  - Youtube: 15 to 20 simultaneously
  - Total: 85 to 95 attendees simultaneously

- Presenters:
  - 1 academic from UK who talked about NEON project
  - 1 academic from UNS who talked about Inernational Training Survey and IoT traininig
  - 5 entrepreneurs from Deitres (Mar del Plata), from EYCON (Bahía Blanca), from INCUTEX (Córdoba), from ALASSIO (Montevideo) and from ALENET (Montevideo) who talked about the needs of IoT companies about human resources and training
  - 7 academics from UCU, UNMDP, UNC, UNS and UdelaR who talked about IoT labs and new teaching technologies
  - 1 renowned keynote speaker about IoT.

- Program: See Table 1.

9.00	Opening: D. Carrica - U Nacional de Mar del Plata (Argentina) NEON Presentation: A. Tonello – U Klagenfurt (Austria)
9.15	Results from Survey: J. Cousseau – UNS (Argentina)
9.45	Companies Panel discussion “How should training be to enter the IoT revolution?”: B. Martínez Sáez - Deitres (Mar del Plata, Argentina) M. Pascualín - EYCON (Bahía Blanca, Argentina) P. Manzano - INCUTEX (Córdoba, Argentina) F. Estévez - ALASSIO (Montevideo, Uruguay) A. Derregibus - ALENET (Montevideo, Uruguay)
10.50	Academics Panel discussion “How should training be to enter the IoT revolution?”: A. Arnaud - U Católica Uruguay (Uruguay) R. Rivera/J. Castiñeira/A. Uriz - U Nacional de Mar del Plata (Arg) J. Finochietto - U Nacional de Córdoba (Argentina) J. Cousseau - U Nacional del Sur (Argentina) L. Steinfeld Volpe - U de la República (Uruguay)
12.00	Lecture: “Cyberphysical and Internet-of-Things Systems: Educational and skill requirements” by Dimitrios Serpanos (University of Patras, Greece)
13.30	Event closing

Table 1. Program of the 2021 NEON Open Event

In the first block Dr Carrica welcomed the attendees, described the characteristics and the program of the meeting. Then, he gave the basic information to enjoy the event from the different platforms offered. Dr. Tonello developed the main objectives of the Erasmus+ NEON project and the importance of the project for the universities of Argentina and Uruguay. He in particular he explained the so-called "Competence Network of Competences on Internet of Things". He also described the

milestones already achieved by the project. Dr Cousseau presented the results of the survey conducted to identify the Internet of Things market needs in the Latin American region, more specifically in Argentina and Uruguay. This survey evidences a relevant interest in IoT training from students and companies.

In the second block, B. Martínez Sáez, M. Pascualín, P. Manzano, F. Estévez and A. Derregibus, entrepreneurs from different companies from Argentina and Uruguay, more specifically from the cities where the universities participating in the NEON project are located, presented their projects. These oneas evidenced the need for training on IoT.

The third block was dedicated to universities. A. Arnaud (UCU), R. Rivera/J. Castiñeira/A. Uriz (UNMDP), J. Finochietto (UNC), J. Cousseau (UNS) and L. Steinfeld Volpe (UdelaR) presented their educational proposal to be developed in the framework of NEON, including courses and labs on IoT.

Finally, the invited lecturer talked about Cyberphysical and Internet-of-Things Systems: Educational and skill requirements. He first talked about the changing world, the changing cities and the solutions through smart cities and circular cities, and the need oh a holistic approach. Then he continued with smart cities, its challenges, the urban wireless networks, the social computing, cybersecurity problems. Then he explained the characteristics of cybephysical systems, of IoT systems, of Industrial IoT systems. H detailed the problem of Safety anSecurity en Cyberohysical ystems, Finally he asked questions about the later subjects and about programs of studies and curriculas related of IoT.

- Diffusion of the Open Event:
  - Flyers: in Figs. 1 and 2. 9

Fig. 1. Flyer, 2021 NEON Open Event, English.

Fig. 2. Flyer, 2021 NEON Open Event, Spanish.

- Press release:

“The UNMDP organizes, within the framework of the NEON project of the Erasmus + program of the European Union, the First NEON Open Meeting whose theme is "How to train ourselves to enter the Internet of Things (IoT) revolution?"

On the one hand, the IoT revolution will be presented, which consists of the massive interconnection and control of objects or systems in order to operate them remotely to improve the quality of life. Examples of this are: home automation (IoT at home), remote patient monitoring, smart and remote energy management, smart agriculture, smart cities, among others, although practically everything in our society can become an IoT process. On the other hand, the challenges and opportunities in terms of training in IoT will be analyzed, both in companies and in universities.

The program includes brief interventions by businessmen and academics as well as a final lecture by Professor Dimitrios Serpanos, a recognized world specialist in IoT.

The Meeting will take place on Thursday, October 21, 2021, virtually, between 9:00 a.m. and 1:30 p.m. Access to the meeting will be free and free. Registration must be done at link: bit.ly/neonregistration“

4. Conclusions

- Open Event Date: October 21, 2021, 9.00 to 13.30hrs (Argentina-Uruguay Time)
- Type (virtual or face-to-face): Virtual
- Technology Platforms:
    - Zoom webinar meeting (English & Spanish)
    - YouTube on-line (English & Spanish)
    - YouTube current available (English & Spanish).
- Quantity of inscriptions: 180 inscriptions
- Quantity of simultaneous attendees:
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- Presenters:
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    - 7 academics from UCU, UNMDP, UNC, UNS and UdelaR who talked about IoT labs and new teaching technologies
    - 1 renowned keynote speaker about IoT.

5. References

NEON project proposal. (2020).

6. Annexes

6.1. Links to Youtube and Zoom videos

- Zoom webinar meeting October 21st 2021: https://us02web.zoom.us/j/81605220466?pwd=RmYxNFR2Q05VWnN1eTErTHR6cEIrUT09
- Youtube on-line, English:
- Youtube on-line, Spanish:
- Yotube current available, English: https://youtu.be/jF3VUKwbW00
- Youtube current available, Spanish: https://youtu.be/S-982o3-0Lk

6.2. Brief CV of Dimitrios Serpanos

Dimitrios Serpanos is President of CTI and Professor of Electrical and Computer Engineering at the University of Patras. He holds a PhD in Computer Science from Princeton University (1990) and an Engineering Diploma in Computer Engineering and Informatics from the University of Patras (1985). He has served as President of the University of Western Greece (2010-2013), and Director of the Industrial Systems Institute/ATHENA (2008-2013 & 2016-2021). He has been Principal Scientist at Qatar Computing Research Institute (Qatar Foundation) (2013-2016), faculty at the University of Crete and Research Faculty at ICS/FORTH (1996-2000) as well as Research Staff Member (1990-1996). His research interests include embedded and cyber-physical systems, industrial systems, cybersecurity and AI/ML in cybersecurity and secure system design. He is author or co-author of more than 35 journal papers, more than 100 conference papers, 2 US patents and 6 inventions. He is a Senior Member of IEEE, where he has served as member of the Board of Governors of the Computer Society (2017-2020), and the BoG's Treasurer (2019) and Secretary (2020). Serpanos is the Chair of the ARTEMIS Scientific Council and the Chair of the IEEE CS STC on Smart and Circular Cities.

6.3. Previous experience: Encuentro IoT MDP-Tandil 2021

Date: 13/07/2021

Virtual

- Technology Platforms:
  - Zoom webinar meeting (Spanish)
  - Youtube current available (Spanish): https://youtu.be/zx604suM7BA.

- Quantity of inscriptions: 122 inscriptions

- Quantity of simultaneous attendees:
  - Zoom: 60 to 65 simultaneously
- Program: see Table 2.

Programa Encuentro IoT MDP-Tandil 2021			
15:00	Inauguración	Daniel Carrica (UNMDP), José Marone (UNICEN)	
15:05	NEON	Daniel Carrica	carrica@fi.mdp.edu.ar

15:10	Deitres (MDP)	Bernardo Martinez Saenz	bmartinez@deitres.com.ar
15:15	Isistan (Tandil)	Cristian Mateos	cristian.mateos@isistan.unicen.edu.ar
15:20	Q4Tech (Tandil)	Leandro J. Aguierre	laguierre@redimec.com.ar
15:25	Redimec /Tandil)	Leandro J. Aguierre	laguierre@redimec.com.ar
15:30	Tech Inside/Lambda Domotica (MDP)	Guillermo Mandagaran	guillermo.m@lambdadomotica.com.ar
15:35	Lyrtron (MDP)	Gustavo Uicich	guicich@lyrtron.com.ar
15:40	Las Brusquitas Cluster (MDP)	Rodrigo Espinoza	lasbrusquitasok@gmail.com
15:45	ICYTE (MDP)	Raúl Rivera	rrivera@fi.mdp.edu.ar
15:50	Delsat (MDP)	Darío Baliña	balinad@itdelsat.com.ar
16:00	INTIA (Tandil) + UFASTA (MDP)	Elías Todorovich	elias.todorovich@gmail.com
16:05	Digimage Electrónica (MDP)	Oscar Torrecilla	oatdigimage@yahoo.com.ar
16:10	Making Sense (MDP)	Ignacio Caldentey	ncaldentey@makingsense.com
16:15	ICYTE (MDP)	Jorge Castiñeira y Alejandro Uriz	ajuriz@fi.mdp.edu.ar
16:20	Uniagro (Tandil)	Juan M Toloza	jmt977@gmail.com
16:25	Innova Space (MDP)	Ignacio Pintos/Alejandro Cordero	acordero@innova-space.com
16:30	Grupo Margen (MDP)	Lucas Monteiro	lmonteiro@makerelectronica.com.ar
16:35	Globant (Tandil)	Juan Pablo Pizarro	juan.pizarro@globant.com
16:40	Ponce Automations (MDP)	Tomás Allegrini	t.allegrini@ponceag.com
16:45	INTIA (Tandil)	Jose Marone	josemarone@gmail.com

Table 2. Program of the Encuentro IoT Mar del Plata-Tandil 2021.

- Flyers: Figs. 3 an2 4.

Fig. 3. Flyer 1 of the Encuentro IoT Mar del Plata-Tandil, 2021.

Fig. 4. Flyers 2, 3 nd 4 of the Encuentro IoT Mar del Plata-Tandil, 2021.

- Press release:

"La UNMDP organiza, en el marco del proyecto NEON del programa Erasmus+ de la Unión Europea, el "Encuentro IoT MDP-Tandil 2021". El evento es organizado también por ATICMA (Asociación TICs de MDP), CEPIT (Cámara de empresas del polo informático Tandil) y la Facultad de Ciencias Exactas de la UNICEN (Tandil). La abreviatura IoT se refiere a la versión inglesa de Internet de las Cosas, que trata la interconexión y control de objetos o de sistemas de manera de operarlos en forma remota para mejorar la calidad de vida. Ejemplos de esto son la domótica (IoT en el hogar), monitoreo remoto de pacientes, manejo inteligente y remoto de la energía, agricultura inteligente, ciudades inteligentes, entre otros, aunque prácticamente todo en nuestra sociedad puede convertirse en un proceso IoT.

El Encuentro se llevará a cabo el martes 13 de julio de 2021, en forma virtual, entre las 15 y las 17hrs. y será un evento donde 15 empresas y 5 grupos académicos de MDP y Tandil presentarán sus avances en IoT. El acceso al encuentro es libre y gratuito. La inscripción al mismo debe realizarse en el link: https://forms.gle/jgu3qKLgv9VVRVVn9"