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PUSE Multiplier Event Report – Experience Workshop, Finland

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Poly-Universe in School Education (PUSE)

Erasmus+ Project

REPORT by Experience Workshop, FINLAND

by Nóra Somlyódy and Kristóf Fenyvesi

Experience Workshop ay

Contact: info@experienceworkshop.org



Project Coordinator:

Poly-Universe Ltd., Hungary

Partners:

Experience Workshop ay, Finland

Fazekas Mihály Practicing Primary School and Grammar School, Hungary

Nafarroako Ikastolen Elkartea, Spain

NetCoGame Gameful Living Research Center, Hungary

Základná škola Gergelya, Slovakia

1. Summary PUSE – Erasmus+ Poly-Universe in School Education multiplication event

On 6-7 June 2019, Experience Workshop's two-day-Erasmus+ Poly-Universe in School Education multiplication event at the University of Jyväskylä marked the endpoint of two years of research and educational development of the Hungarian Poly-Universe tool in education.

Experience Workshop's goal was to invite educators and students of education and related disciplines to closer examine the PUSE project and its results, and to give inspiring practical exercises as well. Fifty participants received a set of the Poly-Universe toolkit and a copy of the PUSE methodology book. The program of the closing event largely concentrated on presenting the professional results and the achieved impact of the project and the practical use of the toolkit to ensure the sustainability of the project activities.

Within the frameworks of the workshop entitled „Multidisciplinary Mathematics Learning with the Poly-Universe Visual Experience Toolkit“ we gave insights into the art of János Saxon-Szász, the origins of the Poly-Universe toolkit and gave large space to the experiences of teachers who participated in the PUSE project. Participants had the possibility to gain experiences in the versatility of the toolkit as a multidisciplinary teaching aid, such as free play, geometry and measurement, geometry and drawing, composition and building.

The Poly-Universe Methodology Academy for STEM teachers with Nóra Somlyódy and Matias Kaukolinna, which took place on the 6th and the 7th of June at the University of Jyväskylä, offered the possibility to get acquainted with the PUSE toolkit and methodology in an open form, according to individual professional expectations.

The events took place in the scientific collaboration with the largest STEM-teacher meet-up of Finland, the LUMA Days in Jyväskylä, providing the opportunity to gain the widest possible visibility for PUSE Erasmus+ efforts. Professor Zsolt Lavicza's (Johannes Kepler University-Linz) scientific lecture put Experience Workshop's Poly-Universe activities into a broad, global scientific and educational context of STEAM education.

2. PUSE Multiplier program, 6-7 June, University of Jyväskylä

Thursday, 6.6.2019, 08-16.00

University of Jyväskylä, Main Building “C”, main hall

POLY-UNIVERSE METHODOLOGY ACADEMY for STEM TEACHERS with Nóra Somlyódy and Matias Kaukolinna

Friday, 7.6.2019, 08.00 –15.00

University of Jyväskylä, Department of Physics, FYS2

POLY-UNIVERSE METHODOLOGY ACADEMY for STEM TEACHERS with Kristóf Fenyvesi, Nóra Somlyódy and Matias Kaukolinna

Friday, 7.6.2019, 13.00 –14.30

Department of Physics, FYS3

Multidisciplinary Mathematics Learning with the Poly-Universe Visual Experience Toolkit

Nóra Somlyódy, Kristóf Fenyvesi: Introduction

Merja Sinnemäki, Leena Kuorikoski: Multidisciplinary teaching in practice

Merja Sinnemäki, Leena Kuorikoski: Poly-Universe in math and arts education - workshop

3. Participants

The participants' list of Experience Workshop's PUSE Multiplier event was signed by 53 individuals, who represent 25 educational institutions. 3 daycare centers, 8 elementary schools, 3 high schools, 4 universities, 6 other educational centers and 1 educational expert company was represented on the multiplier event. The educational expert company is one of the three market-leading companies selling educational tools to Finnish schools (Tevella oy), which possibly opens new doors for the PUSE toolkit in Finland.

Nr / institution	daycare	elementary	high school	university	other educational centers	Educational expert company	total
individual participants	7	11	5	20	9	1	53
institutions	3	8	3	4	6	1	25

4. Dissemination

4.1 PUSE Multiplier event news on Experience Workshop's own website

PUSE – Erasmus+ Poly-Universe in School Education multiplication event

Posted on *Tuesday June 11, 2019*

<http://www.elmenymuhely.hu/puse-erasmus-poly-universe-in-school-education-multiplication-event/?lang=en>

Multiplication event of the “Poly-Universe in School Education” Erasmus+ project

Posted on *Friday May 3, 2019*

<http://www.elmenymuhely.hu/multiplication-event-of-the-poly-universe-in-school-education-erasmus-project/?lang=en>

4.2 PUSE News on Experience Workshop's Facebook page

12.06.

<https://www.facebook.com/experienceworkshop.math.art/posts/2375519149178751>

6.6.

<https://www.facebook.com/experienceworkshop.math.art/posts/2365142276883105>

5.6.

<https://www.facebook.com/experienceworkshop.math.art/posts/2365180576879275>

4.3. PUSE project information shared in conference talks by Dr. Kristóf Fenyvesi

19 April, 2019: Kyoto University, Japan: Introduction of PUSE results and workshop by Dr. Kristóf Fenyvesi. Nr. of participants: 20.

24 May, 2019: Eszterházy Károly University-Eger, Hungary: Introduction of PUSE results by Dr. Kristóf Fenyvesi. Nr. of participants: 100.

27 June, 2019 Beijing Capital University, China, Teacher Development event: Introduction of PUSE by Dr. Kristóf Fenyvesi. Nr. of participants: 20.

30 June, 2019 Beijing Normal University, CTRAS Congress, China: Keynote talk, including PUSE information by Dr. Kristóf Fenyvesi. Nr. of participants: 200.

5. Future plans

- Experience Workshop will organize teacher training courses in PUSE methodology
- we'll continue the discussion about the PUSE toolkit entering the Finnish school supply offers
- PUSE results became part of Experience Workshop's portfolio and will be implemented in our school organization development and teacher training programs and outreach events.
- we consider the possibility to translate the PUSE methodology into Finnish