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MAKERSPACES

IN SCHOOLS

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MAKERSPACES GUIDELINES

- ▶ EUN's Interactive Classroom Working Group
- ▶ Italy, Czech Republic, Switzerland, Belgium, Turkey, Ireland, Luxembourg, Portugal, Austria
- ▶ Case studies: 16 schools
- ▶ Raise awareness for makerspaces and provide orientation to education organisations and institutions



WHAT ARE MAKERSPACES?

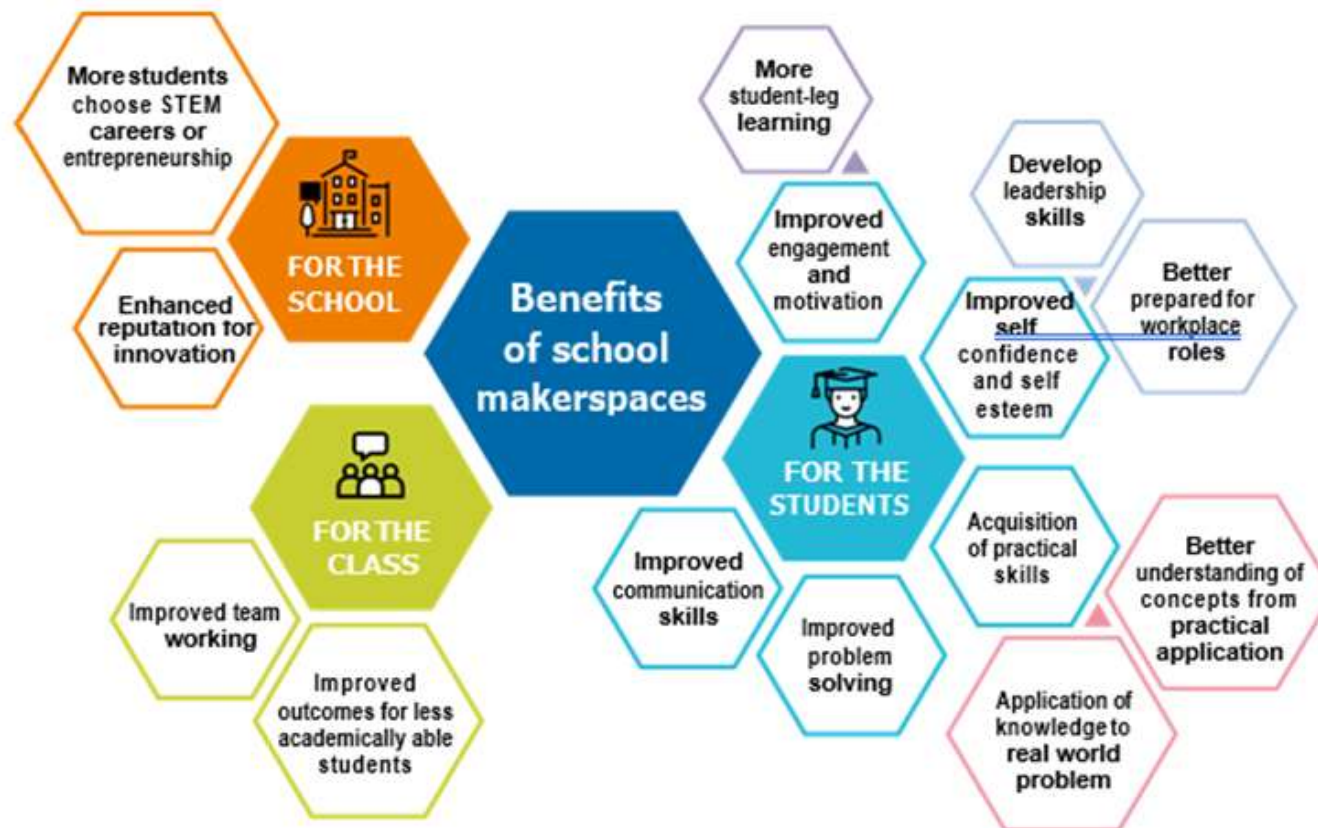
- ▶ Physical space
- ▶ Collaborative work
- ▶ Schools
- ▶ Creativity and innovation
- ▶ Tinkering and making





WHY MAKERSPACES?

- ▶ What we learned from the case studies:





WHY MAKERSPACES?

- ▶ What we learned from the case studies:
 - For **students**: creativity, communication, problem-solving
 - For the **class**: collaboration, teamwork, multidisciplinary work
 - For the **school**: innovation, leadership, inclusion





MAKERSPACES IN POLICY

- ▶ Alignment between national education goals and aim of makerspaces
 - Promote vocational training
 - Develop 21st century skills of students
 - Foster digital literacy and computational thinking
 - Integrate STEAM approach into education
 - Innovative teaching practices





FUNDING OF MAKERSPACES

- ▶ School resources
- ▶ National Ministries
- ▶ Local Regional Aid
- ▶ EU Project Funding
- ▶ Industry donations and/or sponsorship
- ▶ School Fundraising activities
- ▶ Charitable Foundations Grants and Prizes



WHY MAKERSPACES?

Makerspaces...

“...prepare students for their future careers and for life in the 21st century; educate students to be active citizens in a changing world where digital technology will play a bigger and bigger role and will influence different aspects of their lives. Students have to understand how technology works, but they also need to be pro-active, responsible, to have communication and collaboration skills”

Headmaster of Dr Edvard Benes school (Czech Republic)



VIRTUAL STUDY VISIT TO MAKERSPACES IN SCHOOLS AROUND EUROPE

- ▶ **Bert Galle & Frederik Wylin** (VTI Menen - Belgium)
- ▶ **Manuela Pattarini** (Istituto Comprensivo Lucio Fontana - Italy)
- ▶ **Pedro Correia** (Agrupamento de Escolas de Freixo - Portugal)
- ▶ **Claudia Bücheli** (Baar Sekundarschule Sternmatt - Switzerland)



PANEL DISCUSSION: MAKERSPACES IN SCHOOLS

- ▶ **Lorenzo Guasti (INDIRE - Italy)**
- ▶ **Stephanie Burton (Hep Vaud - Switzerland)**
- ▶ **Dr. Riina Vuorikari (European Commission, Joint Research Centre)**

THANK YOU

