#### **INNOVATIVE 3D PRINTING**

#### **APPROACHES IN THE CLASSROOM**

"Research, Innovation and Entrepreneurship: A new Agenda for the enhancement of structural competitiveness, 26, 7 Nov 2018"

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# **3D** Printer



School: 1<sup>st</sup> Vrilissia Junior High School Printer: Ultimaker 2+ Printing Software: Ultimaker Cura 3.6 Offered by GFOSS for 1 year

#### Actions

- Supporting the subject of ICT
  - Supporting other projects (i.e ecomobility, F1 in schools, etc)
  - Interdisciplinary projects







### F1 in Schools



#### Ecomobility





UM2\_Platia Analipseos 🖋

# Psiloritis: The Divine Mountain



# **Interdisciplinary Projects**

Copy of shield of ac

- The shield of Achilles
- CCAP



#### Conclusions

- Thre mensional printing and scanning technologies are now mature and econical enough to be used at school.
  - r ts come in contact with manufacturing methodologies through a mising field, such as 3d printing
- They realized that three-dimensional printing is used and will be used in the ruture in many areas of human activity.
- They developed three-dimensional design and were particularly pleased when their creations were printed.
- 3D printing can be used to enhance the teaching of all learning objects, literacy, science, ICT, art, etc
- The implementation of cross-curricular programs has demonstrated the increasing interest of participating students in all involved subjects, the ICT, history, ancient Greek, school programs etc.
  - Fostering of interest was much greater for weak students in all involved subjects. use of 3D technologies can enhance the quality of the teaching subjects, the student' interest in them and the acquisition of skills such as: problem solving, digital state teamwork, communication with classmates, learning to learn etc., skills that an ecessary to improve pupil personality and education

# Thank you for your attention

