ABOUT UMI-Sci-Ed

The UMI-Sci-Ed project enhances the attractiveness and inclusiveness of science education and careers for young people through the use of the latest technologies. It puts **Ubiquitous and Mobile Computing and the Internet of Things (UMI)** into practice in learning environments and creates innovative science education programmes.

UMI-Sci-Ed aims to empower young people to think creatively, apply new knowledge in an effective way and become continuously competitive in a highly demanding working environment.

With UMI online you can....

- Access research results, reports and the latest news from UMI
- Join UMI Communities of Practice
- Find projects developed by students involved in UMI
- Discover learning resources and training scenarios
- Access training, peer learning and a mentoring service
- Learn about products such as the UDOO-EDU kit

#BeUMIqueBeSmart

Partners

Computer Technology Institute and Press "Diophantus" (CTI)
http://cti.gr

Cork Institute of Technology (CIT)
http://cit.ie

University of Helsinki (UH)
http://helsinki.fi

Norwegian University of Science and Technology (NTNU)
http://ntnu.edu

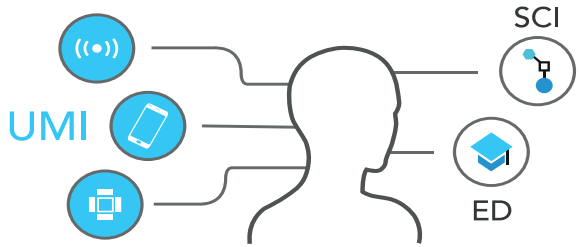
University of Pisa (UNIPI)
http://unipi.it

Consortium Ubiquitous Technologies (CUBIT)
http://cubitlab.com

ALL DIGITAL (AD)
http://all-digital.org

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement no. 710583

#UMI_Sci_Ed



Exploiting
Ubiquitous Computing,
Mobile Computing
and the **I**nternet of Things
to promote
Science **Ed**ucation

be UMIque, be Smart

http://umi-sci-ed.eu

Who is UMI for?

- Teachers, educators, youth workers students and learners
- Teaching institutions, administrators and decision-makers in education
- Researchers, stakeholders and actors in education
- Companies or professionals active in UMI technologies
- Career consultants and youth advisors

Why is UMI relevant for you?

You can discover projects developed by students, research results on educational approaches and methodologies, and tools and resources to help you deliver UMI projects with young people.

What is on the UMI platform?

- Communities of Practice that aim to promote STEM education via UMI technologies
- Entrepreneurship training delivered through and supported by UMI
- Self-evaluation tests aimed at helping young people evaluate their prospects in UMI careers
- Peer learning opportunities and mentoring services
- The tools to access the IoT networks that are developed by the students participating in the project, including:
  - An end-user interface with configuration, management and data extraction capabilities
  - A data storage service of the net works' topologies and settings, and a database of the collected by the developed IoT networks' data for post-processing.

#GenerationUMI

What is the UDOO-EDU kit?

The UDOO-EDU kit is a set of hardware and software tools designed for use in science and technology teaching.

At the centre of the kit is the Udoo Neo board, a tiny computing board with many functionalities. Udoo Neo is powered by GNU/Linux, a free operating system running on millions of devices worldwide.

The Udoo Neo board can function as a mini PC, but it is also equipped with a series of software and hardware tools that help students to learn to program and to interact with the physical world.

The UDOO-EDU kit includes numerous sensors (such as temperature, light, humidity, gas, distance) and actuators (an LED matrix display, a motor and various LEDs) and students can link the accessories to the Udoo Neo board to code their own UMI applications.