THE UP2 UNIVERSITY PROJECT AT PHYSISCOPE

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Abstract

Up to University (Up2U) is a 3-year EU-funded project (Horizon 2020 project) started in January 2017 by a consortium of European companies, research laboratories, and universities which aims to fill the gap between high schools and higher education. The objective is to make tools and technology commonly used in academia available to secondary school students.

Up2Universe is a platform developed by this project to simplify access, sharing and usage of interactive educational content among students, teachers and scientists.

The CERN-IT department is part of the Up2U consortium and, in summer 2017 it involved the Physiscope in a pilot experiment. The goal of this test was to put the Up2Universe pilot service in practice by connecting it to an established educational program: Physiscope. This institution, active at the University of Geneva, organizes informal physics lessons based on hands-on activities to promote science, physics in particular.

This experiment involved a high-school student in summer internship at CERN that had the opportunity to use the Up2U scientific and multimedia tools to extend the activities done at Physiscope.

In this presentation, after an introduction about the Physiscope, we will describe in details the Up2U program, we will give some details about Jupyter Notebook, the main informatic tool used in this work, we will describe the results of this test, and we will discuss the possible integration of Up2U services in some Physiscope activities. This experiment shows how an educational program can benefit from the technology innovation.

Keywords: Interactive content, Project Based Learning.