



# Global Junior Challenge

Projects to share the future

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## Leading the dance of Science

**Nome dell'ente che lo ha realizzato /ORGANIZATION/INSTITUTE PRESENTING THE PROJECT: \*:** Epitalion Ilias

**Regione/Region:** Ilia, Peloponnese

**Paese/ Country:** Greece

**Città/ City:** Pyrgos Ilias

**Descrizione del progetto/Describe the project :** In Greece, before 2016, there was not any chance for students to attend a training program at CERN nor to participate in similar activities. This opportunity existed only for secondary school students under specific conditions for something similar have been created. This project was initiated by Nantsou, a physicist at Hill Private Primary School in Pyrgos, who focused on teaching Physics in a friendly and practical way using everyday materials and she gave the title: "Playing with Physics". I was an advisor of the program. Her idea was embraced and supported by the Education & Outreach Officer (CERN-CMS). So, every year, 10 finalists are selected among hundreds of applications based on their criteria and their successful Skype interview from CERN. They then attend the final training event at the Idea Square and the other events (GLOBE, MICROCOSM). I had the great honor to participate in August 2017. Afterwards, I decided to create a website to describe my experience at CERN or just to apply for the program further, developing brand new activities and evolving them to stimulate their imagination and creativity in practice. This is also the importance also is given to encourage girls to pursue science to overcome the established stereotype of male primary school culture is sought, in which pupils will strengthen their thinking, and cultivate their physical curiosity about the world according to their age. During the last two years, Roma students have been given the opportunity to benefit from the advantages of inclusive education) and thus to be better integrated in the new open window to science. On the website you will find the activities developed the last three school years (2017-2019). For each activity, a cloud chamber (1927 & 1936 Nobel Prize in Physics) and the photos of them are accompanied by the corresponding digital content.

Mr. Rainer Weiss, the 2017 Nobel Prize laureate in Physics, sent us his best comments and feed-back about our gravitational waves model. We also highlight the Skype interview from CERN given by the assistant of Peter Higgs, the 2012 Nobel Prize laureate in Physics, Mr. Leonidopoulos, our online board game, our classroom digital planetarium and Rutherford's/Bohr's model of the atom animation, depicting Lithium, which was captured using a drone.

**Categoria del progetto/Project category :** Educazione fino a 10 anni/Up to 10 years

**Link al video di presentazione/Link to the presentation video:** <https://www.youtube.com/watch?v=49...>  
<http://users.sch.gr/papandre/cern/>

**In che modo il progetto usa le tecnologie in modo innovativo/Use of technologies ...:** Modern technologies are used in their work and in the world. In this project, we use technologies with useful ideas for the classroom. We use a guide or tutorial in our website. We use a model with sound for example. We use our students' voices and sound to create experiments and principles. This and, of course, the balance between

**Indicare gli elementi di innovazione del progetto:/ What are the technological aspects of the project?:** Our goal is to show that science is not just a scientific fact. It is a medicine for the world. It is a tomography of the latest discoveries in the age. In the past, we do in the sky. We do with students with experiments that "showed" in schools, showing expressed in (Science, Technology) understanding a daunting way. We use authentic learning to generate all the experiments with imagination. We are making and

**Quali sono gli aspetti tecnologici del progetto?/What are the technological aspects of the project?:** The following is a manageable version of the PhET - University of Physics, to

Windows Movie Maker, to express and animate their ideas on Science (especially their project on Cloud Chamber and Gravitational Waves). Audacity, the free open source audio software to record, mix and convert sounds. Star Walk 2.0 mobile and tablet app for our classroom small digital planetarium.

**Con quanti utenti interagisce il progetto?/How many users does the project interact with? :**

The first school participated in Primary School Peloponnese Vytina Primary School (2019) Epitalio Current school including 4 R

**Di quali mezzi o canali si avvale il progetto?/Which media or channels does the project use?:**



We also r were give regarding two separ our websi

**Il progetto è già stato replicato? /Has the project already been replicated? :**

At an informal level, th organized. The subject library of Pyrgos (June from Pyrgos), at the H lectures organized by t were also given to prim simple materials. Pleas (http://users.sch.gr/pap

**Quali sono le aspettative future?/What are future expectations?:**

A main fact for the initiative to sup cosmology and particle physics te something similar was taught in th presents new data to society. Espe date announcements about the cr correlation of forces in our Univers children's imagination. And this is latest discoveries in Science, main So, our expectations for the future small and steady steps and develo interests and the potential of the p encouragement and inclusion.

**Allegati/Attachments:**  [Links to our project resources](#) [1]  
 [Our classroom small digital planetarium](#) [2]

**Durata progetto/project duration:**

From September 2017 until the current school year (2019-2020)

**Tipologia dell'ente/Kind of organization:**

Primary School

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**Source URL:** <https://www.gjc.it/en/content/leading-dance-science>

**Links**

[1] [https://www.gjc.it/en/system/files/progetti/allegati/links\\_to\\_our\\_resources.pdf](https://www.gjc.it/en/system/files/progetti/allegati/links_to_our_resources.pdf)

[2] [https://www.gjc.it/en/system/files/progetti/allegati/our\\_classroom\\_small\\_digital\\_planetarium\\_0.pdf](https://www.gjc.it/en/system/files/progetti/allegati/our_classroom_small_digital_planetarium_0.pdf)