

Surrounded by Science

OPEN DAYS

Keynote talks

ESIA international summer school, Golden Coast Hotel & Bangalows, Marathon, Attica, Greece

7th July 2024

17:00 – 18:00

Advanced Materials Science for Advanced STEM Education

Prof. Renaat Frans
UC Leuven-Limburg

Crosscutting Geospatial skills in the context of GEO-ACADEMY

Prof. Marinos Kavouras
National Technical University of Athens

Empowering a community of educators for Sustainability Citizenship Education in the context of Synapses Academies

Dr. Rosa Doran, NUCLIO

Learning Science As you Go

Prof. Tessa Eysink
Department of Instructional Technology, University of Twente, Netherlands

Workshops

ESIA international summer school, Golden Coast Hotel & Bangalows, Marathon, Attica, Greece

8th July 2024

10:30-11:30 Introducing Open Schools and Learning Ecologies for the Development of Sustainability Citizenship

Pavlos Koulouris and Vasilis Liakopoulos, *Ellinogermaniki Agogi*

11:45 – 13:00 Workshop: Open Schools as Living Labs Catalysing School Transformation

Pavlos Koulouris and Vasilis Liakopoulos, *Ellinogermaniki Agogi* & Stephanos Cherouvis, *ECSITE*

15:00 – 16:30 Workshop: Designing Green Learning Ecologies for Interdisciplinarity at School and Synergies with Informal Learning

Pavlos Koulouris and Vasilis Liakopoulos, *Ellinogermaniki Agogi* & Stephanos Cherouvis, *ECSITE*

16:30 – 17:00 Connections to the curriculum

Sofoklis Sotiriou, *Ellinogermaniki Agogi*

11th July 2024

15:00 – 17:30 Reflective workshop Looking Ahead: Transforming our School into a Living Lab within Green Learning Ecologies

Pavlos Koulouris and Vasilis Liakopoulos, *Ellinogermaniki Agogi* & Stephanos Cherouvis, *ECSITE*

CERN exhibition *Ellinogermaniki Agogi, Attica, Greece*

On the 2nd and 9th of July you will have the opportunity to visit Ellinogermaniki Agogi and the school's facilities. There you will have a guided tour to some of the most fascinating places in the school, including the Observatory, the school's seismometer and the Foucault Pendulum. You will also have the chance to interact with an exhibit hosted by Ellinogermaniki Agogi in the framework of the celebrations for the 70th anniversary of CERN. You will learn how particles are accelerated and you will create your own proton collisions with the "Proton Football", you will discover the connection of Particle Physics research to cutting-edge medicine, and you will learn how the Higgs boson affects the properties of the other particles.



Invited talk *National Center for Scientific Research Demokritos*

Surrounded by Science will be also presented by Ellinogermaniki Agogi at the satellite event hosted by Demokritos in celebration of the 70th anniversary of CERN. The event is addressed to the scientific community, teachers, the public and other stakeholders interested to discover the past, present and future of CERN and its impact to society.

UNIVERSITY OF TWENTE.



ELLINOGERMANIKI AGOGI



NUCLIO



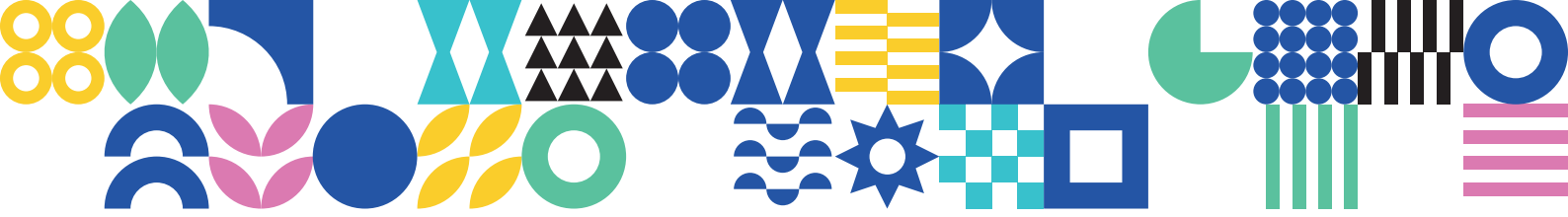
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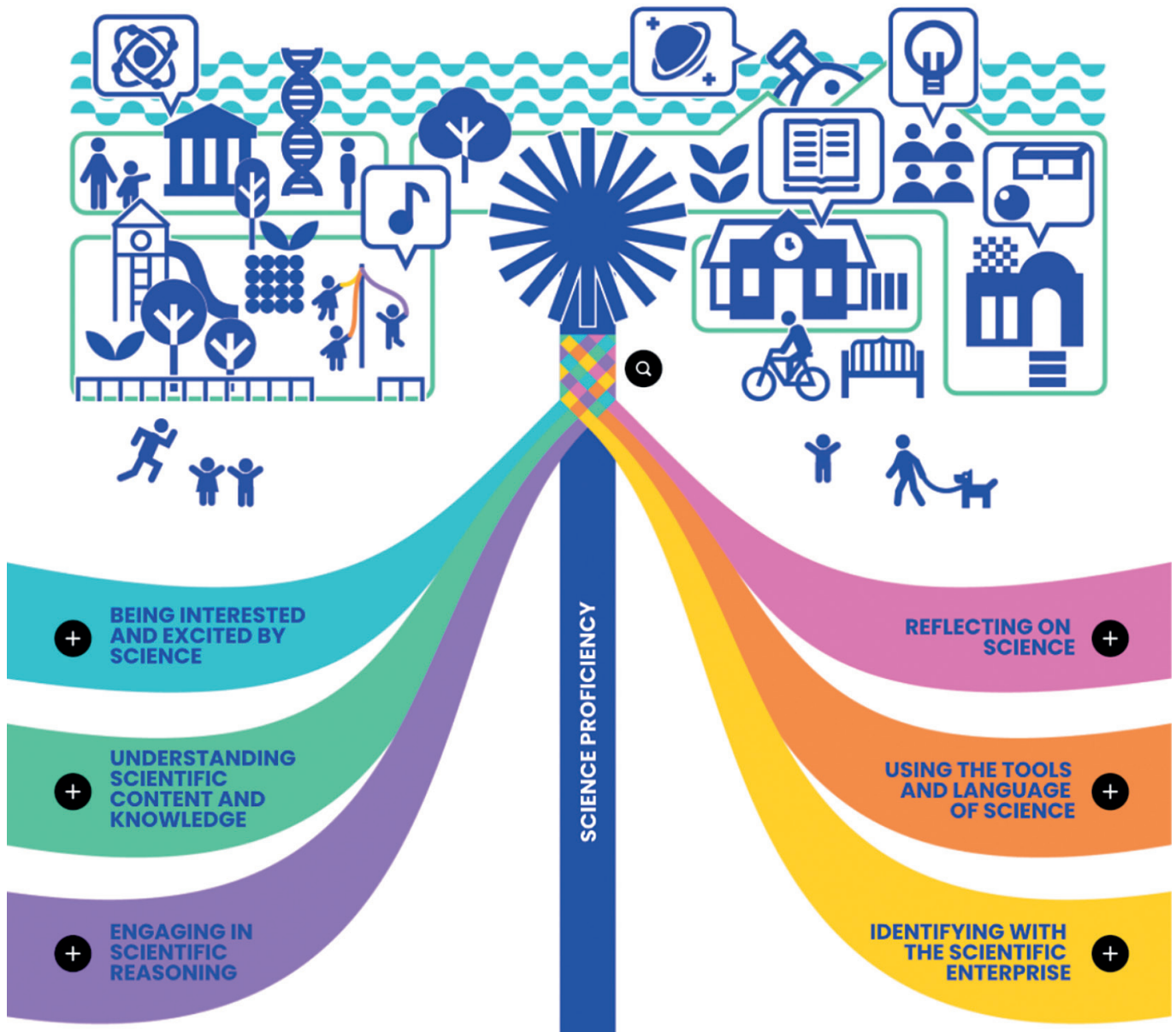


Surrounded by Science

Science is all around us. Science-related activities outside the classroom can spur interest in science. But is this also enough to boost young people's science proficiency aligned with the changing context of formal science education towards open schooling? The EU-funded Surrounded by Science project brings together experts in science education research, science centres and museum educators, providers of outreach and informal learning activities, strong user communities and policymakers in Europe to design and develop a systematic assessment methodology that will analyse the impact of out-of-school science activities. By conducting field studies and other innovative data collection methods, the project will assess the impact of specific out-of-school activities. The project will draw from a digital toolbox of innovative research instruments to collect data from citizens actively participating in science-related activities. <https://surroundedby.science/>

Science proficiency

In order to capture the multifaceted nature of science learning and take into account the variety of out-of-school science activities and the associated goals and objectives, the Surrounded by Science project proposes a roadmap that builds on and extends the model of Science Proficiency. Science proficiency is a six-strand concept where each strand corresponds to different competencies and attitudes toward science. Just like the colorful ribbons in a Gaitanaki (traditional Greek carnival dance in which people intertwine colored ribbons around a central pole), the six strands are intertwined with each other in unique combinations reflecting the individualised learning paths that people follow when they engage in both informal and formal science activities. Those six strands that consist the core of Surrounded by Science framework are shown in the following picture.



Funded by
the European Union



Surrounded by Science

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