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Connect:

**A new project in the Scientix Projects
Database: What Connect means for Greece**

<https://www.connect-science.net/>

Scientix Greece Event
29/5/2021

CONNECT



CONNECT:

A European funded project, under the **Horizon 2020** Science with and for Society Programme,
to **support schools to adopt open schooling**,
in the **core-curriculum**
using **participatory-science** with **families, research centres, universities and enterprises.**

Scientix Projects Database – OpenSchoolingTogether

CONNECT



This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No 872814

CONNECT

Students & scientists solving
real-problems

How can Connect help you improve **science education?**

info@connect-science.net

www.connect-science.net

<https://www.connect-science.net/>



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1. The limitations of science education

The importance of science capital

We all want more young people to be able to **think scientifically** in their everyday life and to **aspire to a career in science**

According to recent research, there are too many students thinking that **'science is not for me'**.

Why is it so difficult to change it?



These students lack the so-called 'science capital', which refers to their scientific knowledge, attitudes, skills and experience. This especially affects those from disadvantaged backgrounds.

These students may not see themselves as future scientists due to key factors that influence their aspirations:

- Low cultural familiarity with science;
- Lack of role models;
- Limited opportunities to engage with science outside formal education.

What can we do?



The **SOLUTION** is to change how students learn science and make science education more accessible and appealing to students by adding more opportunities into the curriculum that allows them:

MOTIVATION:

- ✓ to learn science through the **scientific method**
- ✓ to increase the capabilities and **motivation** towards science careers for all students **equally**

ENGAGEMENT:

- ✓ to interact with **scientists**
- ✓ to engage students' **families** in a participatory science process
- ✓ to stimulate a **shared interest in science** and future careers within families

IMPACT:

- ✓ to contribute to solve **community challenges**
- ✓ to be aware of the **impact** of science in the world





3. WHAT does **CONNECT** offer?

Educational materials, CKD model, CONNECT platform and partnership

CARE – KNOW – DO model

CONNECT will provide **useful and innovative resources** that follow the **Care-Know-Do** model to increase science capital involving **students and teachers with scientists and families** in three steps:

care



They are engaged with a real-life issue

kn*w



They acquire knowledge and skills in science

do



They develop attitude for participatory science-action

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There are two kinds of **science actions** available for teachers/schools to support their projects:

- **Structured scenarios** – pre-defined activities that schools can easily customise to maximise the chance of a successful first-time project supported by **science professionals**.
- **Open-ended scenarios** – template for teachers/schools and **science professionals** to identify issues to be faced and develop their own activities.

a) **CONNECT** resources: structured scenarios



The issue

- Imagine your country 1000 years ago.
- Which species have been lost and why?
- Could we turn the clock back and 'rewild' an animal ?

Care

Set the challenge, choose an animal with families

Know 1

Teach feeding relationships, competition. Apply knowledge

Know 2

Teach abiotic & biotic factors. Apply knowledge

Do

Plan the campaign. Home preparation. Judge the campaigns

b) **CONNECT** resources: open ended scenarios

- Build upon a framework with two steps for each of the science action stage: CARE, KNOW, DO.
- Each step has different options for choice of method and participants.
- Students decide on a local challenge to work.
- Teachers facilitate the process, experts and local stakeholders provide knowledge. Coaches support teachers.

Science action stage	Steps	Methods	Participants	Learning objective
Care	Framing	Agenda setting	Students Experts / Scientists Local community Families	To develop engagement and interest by framing and finding approach to community-based challenge
	Questions			
Know	Knowledge & opinions	Desk-top Interviews Stakeholder analysis	Students Experts / Scientists Local community Teacher UAB	To acquire scientific understanding of local issues and problem-solving approaches supported by research and interactions with scientists and stakeholders to develop alternative solutions collaboratively
	Deliberation	Consensus format Jury format Co-creation	Fellow students Experts / Scientists Local community Teacher	
Do	Recommendations		Students Experts	To communicate science actions projects and findings to the local community
	Dissemination	Open letter with recommendations Article	Decision-makers Media Stakeholders	

1st Year /2020-2021/CONNECT resources

Based on Rewilding Science Action:

1. Rewilding Greece – Marine Biology
2. Rewilding Greece – Terrestrial Biology

Open-ended Scenarios

3. Map skills for problem solving
4. Measuring CO₂ for coping with Covid-19 aerosol transmission
5. Plastics
6. Renewable Energy
7. Global Warming and Chemical Pollution



6. HOW to get involved in **CONNECT**?

CONNECT

HOW to get involved in CONNECT

- Are you a **secondary school teacher** or from a secondary **school administration** with interest in adopting CONNECT's model for inclusive open schooling?
- Are you a **STEM professional, scientist, enterprise researcher** with interest in motivating young students into pursuing scientific careers through CONNECT's activities?
- Are you a **parent, grandparent, tutor or family member** looking for being more involved in the school activities?

Συμπλήρωσε το <https://tinyurl.com/engagementwithconnect> για να μάθεις πώς μπορείς να συμμετέχεις

CONNECT supporting bodies

- **USER ADVISORY BOARD (Ελληνική Κοινότητα Scientix ?)**

CONNECT's User Advisory Board (UAB) is composed of prospective end-users from the educational field and other interested stakeholders that support the project ensuring the relevance and quality by providing feedback and recommendations.

- **EXPERT ADVISORY BOARD**

CONNECT's Expert Advisory Board (EAB) is composed by people from the scientific fields addressed during the project, who will provide valuable insight and recommendations on the activities conducted in the project.

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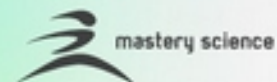
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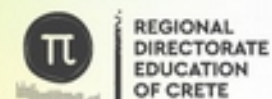
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Ευχαριστώ!

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