

science4girls

WARMING UP

NOTHING HAS WORKED!
THE CHALLENGE



For many years EU has tried to make science education more attractive to girls, and to encourage them to a life in science.

However, science education and science jobs are not attractive to most girls in the EU.

Several Erasmus+ have addressed this challenge; but many remain in what we can call “modernisation” of traditional science learning, including forms of “girlification”.

They mostly do not basically change female students’ images of science.

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Now we have a historic opportunity to go much deeper, to take the girls' values seriously and start developing more fundamental changes in science learning.

Because:

- The EU Commissions' promotion of open science schooling
- The urgency for all youth to address climate change at all educational levels



The combination of: female values, Open Science Schooling and climate change engagement is the most powerful opportunity to make science and a life in science attractive to girls.



FEMALE VALUES IN SCIENCE EDUCATION

- ✓ In traditional classroom science teaching, female values and life preferences are never discussed nor visible.
- ✓ By opening up the doors to real-life science and climate change, girls are encouraged to develop critical views on science and to interact with community resources engaged in science and climate change.
- ✓ At the same time the girls will be able to create images of responsible science, discover how science and climate change affect citizens and create their own images of value-based.



OPEN SCIENCE SCHOOLING

- ✓ **OSS allows students to leave the traditional theoretical science instruction and work with real-life science and people.**
- ✓ **It allows to work in teams and to identify climate challenges in the community.**
- ✓ **Through collaboration with community and climate change resources they will be able to work in their designed missions.**
- ✓ **Girls will create their own story-telling from the missions to create their voices.**



CLIMATE CHANGE PREVENTION ENGAGEMENT

- ✓ **Girls are typically much more interested in climate change prevention than other science topics.**
- ✓ **They will design their missions, based on open exploration of what climate change prevention might mean for themselves, their families and their community.**
- ✓ **Missions will allow them to immerse and link climate change to human, social, health and cultural factors.**

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Why is this innovation efficient?



Because:

- ❖ **It applies an authentic OSS methodology.**
- ❖ **It directly addresses a major EU challenge “Science and female students”, based on evidence on how female students’ re-engagement in science is totally dependent on science images acceptable and attractive to female identity creation in the teenage years.**

THANKS

