



PREPARING YOUNG GENERATIONS TO DEAL WITH TODAY'S CHALLENGES

Noëlle Billon and Martyna Bajorinaitė 23-24 October 2020

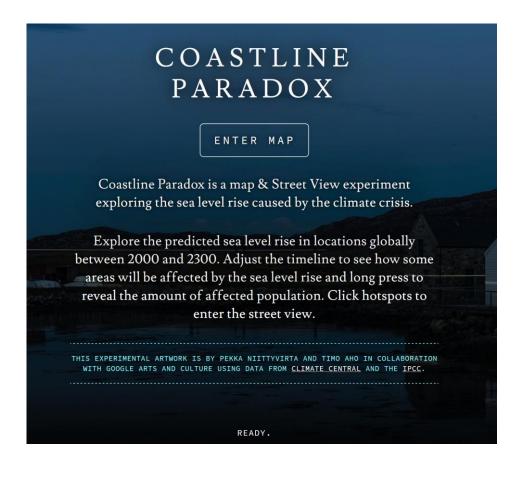






EXPERIMENT

- Go to <u>Coastline Paradox</u>
 (link in the chat)
- Find your city
- Tell us in 1 word your impressions about this experiment





Go to www.menti.com and use the code 35 32 92 3

choose 1 word to describe your impressions about this experiment







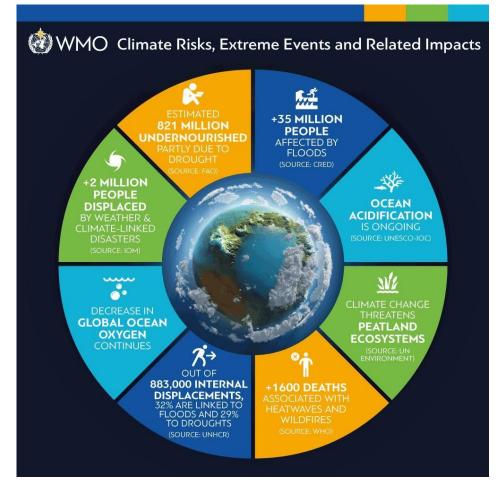
CLIMATE CHANGE





SOCIAL AND ECONOMIC IMPACT OF CLIMATE CHANGE

 The World Meteorological Organization (WMO)-Statement on the State of the Global Climate in 2018







CLIMATE CHANGE & OUR DAILY AGENDA













CLIMATE CHANGE AND FUTURE JOBS

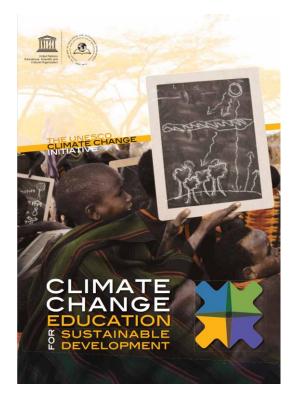
- 24 million green jobs by
 2030
- Climate awareness part of every job







CLIMATE CHANGE AND EDUCATION













ABOUT US



Noëlle Billon Project Manager at European Schoolnet <u>Noelle.billon@eun.org</u>



Martyna Bajorinaite
Junior Project Officer at European Schoolnet
martyna.bajorinaite@eun.org









METHODOLOGY



PEDAGOGY



TECHNOLOGY



RESEARCH



PERSONALISED TEACHING



CULTURAL BACKGROUNDS



21ST CENTURY SKILLS

Scientix the community for science education in Europe





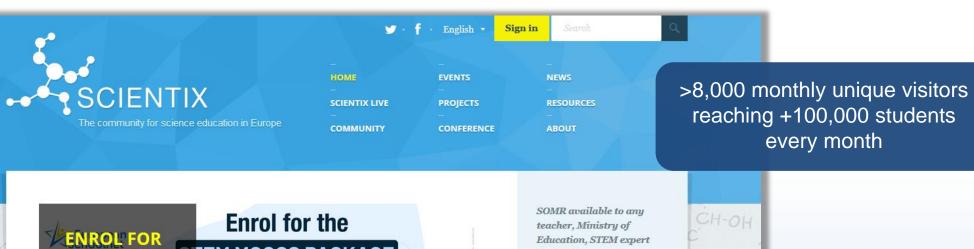


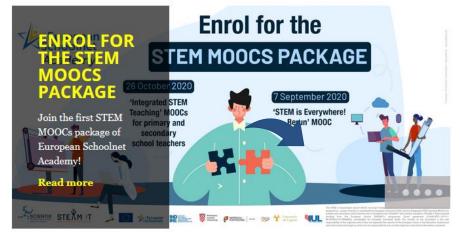
Information

- Projects on STEM education
- Resources
- Scientix observatory papers
- Newsletters
- Blog entries
- Translation of resources(*)



http://www.scientix.eu











Training: online and face to face



 Workshops for teachers (both in FCL in Brussels and other events)



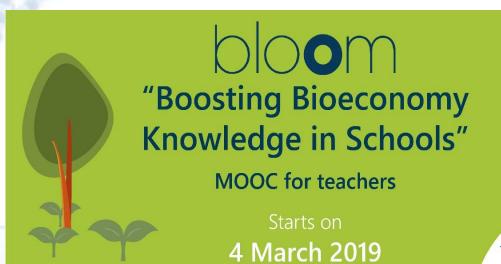
Online courses on the EUN Academy



Webinars













Cooperation











Science Topics
Networking
Seminars

Conferences

Ministries of Education STEM representatives Working Group (and National Contact Points) Scientix
Ambassadors
"Old" and "new"

STE(A)M Partnerships









PROJECTS UNDER SCIENTIX: **EU4OCEAN COALITION FOR OCEAN LITERACY**









EU4OCEAN:OBJECTIVES

- Contribute to enhancing awareness and the engagement of all parties involved in the sustainable management of our oceans and seas
- Help coalition members to become ocean advocates
- Put ocean literacy high on the policy agenda







COMPONENTS

The coalition is made up of three components:

- a Platform for organisations and individuals engaged in Ocean Literacy initiatives
- a European Youth Forum for the Ocean
- a Network of European Blue Schools







A NETWORK OF EUROPEAN BLUE **SCHOOLS**





THE BLUE CHALLENGE









A NETWORK OF EUROPEAN BLUE SCHOOLS

Activity:

- STEP 1: Find a topic that connects students to the ocean and to act actively on their sustainable preservation
- STEP 2: Think of a project outcome (preferably linked to the curricula)
- STEP 3: design the activities
- STEP 4: think about the local partner you want to involve in your activity
- STEP 5: Go to Padlet (link in the chat) and Share the main ideas of your project with us!





STAY TUNED ABOUT THE PROJECT



https://webgate.ec.eur opa.eu/maritimeforum /en/frontpage/1482



PILOT STUDY: NATURE BASED SOLUTIONS IN EDUCATION*







NBS for teachers: how and why

HOW. The pilot study **co-created** 15 **learning scenarios** (LS) for addressing NBS in class

- Co-creation: involve teachers, allow for exchange of ideas and feedback
- Learning scenarios: structured lesson plans, tested and validated by teachers across Europe
- Serve as a ground to address NBS in class

WHY. Approaching NBS in class is crucial as it allows:

- The use of innovative pedagogies: project-based learning, eco-pedagogies, outdoor-learning...
- The inclusion of (non)STEM subjects: interdisciplinary nature of the topic
- Raised awareness on real-life global concerns (e.g. climate change) and available solutions among students
- Stimulates the formation of active young citizens



Milan's Bosco Verticale is an example of vertical garden, a urban NBS © Boeri Studio













LIFE TERRA

500 million trees in 5 years











- To combat climate change, by far the most cost-effective of all the big solutions is to protect and restore forests. Forests extract and store CO2 from the atmosphere and produce the oxygen we breathe.
- But these complex ecosystems have been systematically destroyed. We have already lost nearly half the world's trees, most within the last 100 years.

- Jane Goodall and Marc Benioff









LIFE Terra and Education

Online course for 8-14
 years old pupils on
 Climate Change and
 Sustainability







- **⊷** Topics
 - 1) Climate change
- 2) Energy transition
- 3) Waste
- 4) Circular economy
- 5) Water
- 6) Agriculture
- 7) Air quality
- B) Trees









LIFE Terra Sustainability Course

Demo version (spring 2021)

English

Dutch

- Teachers & children feedback
- Student questionnaire
- Improvement & continuous update

Final version(s) - 12/2021

Spanish

German

Italian

Portuguese

Greek

(+ local specific content)









LIFE Terra Sustainability Course

Each participating school/class:

- ✓ 10 sessions
- Digital certificate of completion
- Participate in a tree planting event
- Class Project

Create together a solution for an environmental issue

EU-level contest

Best Life Terra Climate
 Action Class project will
 be awarded during
 Green Week

✓ eTwinning

✓ International student exchange













LIFE Terra and Education

- Educational website (.academy), designed for teachers and students
- Online course for teachers on Climate change and Sustainability in EN, PT, IT, ES, DE and GR
- Engagement of youth in planting events











Prepare your pupils

- Imagine you bring your students to a planting event: what lesson should be taught in advance?
- Think of 1 collaborative lesson plan (3 to 5 steps)
- Involve at least 1 teacher of other discipline than yours
- Post the lesson plan on Padlet (link in the chat)



















FaSMEd



















Integrated Teaching Project







Photonics explorer

























Make the Link





































Hypatia







NanoEIS































CannDo











THANK YOU