





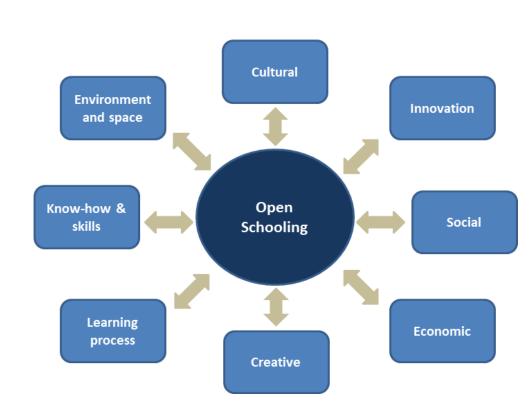
Costas Cartalis, Thalia Mavrakou and Tasos Polydoros National and Kapodistrian University of Athens



# The PULCHRA project

The PULCHRA project explores the open schooling concept in the theme "Cities as urban ecosystems" and in view of creating new partnerships in local communities to foster science education for all citizens.

Schools, in cooperation with other stakeholders become agent of community well-being.





# The PULCHRA partners



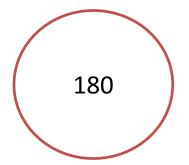


# PULCHRA Network (1st year)

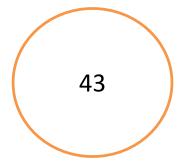
## **PULCHRA School Network consists of 51 schools**



## **PULCHRA Stakeholders**



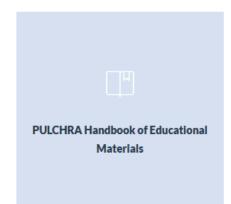
## **PULCHRA School Projects**



## STRONG LINKS WITH GLOBE EUROPE



# **PULCHRA** educational materials & tools











# **PULCHRA** educational materials & tools

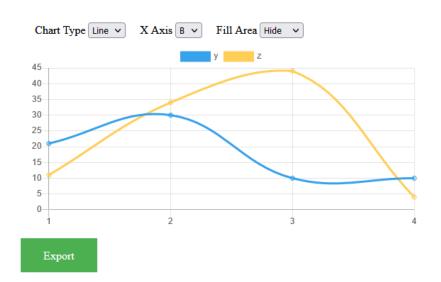
Visualization Tool ≡



Home > Supporting tools > Visualization Tool

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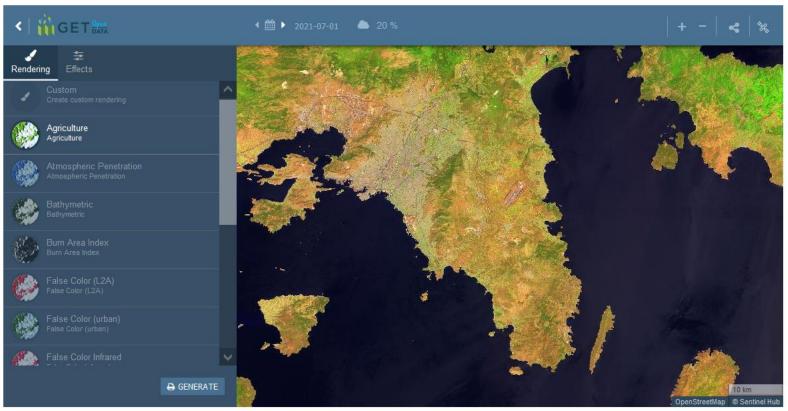
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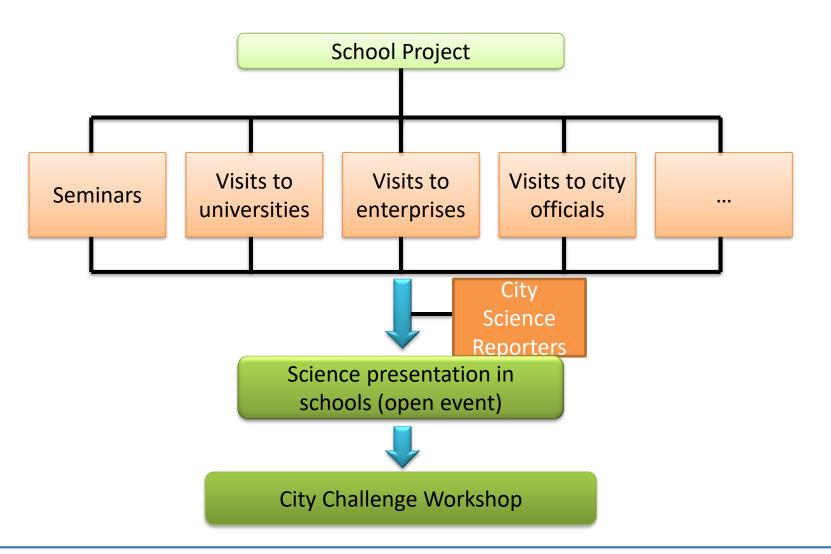
# **PULCHRA** educational materials & tools







# City Challenges Implementation with and for the society





# **City Challenges Themes**

- 1. Powering Cities without Harming the Climate
- 2. Buildings for the Future City
- 3. Regenerating Urban Space to Connect People in a Healthy Environment
- From waste disposal to Resource Efficiency –
   Circular Economy at the City Scale
- Mobility Patterns that support CommunityDevelopment
- 6. Innovation for Social and Environmental Benefit

City Challenges have been defined to link with the UN Sustainable Development Goals





## **Science Teams**

Science Team comprise of teachers and students, parents, professionals from the business community, scientists from Universities and research centers, local administrators, citizens, etc.

The work of the Science Teams will focus on bringing real life projects related to cities as urban ecosystems into the classrooms through focused collaborations of school communities, scientists, professionals and enterprises.





## **School project example**

"Regenerate the urban space in a healthy, connected, welcoming and resilient environment"

# **Country Italy**

## **City Challenge Theme**

Regenerating Urban Space to connect People in a Healthy Environment

Support project as mentor/expert

Davis Goi LABORATORIO DALT UNIUD LABORATORIO SPACE LAB

Sergio Andri Globe Italia – LR

Follow the projects

Davis Goi Globe Italia – LR ert Drov

Provide data / material / equipment for school projects

LABORATORIO DALT UNIUD Globe Italia – LR

Accept visits from schools

Globe Italia - LR

## The Science Team

ISISMagriniMarchetti

Teachers

Roberto Evangelista, Fabrizio Floreani, Gabriele Rossi, Rosalia De Felice, Isabella Gervasio, Giancarlo Mio

Participants

7

No of students

57

Y Students age

16-18

Status

**ACTIVE** 

## **Project description**

Municipal administrations try to guarantee their communities places that are livable, accessible and capable of stimulating a sense of belonging. Today there are new needs linked to a greater awareness of environmental problems...

Keywords: Smart city

Needs: Visit stakeholders for mentoring

More ···



School project example "Regenerate the urban space in a healthy, connected, welcoming and resilient environment"

Objectives	ISIS Magrini Marchetti school aims to develop new ideas in creating public spaces suitable for the complexity of the economic, social, climatic and environmental problems that our municipality is facing.			
Mentoring PULCHRA stakeholders	<ul> <li>Sustainable Development</li> <li>What is biodiversity?</li> <li>What is the soil sealing? What is a permeable flooring? What materials are used in an urban environment?</li> </ul>			
Science team activities/Science reporters	<ul> <li>Developed projects with proposed solutions</li> <li>Met with municipality representatives to discuss ideas which the municipality is interested for a future realization.</li> <li>PULCHRA Dissemination Hackathon – How to communicate science? Laboratories and brainstorming with the students of the Italian schools.</li> </ul>			
PULCHRA workshop	Online event, the City Science Team presented their project ideas. The workshop was attended by University of Udine, scientists and other stakeholders, in particular public administrations. The students presented nine very interesting ideas, three of which were approved by the public administration for their feasibility; to make the cycle track a place of aggregation and not only of passage, construction of a green roof, encourage the use of draining asphalts			



# **Science Reporters PULCHRA Newspaper Issue#1**





I wish to extend my deepest appreciation for having you on board the PULCHRA project funded by the Science with and for Society (Horizon 2020) program of the European Commission. I hope that our science the opportunity to speak about challenging issues, such as the link between cities and climate change, how we can approach cities as urban ecosystems, how we can promote clean energy, etc. Equally important is the fact that the project applies the concept of open schooling, namely that schools, in cooperation with other stakeholders. become an agent of community well-being, with students and teachers being the key players. I really hope that all schools will exploit the

Prof. Constantinos Cartalis, National and Kapodistrian University of

education journey will be fascinating and productive. After all, we have opportunities offered by the project and will work out partnerships with other schools in the project, thus taking advantage of its wide European

## TOGETHER WE'LL MAKE IT! Covid will not put PULCHRA in danger.

All countries involved in the PULCHRA project have been affected by online teaching and constraints, which make working coordinators, teachers, students and others stakeholders

work on projects, organize online

events, process outputs and other

Thank you for that! We believe it will be better and we wish you a lot of strength. Please persevere in your



This project has received funding from the European Union's Horizon 2020 research and innovation programme



DON'T BE AFRAID OF

REMOTE SENSING

AN EFFECTIVE METHOD USED IN OUR PROJECT



### A LITTER-FREE TOWN

The team of City Science Researchers from the elementary school in Ledeč nad Sázavou (the Czech Republic) decided to examine the waste management system in their city. Read about how they research a willingness of residents to sort out their waste and what more they are planning

HAVE YOU TRIED PADLET?



### **AIR POLLUTION - THE SILENT**

KILLER Students at Ashbourne Community School, Ireland, teamed with their local government level 'county council' to conduct a traffic count on nearby roads whilst measuring traffic-related pollution in the local area. They are now working on an anti-idling campaign and addressing mobility patterns around the

school. Get inspired by their air

quality investigation.

Read the article

Students from the Kings Hospital school, Ireland, have. Their Padlet board shows the

first part of their project focused on measuring air quality at their school. Now they

are researching student mobility (school commute) and exploring options to plant trees/shrubs around their school. See their project on PADLET



Can't meet each other live? Try it online. Students from Cyprus involved in PULCHRA project presented their posters at a webinar in January 2021. Look at their posters and get inspired by their

One of the tools available to our students within the PULCHRA project is the Remote Sensing (RS) Tool.

The tool allows students to explore satellite imagery and obtain data that can support or complement their own research.

### Wondering where remote sensing can be used?

Read an interview with Přemysl Štych. senior lecturer at the Department of Applied Geoinformatics and Cartography, who helps students in the Czech Republic to obtain and interpret remote sensing

Read the article



## Don't litter

Czech students at the Postupická secondary school that participate in the Pulchra project have chosen raising public awareness of proper waste sorting and

During their project work, they use data from remote sensing. Read more about have already done.

Read the article

presents the Normalized Differential Vegetation Index (NDVI).





### THE PULCHRA PROJECT TEAM FROM THE LATVIAN CITY KANDAVA

managed to meet "live" despite current complicated situation. They plan to create a mobile guide of their beloved region for anyone, who would like to discover the its beauty. We look forward to seeing it! Read more about their n

## **INSPIRE AND GET INSPIRED!**

## 45 PROJECTS ARE PUBLISHED ON THE PULCHRA PLATFORM

Do you know? REGENERATION URBAN SPACE to connect People in a ealthy Environment is the most common topic for the

PULCHRA Platform provides educational materials, Remote Sensing Tool and Data Visualisation Tool?

## SHOW OFF YOUR PROJECT

Your article can be in the next issue of the Newspape Email\_address@country\_coordinator.com and it could be shared on the PULCHRA soc networks and on the blog!

Don't forget to follow and share the PULCHRA social media too on <u>Twitter</u> and on <u>Facebook</u>.



This project has received funding from the European Union's Horizon 2020 research and innovation programm under grant agreement No 824466.

Compiled by TEREZA, Educational Centre in cooperation with all PULCHRA partners Contact us PULCHRA website





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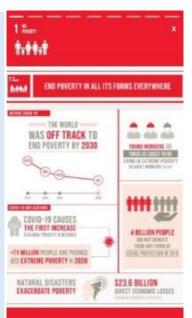


# The PULCHRA App

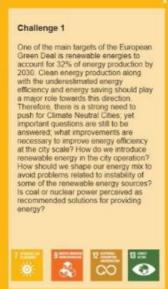
The major goal of the PULCHRA app is to act as a dissemination and engagement tool on the topic of cities acting as urban ecosystems and explore targeting groups of people who do not usually engage with these types of topics.















# Visit us at <a href="https://platform.pulchra-schools.eu">www.pulchra-schools.eu</a> <a href="https://platform.pulchra-schools.eu">https://platform.pulchra-schools.eu</a>

# Thank you

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