



# **The GLOBE Program in 2022-2023 in pictures**

**The photos capture highlights of the GLOBE community across Europe and Eurasia. Enjoy the moments with GLOBE students, teachers, coordinators and trainers!**

The selection was compiled by the Europe and Eurasia Region Coordination Office



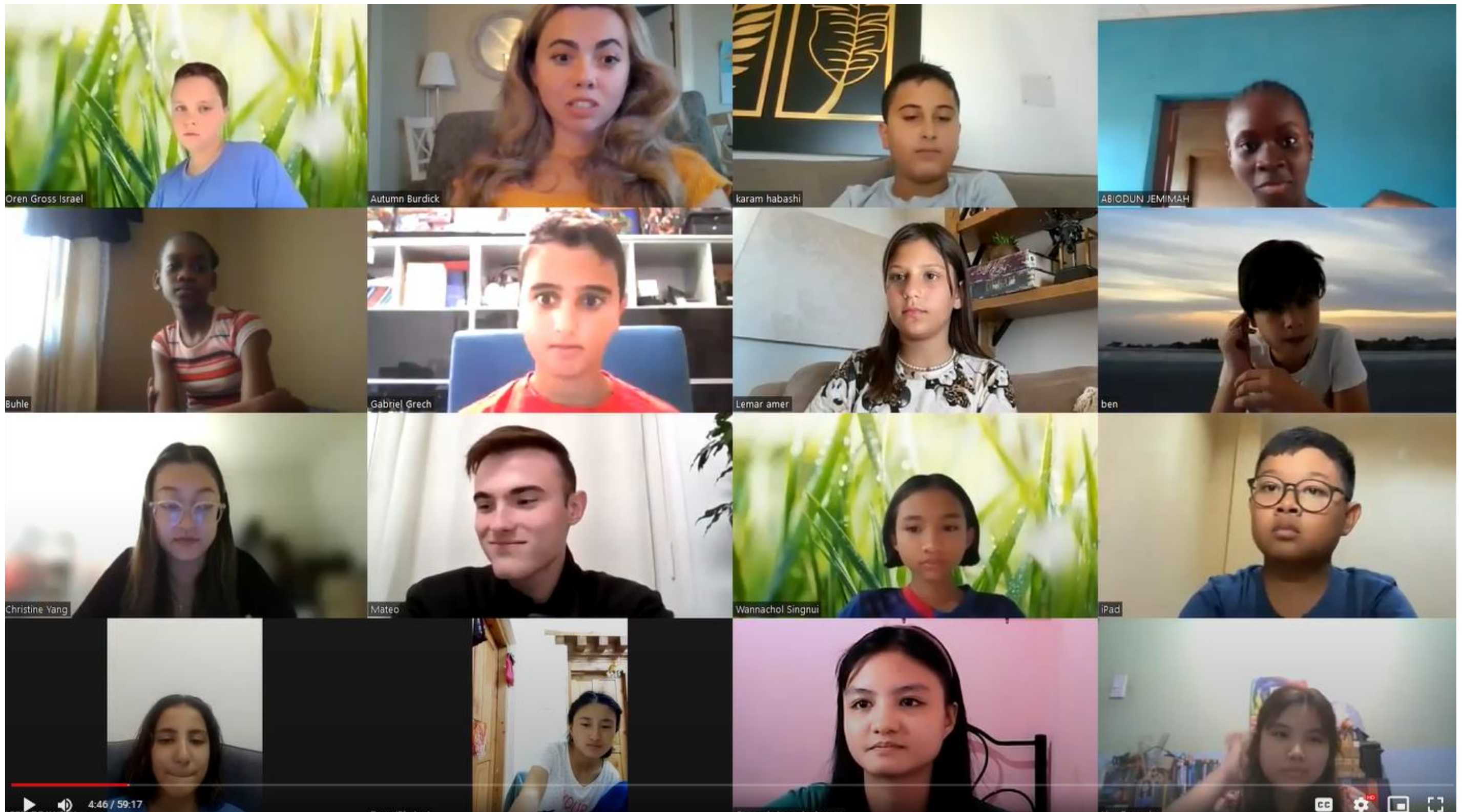




## LEARNING FROM TREE STORIES

Trees hide many stories waiting to be discovered. GLOBE plays a crucial role in enabling students to uncover these stories and gain valuable insights into their environment. In Schloß Neuhaus and Bad Lippspringe the stories of old trees in city parks served as the starting point of an educational project. Over 300 students and teachers took part in a range of activities. From tree planting to interactive exhibition and engaging lectures for both children and adults, this project fostered a deeper connection between the community and nature.





## THE VOICE OF GLOBE

Each year, 12 students from different parts of the world become the Voice of GLOBE. In their selfie videos, they share snippets of their home and culture, and especially their passion for GLOBE research and nature. On the GLOBE YouTube channel this year you can meet students from Malta, Israel and Turkey, among others.







## **TREES WITHOUT BORDERS**

The European Phenology Campaign has been bringing together school teams from Europe and Eurasia for more than 7 years. Students pick a tree that is close to their home or school. Then, they watch the tree wake up in spring and burst into color in autumn. They share their research findings, gain new knowledge and build friendships at the same time.





## **STARTING DIALOGUE FOR A BETTER WORLD**

**GLOBE students in Malta initiated a meaningful dialogue during an event that facilitated connections with their local governments, acting as a catalyst for an empowering process. The students shared their research findings from the GLOBE Student Investigation and presented projects focused on tree inventories. Collaborating with the mayors, they delved deeper into the pressing issue of urban heat and explored ways in which cities and their communities can enhance sustainability while proposing future steps.**





## **UNRAVELING SCIENCE**

The mission of the Science Learning Expedition in the Italian-Slovenian border region of Gorizia-Nova Gorica was to inspire people to understand and care for their environment using scientific knowledge and to identify new partnership opportunities for the cross-border region. Organized by GLOBE Italy and partners as part of Earth Day celebrations, this impactful event engaged over a thousand students, teachers, and residents. It sensitized participants to their local environment and encouraged responsible stewardship.

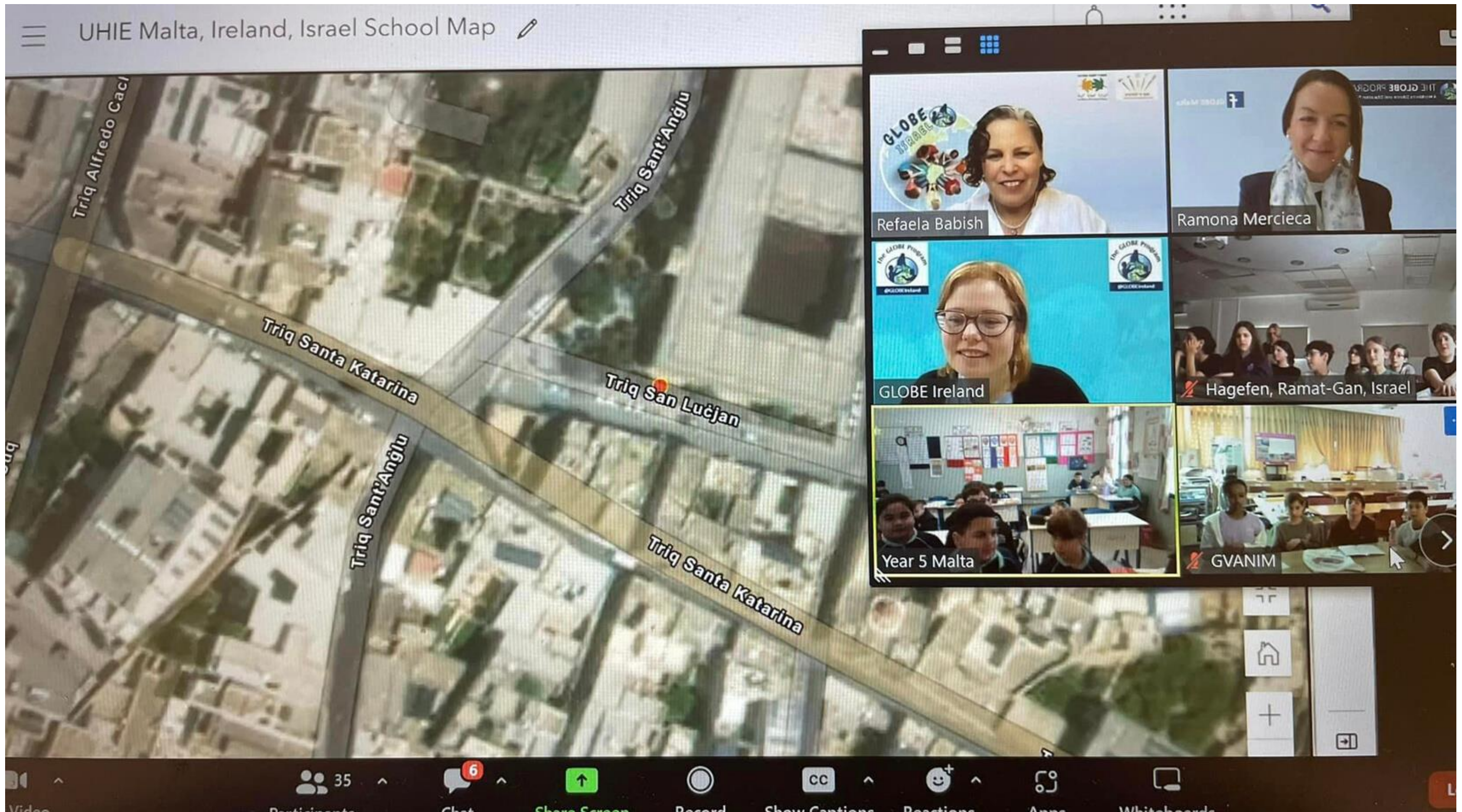




## **SHOWCASING THE BEST OF GLOBE**

Collaboration, benefiting the environment and climate change were the themes of the GLOBE virtual conference, with students presenting a total of 22 projects and 16 videos showcasing the best of GLOBE in schools this year. Their courage and the efforts of the teachers who supported and guided them throughout the school year are worthy of recognition.





## HOW WARM IS MY CITY?

Urban heat island effect is a raising phenomenon worldwide and cities in Israel, Ireland and Malta are no exception. Students from these countries cooperated on a fascinating program. They conducted a scientific study of urban heat island in their immediate environment - such as schoolyards and community gardens - following the monitoring protocol of NASA scientists. By collaborating and comparing results, they saw the differences or similarities between their distant countries.





## **HOW CLEAN IS THE AIR AROUND OUR SCHOOL**

The girl in the picture is not only enjoying the ride, but also contributing to research on air quality in the Netherlands. Her sniffer bike is equipped with a sensor that monitors PM levels during the ride. The sniffer bike is one example of GLOBE Program activity to investigate air quality. As part of the Air Quality Campaign, students from the Netherlands, France, Ireland and Malta come together to find ways to measure and improve air quality in their neighbourhood.





## **BECOMING SOIL EXPLORERS**

Do you want to learn about the relationship between soil, animals, plants and trees and how it can all be linked to the GLOBE Program? Then ask the students from Malta. A total of 864 students and 75 teachers from 18 primary schools took part in the GLOBE Soil Explorers project designed by GLOBE Malta from January to March 2023. By trying hands-on soil research, working with the GLOBE Observer app and planting trees as part of the project, they became true young explorers.





## **SCIENCE WITHOUT BORDERS**

The GLOBE Student Science Conference in Prague brought together students from 7 countries. At the end of May, GLOBE Czech organized the event in cooperation with Charles University in Prague, in the historical and beautiful premises of the university quarter. Like professional scientists, the students presented the results of their research project to a panel of experts on education and environmental issues. They took home inspiration for further work, unforgettable experiences and new friendships.





## **A JOURNEY WITH GLOBE**

**"Our mission is to look at inspirational examples of teaching for sustainability, which we can bring back and implement in our school." With these words GLOBE Teacher Niels Brouwers started his Journey across Europe. Inspired by an experience with The GLOBE Program he decided to visit schools in other countries as a part of his one year-long sabbatical "road trip" and experience the best of the broad, open and welcoming GLOBE community.**





## **CONNECTED BY WATER**

Water unites GLOBE students and teachers worldwide as they explore local water bodies to understand water quality and its significance to their communities. Over 50 teams from 10 European and Eurasian countries participated in the Spring Water Bodies Challenge organized by the Europe and Eurasia Regional Office. In Mantova, Italy, World Water Day was marked with the 'Rivers in Spring' event, that brought over 1000 participants from schools, scientific institutions, local authorities, and environmental agencies to 49 sites along the waterfront of Lake Gonzaga.





## **THE YOUNGEST GLOBE EXPLORERS**

Elementary GLOBE modules introduce K-4 students to various aspects of Earth system science using engaging storybook narratives. In Slovakia, teachers can now access GLOBE Elementary book and activities on Aerosols in their native language. Workshops and practical experiments, led by scientists, introduced the topic to teachers. Additionally, Calitoo sunphotometers are available for school rentals at the American Centre Library of U.S. Embassy.





## **STORIES OF A CHANGING WORLD**

Bringing problem solvers together and creating a highly connected learning environment is the mission of the GLOBE Program in Portugal. The exhibition "Stories from a Changing World" was a step towards fulfilling this goal. It offered a glimpse into the world of science and action through the testimonies of scientists from Portugal, USA and UK reflecting on climate change, ecosystem degradation and their personal experiences. The exhibition was later shared with schools. It was accompanied by activities with the scientists, involving hundreds of students and adults.





## **GLOBE KEEPS GROWING**

Just like a plant, a program too needs to be nurtured in order to grow. Thanks to the care of students, teachers, coordinators and scientists involved, GLOBE is thriving and reaching new countries and active teachers and students. In Armenia the first GLOBE training was held as a cornerstone to creating a strong GLOBE network.





## **BECOMING URBAN ENVIRONMENT EXPLORERS**

The 2023 GLOBE Regional Learning Expedition took place in Tartu, Estonia and brought together 130 students, teachers and researchers from 10 countries. Organized by current and former GLOBE students, the event offered a unique experience. Guided by scientists, students acquired skills to investigate the local urban environment and the expertise to understand the data collected.





## **AGENTS OF CHANGE**

The documentary mini-series highlights the extraordinary impact of the GLOBE Program on people and communities around the world. As the episode on Croatia shows, in Croatia such impact began as early as 1995 with the then-ambitious idea of using the Internet to connect Croatian students with worldwide community to record, share and analyse environmental data. Today, the GLOBE network in Croatia includes more than 370 schools and thanks to the continuous excellent support of the coordinating team, the program really contributes to making Croatian students citizens of the world.





## **WE ARE GLOBE TRAINERS**

Europe and Eurasia GLOBE community of Trainers and Mentor Trainers is successfully growing. A crucial step towards the creation of a vibrant and collaborative community of GLOBE trainers was the first meeting of Trainers and Mentor trainers organized by the Region Coordination Office in Prague. The meeting was attended by active and enthusiastic GLOBE members who are willing to serve as mentors to other GLOBE teachers, a total of 19 people from 12 countries in the region. Together they reflected on the role of a mentor and shared good practices in conducting training.





## **GLOBE CHANGES CLIMATE EDUCATION**

Climate change education has now become a compulsory topic in the formal curriculum in Israel. This has created a need for teachers to acquire competencies for meaningful climate education and GLOBE has become an important teaching resource. Beit Berl College and GLOBE Israel organize a course for students in the Environmental Studies and Agriculture program. Familiarizing students with GLOBE and its tools, applications, and especially selected protocols directly related to climate change contributes to improving program implementation as well as climate education.





## **HOW SPONGY IS YOUR SCHOOL?**

In January 2023, twenty schools across Ireland took part in a new GLOBE Ireland Observation Project titled 'How Spongy is Your School? Rainfall and Flood Resilience Investigation'. For two weeks students recorded rainfall and pH following GLOBE protocol. Then they proposed their Spongy School Proposals such as ideas for rainwater harvesting or flood prevention and were asked to try implementing them. The quality of the students' work was recognised by the local authorities, who provided six of the participating schools with a financial reward to implement their Spongy School Proposals.





## REPRESENTING GLOBE

During the Science Summit at United Nations General Assembly, Ramona Mercieca, GLOBE Program Deputy Coordinator for Malta, shared her extensive experience in supporting and networking GLOBE schools. She represented the Europe and Eurasia region in a panel discussion where she also addressed linking GLOBE activities to the SDGs. And not only that. In the same year, the U.S. Embassy in Malta awarded Ramona for her outstanding contribution to enhancing bilateral relations between the United States and Malta through the GLOBE program. Congratulations!