

FINAL REPORT ERASMUS+ KA229

# “E QUINDI USCIMMO A RIVEDER LE STELLE”

2019-1-IT02-KA229-062397\_1



ERASMUS PROJECT KA229

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PROGRAMME	Erasmus+
KEY ACTION	KA 2
ACTION	Cooperation for innovation and the exchange of good practices
ACTION TYPE	KA229 School Exchange Partnerships
APPLICANT ORGANIZATION	IC Torgiano Bettona
PARTNER ORGANISATIONS	Ivalon ala-asteen koulu (Finland)  School of European Education (Greece)  CEIP Antonio Machado (Spain)  St Leonard's Church of England Primary School (UK)
CALL	2019
REPORT TYPE	Final report
GRANT AGREEMENT NUMBER	2019-1-IT02-KA229-062397_1
PROJECT TITLE	“E quindi uscimmo a riveder le stelle”
PROJECT TITLE IN ENGLISH	“And thence we came forth to see again the stars
PROJECT START DATE	01/09/2019
PROJECT END DATE	31/08/2022
PROJECT DURATION	36 months (extension granted due to Covid 19 with September amendment 2021 CUP J95E19000110006)

## ABOUT THE PROJECT

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The project allowed the students involved to implement their scientific-mathematical skills through the approach to the study of astronomy and observation of the sky. The direct observation of celestial phenomena, the collection of data and the guided study of the same in order to formulate hypotheses to be verified in the field have been elements that have made it possible to bring children closer to the scientific method and the history of scientific discoveries in a very concrete way.

Through the mobility in the five European countries belonging to the partnership (Italy, Finland, United Kingdom, Spain, Greece) it was possible to observe from life the celestial vault in places located at different latitudes in Europe, specifically chosen during the design phase in particular points geographical and scientific interest. This allowed us to experience that each observation point offers a different perspective of the celestial vault although it is one and unique for all. Thanks to the possibility of visiting very distant places on the terrestrial network, the children were able to see first-hand how the latitude and the consequent different solar radiation influences many aspects of life on earth, from the hours of light to the climate, from the landscape to human settlements.

In addition to acquiring essential knowledge related to the celestial sphere, it was possible for the pupils to retrace the history of the scientific and technological observations and research that led the human being from cave paintings to the discovery of the globe and the conquest of space. Particular attention was given to the humanistic-philosophical and anthropological approach through the examination of myths, literary, artistic and religious works connected to the knowledge of the sky. The project activities made it possible to use innovative teaching methodologies and new technologies, experimenting with new pedagogical approaches to learning and teaching, developing interdisciplinary programs based on reality tasks, promoting basic skills but also relational and European citizenship.

## OUR PARTNERSHIP

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### **APPLICANT ORGANIZATION** ISTITUTO COMPRENSIVO TORGIANO BETTONA

The Istituto Comprensivo Torgiano-Bettona organization, lead school of the partnership, is a comprehensive institute with different orders of schools, a staff with various professional levels and students ranging from toddlers to teenagers (3-14 years old).

The school is quite big: there are more than 1000 students, the teaching staff consists of 115 people.

Located in the countryside, deployed in several different buildings, distributed in two neighbouring municipalities, the school serves the two small communities of Torgiano and Bettona, lying between the main towns of Perugia and Assisi. People are very interested in the local school and collaborate spontaneously with school staff, local Authorities focus on school needs as much as they can. English is taught to everyone starting from Primary school (age 6) on a regular basis. French is taught starting from Lower Secondary school level only. Sometimes extra projects provide Pre-primary kids with English learning experiences as well. There is a strong commitment in the school about widening the cultural horizon of our students through virtual and physical exchanges with kids all over the world. For years the school has been using ICT as an inclusive tool to benefit pupils with special educational needs, through specific software and hardware. Classroom teachers and teachers supporting SEN students agree about methodologies and tools and adapt them in a flexible way according to the context, as well as to the class responses.

The school contributes to the development and psychological growth of each single student through the construction of welcoming and facilitating environments and good educational-teaching practices. The presence of some innovative environments allows multi-disciplinary activities thanks to video-photographic equipment, robotics kits and 3D printing. Students' experience with coding, computational thinking, digital creativity, digital and media literacy starts from kindergarten and progresses to the end of Lower Secondary school.

The school has always been active in European Project planning. The institute runs two Erasmus projects as coordinator and many partnerships with European schools often with a specific focus on the inclusion of SEN pupils. The institute is also the winner of numerous calls for the 2014-2020 National Operational Program for the allocation of European structural funds. These funds made it possible to use resources to implement students' basic skills and to enlarge the devices availability. Starting from 2014 with a first SAMSUNG SMART FUTURE project, our school has constantly pursued both teachers training activities and digital environment implementation, in order to modernize and improve our teaching methods, making our lessons more engaging and interactive for each and every kid.

Our organisation is part of a network of schools that aims to encourage participatory experiences to create, experiment, and then make new innovative digital curricula available to all schools. The school promotes the active participation of students as co-constructors of their knowledge through the research of alternative methodologies using educational strategies focused on learning games, peer education, laboratory paths and cooperative-learning, even interdisciplinary, open-class activities, use of the eTwinning platform, CLIL activities.





## **PARTNER ORGANIZATION**

**IVALON ALA-ASTEEN KOULU**  
**IVALON YLÄASTE**

Primary school in Ivalo is part of the network of schools in the municipality of Inari in Finnish Lapland, and welcomes around 300 pupils distributed over 6 classes and 30 teachers. The curriculum follows that of the municipality of Inari, entered into force on 1 August 2016 and developed on the basis of the national curriculum.

Primary education is based on the development of basic skills, it aims to ensure equality and the quality of education and create good conditions for growth, development and learning.

A fundamental aspect of the school is to introduce students to their own civilization and traditions and to develop respect and love for the national heritage by becoming aware of the history, language, and national identity. The school participates in an innovative anti-bullying program, KiVa, aimed at preventing, dealing with and monitoring bullying situations within educational institutions. It has embarked on internationalization paths by opening up to cooperation, has introduced innovative educational paths aimed at providing the best conditions for lifelong learning and one of the main objectives it pursues is to raise the basic ICT skills. Great importance in the curriculum is given to the study of Science therefore the school experience and contribution can be important. Its position, almost 70 ° north latitude, also offers unique characteristics and allows the observation of singular phenomena such as the Northern Lights and the Polar Nights. The uniqueness of this landscape is a real open-air laboratory where you can experiment the suggestive observation of the stars without light pollution.

Since September 2021, the students involved in the project have moved on to secondary school and, thanks to the authorization of the Finnish National Agency, they have been able to complete the project activities.



## **PARTNER ORGANIZATION**

**CEIP ANTONIO MACHADO**  
**XIRIVELLA**

The institute is structured on two levels of school, childhood and primary, with about 235 students and a staff of 20 teachers. The center, which supports bilingualism and has joined the AMPA project involving national schools, has as its main interest the improvement of the quality of teaching in favor of students and the social context in which the school is located. The institute is engaged in a process of methodological innovation, thanks to innovative projects to fight school failure, with the aim of improving the quality of teaching and learning. The center participates in several projects:

- the ComBas project which promotes quality education in all member countries and provides for the integration of key competences into the curriculum;
- long lasting education projects that enhance language learning and teaching-learning through basic skills and new methodologies in the various curricular subjects;
- project to encourage the participation, socialization and inclusion of students by offering them games and creative and cooperative workshops in their free time.

The school invests in new technologies and innovation, all classrooms have interactive whiteboards and the IT classroom has been equipped with new computers and optical fiber has been installed. In addition, a program is in place to promote the use of textbooks in electronic devices (tablets). In the center the learning of the English language is promoted, starting from kindergarten; in addition to the hours dedicated to the discipline, English is used as a vehicular language in the artistic area for primary school students. Considering the cultural diversity of the school students, it became necessary to promote their European identity by providing them with the opportunity to get to know other realities and different cultures. Participation in European projects also offers teachers the opportunity to take part in educational cooperation programs that enrich their professional training.



## **PARTNER ORGANIZATION**

### **SCHOOL OF EUROPEAN EDUCATION HERAKLION**

The organization is an educational institution jointly controlled by state governments members of the European Union. It provides multilingual and multicultural education for the Primary School pupils (2 + 5 years of attendance) and Secondary (7 years of attendance).

Secondary education is validated by the European Baccalaureate Examinations at the end of the final year. The Institute welcomes around 300 students and 35 teachers. Regarding the specific social context, the school accepts students who fall into one of the following categories:

- children of the staff of the European Agency for Safety and Information Networks (ENISA) or other agency of the European Union;
- children of the staff of international organizations and diplomatic missions based in Heraklion, Crete;
- children who have at least one parent citizen of a member country of the European Union;
- students from other European schools or European education schools.

The school is open to exchanges and has participated in European projects such as Copernicus, "Inspiring Science Education": Large Scale Implementation Scenarios to Mainstream eLearning in Science, Mathematics and Technology in Primary and Secondary Schools and "Open Discovery Space". The institute also participated in two Erasmus + KA2, an Erasmus + KA1 and an Erasmus + KA 219 project. The Crete Planetarium, the Observatory of Skinakas and the Institute of Astrophysics offer the school many opportunities to organize study trips to research centers, access astronomy laboratories, observatories and interactive simulations. The institute teachers have therefore gained experience both in the scientific field and European projects and constantly collaborate with astrophysics experts.



## **PARTNER ORGANIZATION**

### **ST LEONARD'S CHURCH OF ENGLAND PRIMARY SCHOOL**

At the heart of the Streatham community for over two hundred years, St Leonard's Church of England Primary School aims to prepare its students for a successful career future in an ever-changing world. The school is structured on two levels, childhood and primary, with about 300 pupils and a staff of 40 teachers. It aims to serve its community by providing education of the highest quality in the context of Christian belief and practice. It encourages and cultivates the understanding of the Gospel, it promotes the Christian values of Faith, Hope and Love for all pupils and their families. Through innovative teaching, independence, mutual respect and love of learning are promoted. The school adopts an inclusive methodology especially towards students with Special Educational Needs and disabilities. The school is equipped with a considerable amount of digital equipment (tablets, cameras, PCs, laptops and Apple Macs) which it uses daily in teaching practice. Children are introduced to technology from kindergarten. The school works in partnership with the London Connected Learning Center, which supports it with the implementation of learning through ITCs.

In 2012, the International Primary Curriculum (IPC) was introduced: it is based on a practical and creative approach to learning and teaching. Each year the priorities for school improvement and development are considered and published and they are aimed at an increasingly sophisticated national, international and intercultural perspective. The curriculum provides the teaching of basic fundamentals in Astronomy (5th-6th year)

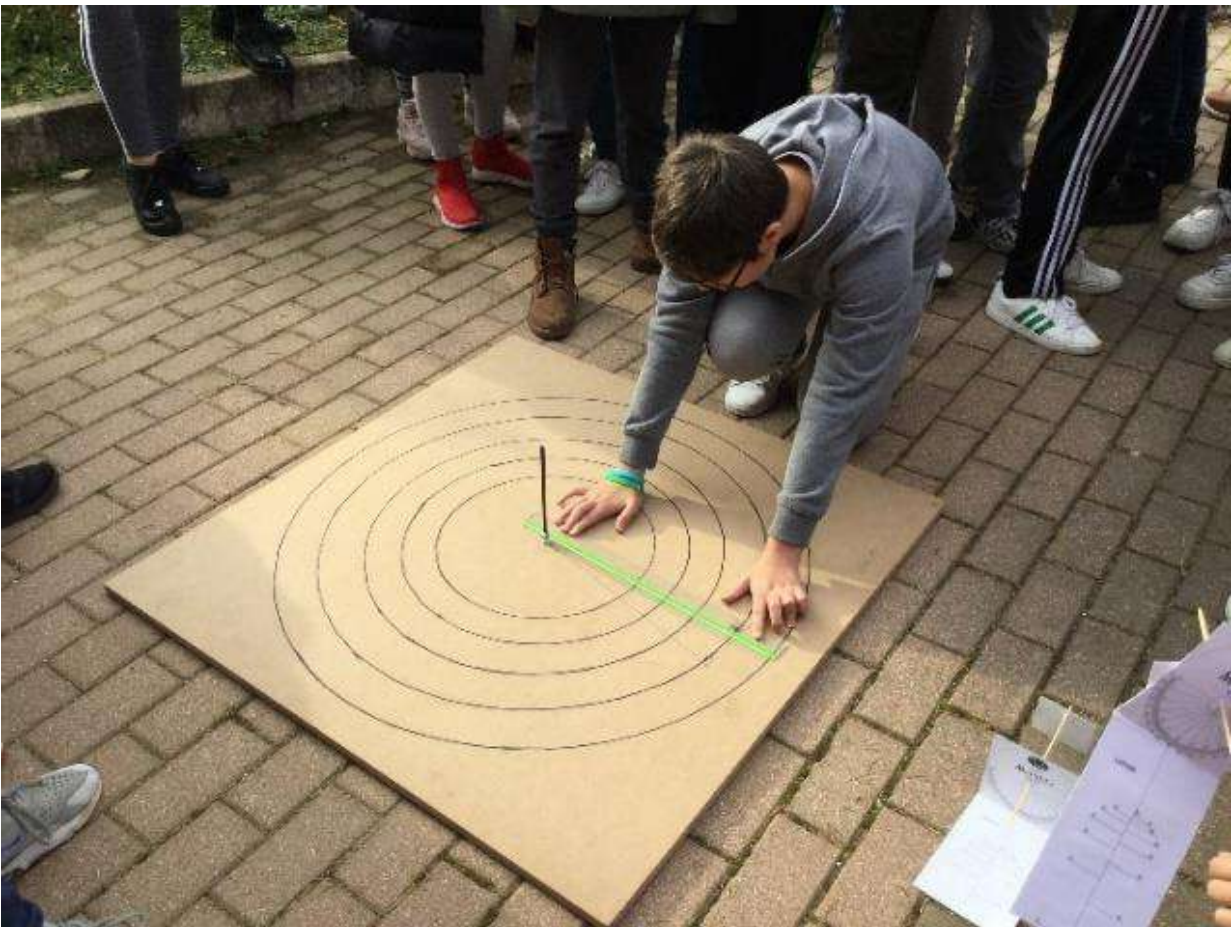
The school has had previous experiences in international partnership related to the now completed LLP Comenius programming (2007-2013).

# PRIORITIES AND TOPICS

HORIZONTAL PRIORITIES
Supporting individuals in acquiring and developing basic skills and key competences
Open education and innovative practices in a digital era

# TOPICS ADDRESSED BY THE PROJECT

Key Competences (incl. mathematics and literacy) - basic skills
Natural sciences
Cultural heritage





## GOALS AND RESULTS

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### STUDENTS

Raising the bar in the following European key competences:

- COMPETENCE N. 3 - Mathematical competence and basic skills in science and technology
- COMPETENCE N. 6 - Social and civic skills
- COMPETENCE N. 7 - Sense of initiative and entrepreneurship
- COMPETENCE N. 2 - Communication in foreign languages

### TEACHERS

Improve disciplinary and methodological skills in the scientific field.

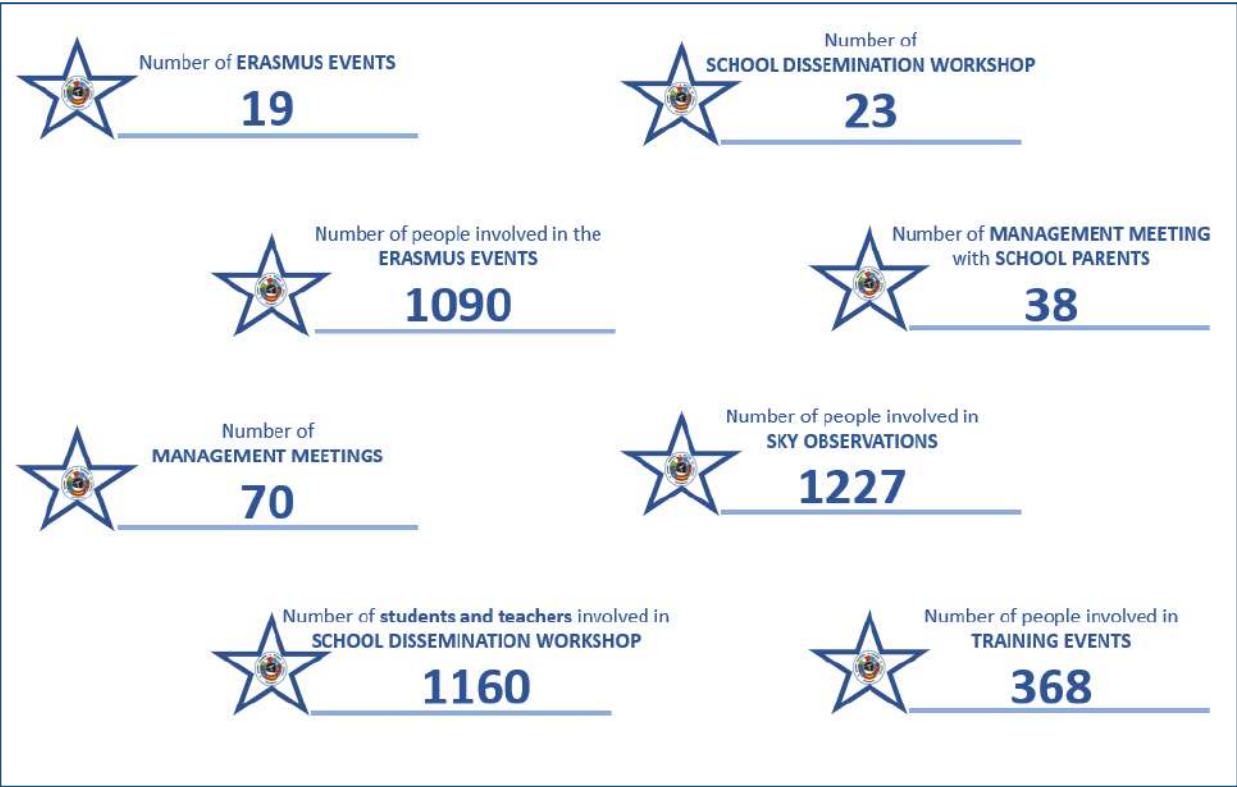
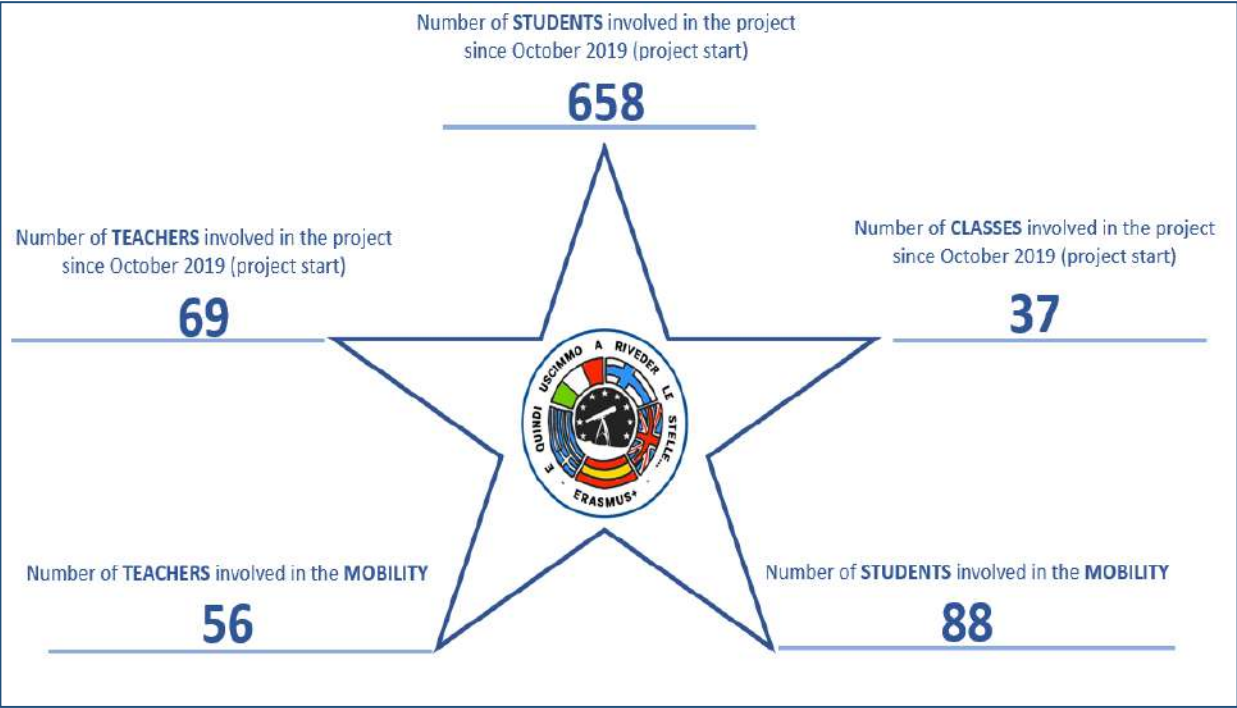
### OUTPUTS

Digital archive of good didactic practices on the subject of the study of astronomy and science with a repository of lesson plans.

Basic astronomy laboratory

Manual of good practices “TOWARDS THE REDUCTION OF LIGHT POLLUTION”

# OUR PROJECT NUMBERS



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GANTT PA	DESCRIPTION	CORRESPONDENCE WITH ACTIVITY TYPE IN THE TIMETABLE OF THE PROJECT
OP03	Cross-Curricular module in preparation for mobilities	P3 - P8 - P14 - P19 - P34
OP04	Teaching modules and thematic deepenings	P4 - P9 - P15 - P20 - P25
OP05	Eramus corner established, maintained, open to public	P5 - P10 - P16 - P21 - P26
OP06	Eramus Event	P6 - P11 - P17 - P22 - P27
OP07	School communities dissemination workshops	P7 - P12 - P18 - P23 - P28
OP08	ETWINNING PROJECT about Light Pollution	P13

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## PROJECT'S MAIN RESULTS

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The project, during its 3 years of life, has carried out all the actions planned in the design phase:

- All the planned activities have been carried out and in particular the didactic activities related to the transversal module, the didactic modules and the thematic in-depth studies designed for each mobility. The methodological system was developed taking into account the planning phase, favoring the experiential approach, the direct observations and the experiments with professional tools, as well as with materials specially created by students with structured materials.
- Despite the situation linked to the pandemic, all the planned transnational project meetings have been carried out.  
Each mobility required remodeling and even more accurate and careful planning due to the security measures related to the pandemic, which from time to time were adopted by national institutions to deal with the emergency.  
Numerous online meetings took place to ensure that every aspect was planned in detail. Despite the efforts and measures implemented, the English partner was unable to take part in some of the planned mobility activities.
- In addition to the mobility activities, two online meetings were held, which were not initially planned, in which students and teachers had the opportunity to meet, get to know each other, discuss the path to be followed and the actions to be taken.  
One of these meetings was organized for the Erasmus Days 2021.
- The raising of the levels of European Key Competences of students n. 2, 3, 6, 7 was achieved even if in slightly different percentages from those foreseen in the design phase.
- The project had a positive impact on the professional development of the school staff. Specifically, 76% of teachers declared, through an evaluation questionnaire, an increase in their disciplinary and methodological skills in the scientific field of over 30%, compared to the pre-project phase. The prediction that was made in the planning phase, in which a self-assessment increase of at least 10% compared to the starting point was desired, was widely confirmed. 40% of teachers reported an increase of over 50%.  
Furthermore, the propensity for involvement in future European projects has grown significantly. 80% of teachers said they wanted to participate in future European projects and 100% highlighted how the internationalization process is fundamental for their school. 97% of teachers would like their school to participate in other European projects in the future.
- The project meetings took place regularly in each school and all the necessary strategies were put in place so that the planned actions could be implemented, notwithstanding the difficult situation that emerged from March 2020 onwards.

■ The meetings between the partners took place in an atmosphere of serene collaboration. Everyone has given their contribution sharing their experience and skills. The lead school took care of the general coordination of all the project activities, prepared the preliminary activities, organized the first project meeting in which training activities and meetings were carried out; it focussed on the practical organization and management of the planned actions, it conceived and created the TwinSpace and organized the fifth and final mobility in which the final data collection and evaluation actions, the evaluation of the project itself and the final dissemination event took place. The partners have made a valuable contribution by carrying out all the planned activities and managing the organization of the mobility activities in each of the countries very effectively, also promptly managing the difficulties related to the planning of activities in a situation that was not easy to manage. Teams of teachers were created in all schools who supported the project coordinators for general, didactic and administrative areas in order to ensure the effectiveness and feasibility of the planned actions.

■ The monitoring and evaluation of the activities were uninterrupted and made it possible to constantly monitor all the planned actions. Skills certificates have been created specifically to detect incoming and outgoing project skills. These skills were assessed through shared rubrics. Each mobility as well as the other major project actions were evaluated through an evaluation and satisfaction questionnaire.

■ The whole partnership contributed to the dissemination of the activities throughout the project. Relations with the press and the media have been constant, the publication of the entire project documentation in the TwinSpace and on the pages of the institutional sites of each school will guarantee unlimited access over time to all the contents produced.

■ Numerous teaching materials have been produced and tested; they have converged into an *Archive of good teaching practices in the astronomy and science field* which also includes a *collection of teaching plans*. These open source materials will be implemented in the future and each school has already initiated a review of their school curricula so that the teaching modules developed during the project activities remain available to teachers and students.

■ Each school purchased astronomical equipment that allowed the various schools and local communities to benefit from concrete experiences of sky observation even outside the activities envisaged by the project. Over time, these equipment will be implemented and will allow the creation of real Astronomical Laboratories. The installation of the Polar Pointer, a sort of directional indicator of the astronomical north, is a concrete testimony of the project in the territories to which each school community belongs.

■ The creation of a Manual of Good Practices for the Reduction of Light Pollution testifies the constant search of paths to create concrete products whose results effectively fall on the entire community.



Multiple actions have seen the involvement of numerous stakeholders. Local and regional administrations, regional school institutions and administrations, local associations, amateur astronomers associations, parents' associations, school and local communities have contributed substantially to the success of the activities, especially during the host mobility, highlighting a great interest in this project, especially for the actions aimed at the internationalization of the schools involved. The impact on local communities was very positive.

There was a strong interest in the project. The possibility of exchanges with other European countries has been a strong stimulus and an active commitment for all the schools involved and for the communities in which they are located. The experience represented a concrete possibility of meeting and getting to know realities very different from those of origin.



# WORK PLAN

During the three years of the project, 6 modules were developed: an interdisciplinary one and five specific modules that addressed the focus of the project in a different way.

## CROSS-CURRICULAR MODULE

The topics undertaken in this module were useful to approach the study of the fundamental principles of Astronomy and to acquire the necessary basic knowledge for the incoming tasks. The students, in their own country, were introduced and guided to a conscious observation of the sky, gathering information about their surroundings, starting from personal sensory perceptions (instinctive observation) and arriving at a methodical and conscious observation. They examined the data emerging from these activities and formulated hypotheses regarding similarities / differences with the data provided by the partner countries. Each mobility was therefore an opportunity to see how “we see different things” at different latitudes and to understand the importance of the relativity of observation with respect to one's own point of view.

## MODULES

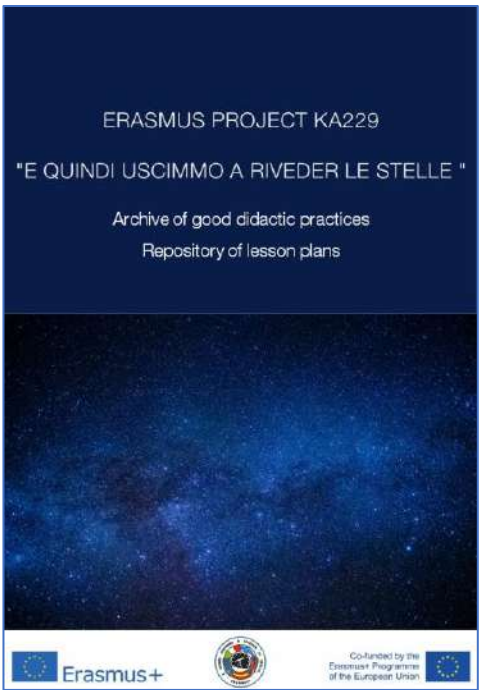
The five modules that were developed by the schools before each mobility allowed students and teachers to further analyze aspects related to the central focus of the project.

FINLAND	The first didactic module, which was developed by the various schools in the months prior to the mobility in Ivalo, provided the analyses of the Sun as a reference point for diurnal orientation and deepened its relationship with the Solar System.
SPAIN	The didactic module that was developed before the mobility in Valencia allowed to analyze scientific discoveries in the astronomical field and their impact on human life. The evolution of orientation tools was also examined, that is, how man passed from star orientation to extremely high-precision satellite systems.
GREECE	The didactic module developed in preparation for the mobility in Crete enabled students to analyze mythology and celestial constellations by deepening: - the history and mythology related to the constellations starting from the knowledge of the origin of their names; - the stars and their symbolism; -the myths and legends related to the celestial vault.
UK	The didactic module that was developed before the mobility in London provided the analyses of the Earth, its motions and the reference systems that man has developed to orient himself using valid criteria for the construction of both terrestrial and celestial geographic grids.
ITALY	The last didactic module that was developed in the months preceding the mobility in Italy allowed to analyze admirable examples of art and literature inspired by astronomy.

In addition, each country contributed with a thematic study identified on the specific characteristics of the place.

FINLAND	The Finnish school organized a thematic study on phenomena related to the activity of the Sun also through direct observations of the NORTHERN LIGHTS and POLAR NIGHTS.
SPAIN	The Spanish school organized seminars and experiential moments at the Garden of Astronomy and the City of Art and Science of Valencia
GREECE	The Greek school prepared a thematic study on Greek mythology; the myths belonging to the culture of each country were compared to detect similarities and differences.
UK	The English school has organized an in-depth study on the reference systems on the earth surface with particular regard to the geographic grid and geographic coordinates.
ITALY	The thematic study of the Italian school took into consideration the analysis of some of the main works of art that drew inspiration from the celestial vault.

All the activities of the modules were initially tested by the teachers during the basic training course in Astronomy which took place during the Kick off meeting under the guidance of Professor Simonetta Ercoli of the StarLight Association – a handy planetarium. Subsequently, the materials were reworked and enriched taking into account the experience gained in this area by the schools involved in the project. The teachers involved have experimented the path in their own classes and have developed a repository of lesson plans that will remain open for future implementations and available to anyone who wants to approach this path.



ARCHIVE OF GOOD TEACHING PRACTICES  
IN THE ASTRONOMY AND SCIENCE FIELD  
WITH A COLLECTION OF LESSON PLANS

## HOW WE WORKED

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The methodological system was developed taking into account what was initially planned, promoting the experiential approach, direct observations and field tests with professional tools and artifacts specially created by the students. The students, supported by the teachers, had the opportunity to put into practice the experimental scientific method in real contexts and to compare the collected data pointing out differences and similarities.

The use of the English language was constant in all phases of the project implementation. In the classrooms, students explored and deepened all the topics related to the project and this produced an expanded vocabulary with scientific and astronomy related terminology. During the online and face-to-face meetings, students and teachers had the opportunity to test their skills, especially in terms of communication.

The use of digital technologies has been constant and fundamental during the period of the pandemic.

The use of tools for sky observation was deepened thanks to the support of experts who conducted thematic workshops to introduce softwares such as Stellarium and Mitaka to teachers. Experts also conducted remote sky observations with students during the period of the pandemic.

The constant connection with peers allowed the creation of real collaborative experiences for the planning and management of the project activities. The organization of the hosting mobility has really triggered a process of sharing intentions and actions. All this has led to unique experiences which have seen the school and the community work side by side.

The mobility experience was a moment of great enrichment and not only for those who benefited directly from it. All the students participated in the creation of in-depth materials and presentations of their schools: presentation videos of their countries of origin, cultural related material and activities, works on traditions and life habits of children were prepared. The dissemination activity was accurate and involved both the school community and the local communities. Local and regional administrations, regional school institutions and administrations, local associations, amateur astronomers' associations, parents' associations and school and local communities have contributed substantially to the success of the activities by enhancing their artistic and cultural heritage. The experience represented a concrete possibility of meeting and knowing very different situations.

## PARTICIPANTS

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The Project involved about 650 students, between 9 and 13, and 69 teachers who took part directly in the planned educational activities. The 37 classes involved worked on the six didactic modules, a transversal one and five modules linked to specific thematic insights, one for each mobility. The students were engaged in experimenting activities, building tools for data collection, developing materials to document the activities, formulating hypotheses and collecting information that was then compared and shared during each mobility. All the school communities, about 1150 students and teachers, have been involved in dissemination activities with both face-to-face and online events. When it was possible, especially during the pandemic, tutoring actions were activated to bring the activities to the classes that were not directly involved in the project, in order to share the knowledge related to the project theme through the acquired methodologies and the tools that had been created.

All the students took part in the designing and planning of the activities foreseen for each mobility and their contribution was fundamental for the final success.

As for mobility activities, 88 students and 56 teachers were involved. These "special envoys" have accomplished a very important task in linking the home schools and the partnership schools. All the activities and surveys carried out during the class work on the didactic modules were collected and compared during the mobility. The scientific data and the hypotheses formulated by each school were reported on a common table, during the transnational meetings, in order to highlight similarities and differences. Students and teachers on the move then had the task of reporting what they learned from direct experience to their schools of origin.

Families and local communities were involved in all the dissemination activities of the project: 19 Erasmus events were held in which a total of about 1100 people participated and numerous sky observation events were organized, in which over 1200 people were involved. Local administrations, school offices, local associations, parents' associations, local universities have played a fundamental role in the preparation of reception activities for the six planned mobilities. The economic and logistical support was decisive for the success of the planned initiatives.

The management and administrative offices have constantly supported the project actions, especially in the planning of the mobility activities, both abroad and in their own country.



# PROJECT MANGEMENT

The Italian school played the role of coordinator and promoted the original idea of the project. It gathered well-known partners (the Spanish, English and Finnish schools) and partners met in eTwinning (the Greek school). They were united by an interest in the subject area of the project, as well as located in geographical positions functional to the development of the project itself.

For the above, the various partners have carried out the following actions:

ITALIAN SCHOOL
<ul style="list-style-type: none"><li>▪ General coordination.</li><li>▪ Organization of all the PREPARATORY ACTIVITIES to define the organizational and bureaucratic aspects including the sharing of the functional organization chart and the definition of the profiles of those people who have held responsibility roles within each school.</li><li>▪ Organization of the KICK OFF MEETING during which a specific training in Astronomy was held in English, as well as the sharing of teaching materials useful for the activities to be carried out at school and on the move and the definition of common methodological and evaluation practices.</li><li>▪ Creation of the TWinspace of the project.</li><li>▪ Organization of the FIFTH AND LAST MOBILITY MEETING in which, comparing the experiences of the various countries relating to the path undertaken, a global evaluation of the project was carried out according to the final report.</li><li>▪ Collection of all materials and documentation produced during the project and outlining of the final report.</li></ul>
FINNISH SCHOOL
<ul style="list-style-type: none"><li>▪ Organization of the FIRST MOBILITY MEETING.</li><li>▪ Participation in the outlining of the final report</li></ul>
SPANISH SCHOOL
<ul style="list-style-type: none"><li>▪ Organization of the SECOND MOBILITY MEETING.</li><li>▪ Participation in the outlining of the final report</li></ul>
GREEK SCHOOL
<ul style="list-style-type: none"><li>▪ Organization of the THIRD MOBILITY MEETING.</li><li>▪ Participation in the outlining of the final report</li></ul>
ENGLISH SCHOOL
<ul style="list-style-type: none"><li>▪ Organization of the FOURTH MOBILITY MEETING.</li><li>▪ Participation in the outlining of the final report</li></ul>

All partners also carried out the activities related to the transversal module, the five didactic modules provided and the planning, management, documentation and reporting of the mobility activity held in their country, collaborating mainly in the uploading of textual, video and photographic documentation in the TwinSpace and in the implementation of the repository of good teaching practices and lesson plans developed during the project.

From the early stages of the project, the communication between the partners took place in multichannel mode, i.e. via email, instant messaging applications and videoconferencing tools. During the Kick off meeting the didactic activities and all the actions necessary for the management, monitoring and evaluation of the project were planned in detail.

The meetings that took place both online and during the mobility ensured that all planned actions were completed successfully.

The coordinating school has always made itself available to help find useful solutions in case of need and the partner schools have implemented actions for effective cooperation.

Considering the extension of the project duration due to the pandemic, as well as the consequences that this also had on the schools staff, each time that new members joined the transnational project group, as substitutes, we have provided all the useful information and all the necessary support in the fastest and most effective way, in order to assure the same working conditions had by their predecessors and to minimize every possible difficulty.

Even in the periods in which the interval between face-to-face meetings was greater due to international measures to contain the Sars-CoV-2 virus, the community of people involved in the project was kept in continuous virtual relationship and through the various channels a sense of belonging to the project was cultivated in the group and a strong will to carry it out anyway, which was decisive for the achievement of all objectives.

In order to share what emerged from time to time from the project meetings, minutes were drawn up, always available to all partners also in the TwinSpace.

# LEARNING TEACHING TRAINING ACTIVITIES

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During the Kick off meeting, the criteria to use the grant of each mobility and the reporting methods for each partner were defined with the colleagues.

Each host country contributed to the search for suitable accommodation facilities corresponding to the quality standards defined during the initial meeting and supported the partners in the search for flights and transfers more responsive to the program of each mobility, also supporting the delegations in case of unforeseen events (delays, flight cancellations ...).

Initially it was planned that teachers and students would be hosted in families for two substantial reasons:

- have more funds available to involve a greater number of students in the mobility than expected;
- allow students to be totally involved in the experience using their skills also in the different situations of life within families.

This was only possible for the first mobility in Ivalo. Subsequently, due to the pandemic, the delegations stayed in hotels and the host schools took care of the meals and transfers provided for the planned activities.

The initially defined mobility calendar has also been modified and adapted from time to time, implementing practical provisions in response to the emergency. Where necessary, the health authorities, prevention offices and coordination centre of Covid were contacted to plan the most appropriate measures to ensure that the activities were carried out as safely as possible. Each school informed the classes involved in the project about the planned mobility and started the procedures for selecting the candidates following these criteria:

- A. willingness to carry out mobility in any period and destination and willingness to host a student;
- B. willingness to participate in afternoon and evening meetings at school or in other places for activities related to the project;
- C. ability to work in a team (compliance with the rules, organization, punctuality, flexibility);
- D. positive evaluation of behaviour and profit in all disciplines;
- E. good written and oral English, the communication language of the project.

The requirements from C to E were assessed by a specific commission according to the most recent formal assessment documents, within each school that examined the applications; a ranking list has been formed, through which participants in the various mobility activities were identified.

The preparation and support activities for the participants were different, depending on the different types of subjects involved.

## TEACHERS

In the first phase of the project during the Kick off Meeting, the teachers benefited from specific training on the topic of Astronomy thanks to an intensive course. These teachers then shared with their school colleagues what they had experienced and all the information related to the organization and planning of project activities.

All the teachers who participated in the mobility were directly involved in the planned actions and played an essential role of coordination and connection between the classes that carried out the data collection at school and the small group of teachers and students that took part in the mobility activities.

The project team teachers supported the teachers involved in the mobility activities and prepared them. The staff of the coordinating school also held the same role for all project teams of the partner schools.

The accompanying teachers supported students in mobility: two/three teachers for each group of four/seven students proved to be an advantageous numerical ratio that guaranteed maximum attention for each student.

#### STUDENTS

Students who participated in the mobility were asked to represent their school in the sharing of experiences previously carried out at school and they worked on laboratory and experimental activities, analysis, synthesis and sharing that were conducted during each international meeting.

Before each mobility, preparatory meetings were held with both students and families.

The students gathered and synthesized the material collected in their classes and used it to plan a presentation that took place during the mobility; they were supported in the exposure in English of their work. The shared rules to be kept during the trip and the stay in the partner countries were also worked out together.

#### FAMILIES

The meetings with the families were informative and organizational in nature and allowed to collect the authorizations, the necessary documents for the trip and the certificates of custody of minors to accompanying teachers.

Formal agreements, with details of the activities to be carried out in mobility activities, were signed with both families and accompanying teachers. The same happened with the host families for mobility in Ivalo.

Upon returning from each mobility, further meetings were held to prepare the dissemination activities.

As for the SAFETY PROCEDURES, they have been explained for each subject in an individual Crisis Action Plan, containing all the useful information to provide immediate help in case of any critical situation, not only health related.

Each school has set up - if not already provided - an insurance policy for all people in mobility, with details on the coverage of all the activities scheduled in the week of travel abroad, including para and extracurricular and recreational. For mobility after March 2020, all the necessary documents and all the measures that had been requested from time to time by the OMC and the ECDC have also been prepared.



## KICK OFF MEETING

During the initial meeting, which was attended by teachers from the project partner schools and members of the local community that was hosting, the following activities took place:

- **TRAINING COURSE ON ASTRONOMY EDUCATION, BASIC LEVEL - 15H** (5 sessions of 3 hours)

The course allowed the teachers to deal with the topic in an interactive way. Through the use of structured materials, Professor Simonetta Ercoli presented the main issues relating to daytime orientation, nighttime orientation and the solar system. The course allowed all participants to broaden their knowledge and acquire skills such as to be able to re-propose in the classroom activities of data collection with their naked eye and with tools, recognition of geographical references and constellations, reading of maps and other representations of the celestial vault. All the activities have been concretely exemplified and not only illustrated on a theoretical level, so that everyone could be able to replicate them correctly.

A guided night trip was carried out at the observatory Gruppo Astrofili di Costa di Trex - Assisi.

- **WORKSHOP FOR SHARING TEACHING MATERIALS AND EXCHANGE OF GOOD PRACTICES - 6H** (3 meetings of 2 hours)

The teachers divided into small groups worked on sharing methodologies, good practices and significant models that facilitate the connection between curricular activities and situations of reality necessary for the success of the project activities.

- **TRAINING MEETING ON THE ETWINNING PLATFORM - 3H** (a 3-hour meeting)

ETwinning Ambassador Patrizia Roma conducted a training meeting aimed at illustrating the potential of the eTwinning platform. During the meeting, the participating teachers registered on the platform and they saw some relevant projects as examples of good practice.

- **KICK OFF MEETING ERASMUS EVENT**

At the end of the meeting a final event was held in the presence of pupils and teachers from the lead school, teachers from partner countries, the Mayors of Torgiano and Bettona, representatives of the USR, parents' associations and the local press. During the event, the project and the teachers in charge of the partner schools were presented.

Since only some of the teachers of the partner schools had already had the opportunity to know each other in the past, the possibility of deepening, for most of the subjects involved, the knowledge established during the design phase in virtual mode, was a great opportunity for professional growth.

The teachers were involved in training sessions and a very important resource was the opportunity to implement the use of the English language in the situation, with particular reference also to the sectoral language related to the topic of the project.

One of the most interesting aspects of the activities carried out during the initial meeting was certainly the possibility of sharing didactic experiences, methodological practices, good working practices.







The first mobility with students took place in Ivalo. For all the participants it was a journey full of great emotions in such a different land and at a latitude so close to the North Pole.

As expected in the design phase, the host school organized workshops and meetings to deepen the topics related to the first didactic module which had the Sun and related phenomena as its focus. During these activities it was possible to carry out some fundamental actions for the success of the project:

- comparison and discussion in the working groups regarding the previously formulated hypotheses;
- observation of the sky with the naked eye to trace the circumpolar constellations;
- observation and recording of the hours of night and day;
- comparison of the data collected in the various countries in order to ascertain the relativity of the observation in relation to one's point of view (latitude);

The Finnish school organized a meeting with Professor Juhani Harjunharja on phenomena related to the activity of the Sun. It was also possible to directly observe some phenomena present only in this country: the Northern Lights and the Polar Nights. The teacher and the students of the Sami section of the school held a workshop on the customs, traditions, school system of the Sami people.

All delegations, pupils and teachers of the organizing school and members of the local community attended the official inauguration ceremony of the Polar Pointer and the final Erasmus Event.

One of the aspects that really made the difference was the opportunity to live some cultural and recreational experiences that allowed students and teachers from other countries to learn about Finnish customs and traditions but above all to immerse themselves in the majesty of the landscape of Lapland:

- guided tour of Ivalo, Inari and Saariselkä;
- visit of the host school and the SAKK, a Sami Institute with a professional orientation with fields of study such as education in reindeer herding and activities that support reindeer breeding, crafts, tourism and media education;
- guided tour of the Parliament, the museum and the Sami cultural center;
- visit to the SKABMACOVAT theater, an open-air cinema completely built with ice;
- Arctic winter activities (ice fishing, ice sculpting, cross country skiing...).

The strength and the added value of this mobility was having been able to touch what was hypothesized at school, with the students. Four days of laboratory immersed in nature that allowed participants to carry out surveys and to obtain all the necessary parameters and data from direct experience.

The whole local community supported the preparation and implementation of the mobility.









## VALENCIA MOBILITY

This second mobility, the first after the difficult period due to the pandemic, was very important for all the partners who were able to meet again, managing to discuss and enthusiastically plan the final phase of the project. Unfortunately, the British delegation was unable to take part in the mobility due to the restrictions due to Covid-19.

The Spanish school, despite the restrictions due to the contingent situation, welcomed the delegations by organizing all the activities with great punctuality and in compliance with what was planned. Teachers, parents' committee, political and school authorities of the city of Xirivella, CEFIRE experts, ensured that teachers and students of the partner delegations could live an experience rich in meaning both as regards the actions most closely connected to the topic of the project both for the cultural and traditional aspects of the host country.

As for the previous mobility and following the planning outlined in the design phase, some activities of great importance for the success of the project were carried out:

- seminar on the thematic in-depth analysis of this action held by the professor of biology, geology and astronomy Sensio Carratalá (consultant CEFIRE de Torrent, scientific sector).
- re-elaboration of the contents of the seminar and of the in-depth analyzes carried out in the home schools through team games coordinated by the host school;
- comparison and discussion in the working groups regarding the previously formulated hypotheses;
- comparison of the data collected in the various countries in order to ascertain the relativity of the observation in relation to one's point of view (latitude);
- observation of the sky with the naked eye to trace the circumpolar constellations;
- observation and recording of the hours of night and day;
- visit to the Titaguas School of Cosmophysics (Planetarium, astronomical observatory, sundial, meteorological station)
- visit and workshops at the City of Science of Valencia;
- Polar Pointer installation ceremony in the school yard and final Erasmus Event.

The delegations had the opportunity to visit the city of Valencia, the Oceanographic Museum, the Fallas Museum. They were able to eat typical local dishes and watched a traditional dance show.

The whole local community supported the preparation and implementation of the mobility.









## CRETE MOBILITY

The third mobility action took place in Heraklion, on the beautiful island of Crete. Unfortunately, the British delegation was unable to take part in the mobility due to the restrictions due to Covid-19.

The Greek school planned everything in compliance with the program, offering numerous activities that made the experience very meaningful and interesting:

- comparison and discussion in the working groups regarding the hypotheses relating to the measurements previously carried out by each country;
- comparison of the data collected in the various countries in order to ascertain the relativity of the observation in relation to one's point of view (latitude);
- observation of the sky with the naked eye and with instrumentation to trace the circumpolar constellations at the Venetian Wall in Heraklion. The observation was led by Panagiotis Pantzekos (member of the Cretan Association of Friends of Astronomy);
- observation and recording of the hours of night and day;
- Polar Pointer installation ceremony in the school yard;
- workshops among teachers to take stock of the situation, highlight strengths and weaknesses and plan the next actions;
- seminar: "Ancient Greek Mythology", held by Panagiotis Pantzekos (member of Cretan Association of Friends of Astronomy);
- seminar: "Seeking Truth with Light" held by Professor Vassilis Harmandaris (Professor of Observational Astrophysics, Department of Physics, University of Crete, Skinakas Observatory);
- speech by Prof. Evangelopoulos Panagiotis Public Outreach officer, Institute of Astrophysics (FORTH) who presented the Basic Labs - NAAP Project;
- presentation of the e-book "Looking at the night sky", created by Professor Dimitra Tsionou (Phd in Particle Physics, Physics teacher of S.E.E.H.);
- workshops to present the works prepared by the students of each school to compare myths and legends related to the constellations;
- Final Erasmus Event.

The delegations visited the city of Heraklion and were received by the Deputy Mayor of the city. Guided tours were also organized at the Historical Museum, the Archaeological Museum, the Palace of Knossos and the Aquarium of Crete.

It was a real immersion in Cretan traditions with tastings of typical dishes and performances of traditional dances.

Particularly noteworthy is the Welcome Show entirely made by students and teachers of the school.









## LONDON MOBILITY

The fourth mobility took place in London from 2 to 7 May 2022. The English school organized all the planned activities, focusing on the experiences related to the in-depth study of the educational module provided for this mobility. The students have, in fact, previously worked in their own schools on the analysis of the motions of the Earth and on the reference systems that man has developed to orient themselves using valid criteria for the construction of both terrestrial and celestial geographic networks.

The observations and data collection relating to the diurnal orientation had now been completed before the mobility in Crete so, for this mobility, the study of the Moon and its phases was deepened.

During the work sessions dedicated to the topics related to the transversal module, the students carried out the following activities:

- comparison and discussion in the working groups regarding the previously formulated hypotheses;
- simulated sky observation at the planetarium;
- observation and recording of night and day hours and data tabulation;
- comparison of data in order to ascertain the relativity of the observation in relation to one's point of view (latitude);
- collegial identification of the best location and orientation during the installation of the Polar Pointer previously prepared by the host school.

With regard to the didactic module and the thematic study, the teachers of the English school carried out a lesson on reference systems on the earth's surface with particular regard to the geographic grid and geographical coordinates and a seminar on the Moon Phases, also offering students an activity workshop which was particularly appreciated as it involved the creation of the lunar cycle with cream and chocolate biscuits.

The teachers had the opportunity to discuss in a work session for the penultimate phase of monitoring the project in view of the final mobility in Italy.

London is certainly a city that offers numerous cultural, artistic and recreational possibilities.

The English school has planned and implemented the following activities:

- visit of the City;
- visit to the Museum of Natural Sciences;
- visit to the Greenwich Observatory and the Planetarium;
- boat ride on the Thames;
- West End show "The Play That Goes Wrong".

Every evening it was possible to taste typical local dishes.







Final mobility in Italy was very important for the project. After three years of work, in which the partnership had to face various difficulties due to the pandemic, getting together to conclude the activities was very exciting.

During the final workshop the students, in heterogeneous groups by nationality, with the support of the teachers, were able to:

- compare the sensory data that emerged during the various mobility;
- observe, discuss and compare the data acquired regarding the diurnal orientation (Arco del Sole, Azimuth) and the nocturnal orientation;
- compare the data in order to ascertain the relativity of the observation in relation to one's point of vision (latitude).

The teachers compared their experiences regarding the general progress of the project by preparing the materials necessary for the evaluation of the same according to the final report.

On the day of arrival, the delegations were welcomed at the Monastery of the Santissima Annunziata in Amelia, a structure located in a truly enchanting place with no light pollution and which houses a Planetarium. Friar Andrea Frigo, head of the structure, physicist and expert in astronomy, led an observation of the sky both inside and outside the Planetarium.

As regards the thematic study related to this mobility, the host school organized the following activities:

- Seminar "Stories of blue. Journey through the starry skies in the history of twentieth century art" by Viviana Tessitore, Art Historian;
- Workshop activity "A sky full of stars";
- Seminar "Dante's universe between ancient and modern astronomy" by Professor Sperello di Serego Alighieri, Astrophysicist and descendant of Dante Alighieri;
- Caviardage workshop (reading passages of literature inspired by the celestial vault, composition of a personal work with the Caviardage technique which was then written and illustrated on a shirt);
- Activity of reading aloud, with the Kamishibai, of stories specially written by the students of the host school;
- Theatrical performance "The Copernicus child" wrote, staged and directed by Oliver Page;
- Procession and historical re-enactment of the Salt War in Torgiano.
- The following activities were also carried out:
  - Visit of the city of Rome with a particular focus on the Vatican Museums;
  - Visit of the city of Assisi with focus on Giotto's frescoes in the Basilica of San Francesco;
  - Visit of the city of Perugia;
  - Guided tour by the students of the host school from the villages of Torgiano, Bettona and the Sculpture Park of Brufa;
  - Inauguration ceremonies of the Polar Pointers located in the two municipalities of Torgiano and Bettona;
  - Final dissemination Event in the presence of the authorities, local communities and the press.

There were numerous convivial moments where it was possible to taste typical local dishes.

Before the mobility, each delegation prepared the materials for carrying out the final activities collect the information and data that emerged during the course and formulate hypotheses regarding the final comparison. The Italian school organized the activities with the students in such a way that the 15 classes involved were all protagonists during the reception of the partner schools. Local communities, administrations and pupils' parents were involved and supported the entire preparation and implementation of the mobility.











## CHALLENGES

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Surely the biggest challenge was the one derived from the Covid 19 pandemic. After March 2020, after an initial moment of bewilderment, all the partners faced the difficulties and, by mutual agreement, they engaged to remodel, reschedule and complete all the project activities. This required a great deal of effort and a considerable amount of energy when everyone was dealing with a very difficult and unprecedented situation 'at home'. Fortunately, during the first months of the project, up to the first planned mobility in Ivalo, Finland, all the activities planned for the transversal module had already begun and the foundations for all subsequent works had been laid. The activity plan was therefore revised in terms of timing and methods of implementation, but not in contents and purposes which were maintained as planned at the beginning. The greatest difficulty was linked to the redefinition of the mobility calendar: for London, for example, the dates had to be rescheduled 3 times.

Being able to reconcile each partner's needs was the confirmation of the solid structure of the partnership which was based on existing relationships but also on new "friendships / alliances" that have been able to integrate adequately and have positively contributed to overcoming the difficulties that emerged. Despite efforts to identify useful dates for all, due to anti-Covid regulations, the British partners were unable to take part in two of the four mobility activities that were planned for them as well.

With the delay due to pandemic and the subsequent extension of the activities in the Italian school, several classes involved in the project reached the end of their schooling and left the institution to continue with the next level of education. This changed the set of target students, preventing fully comparable measurements between the starting point and the ending point as assumed in the application.

The students of the Finnish school who had started the project in 2019, passed from primary to secondary school in September 2021. On the date of the project extension, those secondary schools were configured as autonomous institutions. An official request to the Finnish National Agency was therefore necessary to carry out the transfer of the project from one Institute to another, allowing the students to complete the activities.

In some schools the staff of teachers changed as well and this required a greater involvement of remaining teachers to train and support the newly arrived colleagues. The Greek school saw the alternation of both the Headteacher and the teacher in charge of the project. Also in this case the school was supported by the coordinator in the handing over and redefinition of tasks and responsibilities.

FACE YOUR  
CHALLENGES  
AND NEVER  
GIVE UP YOUR  
DREAMS



# DISSEMINATION

The dissemination of the results was constant throughout the project activities. All partner schools shared their actions both through TwinSpace and through their own means of communication (school websites, social media pages ...)

Within each school, physical Erasmus Corners were set up in which photos, posters and other products were constantly posted. During the pandemic period also virtual corners were provided, so that the project actions were constantly disseminated:

- [https://it.padlet.com/luciana\\_lapucci/zb3e1cdm91t7feea](https://it.padlet.com/luciana_lapucci/zb3e1cdm91t7feea)
- <https://padlet.com/danielarosati71/5rigg9xobrhi>

23 WORKSHOPS were organized for the dissemination of the activities, also in peer to peer mode; it was a very interesting way to test the contents learned and to involve about 1160 students and teachers.

About 1100 people participated in 19 “ERASMUS EVENTS” organized by the partnership to share the project activities with families and local authorities, especially after returning from each mobility.

Over 1200 people attended the sky observation events that took place during the project.

Other output produced:

- Manual of good teaching practices and lessons programs on scientific-astronomical theme;
- Manual of good practices for the reduction of light pollution;
- Polar Pointers installed in each school or territory as a tangible sign of the project for the community;
- instruments for astronomical observations made by teachers and students, available in the TwinSpace;
- artistic products created during the project activities that are exhibited in the various schools.

All the local communities of the partner schools have been involved in the welcome actions, and have contributed substantially to the positive results attained, as well as to the enhancement of the natural, artistic and cultural resources of their territory.

In each country the local press was involved in the dissemination of both cultural initiatives and results linked to the project; numerous articles were produced for local newspapers and web; news reports were broadcast by local TV channels.

For each event, advertising material was created on the websites of the various schools and delivered to the participants during the activities.

All the material produced is visible in the TwinSpace of the project which contains:

- textual, video and photographic documentation produced during the kick-off meeting;
- textual, video and photographic documentation of the experiences and activities carried out during work in schools, during the didactic modules and during the transversal module;
- textual, video and photographic documentation of all mobility actions;
- textual, video and photographic documentation relating to dissemination activities;
- photographic documentation of all the events carried out;
- video presentations prepared by students to introduce themselves and their school;
- press review and news programs broadcast on local broadcasters;
- posters, flyers, brochures, materials produced during the project in order to disseminate and share the initiatives related to the project;
- materials created for the production of the Project Logo and for the design of the Polar Pointers;
- archive of good teaching practices and lesson plans on scientific and astronomical themes;
- materials about the planning and organization of the various phases of the project (newsletters, reports of the meetings, mobility calendar, plan of didactic activities).

# ASSESSMENT

Monitoring accompanied the entire implementation of the project. During the Kick off Meeting and during the whole project, the coordinating school team shared common tools for periodic and conclusive surveys related to each area.

The following materials were prepared:

- Process and product observation rubrics, logbooks and autobiographies for all surveys relating to the acquisition of skills
- Tools to ascertain the progress of the Astronomical Laboratories and the enrichment of the Archive of good teaching practices
- Satisfaction and self-assessment questionnaires to measure the increase in disciplinary and methodological skills in the scientific field of both students and teachers, the propensity to a greater interest in scientific-mathematical disciplines and the disposition to participate in future European projects.

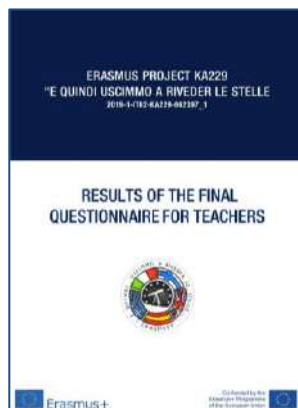
With regard to those aspects that are more closely related to the management control, compliance with the Calendar was taken into account by constantly reshaping and rescheduling the actions to deal with the difficulties associated with the pandemic.

In each school, the teachers in charge of the project worked with the administrative and management offices to constantly monitor the cost plan and the effective implementation of the dissemination activities.

Each action was monitored and each partner school staff recorded the activities they carried out, the number of participants, the materials used as well as the visibility of the project at both local and international level.



## ASSESSMENT TOOLS



## RESULTS OF THE FINAL QUESTIONNAIRE FOR TEACHERS



## FOLLOW UP

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In the final evaluation of the project, all the partners involved found that the expectations highlighted in the design phase regarding the objectives and the results were fully achieved. In particular, the impact on the school and on the local communities indicates the propensity to carry out future European projects. Scientific and astronomical didactic modules developed during the project activities will remain in the school curricula and will be accessible to future teachers and students even after many years.

The publication in digital and online format of the entire project documentation -through the Erasmus Results Platform, the TwinSpace, the dedicated pages of the institutional sites of the individual schools and, if possible, also of the local, regional and national school administrations- guarantees an unlimited access, in space and time, to all content produced, in order to facilitate consultation and new use by anyone interested.

The presence and the desirable implementation of the Astronomical Laboratories inside and outside the schools over time will be deliberately supported by all the participating subjects; they will continue to assure the necessary resources, within the limits of their budgets, to guarantee the efficient maintenance of the existing equipment and perhaps think about its enhancement.

We will try to secure the presence of EUROPEAN PROJECT COORDINATORS, who will be able to make available the experience gained in running this project to others. For example, in the Italian school, already in the current school year, a Commission has been established that will support the two teachers in charge of the European projects in all actions relating to internationalization and the improvement of language skills.

The enhancement of human resources who have acquired various types of skills during this project, can also be supported through the participation of schools - in the medium-long term after the conclusion of these project actions - in further international partnerships, also related to very different themes and with different roles.

The implementation of this project has laid the foundations for the development of an integrated curriculum of Mathematics, Science and Arts, on which the schools teaching committees have been working since the current school year.

We will also work on designing additional free educational materials that will be made available online for anyone interested.

# PROJECT ACTIVITIES AND MATERIALS

# ETWINNING AND TWinspace TRAINING

One of the first activities in which each school was involved was specific training related to the eTwinning environment and the TwinSpace. Through peer tutoring activities and thanks to specific training carried out during the Kick off Meeting with the presence of the eTwinning ambassador Patrizia Roma, training moments were created to ensure that all the teachers involved were trained on the basic functions of these tools, in order to operate the platform effectively.

TARGET GROUP	TEACHERS OF PARTNER SCHOOLS			
PARTNER	DESCRIPTION	ETWINNING PAGE	ATTENDANCE REGISTER	NUMBER OF PEOPLE INVOLVED
ALL PARTNERS SCHOOL	During the Kick off meeting a training course (3 hours) was held on the eTwinning platform and in particular on the TwinSpace, a fundamental tool for sharing and disseminating project activities. The eTwinning ambassador Patrizia Roma guided those present in the registration procedure and illustrated the potential and functionality of the platform.	<a href="https://twinspace.etwinning.net/95921/pages/page/1548019">https://twinspace.etwinning.net/95921/pages/page/1548019</a>  <a href="https://twinspace.etwinning.net/95921/">https://twinspace.etwinning.net/95921/</a>	<a href="https://drive.google.com/file/d/1Ar3OFMWy99Ena01y7lpOi-jPTfw-24kE/view">https://drive.google.com/file/d/1Ar3OFMWy99Ena01y7lpOi-jPTfw-24kE/view</a>	35

# ASTRONOMY TRAINING COURSE/SEMINARS

During the Kick off Meeting, a basic astronomy training course was held, in English, by Professor Simonetta Ercoli of the StarLight Association of Perugia. The course allowed participants to interactively face the main issues related to daytime orientation, nighttime orientation and the solar system with the use of cards and / or paper models. All the activities were exemplified in concrete terms and not only illustrated on a theoretical level; it was therefore possible to re-propose data collection activities in classrooms both with the naked eye and with instruments, as well as activities for the detection of geographical references and constellations, reading of maps and other representations of the celestial vault. A guided night tour was carried out to observe the celestial vault at the Armenzano Observatory.

TARGET GROUP	TEACHERS OF PARTNER SCHOOLS			
DATE	PARTNER	DESCRIPTION	MATERIALS	NUMBER OF PEOPLE INVOLVED
02-06.10.2019	ALL PARTNERS SCHOOL	During the Kick off meeting the training course on astronomy education is developed in 15 hours with the aim of providing a general view of our sky, susceptible to further investigation. The course aimed to offer not only the knowledge to teachers but also the tools for teaching the topics addressed. After an introduction, dedicated to the basic elements of the terrestrial orientation, we dealt with the knowledge related to daytime orientation, to our solar system with particular reference to the Earth-Moon system and at night orientation. The themes were carried out following a laboratory activity with the use of different worksheets which, collected in an orderly way, constitute the Astrodiary to be realized with students. The course also provided the tools necessary to perform data collection on the daily and annual Sun-arc, on the moon phases and on the annual variation of the position of the constellations in the sky.	<p>ETWINNING PAGE  <a href="https://twinspace.etwinning.net/95921/pages/page/1548019">https://twinspace.etwinning.net/95921/pages/page/1548019</a></p> <p>COURSE PROGRAM  <a href="https://drive.google.com/file/d/1IJdcNL2ncyu3g0NSUDAyP63HM_kKlc3U/view">https://drive.google.com/file/d/1IJdcNL2ncyu3g0NSUDAyP63HM_kKlc3U/view</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b7972d507.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b7972d507.pdf</a></p> <p>COURSE MATERIALS</p> <p><a href="#">TRAINING COURSE ON ASTRONOMY EDUCATION</a> Professoressa Ercoli Simonetta STARLIGHT ASSOCIATION  <a href="https://drive.google.com/file/d/1B5ae4hWMYEgapsp2DMQgM6nRRYygbhuD/view">https://drive.google.com/file/d/1B5ae4hWMYEgapsp2DMQgM6nRRYygbhuD/view</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b8a0b6a87.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b8a0b6a87.pdf</a></p> <p>ATTENDANCE REGISTER  <a href="https://drive.google.com/file/d/1-ffkPezL_CyDDaK9jbNZcWml8IxbUFN2/view">https://drive.google.com/file/d/1-ffkPezL_CyDDaK9jbNZcWml8IxbUFN2/view</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b37107b07.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b37107b07.pdf</a></p> <p>PHOTO  <a href="https://drive.google.com/file/d/1MUop9nKMHyKGfg5wO1_LIAbikGP8vS_G/view?ts=5e5a81a3">https://drive.google.com/file/d/1MUop9nKMHyKGfg5wO1_LIAbikGP8vS_G/view?ts=5e5a81a3</a></p>	25
21.01.2020	FINLAND	"From the Earth to the universe" Professor Juhani Harjunharja		50

30.03.2021	ITALY	<p>“Online training event on meteoroids and digital programs dedicated to sky observation”</p> <p>Fra Andrea Frigo, physicist and manager of the Amelia Planetarium</p> <p>Professor Simonetta Ercoli – StarLight Association</p>	<p>POSTER</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5841a607.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5841a607.pdf</a></p> <p><a href="https://drive.google.com/file/d/15SAeylr9GsSUbluGO6GM6TUT8Ejvq1IT/view">https://drive.google.com/file/d/15SAeylr9GsSUbluGO6GM6TUT8Ejvq1IT/view</a></p> <p>VIDEO</p> <p><a href="https://www.youtube.com/watch?v=d6bHtf_VPLE">https://www.youtube.com/watch?v=d6bHtf_VPLE</a></p> <p>MATERIALS</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bab9cb867.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bab9cb867.pdf</a></p> <p><a href="https://drive.google.com/file/d/1P9pUPN-WkCEBAUTtKCID1XVAh2xCpGV_/view">https://drive.google.com/file/d/1P9pUPN-WkCEBAUTtKCID1XVAh2xCpGV_/view</a></p> <p>ATTENDANCE REGISTER</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b264eb0a7.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b264eb0a7.pdf</a></p> <p><a href="https://drive.google.com/file/d/1tmc51Db22slZpFf9l2U-3qc3PSAo5lSZ/view">https://drive.google.com/file/d/1tmc51Db22slZpFf9l2U-3qc3PSAo5lSZ/view</a></p> <p>RESULTS OF THE SATISFACTION QUESTIONNAIRE TRAINING EVENT</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b47a91087.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b47a91087.pdf</a></p> <p><a href="https://drive.google.com/file/d/1VfgZgRrdzfXLxvPAvbePXo05GualVJUf/view">https://drive.google.com/file/d/1VfgZgRrdzfXLxvPAvbePXo05GualVJUf/view</a></p>	15
13-16 JULY 2021	ITALY	<p>Some teachers of Italian school attended UAI Summer School of Astronomy from 13 to 16 July 2021 at the Amelia Planetarium, organized by UAI (Italian Union of Amateur Astronomers), UAI - section Umbria (Associazione Astrofili Maffei), STARLIGHT ASSOCIATION</p>	<p><a href="https://conventosantissimaannunziata.org/archivio-eventi.html#gallery_96-1">https://conventosantissimaannunziata.org/archivio-eventi.html#gallery_96-1</a></p>	3



22.11.2021	SPAIN	<p><i>"The sky throughout the years. Main circumpolar constellations of the northern hemisphere and constellations of the zodiac. Comparison of the sky of northern Europe with that of southern Europe"</i></p> <p>Sensio Carratalá, Professor of biology, geology and astronomy. CEFIRE de Torrent advisor, scientific field.</p>		50
30.03.2022	GREECE	<p><i>"Ancient Greek Mythology"</i></p> <p>Panagiotis Pantzekos, member of Cretan Association of Friends of Astronomy</p> <p><i>"Seeking Truth with Light"</i></p> <p>Professor Vassilis Harmandaris, Professor of Observational Astrophysics, Department of Physics, University of Crete, Skinakas Observatory</p> <p><i>"Astrophotography"</i></p> <p>Alexandros Lychoudis, member of Astronomical Group of Students of the University of Crete</p>		50
24.05.2022	ITALY	<p><i>"Stories of Blue"</i></p> <p><i>Journey through the starry skies in the history of twentieth century art</i></p> <p>Viviana Erminia Tessitore, art historian.</p>	<p>MATERIALS</p> <p><a href="https://twinspace.etwinning.net/files/collabspac e/1/21/921/95921/files/ad99a80c7.pdf">https://twinspace.etwinning.net/files/collabspac e/1/21/921/95921/files/ad99a80c7.pdf</a></p> <p><a href="https://drive.google.com/file/d/1zh9rAOuWUo_ZPFWwUoC8MNc3kDndJUmZ/view">https://drive.google.com/file/d/1zh9rAOuWUo_ZPFWwUoC8MNc3kDndJUmZ/view</a></p> <p>FLYER</p> <p><a href="https://drive.google.com/file/d/1zBD9vbxk_dTO_0k9jgmFhv77ds3XQlXuA/view">https://drive.google.com/file/d/1zBD9vbxk_dTO_0k9jgmFhv77ds3XQlXuA/view</a></p>	60
25.05.2022	ITALY	<p><i>"The Universe of Dante Alighieri between ancient and modern astronomy"</i></p> <p>Sperello di Serego Alighieri, Astrophysicist and descendant of Dante Alighieri</p>		80

# PROJECT MANAGEMENT MEETINGS (WITH PARTNER SCHOOLS)

Coordination meetings have been held since the first days of September 2019 to fine-tune all the details of the project. The meetings took place online through the G-suite platform, in use in most of the partner schools, especially from March 2020 in relation to the situation linked to the pandemic in progress.

During each mobility, starting from the Kick off Meeting, face-to-face meetings were held to analyze the situation and prepare the necessary actions for the continuation of the project.

Throughout the development of the project, communication via e-mail, instant messaging applications and videoconferencing tools was uninterrupted as well as was constant the use of TwinSpace for materials sharing.

TARGET GROUP	TEACHERS OF PARTNER SCHOOLS		
DATE	PARTICIPANTS	PLACE OF THE MEETING	MATERIALS
03.10.2019	ALL PARTNER SCHOOLS	TORGIANO – KICK OFF MEETING	<p>MATERIALS</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b28e1dea7.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b28e1dea7.pdf</a></p> <p><a href="https://drive.google.com/drive/folders/1zn60YiYGP1QuF_K9JQbh_rVg6IEiiMghN?usp=sharing">https://drive.google.com/drive/folders/1zn60YiYGP1QuF_K9JQbh_rVg6IEiiMghN?usp=sharing</a></p> <p>ATTENDANCE REGISTER</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b397a7427.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b397a7427.pdf</a></p> <p><a href="https://drive.google.com/file/d/1JiVu5gulEsdF1epr5AcfRozNDPex7F7E/view">https://drive.google.com/file/d/1JiVu5gulEsdF1epr5AcfRozNDPex7F7E/view</a></p>
23.01.2020	ALL PARTNER SCHOOLS	IVALO – FIRST MOBILITY	<p>MINUTES OF MEETING</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b17fceb2d.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b17fceb2d.pdf</a></p> <p><a href="https://drive.google.com/file/d/1S_DvTwMhmYsAu88UKBDSwVh_etXn50upo/view">https://drive.google.com/file/d/1S_DvTwMhmYsAu88UKBDSwVh_etXn50upo/view</a></p>
07.10.2020	ALL PARTNER SCHOOLS	ON LINE - GMEET	<p>VIDEO OF THE MEETING</p> <p><a href="https://drive.google.com/file/d/1HNruZh_TOGT0LQAWPKq4KC9Z1vChVYe3/view">https://drive.google.com/file/d/1HNruZh_TOGT0LQAWPKq4KC9Z1vChVYe3/view</a></p> <p>MINUTES OF MEETING</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b07e1d7cb.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b07e1d7cb.pdf</a></p> <p><a href="https://drive.google.com/file/d/1ekHkdYvyeMTmhUzmJNsZEIhYT6QxraKA/view">https://drive.google.com/file/d/1ekHkdYvyeMTmhUzmJNsZEIhYT6QxraKA/view</a></p>
13.05.2021	ALL PARTNER SCHOOLS	ON LINE - GMEET	<p>MATERIALS</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ada23d487.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ada23d487.pdf</a></p> <p><a href="https://drive.google.com/file/d/1NmCf4ixQ8xe4w1shrGfKd-qChE1rTP8J/view">https://drive.google.com/file/d/1NmCf4ixQ8xe4w1shrGfKd-qChE1rTP8J/view</a></p>

21.05.2021	ALL PARTNER SCHOOLS	ON LINE - GMEET	MINUTES OF MEETING <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c1b21c156.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c1b21c156.pdf</a>  <a href="https://drive.google.com/file/d/1RqTSJi_iccgHeKOebSaOp_VOHoltzeDq/view">https://drive.google.com/file/d/1RqTSJi_iccgHeKOebSaOp_VOHoltzeDq/view</a>
27.09.2021	ALL PARTNER SCHOOLS	ON LINE - GMEET	MINUTES OF MEETING <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c1a986d96.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c1a986d96.pdf</a>  <a href="https://drive.google.com/file/d/1sbt4HiF8OZILJURH58t2cHSIW_lqqIEp/view">https://drive.google.com/file/d/1sbt4HiF8OZILJURH58t2cHSIW_lqqIEp/view</a>
13.10.2021	ITALY - GREECE	ON LINE - GMEET	
22.11.2021	ITALY – SPAIN – GREECE- FINLAND	VALENCIA – SECOND MOBILITY	MINUTES OF MEETING <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b57b09e6d.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b57b09e6d.pdf</a>  <a href="https://drive.google.com/file/d/1xSyU0ygJbF_zhWZ_Arv8_VI7DI43Y4TmY/view">https://drive.google.com/file/d/1xSyU0ygJbF_zhWZ_Arv8_VI7DI43Y4TmY/view</a>
06.12.2021	ALL PARTNER SCHOOLS	ON LINE - GMEET	Agreements for London mobility
10.01.2022	ALL PARTNER SCHOOLS	ON LINE - GMEET	Postponement of London mobility due to Covid
17.02.2022	ITALY - GREECE	ON LINE - GMEET	Meeting with the Greek coordinator for the last details regarding mobility in Crete
29.03.2022	ITALY – GREECE – FINLAND - SPAIN	CRETE – THIRD MOBILITY	MINUTES OF MEETING <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b1773976d.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b1773976d.pdf</a>  <a href="https://drive.google.com/file/d/1cGtoWyWCb51btTTSln-U-gGnK4ROvJu3/view">https://drive.google.com/file/d/1cGtoWyWCb51btTTSln-U-gGnK4ROvJu3/view</a>
04.05.2022	ITALY – GREECE – FINLAND – SPAIN - UK	LONDON – FOURTH MOBILITY	MINUTES OF MEETING <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/ac98b3f07.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/ac98b3f07.pdf</a>  <a href="https://drive.google.com/file/d/1cGtoWyWCb51btTTSln-U-gGnK4ROvJu3/view">https://drive.google.com/file/d/1cGtoWyWCb51btTTSln-U-gGnK4ROvJu3/view</a>
26.05.2022	ITALY – GREECE – FINLAND – SPAIN - UK	PASSAGGIO DI BETTONA – FIFTH MOBILITY	MINUTES OF MEETING <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/ac765cb6f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/ac765cb6f.pdf</a>  <a href="https://drive.google.com/file/d/1JdP3hUdbT-KswUNqEznK4NW265n7vfCD/view">https://drive.google.com/file/d/1JdP3hUdbT-KswUNqEznK4NW265n7vfCD/view</a>

# PROJECT MANAGEMENT MEETINGS (INTERNAL TO EACH SCHOOL)

As soon as the outcome of the application was known, each school organized a first internal meeting to communicate to the teachers the start of the project and to open the application to be part of the project team.

Once the working group was set up, periodic meetings were held for the entire duration of the project to prepare the necessary actions for the success of the activities:

- Internal organization of the working group and preparation of the project organization chart;
- Recruitment of the classes involved in the project and their respective referring teachers;
- Preparation and organization of the essential materials for the development of the activities, immediately shared with the teachers involved;
- Preparation of materials regarding the administrative-bureaucratic area;
- Support to the teachers about the didactic activities connected to the project;
- Requirements related to the selection of participants (both pupils and teachers) in the various mobilities;
- Mobility organization at partner schools (transfer, accommodation, insurance, custody of minors...);
- Organization of mobility within one's own institution (logistic organization, contacts with authorities and stakeholders, organization of activities...);
- Monitoring and verification of project actions.

In addition to the meetings with the project group, coordination and verification meetings were held with the reference teachers of the classes involved in the project to support the activities and monitor the various phases.

ITALY				
TARGET GROUP	TEACHERS			
DATE	PARTICIPANTS	PLACE OF THE MEETING	OBJECT OF THE MEETING	NEWSLETTERS/MINUTES OF MEETING
17.09.2019	IC TORGIANO BETTONA TEACHERS	Passaggio di Bettona Primary school	Erasmus +KA229 information meeting	NEWSLETTER <a href="https://drive.google.com/file/d/1ujZdOnaRmlWZUksB06gb61ke4ihVE_iO/view">https://drive.google.com/file/d/1ujZdOnaRmlWZUksB06gb61ke4ihVE_iO/view</a>
24.09.2019	ERASMUS WORKING GROUP	Torgiano Primary School	Establishment of working group on Erasmus KA229and definition of tasks within the group. Organization of the Short-Term joint staff training Event – Kick Off Meeting	NEWSLETTER <a href="https://drive.google.com/file/d/1qWB3DIQhAWZhDfxEYHMf_su2RsYQ2Imm/view">https://drive.google.com/file/d/1qWB3DIQhAWZhDfxEYHMf_su2RsYQ2Imm/view</a>  ATTENDANCE REGISTER <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBlhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBlhyaF/view</a>
24.09.2019	ERASMUS WORKING GROUP	Torgiano Primary School	Establishment of working group on Erasmus KA229and definition of tasks within the group. Organization of the Short-Term joint staff training Event – Kick Off Meeting	NEWSLETTER <a href="https://drive.google.com/file/d/1qWB3DIQhAWZhDfxEYHMf_su2RsYQ2Imm/view">https://drive.google.com/file/d/1qWB3DIQhAWZhDfxEYHMf_su2RsYQ2Imm/view</a>  ATTENDANCE REGISTER <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBlhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBlhyaF/view</a>



13.02.2020	ERASMUS WORKING GROUP	Passaggio di Bettona Primary school	Selection of mobility participants in London	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1zfaLSq2x8TKwbYzr8H6KU1K2rz7ZfQwX/view">https://drive.google.com/file/d/1zfaLSq2x8TKwbYzr8H6KU1K2rz7ZfQwX/view</a></p> <p>ATTENDANCE REGISTER  <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a></p>
26.10.2020	ERASMUS WORKING GROUP	ON LINE - GMEET	Organization of work and division of tasks for the school year 20/21	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1AC95T2ZpK8DvmG_W2rCloMPTavCdb8fn/view">https://drive.google.com/file/d/1AC95T2ZpK8DvmG_W2rCloMPTavCdb8fn/view</a></p> <p>MINUTES  <a href="https://drive.google.com/file/d/1IZ3zEQsTGlaF6sE-ebXxVYgyHvs4ToZv/view">https://drive.google.com/file/d/1IZ3zEQsTGlaF6sE-ebXxVYgyHvs4ToZv/view</a></p> <p>ATTENDANCE REGISTER  <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a></p>
26.10.2020	REFERENT TEACHERS	ON LINE - GMEET	Communications relating to the creation of the Project Logo	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1t9ceciAn5EI3aQX4UF1n1rLH4NbZMYXN/view">https://drive.google.com/file/d/1t9ceciAn5EI3aQX4UF1n1rLH4NbZMYXN/view</a></p> <p>MINUTES  <a href="https://drive.google.com/file/d/1uzsHFBzbURDZsLPNL6mnl7PLnw43Ds3-/view">https://drive.google.com/file/d/1uzsHFBzbURDZsLPNL6mnl7PLnw43Ds3-/view</a></p>
15.05.2021	Rosati - Pantaleoni	Torgiano Primary School	Organization of work for on line meetings	
22.09.2021	ERASMUS WORKING GROUP/ REFERENT TEACHERS	ON LINE - GMEET	Organization of work and division of tasks for the school year 21/22	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1xPv8Dbxw9kAG-KdzKu-ARMqUkxG_Q9pH/view">https://drive.google.com/file/d/1xPv8Dbxw9kAG-KdzKu-ARMqUkxG_Q9pH/view</a></p> <p>MATERIALS  <a href="https://drive.google.com/file/d/16GdLj89jCii7bDaavbFAK-GV2AqYHSP/view">https://drive.google.com/file/d/16GdLj89jCii7bDaavbFAK-GV2AqYHSP/view</a></p> <p>MINUTES  <a href="https://drive.google.com/file/d/1SYfGZdKW3iesWaeCiTwB8UqE1JpTXFD-/view">https://drive.google.com/file/d/1SYfGZdKW3iesWaeCiTwB8UqE1JpTXFD-/view</a></p> <p>ATTENDANCE REGISTERS  <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a>  <a href="https://drive.google.com/file/d/1yVhaRrbaNvOliVeDprLoXwVcwtNda7xb/view">https://drive.google.com/file/d/1yVhaRrbaNvOliVeDprLoXwVcwtNda7xb/view</a></p>
15.10.2021	ERASMUS WORKING GROUP	Torgiano lower Secondary School	Selection of mobility participants in Valencia	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1_WB41gz648tnBhFAr-FW-pyAdOxaDLnn/view">https://drive.google.com/file/d/1_WB41gz648tnBhFAr-FW-pyAdOxaDLnn/view</a></p> <p>ATTENDANCE REGISTER  <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a></p>

02.12.2021	ERASMUS WORKING GROUP/ REFERENT TEACHERS	ON LINE - GMEET	Italy last mobility activity planning	<p>NEWSLETTER <a href="https://drive.google.com/file/d/1kaM2HBcrmu7aitTNDr_TisWoUEskzjer/view">https://drive.google.com/file/d/1kaM2HBcrmu7aitTNDr_TisWoUEskzjer/view</a></p> <p>ATTENDANCE REGISTERS <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a> <a href="https://drive.google.com/file/d/1yVhaRrbaNvOliVeDprLoXwVcwtNda7xb/view">https://drive.google.com/file/d/1yVhaRrbaNvOliVeDprLoXwVcwtNda7xb/view</a></p> <p>MINUTES-REFERENT TEACHERS <a href="https://drive.google.com/file/d/1qhr32hrCsXHaDiCQ_dbnfvsnep3EgyO7/view">https://drive.google.com/file/d/1qhr32hrCsXHaDiCQ_dbnfvsnep3EgyO7/view</a></p>
21.02.2022	ERASMUS WORKING GROUP	Torgiano lower Secondary School	Selection of mobility participants in Crete Draft of the mobility program in Italy	<p>NEWSLETTER <a href="https://drive.google.com/file/d/1eAqB-zjE7gCTkarPTqX_-i2cNELzJX7u/view">https://drive.google.com/file/d/1eAqB-zjE7gCTkarPTqX_-i2cNELzJX7u/view</a></p> <p>ATTENDANCE REGISTER <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a></p>
24.02.2022	REFERENT TEACHERS	ON LINE - GMEET	Sharing of the draft Italian mobility program Definition of the involvement of the classes during the mobility.	<p>NEWSLETTER <a href="https://drive.google.com/file/d/1WIKtnadseT4w2TgvQhpU9pB3DF3kSopd/view">https://drive.google.com/file/d/1WIKtnadseT4w2TgvQhpU9pB3DF3kSopd/view</a></p> <p>ATTENDANCE REGISTER <a href="https://drive.google.com/file/d/1yVhaRrbaNvOliVeDprLoXwVcwtNda7xb/view">https://drive.google.com/file/d/1yVhaRrbaNvOliVeDprLoXwVcwtNda7xb/view</a></p>
02.05.2022	ERASMUS WORKING GROUP	Torgiano primary school - Brufa	Definition of tasks for mobility activities in Italy	<p>NEWSLETTER <a href="https://drive.google.com/file/d/17NR3msNhbgsIp03Yq0eQVq_4w8fVLGE/view">https://drive.google.com/file/d/17NR3msNhbgsIp03Yq0eQVq_4w8fVLGE/view</a></p> <p>ATTENDANCE REGISTER <a href="https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view">https://drive.google.com/file/d/1x9dfhFUI67_6NICsAhPGZzL-MdBIhyaF/view</a></p>

**SPAIN**

SPAIN			
TARGET GROUP	TEACHERS		
DATE	PARTICIPANTS	PLACE OF THE MEETING	OBJECT OF THE MEETING
19.09.2019	Faculty of teachers	Teacher's room	Make the project known. Choice of which class will participate in it
21.10.2019	Faculty of teachers	Teacher's room	Meeting Italy, to show what has been worked on in Italy and what the roadmap will be
19.11.2019	Project Commission	Teacher's room	Students that are going to participate in Ivalo, based on the established rubrics, documentation that is required in each country, which teachers are going to participate in the mobility based on the criteria established in the school. Schedule meetings to be established with families.
10.02.2020	Faculty of teachers	Teacher's room	Meeting Ivalo. Ivalo's mobility is discussed
18.09.2021	Faculty of teachers	Teacher's room	Preparation of activities as host country. Responsibilities and tasks to be carried out are distributed
04.10.2021	Faculty of teachers	Teacher's room	Sharing of how everything is being prepared and at what point we are
04.11.2021	Faculty of teachers	Teacher's room	Sharing of how everything is being prepared and at what point we are
13.12.2021	Faculty of teachers	Teacher's room	Meeting Valencia. Valencia's mobility is discussed
21.02.2022	Project Commission	Teacher's room	Students that are going to participate in the mobility of Creta, based on the established rubrics, documentation that is required in each country, which teachers are going to participate in the mobility based on the criteria established in the school. Schedule meetings to be established with families.
21.03.2022	Project Commission	Teacher's room	Students who are going to participate in the mobility of London based on the established rubrics, documentation that is required in each country, which teachers are going to participate in the mobility based on the criteria established in the school. Schedule meetings to be established with families.
11.04.2022	Faculty of teachers	Teacher's room	Meeting of Creta. Creta's mobility is discussed
26.04.2022	Project Commission	Teacher's room	Students who are going to participate in the mobility of Italy based on the established rubrics, documentation that is required in each country, which teachers are going to participate in the mobility based on the criteria established in the school. Schedule meetings to be established with families.
09.05.2022	Faculty of teachers	Teacher's room	Meeting of London. London's mobility is discussed
06.06.2022	Faculty of teachers	Teacher's room	Meeting of Italy. Italy's mobility is discussed



FINLAND			
TARGET GROUP	TEACHERS		
DATE	PARTICIPANTS	PLACE OF THE MEETING	OBJECT OF THE MEETING
03.01.2020	Jaana Nuuttila, Johanna Jalkanen, Pirko Olli	Ivalo primary school	Project Presentation to whole School of Ivalo Ala-Aste
May 2021	Jaana Nuuttila, Johanna Jalkanen, Mikael Vähäsarja	Ivalo primary school	First transfer meeting (primary to secondary school)
23.08.2021	Jaana Nuuttila, Johanna Jalkanen, Mikael Vähäsarja	Ivalo secondary school	Planning the project studies and mobilities
06.09.2021	Jaana Nuuttila, Johanna Jalkanen, Mikael Vähäsarja	Ivalo secondary school	Planning the project studies and mobilities
26.10.2021	Project leaders, Principal Ulla Hynönen	Ivalo secondary school	Planning of the coming mobilities
16.11.2021	Project leaders, Valencia mobility pupils and parents	Ivalo secondary school	Information and planning of the Valencia mobility
01.03.2022	Jaana Nuuttila, Johanna Jalkanen, Mikael Vähäsarja	Ivalo secondary school	Planning the project studies and mobilities
21.03.2022	Project leaders, Crete mobility pupils and parents	Ivalo secondary school	Information and planning of the Crete mobility
25.04.2022	Project leaders, London mobility pupils and parents	Ivalo secondary school	Information and planning of the London mobility
18.05.2022	Project leaders, Italy mobility pupils and parents	Ivalo secondary school	Information and planning of the Italy mobility

GREECE				
TARGET GROUP	TEACHERS			
DATE	PARTICIPANTS	PLACE OF THE MEETING	OBJECT OF THE MEETING	NEWSLETTERS/MINUTES OF MEETING
10.10.2019	Teachers of the school	SEEH	Dissemination of the results of the meeting of Italy regarding the Erasmus + KA229 program to the teachers of our school	<a href="https://photos.app.goo.gl/g4ikdDwE4ikMC35z8">https://photos.app.goo.gl/g4ikdDwE4ikMC35z8</a>
17.10.2019	Teachers of the school	SEEH	Call to parents for Ivalo mobility	
27.10.2021	Teachers of the school	SEEH	Public open draw for Valencia mobility	
05.11.2021	Teachers of the school	online	Etwinning Activities to do	<a href="https://drive.google.com/drive/u/0/folders/1r3gQoEnEbvtmb3ciLceZwCo7708wEDUt">https://drive.google.com/drive/u/0/folders/1r3gQoEnEbvtmb3ciLceZwCo7708wEDUt</a>
09.11.2021	Teachers of the school	online	Activities to do	<a href="https://drive.google.com/drive/u/0/folders/1r3gQoEnEbvtmb3ciLceZwCo7708wEDUt">https://drive.google.com/drive/u/0/folders/1r3gQoEnEbvtmb3ciLceZwCo7708wEDUt</a>
18.03.2022	Teachers of the school	SEEH	Public open draw for London mobility	
06.04.2022	Teachers of the school	online	Activities to do	
07.04.2022	Teachers of the school	SEEH	Public open draw for the mobility in Italy	

**UK**

UK			
TARGET GROUP	TEACHERS		
DATE	PARTICIPANTS	PLACE OF THE MEETING	OBJECT OF THE MEETING
October 2019	Year 5 Teacher, Science Leader and Curriculum leader.	School	Arrange the mobility to Finland.
October 2019	Year 5 Teacher, Science Leader and Curriculum leader.	School	Plan the learning to happen in school.
December 2019	Class teacher and Science Leader	School	Review and assess learning.
January 2020	Finance officer, Head teacher, Relevant mobility staff	School	Plan and budget mobility.
February 2020	Year 5 Teacher, Science Leader and Curriculum leader.	School	Plan London mobility.
March 2020	Headteacher and Science Leader	School	Cancellation of London mobility due to Covid.
September 2021	Headteacher and Science Leader	School	Conversation about Spain mobility.
January 2022	Headteacher and Science Leader	School	Conversation about Greece mobility.
April 2022	Headteacher and Science Leader	School	Planning of London mobility.
May 2022	Finance officer, Headteacher	School	Finance meeting for London Mobility.
May 2022	Finance officer, Headteacher	School	Finance meeting for Italy mobility.



## ON LINE MEETING WITH STUDENTS

The activity was created for the students leaving their schools in June 2021 who were unable to take part in mobilities because of the pandemic. On 18th - 20th - 21st May 12 online meetings took place via the GMeet platform and students from about 25 classes participated in this action, sharing moments of exchange and mutual knowledge.

Each class has prepared an in-depth study to introduce students and allow partners to get to know their school, their city, hobbies and free time activities. All the students were also involved in an online game on the constellations, via the Kahoot platform.

In the first plenary session the logo of the project was officially presented and the data relating to the surveys carried out in March (Spring Equinox) were compared.

For the teachers it was an opportunity to take stock of the situation and plan future actions with the firm will to complete, despite the difficulties related to the pandemic, all project actions and especially mobilities.

For the Erasmus Day 2021, online meetings were held between the classes involved in the activities related to the creation of the Manual of good practices for the reduction of light pollution. The students had the opportunity to discuss the work done and, through online games, to review their knowledge. For the teachers it was an opportunity to take stock of the situation and plan subsequent activities.

TARGET GROUP	TEACHERS STUDENTS			
DATE	PARTICIPANTS/ N. OF PEOPLE INVOLVED	PLACE OF THE MEETING	OBJECT OF THE MEETING DESCRIPTION	NEWSLETTERS/MINUTES OF MEETING/OTHER MATERIALS
18-20-21.05.2021	ALL PARTNER SCHOOLS	ON LINE - GMEET	The purpose of the online meetings is to give outgoing classes that, due to the pandemic, will not be able to participate in a mobility abroad, the opportunity to experience an exchange with the students of the partner schools.	<p>ON LINE MEETING PROGRAM  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5acd8834.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5acd8834.pdf</a></p> <p><a href="https://drive.google.com/file/d/1qrs3N5Pt1MM43nyzbF6duMX4jhrXCVjt/view">https://drive.google.com/file/d/1qrs3N5Pt1MM43nyzbF6duMX4jhrXCVjt/view</a></p> <p>KAHOOT GAME TIMETABLE AND LINKS  <a href="https://drive.google.com/file/d/1KlvlfD-gZW5q4iUyxDmgxz_uF5zNZcv_/view">https://drive.google.com/file/d/1KlvlfD-gZW5q4iUyxDmgxz_uF5zNZcv_/view</a></p> <p>ON LINE MEETING ASSESSMENT  <a href="https://forms.gle/KnWj4bpvaW2m9oQm6">https://forms.gle/KnWj4bpvaW2m9oQm6</a></p> <p>MATERIALS  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257499552">OUR TOPIC WORK THE MARINEL CONSTELLATION</a>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257499552">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257499552</a>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257530179">OUR HOBBIES IN TORGIANO</a>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257530179">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257530179</a>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257530633">OUR HOBBIES</a>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257530633">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257530633</a></p>

				<p>OUR CITY XIRIVELLA</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c697430d6.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c697430d6.pdf</a></p> <p><a href="https://drive.google.com/file/d/1a90hcAiy3nLDvEDcr2AvZrEAG_0g-w4t/view">https://drive.google.com/file/d/1a90hcAiy3nLDvEDcr2AvZrEAG_0g-w4t/view</a></p> <p>SEEH_ OUR SCHOOL PRESENTATION</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b27fb2927.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b27fb2927.pdf</a></p> <p><a href="https://drive.google.com/file/d/1R1xPeI7IYRZWjjMeSdVmUAPetMeLT1Bv/view">https://drive.google.com/file/d/1R1xPeI7IYRZWjjMeSdVmUAPetMeLT1Bv/view</a></p> <p>SEEH_ WELCOME TO OUR SCHOOL</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c3b8c4eb4.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c3b8c4eb4.pdf</a></p> <p><a href="https://drive.google.com/file/d/1VoQJk9qy_Aoe6A502TIzOM9dsNQhEc80/view">https://drive.google.com/file/d/1VoQJk9qy_Aoe6A502TIzOM9dsNQhEc80/view</a></p> <p>SEEH_ EVERYDAY LIFE AND HOBBIES</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b48a30067.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b48a30067.pdf</a></p> <p><a href="https://drive.google.com/file/d/12QP6jGrLeBQ3jVpURIsG3ZEFZrgbcpXE/view">https://drive.google.com/file/d/12QP6jGrLeBQ3jVpURIsG3ZEFZrgbcpXE/view</a></p> <p>OUR CITY HERACLION</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bc71c7c3c.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bc71c7c3c.pdf</a></p> <p><a href="https://drive.google.com/file/d/1j5Hhgbeoo-hwsFX8ZeNpOCRdCfCbeOKfP/view">https://drive.google.com/file/d/1j5Hhgbeoo-hwsFX8ZeNpOCRdCfCbeOKfP/view</a></p>
14.10.2021	ITALY- SPAIN- GREECE-UK	ON LINE - GMEET	<p>This event is designed to strengthen co-operations between students involved in our Erasmus project "E quindi uscimmo a riveder le stelle". They will celebrate the Erasmusday with an online meeting which aims to bring together the students involved in the project actions who, together with their teachers, will plan the creation of a manual of good practices for the reduction of light pollution.</p>	<p>PROGRAM</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/cb66feb74.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/cb66feb74.pdf</a></p> <p><a href="https://drive.google.com/file/d/1vek8fPqliz7aTqrNITBbVOOhJiHMEd-o/view">https://drive.google.com/file/d/1vek8fPqliz7aTqrNITBbVOOhJiHMEd-o/view</a></p> <p>KAHOOT GAME – LIGHT POLLUTION</p> <p><a href="https://drive.google.com/file/d/1sdwa0LyPPM97ltQMzEjJ0VyWePNO9_Sh/view">https://drive.google.com/file/d/1sdwa0LyPPM97ltQMzEjJ0VyWePNO9_Sh/view</a></p> <p>PHOTOS</p> <p><a href="https://drive.google.com/drive/folders/1RnuwuhodAWmJlXWbN_1RSACD7WUYI4qE?usp=sharing">https://drive.google.com/drive/folders/1RnuwuhodAWmJlXWbN_1RSACD7WUYI4qE?usp=sharing</a></p> <p>PHOTO ALBUM</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b787367e7.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b787367e7.pdf</a></p> <p><a href="https://drive.google.com/file/d/1HMJrnsAtXxFx5ub4LL3Hhd_DEhu_Yiw/view">https://drive.google.com/file/d/1HMJrnsAtXxFx5ub4LL3Hhd_DEhu_Yiw/view</a></p>

# CROSS-CURRICULAR MODULE IN PREPARATION FOR MOBILITIES

The topics dealt with in this module allowed students to approach the study of the fundamentals of astronomy in order to acquire basic knowledge. The students, in their own country, were introduced and guided to a conscious observation of the sky, they collected information about their surrounding area, starting from personal sensory perceptions (instinctive observation) to reach a methodical and conscious observation. They recorded the data emerging from these activities and formulated hypotheses regarding similarities / differences with the data and the measurements collected by the partner countries' students.

Through the activities proposed in the transversal module by each school, during the three years of regular teaching activities, the students learned to recognize the main constellations and visible planets in the sky and started to read star maps.

In particular, the following activities were carried out by each country in preparation for the mobility:

- observation of the sky to trace the circumpolar constellations and creation of a mapping using structured and non-structured material;
- observation and detection of night and day hours and data tabulation;
- detection of the ARC OF THE SUN over the course of a day, at predefined times, through structured material;
- collection of the data and formulation of hypotheses regarding similarities / differences with other partner countries.

Each mobility was therefore an opportunity to verify how we "see different things" at different latitudes and to understand the importance of perspective during observations.

VIDEO <https://www.youtube.com/watch?v=PCR6aIW2zWE&t=29s>

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS	
PARTNER	DESCRIPTION	MATERIALS
ALL PARTNERS SCHOOL	<u>LAND ORIENTATION (LO)</u> Earth orientation Geographic crosslinking/ Geographic coordinates European map - Location of all partners with latitude and longitude	TEACHING MATERIALS <u>REPOSITORY OF GOOD PRACTICES AND LESSON PLANS</u>  STUDENTS WORK <u>EARTH AND ITS MOTIONS</u> <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5a5bfd87.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5a5bfd87.pdf</a>  <a href="https://drive.google.com/file/d/16ctPUBhfR1d0FKjgFiwdru_bAAGWxGKY/view">https://drive.google.com/file/d/16ctPUBhfR1d0FKjgFiwdru_bAAGWxGKY/view</a>



<p><u>DAYTIME ORIENTATION (DO)</u></p> <p>Hindu circles:</p> <ol style="list-style-type: none"> <li>detection of the north-south direction: meridian as symmetry line between morning and afternoon shadows;</li> <li>shadow length measurement;</li> <li>detection of the position of the shadow in relation to the cardinal points during the seasons at a set time;</li> <li>the meridian as the cardinal direction on which the Sun reaches its maximum height every day at noon: the culmination;</li> <li>calculation of the Azimuth of the Sun</li> </ol> <p>Sun Arc detection</p> <p>From the comparison with the students' drawings of the partner schools, the differences in time and position of the setting Sun will emerge</p> <p>Construction of MERINTO:</p> <ol style="list-style-type: none"> <li>to detect altitude of the Sun (height in degrees);</li> <li>as Ptolemaic Plinth;</li> <li>as Circle of Hipparchus to detect the moment of the equinox;</li> <li>as a Sextant to detect the altitude of celestial bodies above sea level;</li> <li>as a sundial (to find the time).</li> </ol> <p>Summary of the surveys:</p> <ol style="list-style-type: none"> <li>detection of the position of the Sun at sunrise and sunset;</li> <li>detection of the Azimuth of the Sun at sunrise and sunset;</li> <li>elevation of the Sun at noon;</li> <li>detection of light hours.</li> </ol>	<p>TEACHING MATERIALS</p> <p><u>REPOSITORY OF GOOD PRACTICES AND LESSON PLANS</u></p> <p>CLASS WORK</p> <p><u>LET'S HAVE FUN LOOKING AT THE SUN!</u></p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5a22046.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5a22046.pdf</a></p> <p><a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1046394294">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1046394294</a></p> <p><u>OUR DETECTIONS</u></p> <p><a href="https://drive.google.com/file/d/1vMhnik2jZoPlhXAsvUqjMuRsFE_sSjOI/view">https://drive.google.com/file/d/1vMhnik2jZoPlhXAsvUqjMuRsFE_sSjOI/view</a></p> <p>DATA COMPARISON MATERIALS</p> <p><a href="https://drive.google.com/drive/folders/1v3EWrWhOglb1UbOlbg_tPsj6o2chOdfk?usp=sharing">https://drive.google.com/drive/folders/1v3EWrWhOglb1UbOlbg_tPsj6o2chOdfk?usp=sharing</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b27865363.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b27865363.pdf</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5a51f094.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5a51f094.pdf</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7b06f9c6.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7b06f9c6.pdf</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bc6c97f4b.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bc6c97f4b.pdf</a></p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/be883fe0b.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/be883fe0b.pdf</a></p>	<p>TEACHING MATERIALS</p> <p><u>REPOSITORY OF GOOD PRACTICES AND LESSON PLANS</u></p> <p>CLASS WORK</p> <p><u>OUR DETECTIONS</u></p> <p><a href="https://drive.google.com/file/d/1vMhnik2jZoPlhXAsvUqjMuRsFE_sSjOI/view">https://drive.google.com/file/d/1vMhnik2jZoPlhXAsvUqjMuRsFE_sSjOI/view</a></p>
<p><u>NIGHT ORIENTATION</u></p> <p>The celestial sphere</p> <p>Find the constellations</p> <p>Use of Stellarium programme</p> <p>Moon phases</p> <p>Construction of the star clock</p>		<p>TEACHING MATERIALS</p> <p><u>REPOSITORY OF GOOD PRACTICES AND LESSON PLANS</u></p> <p>CLASS WORK</p> <p><u>OUR DETECTIONS</u></p> <p><a href="https://drive.google.com/file/d/1vMhnik2jZoPlhXAsvUqjMuRsFE_sSjOI/view">https://drive.google.com/file/d/1vMhnik2jZoPlhXAsvUqjMuRsFE_sSjOI/view</a></p>

# SKY OBSERVATIONS (IN PRESENCE AND ON LINE)

To allow students to experience in a real situation what they had learned in classroom, observations of the sky with the naked eye and with instruments were organized, with the support of expert teachers and amateur astronomers from local associations, both in the previous period and during the mobility. For each observation, the students were provided with maps of the sky describing the place where the observations took place (these maps were then merged into the Astrodiary) and had the opportunity to trace the most visible constellations in the southern and northern sky. During the final mobility in Italy the various maps were compared, in order to highlight similarities and differences and draw the final conclusions.

When face-to-face lessons could not be held due to the pandemic, online events were organized to allow children to learn about some Open-Source equipment and software (for example Stellarium) for sky observation.

## SKY OBSERVATIONS\_PHOTO ALBUM

<https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bc770337f.pdf>

<https://drive.google.com/file/d/1giPJ-5uGmUYIhLIBQOZV9UvrF7T9ZF0I/view>

## PHOTO

<https://twinspace.etwinning.net/95921/materials/images>

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS FAMILIES AND TERRITORIAL COMMUNITIES			
DATE	PARTNER COUNTRY	PLACE OF THE MEETING	NUMBER OF PEOPLE INVOLVED	MATERIALS
18.12.2019	GREECE	Venetian Walls of Heraklion	60	<a href="https://photos.google.com/share/AF1QipMGyS6G_u2zFlIR0FtaTgYwIXbvHJoZ-3E-H4PRJBBYbXMa7MGKcNgi3xY-DhAebA?pli=1&amp;key=dHZqVIQ4bTI0SUNZUTdyT2ctR0ZfakdMbVffUkhn">https://photos.google.com/share/AF1QipMGyS6G_u2zFlIR0FtaTgYwIXbvHJoZ-3E-H4PRJBBYbXMa7MGKcNgi3xY-DhAebA?pli=1&amp;key=dHZqVIQ4bTI0SUNZUTdyT2ctR0ZfakdMbVffUkhn</a>
15.01.2020	ITALY	Brufa – Passaggio di Bettona	350 c/a	PHOTO <a href="https://drive.google.com/drive/folders/1UR_hadmDKLAhoRxOuvcw447-aIOnrvRM?usp=sharing">https://drive.google.com/drive/folders/1UR_hadmDKLAhoRxOuvcw447-aIOnrvRM?usp=sharing</a>
15.01.2020	FINLAND	Ivalo	50	
05.10.2020	FINLAND	Ivalo	30	
15.01.2021	ITALY	ON LINE - GMEET	150 c/a	NEWSLETTER <a href="https://drive.google.com/file/d/146u7KYfwilfDdzp5AmoM-7MvbQ-ukqj_/view">https://drive.google.com/file/d/146u7KYfwilfDdzp5AmoM-7MvbQ-ukqj_/view</a>  POSTER <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bda7401a4.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bda7401a4.pdf</a>  <a href="https://drive.google.com/file/d/1Xk0KDwl-ir437tk8N_y9IkBIGkIDFSCw/view">https://drive.google.com/file/d/1Xk0KDwl-ir437tk8N_y9IkBIGkIDFSCw/view</a>  VIDEO <a href="https://www.youtube.com/watch?v=Rbb_dr4LN8">https://www.youtube.com/watch?v=Rbb_dr4LN8</a>

				<p>ATTENDANCE REGISTER  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b88463a67.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b88463a67.pdf</a></p> <p><a href="https://drive.google.com/file/d/1_qw8TyB3S85CcuhYYWKg0TAztG62of_/view">https://drive.google.com/file/d/1_qw8TyB3S85CcuhYYWKg0TAztG62of_/view</a></p> <p>RESULTS OF THE SATISFACTION QUESTIONNAIRE  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b98ded3e7.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b98ded3e7.pdf</a></p> <p><a href="https://drive.google.com/file/d/1FsBfT5kQcss5SoTM7SwDkSwTWhs8HTm5/view">https://drive.google.com/file/d/1FsBfT5kQcss5SoTM7SwDkSwTWhs8HTm5/view</a></p>
16.03.2021	ITALY	ON LINE - GMEET	180 c/a	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1RkY9Fgrgk0zJHuuEWurf57RDfySVipAm/view">https://drive.google.com/file/d/1RkY9Fgrgk0zJHuuEWurf57RDfySVipAm/view</a></p> <p>POSTER  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b6827b6e7.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b6827b6e7.pdf</a>  <a href="https://drive.google.com/file/d/1MhpNHmnOilo6ZfD9w2Ua-14is6RkaPkz/view">https://drive.google.com/file/d/1MhpNHmnOilo6ZfD9w2Ua-14is6RkaPkz/view</a></p> <p>VIDEO  <a href="https://www.youtube.com/watch?v=QtmHTLiCPQ">https://www.youtube.com/watch?v=QtmHTLiCPQ</a></p> <p>ATTENDANCE REGISTER  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b578f2167.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b578f2167.pdf</a>  <a href="https://drive.google.com/file/d/14PxU0u0gFDD0q7NHGgwm5tZK-Ovj9U0j/view">https://drive.google.com/file/d/14PxU0u0gFDD0q7NHGgwm5tZK-Ovj9U0j/view</a></p> <p>RESULTS OF THE SATISFACTION QUESTIONNAIRE  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b78c04c67.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b78c04c67.pdf</a>  <a href="https://drive.google.com/file/d/1LVe1i98AvsAI9IVfSd8LyFoe-Qmj-Zw6/view">https://drive.google.com/file/d/1LVe1i98AvsAI9IVfSd8LyFoe-Qmj-Zw6/view</a></p>
30.06.2021	SPAIN	School's playground	58	<p>PHOTO  <a href="https://drive.google.com/drive/folders/1U2cCWWhUHHGKm-8eNN8qEN5PORZnh44mR?usp=sharing">https://drive.google.com/drive/folders/1U2cCWWhUHHGKm-8eNN8qEN5PORZnh44mR?usp=sharing</a></p>
06.10.2021	FINLAND	Ivalo	30	
October 2021	UK	School playground	40	
25.11.2021	SPAIN	School's playground	64	
16.12.2021	ITALY	Brufa	80	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1kte7BMQqhAILRU3xAcqOIC4yQ51giJvh/view">https://drive.google.com/file/d/1kte7BMQqhAILRU3xAcqOIC4yQ51giJvh/view</a></p> <p>PHOTO  <a href="https://drive.google.com/drive/folders/1VVQ44ZrllfFvumkacAyFEz9cZYjeLHEU?usp=sharing">https://drive.google.com/drive/folders/1VVQ44ZrllfFvumkacAyFEz9cZYjeLHEU?usp=sharing</a></p>
30.03.2022	GREECE	Iraklion	70	<p>PHOTO  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/images/ab6924bd7.jpg">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/images/ab6924bd7.jpg</a></p>
22.05.2022	ITALY	Amelia	40	



# TEACHING MODULES AND THEMATIC DEEPENING

Production of school materials (presentations, videos...)

The five modules that will be developed by the schools before each mobility will allow students and teachers to analyze further aspects related to the central focus of project. As for the cross-curricular module the students, working in their own schools on the topic in object, will have an active role in planning and organizing activities, will be able to formulate hypotheses and collect data to be compared during the various meetings.

Furthermore, each country will contribute with a thematic deepening identified on the specific characteristics of the place.

Teachers and students will attend a highly specialized training and education with particular regard to the scientific experimental method and the use procedures of the scientific equipment dedicated to the Astronomy’s study.

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS	
PARTNER	DESCRIPTION	MATERIALS
ALL PARTNERS SCHOOL	<u>IVALO MOBILITY</u> The Sun as a reference point for diurnal orientation and its relationship with the Solar System. General characteristics of the Sun and the phenomena related to them. The apparent movement of the Sun.	STUDENTS MATERIALS <u>SOLAR SYSTEM</u> <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2160421701">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2160421701</a> <u>OUR STAR: THE SUN</u> <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bc92a02af.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bc92a02af.pdf</a>  <a href="https://drive.google.com/file/d/15bfKtA78sOCSgn53YJBSYv6Yu8ZrMMHF/view">https://drive.google.com/file/d/15bfKtA78sOCSgn53YJBSYv6Yu8ZrMMHF/view</a> <u>IN SPACE WE CAN SEE LAPBOOK</u> <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257480326">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257480326</a> <u>SOLAR SYSTEM MINI-BOOK</u> <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257489723">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2257489723</a>  TEACHING MATERIALS <u>SOLAR SYSTEM DISTANCES AMONG PLANETS</u> <a href="https://drive.google.com/file/d/1SC9czVOybnVihWZakDTasdGq00UaLa6b/view">https://drive.google.com/file/d/1SC9czVOybnVihWZakDTasdGq00UaLa6b/view</a>
FINLAND	<i>Thematic deepening</i> Phenomena related to the activity of the Sun AURORA BOREALIS and POLAR NIGHTS.	

ALL PARTNERS SCHOOL	<p><u>VALENCIA MOBILITY</u></p> <p>Scientific discoveries in the astronomical field and their impact on human life.</p> <p>Evolution of orientation tools: from the use of stars to very high precision satellite systems.</p>	<p>STUDENTS MATERIALS</p> <p><u>EVOLUTION OF ORIENTATION TOOLS FROM STARS TO SATELLITE SYSTEMS</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1972407481">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1972407481</a>  <u>AN IMPOSSIBLE INTERVIEW TO GALILEO GALILEI</u>  <a href="https://www.youtube.com/watch?v=ymXXlrb73IA">https://www.youtube.com/watch?v=ymXXlrb73IA</a>  <u>SPACE DEBRIS</u>  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bfaf3c72f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bfaf3c72f.pdf</a></p> <p><a href="https://drive.google.com/file/d/1N4Wh-5HvCcFw0RgV0aO51CWMMUaHlqb/view">https://drive.google.com/file/d/1N4Wh-5HvCcFw0RgV0aO51CWMMUaHlqb/view</a>  <u>THE INTERNATIONAL SPACE STATION</u>  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/ba76f83ef.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/ba76f83ef.pdf</a></p> <p><a href="https://drive.google.com/file/d/1vR6LeSTSwJ6AL8XY1HE6Far2qjt1_BLI/view">https://drive.google.com/file/d/1vR6LeSTSwJ6AL8XY1HE6Far2qjt1_BLI/view</a>  <u>BEYOND OUR SOLAR SYSTEM</u>  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b86c7a8af.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b86c7a8af.pdf</a></p> <p><a href="https://drive.google.com/file/d/1WkxY0SP1vEBv5vGhXAYCLOf9eCh9eXVm/view">https://drive.google.com/file/d/1WkxY0SP1vEBv5vGhXAYCLOf9eCh9eXVm/view</a></p>
SPAIN	<p><i>Thematic deepening</i></p> <p>Experiential activity and interactive astronomical measurements at the Garden of Astronomy and the City of Art and Science of Valencia.</p>	<p><u>GARDEN OF ASTRONOMY AND THE CITY OF ART AND SCIENCE OF VALENCIA PHOTO ALBUM</u>  <a href="https://drive.google.com/file/d/1EnIC1E56Wze8so_C9YGDsjHUyIKLLOaz/view">https://drive.google.com/file/d/1EnIC1E56Wze8so_C9YGDsjHUyIKLLOaz/view</a></p>
ALL PARTNERS SCHOOL	<p><u>CRETE MOBILITY</u></p> <p>Myths and legends related to the celestial vault.</p> <p>Comparison between the myths belonging to the culture of each country to detect similarities and differences.</p>	<p>STUDENTS MATERIALS</p> <p><u>DISCOVERING CONSTELLATIONS 2</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1309266096">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1309266096</a>  <u>THE CONSTELLATIONS BETWEEN ASTRONOMY AND LEGEND</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1540414508">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1540414508</a>  <u>DISCOVERING CONSTELLATIONS</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1540422827">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/1540422827</a>  <u>THE CONSTELLATION OF ORION ACCORDING TO VARIOUS CULTURE</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2142723842">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2142723842</a>  <u>THE CONSTELLATION OF URSA MAYOR ACCORDING TO VARIUS CULTURE</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2142725978">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2142725978</a>  <u>OUR MYTH: CHALICES OF STARS</u>  <a href="https://www.youtube.com/watch?v=-dtcT__nSeY&amp;t=4s">https://www.youtube.com/watch?v=-dtcT__nSeY&amp;t=4s</a>  <u>THE MYTHS OF THE CONSTELLATIONS</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2142732044">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2142732044</a>  <u>AN INTERNATIONAL FRIENDSHIP</u>  <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249193070">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249193070</a>  <u>OUR CONSTELLATION</u>  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c58524796.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c58524796.pdf</a>  <a href="https://drive.google.com/file/d/12V9xK1uAipWgmuV4GQILb94HgBNXv-SC/view">https://drive.google.com/file/d/12V9xK1uAipWgmuV4GQILb94HgBNXv-SC/view</a>  <u>KALEVALA THE NATIONAL HISTORY OF FINLAND</u>  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bb8aedb13.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bb8aedb13.pdf</a>  <a href="https://drive.google.com/file/d/1U-A1Op-4K656rkMXihZ-UMdi6rduOZiT/view">https://drive.google.com/file/d/1U-A1Op-4K656rkMXihZ-UMdi6rduOZiT/view</a></p>

GREECE	<p><i>Thematic deepening</i></p> <p>Greek mythology</p> <p>History and mythology related to the constellations starting from the knowledge of the origin of the names.</p>	<p>STUDENTS MATERIALS</p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bb7da4234.pdf">THE PLEIADES - SEVEN SISTERS</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bb7da4234.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bb7da4234.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/1HYTXS6zZ58eaExLKINizHyhBV-aXe6cO/view">https://drive.google.com/file/d/1HYTXS6zZ58eaExLKINizHyhBV-aXe6cO/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/1HYTXS6zZ58eaExLKINizHyhBV-aXe6cO/view">ANDROMEDA</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bea2d5a74.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bea2d5a74.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/1L76xWyY1borcH0UX1bYfgyeFuWbcPusU/view">https://drive.google.com/file/d/1L76xWyY1borcH0UX1bYfgyeFuWbcPusU/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/1L76xWyY1borcH0UX1bYfgyeFuWbcPusU/view">CASSIOPEIA</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ba7d8bc94.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ba7d8bc94.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/1C1pJZ4zqAeJHt2s-eQMvuHy9UQy0e7MZ/view">https://drive.google.com/file/d/1C1pJZ4zqAeJHt2s-eQMvuHy9UQy0e7MZ/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/1C1pJZ4zqAeJHt2s-eQMvuHy9UQy0e7MZ/view">LYRA</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c18514974.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c18514974.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/19jQOI-bqSrQN7Y-tq9J9jpJAgMxjgVld/view">https://drive.google.com/file/d/19jQOI-bqSrQN7Y-tq9J9jpJAgMxjgVld/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/19jQOI-bqSrQN7Y-tq9J9jpJAgMxjgVld/view">URSA MAJOR &amp; URSA MINOR</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c0954af34.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c0954af34.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/17x6GPONw3LDq7c-J3pH5DFO4qKZZ90_w/view">https://drive.google.com/file/d/17x6GPONw3LDq7c-J3pH5DFO4qKZZ90_w/view</a></u></p>
ALL PARTNERS SCHOOL	<p>LONDON MOBILTY</p> <p>The Earth, its motions and the reference systems.</p> <p>Criteria for the construction of terrestrial and celestial geographical grid.</p> <p>Data relating to the change in landscape and climate at different latitudes.</p>	<p>TEACHERS MATERIALS</p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b969bb60b.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b969bb60b.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/1Ycp6k67JPMjvW7KNAPEVXuCAoTvuRe8H/view">https://drive.google.com/file/d/1Ycp6k67JPMjvW7KNAPEVXuCAoTvuRe8H/view</a></u></p> <p>STUDENTS MATERIALS</p> <p><u><a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249204380">REFERENCE SYSTEMS</a></u></p> <p><u><a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249204380">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249204380</a></u></p> <p><u><a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249205274">EARTH</a></u></p> <p><u><a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249205274">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea/wish/2249205274</a></u></p>
UK	<p><i>Thematic deepening</i></p> <p>Reference systems on the Earth's surface with a special focus on the geographical grid and geographical coordinates.</p> <p>Moon phases.</p>	<p>TEACHERS MATERIALS</p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ac7fcb697.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ac7fcb697.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/1Vv6VnSCPvuNffKmR5BEyaFTZ4Ks3Rmw6/view">https://drive.google.com/file/d/1Vv6VnSCPvuNffKmR5BEyaFTZ4Ks3Rmw6/view</a></u></p>
ALL PARTNERS SCHOOL	<p>TORGIANO-BETTONA MOBILITY</p> <p>Art and literature inspired by astronomy</p>	<p>STUDENTS MATERIALS</p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c4989015f.pdf">PHOTOGRAPHY AND ASTRONOMY</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c4989015f.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c4989015f.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/13o_57nRDpQMLTtvHfRf_0lqEauqPINjjs/view">https://drive.google.com/file/d/13o_57nRDpQMLTtvHfRf_0lqEauqPINjjs/view</a></u></p>
ITALY	<p><i>Thematic deepening</i></p> <p>Art and literary works inspired by the celestial vault.</p>	<p>SEMINARS MATERIALS</p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ad99a80c7.pdf">STORIES OF BLUE SLIDES</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ad99a80c7.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ad99a80c7.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/1zh9rAOuWUo_ZPFWwUoC8MNC3kDndJUmZ/view">https://drive.google.com/file/d/1zh9rAOuWUo_ZPFWwUoC8MNC3kDndJUmZ/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/1zh9rAOuWUo_ZPFWwUoC8MNC3kDndJUmZ/view">LECTURE "THE UNIVERSE OF DANTE ALIGHIERI BETWEEN ANCIENT AND MODERN ASTRONOMY"</a></u></p> <p>by Sperello di Serego Alighieri, Astrophysicist and descendant of Dante Alighieri</p> <p>STUDENTS MATERIALS</p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bb7ed021f.pdf">LITERATURE AND ASTRONOMY -PASSAGGIO DI BETTONA LOWER SECONDARY SCHOOL</a></u></p> <p><u><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bb7ed021f.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bb7ed021f.pdf</a></u></p> <p><u><a href="https://drive.google.com/file/d/18PnMG1vaNikuZq8zq-WdaHBxJI7D7TyZ/view">https://drive.google.com/file/d/18PnMG1vaNikuZq8zq-WdaHBxJI7D7TyZ/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/18PnMG1vaNikuZq8zq-WdaHBxJI7D7TyZ/view">SALT WAR RE-ENACTMENT – SCREEN PLAY - TORGIANO LOWER SECONDARY SCHOOL</a></u></p> <p><u><a href="https://drive.google.com/file/d/18PnMG1vaNikuZq8zq-WdaHBxJI7D7TyZ/view">https://drive.google.com/file/d/18PnMG1vaNikuZq8zq-WdaHBxJI7D7TyZ/view</a></u></p> <p><u><a href="https://drive.google.com/file/d/1IU1zb2NtJ_w6iJNPonKPPzDg_rqj_VOg/view">https://drive.google.com/file/d/1IU1zb2NtJ_w6iJNPonKPPzDg_rqj_VOg/view</a></u></p>



# ERASMUS CORNER (PHYSICAL AND/OR VIRTUAL)

Immediately after returning from the first mobility in Ivalo, each school set up a corner dedicated to the project inside and / or outside the school. The students, coordinated by their teachers, prepared many kinds of materials to share the experiences of the project with the entire school community:

- photographic posters;
- mobility logbook;
- thematic materials prepared for mobilities;
- presentation materials of partner schools;
- posters and materials related to the project topic.

Virtual corners have also been set up especially following the pandemic and the interruption of face-to-face lessons.

## ERASMUS CORNERS - PHOTO ALBUM

<https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c0b33c35f.pdf>

[https://drive.google.com/file/d/1OexGspt8PjfCGd\\_pmqRLGxxUeLPkKYFV/view](https://drive.google.com/file/d/1OexGspt8PjfCGd_pmqRLGxxUeLPkKYFV/view)

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS FAMILIES AND TERRITORIAL COMMUNITIES LOCAL AND EUROPEAN TEACHERS AND SCHOOLS (EXTRA-PROJECT)
PARTNER	PHOTOS - LINK
ALL PARTNER COUNTRIES	PHYSICAL CORNERS ERASMUS CORNERS' PHOTO ALBUM <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c0b33c35f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/c0b33c35f.pdf</a>  <a href="https://drive.google.com/file/d/1OexGspt8PjfCGd_pmqRLGxxUeLPkKYFV/view">https://drive.google.com/file/d/1OexGspt8PjfCGd_pmqRLGxxUeLPkKYFV/view</a>  VIRTUAL CORNERS <a href="https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea">https://padlet.com/luciana_lapucci/zb3e1cdm91t7feea</a>  <a href="https://padlet.com/danielarosati71/5rigq9xobrhj">https://padlet.com/danielarosati71/5rigq9xobrhj</a>

## ERASMUS EVENT

Both during the mobilities and after them, events were organized in each school to raise awareness of the project activities.

During the mobility, each school organized a final event involving the whole school community and during which certificates of participation were delivered to the host schools with an official ceremony. When it was possible, in accordance with the pandemic situation, parents, the local community and representatives of the press attended the event.

Upon returning from each mobility, each school organized an event aimed at disseminating the experiences witnessed during the trip abroad. During these events open to the school community in a broad sense, students and teachers talked about their experiences, the results collected and didactic tools made. Following the restrictions linked to the pandemic, teachers and students who did not take part in the mobility attended the event, as well as representatives of local and territorial organizations, representatives of the school supervisory board, parents' associations and families. The local press was also invited, in order to make the project activities known to a wide audience.

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS FAMILIES AND TERRITORIAL COMMUNITIES LOCAL AND EUROPEAN TEACHERS AND SCHOOLS (EXTRA-PROJECT)				
DATE	PARTNER COUNTRY	COUNTRY OF VENUE	NUMBER OF PEOPLE INVOLVED	DESCRIPTION	MATERIALS
04.10.2019	ALL PARTNER COUNTRY	ITALY	100	Event to present the project to the community, in the presence of local authorities and teachers from the participating countries.	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1jZjz_QzRJDRIH-Q8-iwXmRE2tsy4ma_Z/view">https://drive.google.com/file/d/1jZjz_QzRJDRIH-Q8-iwXmRE2tsy4ma_Z/view</a></p> <p>ETWINNING  <a href="https://twinspace.etwinning.net/95921/pages/page/719253">https://twinspace.etwinning.net/95921/pages/page/719253</a></p> <p>POSTER  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7678a657.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7678a657.pdf</a>  <a href="https://drive.google.com/file/d/1p-4kVvkZQifUUhPdaUp2654aKcdKdqYJ8/view">https://drive.google.com/file/d/1p-4kVvkZQifUUhPdaUp2654aKcdKdqYJ8/view</a></p> <p>OTHER MATERIALS  <a href="https://drive.google.com/file/d/1xNIS4RRCWA8Ztv0Aeic0R1sf4twIN1u7/view">https://drive.google.com/file/d/1xNIS4RRCWA8Ztv0Aeic0R1sf4twIN1u7/view</a></p> <p>KICK OFF MEETING_ERASMUS EVENT_PHOTO ALBUM_ITALY  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7a4a4d3f.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7a4a4d3f.pdf</a>  <a href="https://drive.google.com/file/d/1Ve7D3XfFscJhPWal4DYZ9eoFbKCmjUgH/view">https://drive.google.com/file/d/1Ve7D3XfFscJhPWal4DYZ9eoFbKCmjUgH/view</a></p> <p>MEDIA DISSEMINATION VIDEO  <a href="https://www.youtube.com/watch?v=Tid0zkRHktE">https://www.youtube.com/watch?v=Tid0zkRHktE</a></p>

10.10.2019	FINLAND	FINLAND	40	Erasmus Event post Kick off Meeting	
20.11.2019	SPAIN	SPAIN	100	Erasmus Event post Kick off Meeting	<p>ONLINE DISSEMINATION</p> <p><a href="https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/">https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/</a></p> <p><a href="https://www.facebook.com/154265241312798/posts/3320128134726477/">https://www.facebook.com/154265241312798/posts/3320128134726477/</a></p> <p><a href="https://mestreacasa.gva.es/web/ceipantonio-machado-xirivella">https://mestreacasa.gva.es/web/ceipantonio-machado-xirivella</a></p> <p><a href="https://mobile.twitter.com/ceip_machado/wit_h_replies">https://mobile.twitter.com/ceip_machado/wit_h_replies</a></p>
23.01.2020	ALL PARTNER COUNTRY	FINLAND	100	Erasmus Event Ivalo mobility	<p>IVALO POLAR POINTER CEREMONY VIDEO</p> <p><a href="https://drive.google.com/drive/u/0/folders/1aKrdyxuevpaxA03jboq-bkSs1UXoTpCT">https://drive.google.com/drive/u/0/folders/1aKrdyxuevpaxA03jboq-bkSs1UXoTpCT</a></p> <p>ERASMUS EVENT PHOTO ALBUM_IVALO MOBILITY</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/baa9d262f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/baa9d262f.pdf</a></p> <p><a href="https://drive.google.com/file/d/1QQAQQjCNtr-oH3w93hgIBPTmAha8-U-4-/view">https://drive.google.com/file/d/1QQAQQjCNtr-oH3w93hgIBPTmAha8-U-4-/view</a></p>
21.02.2020	SPAIN	SPAIN	40	Erasmus Event post Ivalo Mobility	<p>ONLINE DISSEMINATION</p> <p><a href="https://mobile.twitter.com/ceip_machado/wit_h_replies">https://mobile.twitter.com/ceip_machado/wit_h_replies</a></p>
25.02.2020	GREECE	GREECE	50	Erasmus Event post Ivalo Mobility	<p>PHOTO</p> <p><a href="https://photos.app.goo.gl/v9EhHTNitbawjL2g9">https://photos.app.goo.gl/v9EhHTNitbawjL2g9</a></p>
27.02.2020	ITALY	ITALY	60	Erasmus Event post Ivalo Mobility	<p>POSTER</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bbe52460.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bbe52460.pdf</a></p> <p><a href="https://drive.google.com/file/d/1cW-1Uq6z8MU92Wsl5cyozIP66qTBye6E/view">https://drive.google.com/file/d/1cW-1Uq6z8MU92Wsl5cyozIP66qTBye6E/view</a></p> <p>MATERIALS</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b8b6c367f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b8b6c367f.pdf</a></p> <p><a href="https://drive.google.com/file/d/1kGXlStf6fgpuQuKO6RfaTtgQXE0ISgxa/view">https://drive.google.com/file/d/1kGXlStf6fgpuQuKO6RfaTtgQXE0ISgxa/view</a></p> <p>VIDEO PRESENTATION</p> <p><a href="https://www.youtube.com/watch?v=lb8sNKeVpbk">https://www.youtube.com/watch?v=lb8sNKeVpbk</a></p> <p>IVALO ERASMUS EVENT_PHOTO ALBUM_ITALY</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bba95105f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bba95105f.pdf</a></p> <p><a href="https://drive.google.com/file/d/1_CQCjPhJ6la1GxPI_yMJBQQMQA1S-Unr/view">https://drive.google.com/file/d/1_CQCjPhJ6la1GxPI_yMJBQQMQA1S-Unr/view</a></p>
25.11.2021	SPAIN ITALY FINLAND GREECE	SPAIN	60	Erasmus Event Valencia mobility	<p>ERASMUS EVENT PHOTO ALBUM_VALENCIA MOBILITY</p> <p><a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b9963e55f.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b9963e55f.pdf</a></p> <p><a href="https://drive.google.com/file/d/1fW-YO-fr8PaGFH_7DEF57iqZHuSRUCox/view">https://drive.google.com/file/d/1fW-YO-fr8PaGFH_7DEF57iqZHuSRUCox/view</a></p>

16.12.2021	ITALY	ITALY	40	Erasmus Event post Valencia Mobility	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/13lKhah-NljPS2JirkzBYEkZ7XBcjTHtx/view">https://drive.google.com/file/d/13lKhah-NljPS2JirkzBYEkZ7XBcjTHtx/view</a></p> <p>POSTER  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c083c581c.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c083c581c.pdf</a>  <a href="https://drive.google.com/file/d/1bNgujn7hcN8pZSsq2ev8X-N8Y60b4_9M/view">https://drive.google.com/file/d/1bNgujn7hcN8pZSsq2ev8X-N8Y60b4_9M/view</a></p> <p>PARTICIPANTS  <a href="https://drive.google.com/file/d/1V6OUcIg1c-IQ5_RZ_V2NMP94T5tajL69/view">https://drive.google.com/file/d/1V6OUcIg1c-IQ5_RZ_V2NMP94T5tajL69/view</a></p> <p>VALENCIA ERASMUS EVENT_PHOTO          ALBUM_ITALY  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b77a9629f.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b77a9629f.pdf</a>  <a href="https://drive.google.com/file/d/1dY99qtZHVkwvR0jBr752dpDRO3Ql6d5s/view">https://drive.google.com/file/d/1dY99qtZHVkwvR0jBr752dpDRO3Ql6d5s/view</a></p>
31.03.2022	GREECE SPAIN ITALY FINLAND	GREECE	100	Erasmus Event Heraklion mobility	<p>ERASMUS EVENT PHOTO ALBUM_CRETE          MOBILITY  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b59191e3f.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b59191e3f.pdf</a>  <a href="https://drive.google.com/file/d/12DH6cjabbXdDpkjit0GocZglfwgvy_8x/view">https://drive.google.com/file/d/12DH6cjabbXdDpkjit0GocZglfwgvy_8x/view</a></p>
24.04.2022	FINLAND	FINLAND	25	Erasmus Event post Crete Mobility	
26.04.2022	ITALY	ITALY	40	Erasmus Event post Crete Mobility	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1W4uUsNGVzp25gsLrK3s1UtgAmbpto-dL/view">https://drive.google.com/file/d/1W4uUsNGVzp25gsLrK3s1UtgAmbpto-dL/view</a></p> <p>POSTER  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b8b699a77.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b8b699a77.pdf</a>  <a href="https://drive.google.com/file/d/1C5p2PQ4j7-fF6vca4pphgAuW2PqsBfof/view">https://drive.google.com/file/d/1C5p2PQ4j7-fF6vca4pphgAuW2PqsBfof/view</a></p> <p>MATERIALS  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b4909dc7f.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b4909dc7f.pdf</a>  <a href="https://drive.google.com/file/d/1GDMlpgY2_4dWwMyZjHMmdFiFN3PqlqD/view">https://drive.google.com/file/d/1GDMlpgY2_4dWwMyZjHMmdFiFN3PqlqD/view</a></p> <p>CRETE ERASMUS EVENT_PHOTO ALBUM_ITALY  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bcb2da9df.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bcb2da9df.pdf</a>  <a href="https://drive.google.com/file/d/1WGJdjhsZCAM_ru_ufrhf-PdTwosUmzC/view">https://drive.google.com/file/d/1WGJdjhsZCAM_ru_ufrhf-PdTwosUmzC/view</a></p>
06.05.2022	UK ITALY GREECE SPAIN FINLAND	UK	50	Erasmus Event London mobility	<p>ERASMUS EVENT PHOTO ALBUM_LONDON          MOBILITY  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b69b1b7bf.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b69b1b7bf.pdf</a>  <a href="https://drive.google.com/file/d/1NaNosuLESikHNUi0n0aiWThSuzNfhXkh/view">https://drive.google.com/file/d/1NaNosuLESikHNUi0n0aiWThSuzNfhXkh/view</a></p>



13.05.2022	ITALY	ITALY	40	Erasmus Event post London Mobility	<p>NEWSLETTER  <a href="https://drive.google.com/file/d/1AQF4XcFj5ousGxuk84YlwK4qHyS2vvdI/view">https://drive.google.com/file/d/1AQF4XcFj5ousGxuk84YlwK4qHyS2vvdI/view</a></p> <p>POSTER  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5ac03d97.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b5ac03d97.pdf</a>  <a href="https://drive.google.com/file/d/1AjFvKCsf9nwfFZa-E9OBe9D_K7-WWEQ9/view">https://drive.google.com/file/d/1AjFvKCsf9nwfFZa-E9OBe9D_K7-WWEQ9/view</a></p> <p>MATERIALS  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7b5cf4bf.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b7b5cf4bf.pdf</a>  <a href="https://drive.google.com/file/d/1J1kGxfHpznALtdmFDUzzJxhCGjsTZi-W/view">https://drive.google.com/file/d/1J1kGxfHpznALtdmFDUzzJxhCGjsTZi-W/view</a></p> <p>LONDON ERASMUS EVENT_PHOTO  ALBUM_ITALY  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b8996b1b7.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b8996b1b7.pdf</a>  <a href="https://drive.google.com/file/d/1w-pYJuASq2gCjQCePTgHYC1Bgw1IJ1vg/view">https://drive.google.com/file/d/1w-pYJuASq2gCjQCePTgHYC1Bgw1IJ1vg/view</a></p>
16.05.2022	SPAIN	SPAIN	35	Erasmus Event post Heraclion Mobility	<p>INSTAGRAM POST  <a href="https://www.instagram.com/p/CdtOqbgI42D/">https://www.instagram.com/p/CdtOqbgI42D/</a></p>
18.05.2022	FINLAND	FINLAND	25	Erasmus Event post London Mobility	
26.05.2022	ITALY GREECE SPAIN FINLAND UK	ITALY	100	PROJECT FINAL EVENT Torgiano Bettona Mobility	<p>PHOTO ALBUM  <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c0be0cabf.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c0be0cabf.pdf</a>  <a href="https://drive.google.com/file/d/1jSK1uljAlygYdB2_DBOqLdqxNd27UdMy/view">https://drive.google.com/file/d/1jSK1uljAlygYdB2_DBOqLdqxNd27UdMy/view</a></p> <p>VIDEO CONTRIBUTION DR. SARA PAGLIAI  Coordinator of the Italian Erasmus + National Agency  <a href="https://www.youtube.com/watch?v=gr9gObPZYOA">https://www.youtube.com/watch?v=gr9gObPZYOA</a></p>
09.06.2022	SPAIN	SPAIN	40	Erasmus Event post London Mobility	<p>INSTAGRAM POST  <a href="https://www.instagram.com/p/CemKMRprxPd/">https://www.instagram.com/p/CemKMRprxPd/</a></p>
16.06.2022	SPAIN	SPAIN	45	Erasmus Event post Mobility in Italy	

# SCHOOL DISSEMINATION WORKSHOPS

Starting from the following month of Ivalo mobility, workshops held by teachers and / or students were organized in each partner school to share the experiences related to mobility with the school communities and to involve colleagues and classes who could not take part.

Following the restrictions due to the pandemic, different methods of dissemination have been adopted, including the online pattern, trying to maintain the aims and spirit with which they were planned.

ITALY			
TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS		
DATE	NUMBER OF PEOPLE INVOLVED	DESCRIPTION	MATERIALS
17.09.2019	100	Event to present the project to the school community	NEWSLETTER
20.02.2020	50	The headteacher and the teachers in mobility at Ivalo share their experience with colleagues, focusing on analogies and differences regarding the two school systems.	<p>NEWSLETTER</p> <p>PHOTOS  <a href="https://drive.google.com/drive/folders/1i_NfNVmN5Y5zKI4_7hUCv1pWLdErWt5P?usp=sharing">https://drive.google.com/drive/folders/1i_NfNVmN5Y5zKI4_7hUCv1pWLdErWt5P?usp=sharing</a></p> <p>IVALO TEACHERS' DISSEMINATION WORKSHOP  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b198c03d7.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b198c03d7.pdf</a>  <a href="https://drive.google.com/file/d/1WIRzXoEnpn6OImPs5a2H_PviwSiAS6fC/view">https://drive.google.com/file/d/1WIRzXoEnpn6OImPs5a2H_PviwSiAS6fC/view</a></p> <p>VIDEO  <a href="https://www.youtube.com/watch?v=lb8sNKeVpbk">https://www.youtube.com/watch?v=lb8sNKeVpbk</a></p>
26.02.2020	80	Ivalo mobility dissemination with students of primary and secondary school in Torgiano	<p>PHOTOS  <a href="https://drive.google.com/drive/folders/1gAh7oFyc_ifCVqhapyiAag_lzyV14x_G?usp=sharing">https://drive.google.com/drive/folders/1gAh7oFyc_ifCVqhapyiAag_lzyV14x_G?usp=sharing</a></p> <p>IVALO STUDENTS' WORKSHOP DISSEMINATION_PHOTO ALBUM_ITALY  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b26634b17.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b26634b17.pdf</a>  <a href="https://drive.google.com/file/d/1nVlqM6YYbnWGDcyYJQhs5wcxZehPJaxD/view">https://drive.google.com/file/d/1nVlqM6YYbnWGDcyYJQhs5wcxZehPJaxD/view</a></p>
03/04.03.2020	75	Ivalo mobility dissemination with students of primary and secondary school in Passaggio di Bettona	<p>PHOTOS  <a href="https://drive.google.com/drive/folders/1WH86kg5xS-7SAitPQmW8GvkNGcKGxeqp?usp=sharing">https://drive.google.com/drive/folders/1WH86kg5xS-7SAitPQmW8GvkNGcKGxeqp?usp=sharing</a></p> <p>IVALO STUDENTS' WORKSHOP DISSEMINATION_PHOTO ALBUM_ITALY  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b26634b17.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/b26634b17.pdf</a>  <a href="https://drive.google.com/file/d/1nVlqM6YYbnWGDcyYJQhs5wcxZehPJaxD/view">https://drive.google.com/file/d/1nVlqM6YYbnWGDcyYJQhs5wcxZehPJaxD/view</a></p>

17/22.12.2021	50	Valencia mobility dissemination with students of secondary school in Passaggio di Bettona	<p>PHOTOS</p> <p><a href="https://drive.google.com/drive/folders/1WH86kg5xS-7SAitPQmW8GvkNGcKGxeqp?usp=sharing">https://drive.google.com/drive/folders/1WH86kg5xS-7SAitPQmW8GvkNGcKGxeqp?usp=sharing</a></p> <p>VALENCIA STUDENTS' WORKSHOP DISSEMINATION_PHOTO ALBUM_ITALY_PASSAGGIO</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/baa9eab57.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/baa9eab57.pdf</a></p> <p><a href="https://drive.google.com/file/d/1GWqxVP81vxd_rLQpaGKa6Fgs_uE3csVa/view">https://drive.google.com/file/d/1GWqxVP81vxd_rLQpaGKa6Fgs_uE3csVa/view</a></p>
12.2021 – 01.2022	60	Valencia mobility dissemination with students of secondary school in Torgiano	<p>PHOTOS</p> <p><a href="https://drive.google.com/drive/folders/1pGxucN3PXvgQPnUxld_YjDqHqIhdDjGm?usp=sharing">https://drive.google.com/drive/folders/1pGxucN3PXvgQPnUxld_YjDqHqIhdDjGm?usp=sharing</a></p> <p>VALENCIA STUDENTS' WORKSHOP DISSEMINATION_PHOTO ALBUM_ITALY_TORGIANO</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bbb3740d7.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bbb3740d7.pdf</a></p> <p><a href="https://drive.google.com/file/d/1YXXw73s7Bi2mW71KbL4SvXHVH_w8-Hiy/view">https://drive.google.com/file/d/1YXXw73s7Bi2mW71KbL4SvXHVH_w8-Hiy/view</a></p>
13.01.2022	30	The headteacher and the teachers in mobility at Valencia share their experience with colleagues, focusing on analogies and differences regarding the two school systems.	<p>PHOTOS</p> <p><a href="https://drive.google.com/drive/folders/1gdTPHgSF03bEVeSdzYAV1RtktlufsTI4?usp=sharing">https://drive.google.com/drive/folders/1gdTPHgSF03bEVeSdzYAV1RtktlufsTI4?usp=sharing</a></p> <p>VALENCIA TEACHERS' WORKSHOP DISSEMINATION_PHOTO ALBUM_ITALY</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bbbb2d877.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bbbb2d877.pdf</a></p> <p><a href="https://drive.google.com/file/d/1BQOG79zdPLGDwCWBKGXdhs4CfFNOXKxn/view">https://drive.google.com/file/d/1BQOG79zdPLGDwCWBKGXdhs4CfFNOXKxn/view</a></p>
April 2022	40	Crete mobility dissemination with students of secondary school	<p>CRETE STUDENTS' WORKSHOP DISSEMINATION_PHOTO ALBUM_ITALY</p> <p><a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bfbb79567.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/bfbb79567.pdf</a></p> <p><a href="https://drive.google.com/file/d/1sOY5mW9V5UFyd47C90_lxwMIuZRxJOvl/view">https://drive.google.com/file/d/1sOY5mW9V5UFyd47C90_lxwMIuZRxJOvl/view</a></p>
May 2022	40	London mobility dissemination with students of secondary school	

## FINLAND

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS		
DATE	NUMBER OF PEOPLE INVOLVED	DESCRIPTION	MATERIALS
10.12.2021	41	Dissemination class about Valencia mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> <a href="https://drive.google.com/file/d/19tajZGMFwx3kzZl434HbArjzywJy4ns/view">https://drive.google.com/file/d/19tajZGMFwx3kzZl434HbArjzywJy4ns/view</a>
12.04.2022	42	Dissemination class about Crete mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> <a href="https://drive.google.com/file/d/1FQm5tjaviRoGxYSCRuVke_1grZ2SYsd4/view">https://drive.google.com/file/d/1FQm5tjaviRoGxYSCRuVke_1grZ2SYsd4/view</a>
13.05.2022	41	Dissemination class about London mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> <a href="https://drive.google.com/file/d/1iidSSKncM_EH3PVXpW8v2AcPxxWIMeSUN/view">https://drive.google.com/file/d/1iidSSKncM_EH3PVXpW8v2AcPxxWIMeSUN/view</a>
31.05.2022	42	Dissemination class about Italy mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> <a href="https://drive.google.com/file/d/1rHxbTXl2J_Wg_rJ1phkwwKOAoM2zzNei/view">https://drive.google.com/file/d/1rHxbTXl2J_Wg_rJ1phkwwKOAoM2zzNei/view</a>

## GREECE

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS		
DATE	NUMBER OF PEOPLE INVOLVED	DESCRIPTION	MATERIALS
10.10.2019	50	In-school dissemination of kick off meeting results	<a href="https://photos.google.com/share/AF1QipMWtba3j9Ynwl0xmnLVY-wa6z0oT1Wj8Vm2pEGR9mp0dW0LOLCEUD-aJerpiFnYg?key=YTZkQUJPM2h0MFVjd1Y3RVBiRU5XdTF2WmZ3SkZ3">https://photos.google.com/share/AF1QipMWtba3j9Ynwl0xmnLVY-wa6z0oT1Wj8Vm2pEGR9mp0dW0LOLCEUD - aJerpiFnYg?key=YTZkQUJPM2h0MFVjd1Y3RVBiRU5XdTF2WmZ3SkZ3</a>
09.12.2021	60	Valencia mobility dissemination	<a href="https://drive.google.com/file/d/1mNUfCg7_My4TqcAud8evZi42TOP_3RB9/view">https://drive.google.com/file/d/1mNUfCg7_My4TqcAud8evZi42TOP_3RB9/view</a>
13.06.2022	60	London mobility dissemination Mobility in Italy dissemination	<a href="https://twinspace.etwinning.net/95921/pages/page/726005">https://twinspace.etwinning.net/95921/pages/page/726005</a> <a href="https://twinspace.etwinning.net/95921/materials/images">https://twinspace.etwinning.net/95921/materials/images</a> <a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a>  <a href="https://drive.google.com/file/d/1mNUfCg7_My4TqcAud8evZi42TOP_3RB9/view">https://drive.google.com/file/d/1mNUfCg7_My4TqcAud8evZi42TOP_3RB9/view</a>



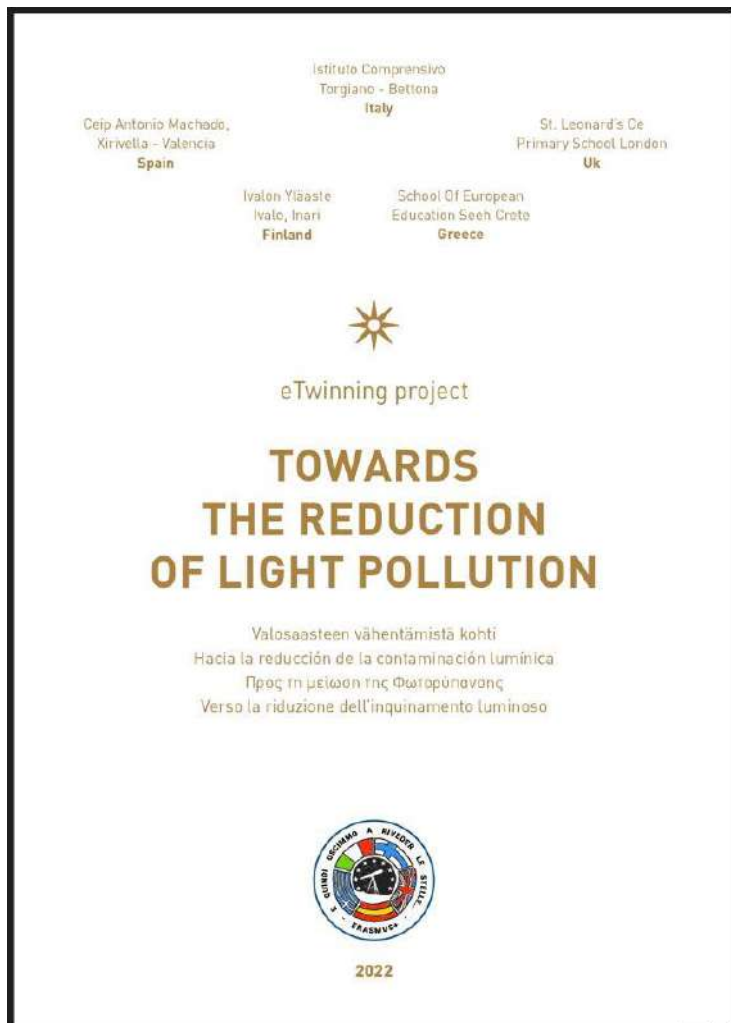
SPAIN			
TARGET GROUP	TEACHERS AND STUDENTS		
DATE	NUMBER OF PEOPLE INVOLVED	DESCRIPTION	MATERIALS
20.06. 2021	Groups: 5th and 6th	Story: seeing in the dark	Power point/photocopies
21.06.2021	Groups: 5th and 6th	Creating the sky (stars- constellations)	Cardboards/ stickers
School year 2020/2021	Groups 5th and 6th	Elaboration of a book of constellations. Each student writes his own: name of the constellation, drawing and description of it	Constellation booklet
School year 2020/2021	Groups 5th and 6th	Throughout the course, an interdisciplinary project of the Solar System is worked on together with mathematics.	Lapbbook, Portfolio
22.06.2021	Groups 5th and 6th	Dark Skies and light pollution experiments	Planetarium students made / torch
School year 2020/2021	Groups 5th and 6th	During the project session, the project materials have been worked exclusively: phases of the moon, constellations, orientation, elevation of the sun, distance of the planets...	Solar System on a cardboard
First term of the course 2021/2022	Groups 5th	Solar System Project in Natural Sciences	

UK			
TARGET GROUP	TEACHERS AND STUDENTS		
DATE	NUMBER OF PEOPLE INVOLVED	DESCRIPTION	MATERIALS
28.01.2020	~400	Whole School Assembly to discuss Finland Mobility	
06.06.2022	~400	Whole School Assembly to discuss Italy Mobility	

# TWINNING PROJECT ABOUT LIGHT POLLUTION

One year after the start of the project, a further action was launched aimed at creating a Manual of Good Practices for the reduction of light pollution. Each school had the possibility to involve two classes, not necessarily among those already involved in the main project. After a first phase in which the referent teachers of the participating classes met and planned the activities to be carried out, the students began to work on the topic and an eTwinning space dedicated to this action was opened.

Online meetings were organized, also on the occasion of Erasmus Day in October 2021, in which students were able to discuss the work done. The teachers then collected the materials and, with the help of a graphics expert, the final product was finalized both in paper and digital format, in English and in the other languages of the partnership. The manual was officially presented during the final event of the last mobility that took place in Italy in May 2022 and to ensure its maximum dissemination, it will remain available in the repository of the eTwinning platform and in the Erasmus Results Platform, but it has also been published on the official websites of each partner school.



## Link to the E-book

<https://online.fliphtml5.com/mrdrz/hljr/>

## PDF files

<https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b4a9c1b97.pdf>

[https://www.ictorgianobettona.edu.it/wp-content/uploads/2022/10/c-ERASMUS-KA229-E-QUINDI-USCIMMO-A-RIVEDERE-LE-STELLE-TOWARDS-THE-REDUCTION-OF-LIGHT-POLLUTION\\_DEF\\_compressed.pdf](https://www.ictorgianobettona.edu.it/wp-content/uploads/2022/10/c-ERASMUS-KA229-E-QUINDI-USCIMMO-A-RIVEDERE-LE-STELLE-TOWARDS-THE-REDUCTION-OF-LIGHT-POLLUTION_DEF_compressed.pdf)

## LOGO CONTEST

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The creation of the Project Logo, an activity not initially indicated in the design phase, is an action that has been planned since the initial Kick off meeting but, due to the pandemic, it has been postponed to the second year of the project. By mutual agreement, the partner schools recognized the importance of creating the Project Logo also in order to keep interest alive and to involve the students of the partner schools in a creative and highly motivating activity.

Each partner school initially identified some classes to which the contest should be addressed. The classes involved created and presented a single logo each and the teachers of the school voted for the one that best represented their school.

The logos chosen by the partner schools were then voted online and the winning logo of the project was the one presented by the Greek school.

### VIDEO

<https://www.youtube.com/watch?v=tSUcxABvbKA>



# DESIGN, CONSTRUCTION AND INSTALLATION OF THE POLAR POINTER

## OPENING CEREMONY AND PRESENCE OF THE POLAR POINTER IN EACH SCHOOL/COMMUNITY

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One of the activities that involved students and teachers of each school but also local communities in a broader sense was the design, construction and installation of the Polar Pointer, a sort of directional indicator to identify the astronomical north.

Each partner independently designed and built its own "installation", using different materials and construction techniques in accordance with their own territory and with the site in which they were placed.

The inauguration ceremony, which took place during the mobility, was attended by students and teachers from the host school and partner schools, representatives of local authorities and the press to give the project as much visibility as possible. In most cases, the Polar Pointer was installed within the school courtyard, near school buildings or in the surrounding area as a tangible and permanent sign of the project.

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS FAMILIES AND TERRITORIAL COMMUNITIES	
PARTNER	OPENING CEREMONY DATE	PHOTOS/MATERIALS
FINLAND	22.01.2020	POLAR POINTERS_PHOTO ALBUM <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/af7ef95df.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/af7ef95df.pdf</a>  <a href="https://drive.google.com/file/d/1ZXCc666N9tII6Y16CrPBI5rNFAMfO8II/view">https://drive.google.com/file/d/1ZXCc666N9tII6Y16CrPBI5rNFAMfO8II/view</a>
SPAIN	22.11.2022	
GREECE	30.03.2022	
UK	03.05.2022	
ITALY	25.05.2022	



# CREATION OF AN ASTRONOMICAL LABORATORY

Each school, following the suggestions received during the training course in Astronomy, has chosen the astronomical equipment to be purchased, in order to set up an Astronomical laboratory. The presence of these materials allowed schools to create concrete observation experiences and activities in classrooms during the project, so that students could directly learn about the functioning of the instruments used for the sky observation. These instruments will remain in each partner school and, together with the didactic modules developed during the project activities, will also allow the development of scientific and astronomical work units. In the future it is planned to implement the laboratory by purchasing more equipment.

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS LOCAL AND EUROPEAN TEACHERS AND SCHOOLS (EXTRA-PROJECT) FAMILIES AND TERRITORIAL COMMUNITIES
PARTNER	DESCRIPTION
FINLAND	<ul style="list-style-type: none"><li>– CELESTRON ASTROMASTER 130</li><li>– SKY MAPS</li></ul>
SPAIN	<ul style="list-style-type: none"><li>– N. 1 REFLECTING TELESCOPE NEWTON BASIC 130 EQ</li><li>– N. 1 TELESCOPE WITH SOLARIX 114/500 SOLAR FILTER</li><li>– N. 6 BOOKS:<ul style="list-style-type: none"><li>– Universe and planets</li><li>– Planets and satellites</li><li>– Constellations</li><li>– The incredible universe and planets</li><li>– A layered universe</li><li>– The planets</li></ul></li></ul>
GREECE	<ul style="list-style-type: none"><li>– N. 1 TELESCOPE “SKYWATCHER DOBSONIAN 8 PYREX”</li><li>– N. 1 TELESCOPE EYEPIECE PLOSSL 6mm, 31.8mm (for solar observation)</li><li>– N. 1 TELESCOPE EYEPIECE PLOSSL 32mm (for planets observation)</li><li>– N. 1 NIGHTWATCH PRATICAL GUIDE FOR TELESCOPE OBSERVATION (4<sup>th</sup> edition)</li><li>– N.1 FILTER FOR SOLAR OBSERVATION (diameter 200mm)</li><li>– N. 1 CLEANER LEVENHUK “LENS PEN”</li><li>– N. 1 “ASTROSOLAR SILVER/GOLD” ECLIPSE VIEWERS</li><li>– N. 1 CELESTIAL ATLAS (dimensions 70x100cm)</li><li>– N. 1 MOON MAP (dimensions 70x100cm)</li><li>– N.1 CASE FOR COUNTERWEIGHT 150mm</li><li>– N.1 PLANISPHERE STAR TARGET</li></ul>
UK	<ul style="list-style-type: none"><li>– N.1 CELESTRON 22087 NEXSTAR 90 SLT MAK COMPUTERISED TELESCOPE</li><li>– SKY MAPS</li></ul>
ITALY	<ul style="list-style-type: none"><li>– N.1 TECNOSKY TELESCOPIO SOLARE DIDATTICO SCOLARSCOPE</li><li>– N.1 CELESTRON TELESCOPIO NEWTON ASTROMASTER 130 EQ CON OCULARI E ACCESSORI</li><li>– N.2 LEVENHUK BINOCOLO KARMA PRO 8x42</li><li>– N.1 LEVENHUK TELLURIO LabZZ</li></ul>

# MANAGEMENT MEETINGS WITH SCHOOL PARENTS

Starting from December 2019, information meetings were organized to prepare the various mobilities.

Immediately after the selections and identification of the students, each school arranged one or more meetings with the parents to prepare all the necessary actions for departure. In particular, parents were informed about:

- the planned program,
- details related to travel and accommodation,
- insurance procedures, especially for mobility that took place after March 2020,
- documents and procedures related to the custody of minors by accompanying teachers,
- the safety procedures with all useful information allowing to bring immediate help in case of any critical situation, not only in a sanitary domain.

ITALY		
TARGET GROUP	TEACHERS FAMILIES	
DATE	DESCRIPTION	MATERIALS
06.12.2019	Meeting with parents of children on Ivalo mobility. We collect documents and general travel information is provided to parents.	
14.01.2020	Second meeting with the parents of children on Ivalo mobility, to share the program and communications relating to departure.	NEWSLETTER <a href="https://drive.google.com/file/d/1ItSzRLue_aiyPhYTHwV-pG7Af9dYlRG1/view">https://drive.google.com/file/d/1ItSzRLue_aiyPhYTHwV-pG7Af9dYlRG1/view</a> INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1544YO6_xUS4TBm0qGuq8wILToBIfZjk9/view">https://drive.google.com/file/d/1544YO6_xUS4TBm0qGuq8wILToBIfZjk9/view</a>
21.02.2020	Meeting with parents of children on London mobility (first call). We collect documents and general travel information is provided to parents.	NEWSLETTER <a href="https://drive.google.com/file/d/1biyWpXLoNQSkiTNPYjkZe29vFzJm97dE/view">https://drive.google.com/file/d/1biyWpXLoNQSkiTNPYjkZe29vFzJm97dE/view</a>
22.10.2021	Meeting with parents of children on Valencia mobility. We collect documents and general travel information is provided to parents.	NEWSLETTER <a href="https://drive.google.com/file/d/1aPEgm8D2y23mJUsLTpcTopAvBH6TTNKj/view">https://drive.google.com/file/d/1aPEgm8D2y23mJUsLTpcTopAvBH6TTNKj/view</a> w INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1VW5EfuhuOVO_xs25n-EdD8P2rJzDuj53/view">https://drive.google.com/file/d/1VW5EfuhuOVO_xs25n-EdD8P2rJzDuj53/view</a>
15.11.2021	Second meeting with the parents of children on Valencia mobility, to share the program and communications relating to departure.	NEWSLETTER <a href="https://drive.google.com/file/d/1ZbOt2L2FB1tXji0_wLGEzhxLfJa_nQc/view">https://drive.google.com/file/d/1ZbOt2L2FB1tXji0_wLGEzhxLfJa_nQc/view</a> INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1R3--_Qj6rdTzBEPtgChXmCthFLyxm_W/view">https://drive.google.com/file/d/1R3--_Qj6rdTzBEPtgChXmCthFLyxm_W/view</a>
17.12.2021	Meeting with parents of children on London mobility (second call). We collect documents and general travel information is provided to parents.	NEWSLETTER <a href="https://drive.google.com/file/d/1aa-jNapz6PRKuMqKwYF1CuK7uluH4Hej/view">https://drive.google.com/file/d/1aa-jNapz6PRKuMqKwYF1CuK7uluH4Hej/view</a> INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1XKEmIOG-dk2w3giRs2QeugpwVCPc410v/view">https://drive.google.com/file/d/1XKEmIOG-dk2w3giRs2QeugpwVCPc410v/view</a>

DATE	DESCRIPTION	MATERIALS
28.02.2022	Meeting with parents of children on Crete mobility. We collect documents and general travel information is provided to parents.	NEWSLETTER <a href="https://drive.google.com/file/d/10Secdc_gsaHJSagHF5MohQGJwwQjCYhC/view">https://drive.google.com/file/d/10Secdc_gsaHJSagHF5MohQGJwwQjCYhC/view</a> INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1T99wzRGh6HUDZ_JKVZmLMiaHx6udANaL/view">https://drive.google.com/file/d/1T99wzRGh6HUDZ_JKVZmLMiaHx6udANaL/view</a>
10.03.2022	Meeting with parents of children on London mobility (third call). We collect documents and general travel information is provided to parents.	NEWSLETTER <a href="https://drive.google.com/file/d/1NztbGbqSxCYlcoW39b0ozOp2zRhKi2Dn/view">https://drive.google.com/file/d/1NztbGbqSxCYlcoW39b0ozOp2zRhKi2Dn/view</a>
22.03.2022	Second meeting with the parents of children on Crete mobility, to share the program and communications relating to departure.	NEWSLETTER <a href="https://drive.google.com/file/d/1_tqrGYBXJ9kDGUjgFVbk-PZc5b9wltzk/view">https://drive.google.com/file/d/1_tqrGYBXJ9kDGUjgFVbk-PZc5b9wltzk/view</a> INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1D0yDqiTD-En7xw5mQdHyUIXRoaSP-nlk/view">https://drive.google.com/file/d/1D0yDqiTD-En7xw5mQdHyUIXRoaSP-nlk/view</a>
28.04.2022	Second meeting with parents of children on London mobility General travel information is provided to parents.	NEWSLETTER <a href="https://drive.google.com/file/d/1ogiiUG_Llk8LsffjRdZ_NwQ9F5zp_zrU/view">https://drive.google.com/file/d/1ogiiUG_Llk8LsffjRdZ_NwQ9F5zp_zrU/view</a> INFO FOR FAMILIES <a href="https://drive.google.com/file/d/1QRNREWqhQXVDhiE7WefxjXUhsD1-ZCxy/view">https://drive.google.com/file/d/1QRNREWqhQXVDhiE7WefxjXUhsD1-ZCxy/view</a>

SPAIN	
TARGET GROUP	TEACHERS FAMILIES
DATE	DESCRIPTION
24.10.2019	The project is presented to the families of 4th grade, which is the group that will participate in the project.
04.11.2019	Families choose the country they want their children to visit
25.11.2019	Meeting with the families of the student who is going to participate in the mobility of Finland. The required documents for it are specified
09.01.2020	Meeting with the families of the mobility of Finland, to deliver documentation, finalize the last details of the mobility (accommodation, flights, hours...)
03.02.2020	Meeting with the families of 4th and 5th grade of Primary Education, to explain that after the mobility of Finland it has been decided to establish some selection criteria for the students and for this reason the project will be opened to the 5th grade of Primary Education. The criteria that we will take into account are: <ul style="list-style-type: none"> <li>▪ level of English and their interest in that subject;</li> <li>▪ results in the rest of the subjects;</li> <li>▪ behavior in class.</li> </ul>
10.02.2020	Meeting with the families whose students are going to participate in the London mobility
27.02.2020	Meeting with the families of the students participating in the London mobility to explain that the mobility is cancelled due to the COVID situation
14.10.2021	Meeting with families. The state of the project is explained. During this school year it will be impossible to travel, but all the countries ask the national agencies to extend the project for one more year due to the COVID issue. That is why the mobilities will be carried out throughout this last year, hoping that the situation will improve in all the countries.
21.07.2021	Since the families of the 6th grade are finishing school this year, the project is brought to the attention of the families who are attending the 5th grade, to communicate the possibility of participating in the mobility according to the established criteria. New mobility dates announced. The next mobility will be in Valencia and the collaboration of families is required in all the activities that are proposed.
26.10.2021	Meeting with the families. The activities to be carried out in Valencia are discussed. The families are divided by activities to collaborate in the preparation and participation of the activities.
15.02.2022	Meeting with the families participating in the mobility of Greece. Schedules, flights, necessary documentation are discussed.
15.03.2022	Meeting with the families participating in the mobility of Greece. The planning of activities is given to them and all the necessary documentation for that mobility is collected and all the details of it are finalized.
21.03.2022	Meeting with families of students participating in the mobility program in London. Necessary documentation, mobility dates.
27.04.2022	Meeting with the families that are going to participate in the London mobility. They are given the planning of the activities to be carried out during the mobility and the flight schedules are already specified and all the necessary documentation is collected.
04.05.2022	Meeting of families whose students are going to participate in the mobility of Italy. Dates, activities to be carried out, places that they are going to visit are discussed. The necessary documentation is reviewed for it.
17.05.2022	Meeting with the families whose students are going to participate in the mobility of Italy. The last luggage details are finalized, the documentation is collected and the departure and arrival times and meeting points are discussed.



FINLAND		
TARGET GROUP	TEACHERS FAMILIES	
DATE	DESCRIPTION	MATERIALS
10.10.2019	Project presentation to families of 5th grade students	
16.11.2021	Information and planning of the Valencia mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> --> Notes of mobility meeting
21.03.2022	Information and planning of the Crete mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> --> Notes of mobility meeting
25.04.2022	Information and planning of the London mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> --> Notes of mobility meeting
18.05.2022	Information and planning of the Italy mobility	<a href="https://twinspace.etwinning.net/95921/materials/files">https://twinspace.etwinning.net/95921/materials/files</a> --> Notes of mobility meeting

GREECE		
TARGET GROUP	TEACHERS FAMILIES	
DATE	DESCRIPTION	MATERIALS
17.10.2019	Parents meeting – Mobility in Ivalo	<a href="https://photos.app.goo.gl/nHgG98oorJB8Rme26">https://photos.app.goo.gl/nHgG98oorJB8Rme26</a>
12.11.2021	Parents meeting-Mobility in Valencia	<a href="https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-">https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-</a>
20.03.2022	Parents meeting-Mobility in Heraklion	<a href="https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-">https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-</a>
12.04.2022	Parents meeting-Mobility in London	<a href="https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-">https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-</a>
12.05.2022	Parents meeting-Mobility in Italy	<a href="https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-">https://drive.google.com/drive/u/1/folders/1DcEJYqxoZ1A7TAIwVjgSwyeB9RaaLYy-</a>

UK		
TARGET GROUP	TEACHERS FAMILIES	
DATE	DESCRIPTION	MATERIALS
13.11.2019	Parent Meeting to introduce project to Year 5 parents.	
14.09.2021	Parent Meeting to introduce project to Year 5 parents.	

## OTHER ACTIVITIES/EVENTS CONNECTED/RELATED TO THE PROJECT

During the three years of activity, many initiatives have been implemented as subsidiary lines of the project:

- realization of theatrical performances;
- participation in national and European competitions related to the topic of the project (Contest "Let's draw the universe", "Our Space our Future" project, "Space Dream" project ...);
- training events on topics related to the topic of the project;
- participation in local events.

TARGET GROUP	TEACHERS FAMILIES		
DATE	COUNTRY	DESCRIPTION	MATERIALS
06.11.2019	SPAIN	Mobile planetarium at school. It was visited by all the students of the school, both in Early Childhood Education and Primary Education	Primary school students built the Celestial Planetarium
18/19.11.2020	FINLAND	Space musical, was shown to whole community	VIDEO <a href="https://www.youtube.com/watch?v=c9xmnZG5g0o&amp;t=21s">https://www.youtube.com/watch?v=c9xmnZG5g0o&amp;t=21s</a>
13.12.2019	SPAIN	Drawing and painting in the playground the Rose of the Winds, so that all the students know how to orientate themselves and know how to locate North, South, East and West on the same drawing.	PHOTO <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/images/c276b1b66.jpg">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/images/c276b1b66.jpg</a>  <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/images/c49aef1e6.jpg">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/images/c49aef1e6.jpg</a>
November/ December 2020	ITALY	CONTEST DISEGNIAMO L'UNIVERSO Competition for primary school students organized by the Department of Physics and Geology of the University of Perugia with the patronage of the Italian Space Agency (ASI).	PROJECT WEB PAGE LINK <a href="https://crisp.unipg.it/du2020/">https://crisp.unipg.it/du2020/</a> <a href="https://crisp.unipg.it/universo/">https://crisp.unipg.it/universo/</a>
15.01.2021	ITALY	Online January Sky Observation Event	POSTER <a href="https://drive.google.com/file/d/1Xk0KDwl-ir437tk8N_y9IkBIGkJDFSCw/view">https://drive.google.com/file/d/1Xk0KDwl-ir437tk8N_y9IkBIGkJDFSCw/view</a> <a href="https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bcaa89467.pdf">https://twinspace.etwinning.net/files/collabspac/1/21/921/95921/files/bcaa89467.pdf</a>  VIDEO <a href="https://www.youtube.com/watch?v=Rbb__dr4LN8">https://www.youtube.com/watch?v=Rbb__dr4LN8</a>

DATE	COUNTRY	DESCRIPTION	MATERIALS
February - June 2021	ITALY	PROJECT OURSPACE OUR FUTURE A European Project that brings space science to the classroom, boosting the interest of students in space-related careers.	PROJECT WEB PAGE LINK <a href="https://ourspaceourfuture.eu/team/">https://ourspaceourfuture.eu/team/</a>
16.03.2021	ITALY	Online March Sky Observation Event	POSTER <a href="https://drive.google.com/file/d/1MhpNHmnOilo6ZfD9w2Ua-14is6RKaPkz/view">https://drive.google.com/file/d/1MhpNHmnOilo6ZfD9w2Ua-14is6RKaPkz/view</a> <a href="https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b6827b6e7.pdf">https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b6827b6e7.pdf</a>  VIDEO <a href="https://www.youtube.com/watch?v=QtmmHTLiCPQ">https://www.youtube.com/watch?v=QtmmHTLiCPQ</a>
30.03.2021	ITALY	Online training event on meteoroids and digital programs dedicated to sky observation	POSTER <a href="https://drive.google.com/file/d/15SAeylr9GsSUbluGO6GM6TUT8Ejvq1IT/view">https://drive.google.com/file/d/15SAeylr9GsSUbluGO6GM6TUT8Ejvq1IT/view</a> <a href="https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b5841a607.pdf">https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b5841a607.pdf</a>  VIDEO <a href="https://www.youtube.com/watch?v=d6bHtf_VPLE">https://www.youtube.com/watch?v=d6bHtf_VPLE</a>
April-May 2021	ITALY	SPACE DREAM is an initiative promoted by CTNA, the National Aerospace Technology Cluster, to share aerospace culture with teachers of primary and secondary schools.	PROJECT WEB PAGE LINK <a href="https://www.educazionedigitale.it/spacedream/concorso/">https://www.educazionedigitale.it/spacedream/concorso/</a>
March 2022	UK	All the children in year 5 participated in our "Space Explorers project," which involved making rockets, researching, comparing data, writing stories, recording and assessing learning	SPACE EXPLORERS PROJECT MATERIALS <a href="https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b39c98e27.pdf">https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b39c98e27.pdf</a> <a href="https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b4a6227a7.pdf">https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b4a6227a7.pdf</a> <a href="https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/af7673427.pdf">https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/af7673427.pdf</a> <a href="https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b07ffcda7.pdf">https://twinspace.etwinning.net/files/collabspacel/1/21/921/95921/files/b07ffcda7.pdf</a>
18.06.2022	ITALY	Piccolo Festival Delle Arti Migranti. Observation of the sky led by the students of the IC Torgiano-Bettona coordinated by the Headmaster	POSTER <a href="https://drive.google.com/file/d/1CmfJzt6qz38p9PWwE8B8HCql-AqhglNj/view">https://drive.google.com/file/d/1CmfJzt6qz38p9PWwE8B8HCql-AqhglNj/view</a>

# PRESS CONFERENCES – ADVERTISING - PRESS REVIEW

## CREATION AND DISSEMINATION OF PROMOTIONAL MATERIAL

(posters, flyers, leaflets ...)

From the beginning of the Project, promotional and dissemination materials were created to ensure full visibility of the project itself. These materials, prepared by the working group and / or by the students involved in the project, were used during the activities and especially during the most important actions:

- mobility events,
- internal dissemination,
- contacts with local authorities and stakeholders,
- local events,
- online events.

Constant contact with the local press and social media made the project visible both locally and nationally. The presence on the institutional sites of each school as well as on social networks guarantees the future permanence of the actions and of all the materials of the project.

TARGET GROUP	TEACHERS AND STUDENTS OF PARTNER SCHOOLS FAMILIES AND TERRITORIAL COMMUNITIES LOCAL AND EUROPEAN TEACHERS AND SCHOOLS (EXTRA-PROJECT)	
DATE	PARTNER COUNTRY	MATERIALS
03.10.2019	ITALY	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b073c113e.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b073c113e.pdf</a> <a href="https://drive.google.com/file/d/1H7lxsk4QFhRNYrLX_f1o4JwQMRBwSYen/view">https://drive.google.com/file/d/1H7lxsk4QFhRNYrLX_f1o4JwQMRBwSYen/view</a>
04.10.2019	ITALY	PRESS CONFERENCES <a href="https://www.youtube.com/watch?v=Tid0zkRHktE">https://www.youtube.com/watch?v=Tid0zkRHktE</a>
06.10.2019	ITALY	PRESS REVIEW <a href="https://drive.google.com/file/d/1aZUy7VLIHdXOAwoCfQl2uf9Qr-iA0yGW/view">https://drive.google.com/file/d/1aZUy7VLIHdXOAwoCfQl2uf9Qr-iA0yGW/view</a>
25.11.2019	SPAIN	PRESS REVIEW <a href="https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/">https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/</a> <a href="https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/">https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/</a>
DEC. 2019	ITALY	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c1ab986db.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c1ab986db.pdf</a> <a href="https://drive.google.com/file/d/1MruU4Ilg6rejINX5p24lYuWdLn5cuOkfH/view">https://drive.google.com/file/d/1MruU4Ilg6rejINX5p24lYuWdLn5cuOkfH/view</a>
23.01.2020	ITALY	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/af6a37bbe.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/af6a37bbe.pdf</a> <a href="https://drive.google.com/file/d/1lnQOO6nHpzQDIc8q0cJymclUdRaFXFuO/view">https://drive.google.com/file/d/1lnQOO6nHpzQDIc8q0cJymclUdRaFXFuO/view</a>

DATE	PARTNER COUNTRY	MATERIALS
29.01.2020	FINLAND	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b499e6b3e.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b499e6b3e.pdf</a>
19.02.2020	SPAIN	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ac6dc9847.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/ac6dc9847.pdf</a>
19.02.2020	GREECE	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b6a4d204e.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/b6a4d204e.pdf</a>
NOV. 2021	SPAIN	PRESS REVIEW <a href="https://drive.google.com/file/d/1ZDdMFwI0GupOhNLxRjpKEDV5A4nXLn3C/view?usp=sharing">https://drive.google.com/file/d/1ZDdMFwI0GupOhNLxRjpKEDV5A4nXLn3C/view?usp=sharing</a> <a href="https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/">https://www.xirivella.es/es/noticies-xirivella/ceip-antonio-machado-xirivella-participa-proyecto-erasmus-ka229/</a>
20.01.2022	FINLAND	PRESS REVIEW <a href="https://drive.google.com/file/d/1w949GlgXLJdaWAHInRPXQdQHKVdK4RBf/view?usp=sharing">https://drive.google.com/file/d/1w949GlgXLJdaWAHInRPXQdQHKVdK4RBf/view?usp=sharing</a>
13.04.2022	GREECE	ONLINE PRESS REVIEW <a href="https://www.athleticradio.gr/deltia-tipou/761150-to-scholeio-europaikis-paideias-hrakleiou-upodechthike-to-europaikou-programmatos-erasmus/">https://www.athleticradio.gr/deltia-tipou/761150-to-scholeio-europaikis-paideias-hrakleiou-upodechthike-to-europaikou-programmatos-erasmus/</a> <a href="https://www.politica.gr/kriti/europaiko-scholeio-hrakleiou-ypodechthike-egkardia-tous-etairous-tou-europaikou-programmatos-erasmus/?fbclid=IwAR2Ay3_GrpiQ2A0XuI199bQB9orTB0ZIH55LobKWYQJoJNYqQBriSjA">https://www.politica.gr/kriti/europaiko-scholeio-hrakleiou-ypodechthike-egkardia-tous-etairous-tou-europaikou-programmatos-erasmus/?fbclid=IwAR2Ay3_GrpiQ2A0XuI199bQB9orTB0ZIH55LobKWYQJoJNYqQBriSjA</a>
15.04.2022	GREECE	ONLINE PRESS REVIEW <a href="https://www.politica.gr/kriti/689735/">https://www.politica.gr/kriti/689735/</a>
24.04.2022	ITALY	ONLINE PRESS REVIEW <a href="https://www.lavocedelterritorio.it/index.php/listituto-comprensivo-torgiano-bettona-protagonista-in-grecia/">https://www.lavocedelterritorio.it/index.php/listituto-comprensivo-torgiano-bettona-protagonista-in-grecia/</a>
27.05.2022	ITALY	TV INTERVIEWS <a href="https://www.youtube.com/watch?v=1j5vtAad5wY">https://www.youtube.com/watch?v=1j5vtAad5wY</a> <a href="https://www.youtube.com/watch?v=o5e6k3VPiHo">https://www.youtube.com/watch?v=o5e6k3VPiHo</a> (from minute 11:50)
01.06.2022	FINLAND	PRESS REVIEW <a href="https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c081931cb.pdf">https://twinspace.etwinning.net/files/collabspace/1/21/921/95921/files/c081931cb.pdf</a> <a href="https://drive.google.com/file/d/1vZGKDV2fbK1ZaINaYSuyQiiZ7Tr0W8TX/view">https://drive.google.com/file/d/1vZGKDV2fbK1ZaINaYSuyQiiZ7Tr0W8TX/view</a>



## PRESENCE OF THE PROJECT ON LINE/SOCIAL MEDIA

<b>TARGET GROUP</b>	TEACHERS AND STUDENTS OF PARTNER SCHOOLS LOCAL AND EUROPEAN TEACHERS AND SCHOOLS (EXTRA-PROJECT) FAMILIES AND TERRITORIAL COMMUNITIES		
<b>PARTNER</b>	<b>WEB SITE LINK</b>	<b>OTHER SOCIAL MEDIA LINK</b>	<b>ETWINNING PAGE</b>
ITALY	<a href="https://www.ictorgianobettona.edu.it/erasmus/erasmus-ka229/">https://www.ictorgianobettona.edu.it/erasmus/erasmus-ka229/</a>	Private Facebook and Instagram pages of the teachers	<a href="https://twinspace.etwinning.net/95921/">https://twinspace.etwinning.net/95921/</a>
GREECE	<a href="https://seeh.eu/index.php/en/the-school/activities/ka2">https://seeh.eu/index.php/en/the-school/activities/ka2</a>		
FINLAND	<a href="https://peda.net/inari/inarin-kunna-koulut/ivalonala-aste/erasmus-ka2/quarls">https://peda.net/inari/inarin-kunna-koulut/ivalonala-aste/erasmus-ka2/quarls</a>		
SPAIN	<a href="https://mestreacasa.gva.es/web/ceipantoniomachadoxirivella/34">https://mestreacasa.gva.es/web/ceipantoniomachadoxirivella/34</a>	Twitter @ceip_machado <a href="https://mobile.twitter.com/ceip_machado/with_replies">https://mobile.twitter.com/ceip_machado/with_replies</a>  Instagram@ceipantoniomachadoxirivella <a href="https://www.instagram.com/ceipantoniomachadoxirivella/?igshid=YmMyMTA2M2Y%3D">https://www.instagram.com/ceipantoniomachadoxirivella/?igshid=YmMyMTA2M2Y%3D</a>  Facebook <a href="https://www.facebook.com/page/154265241312798/search/?q=ERASMUS">https://www.facebook.com/page/154265241312798/search/?q=ERASMUS</a>	
U.K.	<a href="https://www.st-leonards.lambeth.sch.uk/Erasmus/">https://www.st-leonards.lambeth.sch.uk/Erasmus/</a>	<a href="https://www.twitter.com/stleonardscep">https://www.twitter.com/stleonardscep</a>	

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