

# GBPE Nereto Meeting

26<sup>th</sup> – 29<sup>th</sup> April 2022

Report



INNOVATION HAS NO  
GENDER

Girls & Boys  
Programming in Europe Erasmus+



Co-funded by the  
Erasmus+ Programme  
of the European Union

# Welcome to Nereto

A very very warm welcome to you all.

It's a big honor for us that the last meeting take place in Nereto Italy (April 2022), at "G. Peano - C. Rosa" secondary school in Nereto. It will be a four-days activity for students and teachers from all partner schools.

Workshop themes for students will be the integration between new technologies and learning environments. All participants will be involved to experiment innovative teaching/learning environments. An integral part of the meeting will be common trip to the cultural monuments of the region (we would like to visit the historical cities of Ascoli Piceno and L'Aquila), and more.

The TEL teaching style during the project meetings will enable us to compare and learn about different methods of teaching in the EU and it will lead towards a selection of subjects that we all agree on, making up an European curriculum.

Making and selecting learning material in cooperation will also lead to a more economical use of time and resources as we will produce the material for each other. The same holds for the ICT empowerment courses. At the same time, we aspect that students improve theyr soft skills. They will have to be able to communicate with foreign students before the meetings, during activities at school (school tour, workshops and more), and the final activities after the meetings.

## **Thanks**

Authorities, City Mayor, School staff and colleagues, especially Monica, Renzo and "The Boss" Emanuela

The other local schools, Companies and Institutions

All partners from Nový Jičín, Malaga-Torremolinos, S. Joao da Madeira and Saudarkrokur

Students from 4BL and 4GL

## **Project Objectives**

The project plan and the main objectives are:

- a) Inspire and educate girls and boys to enhance diversity and competitiveness in engineering, IT and technology fields (especially programming and 3D modeling). We want to change and balance forces. We want more women in IT. We need that...
- b) Enrich our pupils with the knowledge and skills to improve their position in the labor market, thanks to the knowledge of ICT (mainly algorithms and logical thinking) and foreign language. Both are necessary for university studies, but also for their future career.
- c) Work together in peace and for the peace, to be a good sample, especially at this time, when a European people comes under aggression and is devastated by another nation.

As we are working in peace, we can ask for peace. We want peace.

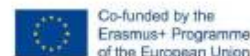
**Enjoy our meeting.**



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## Programme

Tuesday 26 <sup>th</sup>	Wednesday 27 <sup>th</sup>	Thursday 28 <sup>th</sup>	Friday 29 <sup>th</sup>
<p>09:00 Departure from Alba Adriatica</p> <p>09:30 <a href="#">IISS "G. Peano – C. Rosa"</a></p> <p>Welcome to Nereto</p> <p>Presentations</p> <ul style="list-style-type: none"> <li>- City Mayor</li> <li>- School Principal</li> <li>- IISS "Peano-Rosa"</li> <li>- Guest Schools</li> </ul> <p>Italia's got talent I</p> <p>11:30 WS #01 TEL - Gamification Icebreaking (All Students)</p>	<p>08:00 Departure from Alba Adriatica</p> <p>09:00 WS #03 Industry 4.0 Visiting and workshop at the Roland DG <a href="#">Roland DG: Plotter e Stampanti Professionali</a></p>	<p>07:45 Departure from Alba Adriatica</p> <p>09:00 WS #04 Scientific Research Visiting and workshop at the INFN Gran Sasso National Laboratory <a href="#">LNGS overview - LNGS (infn.it)</a></p>	<p>09:00 - <a href="#">IC Alba Adriatica</a></p> <p>WS #05 AI – Business Intelligence Microsoft Power BI Copal srl (<a href="#">see more...</a>)</p> <p>Italia's got talent II</p> <p>WS #06 TEL – New Learning Environments Sketchup &amp; more</p> <p>WS #07 GBPE &amp; Future Women in Science. Vision of advanced factories - Be part of a new era!</p>
<p>Welcome Lunch / Nereto</p>	<p>Free lunch in Ascoli Piceno</p>	<p>Free lunch in L'Aquila</p>	<p>Free lunch in Alba Adriatica</p>
<p>15:00 WS #02 GBPE &amp; Apps Flying and more</p>	<p>14:30 Guided tour of Ascoli Piceno <a href="#">Home Page   Visit Ascoli - Viaggio alla scoperta di Ascoli Piceno</a></p>	<p>14:30 Guided tour of L'Aquila Visiting at GSSI (<a href="#">see more...</a>)</p> <p>20:00 Alba Adriatica Farewell Pizza&amp;Fun</p>	<p>15:30 Evaluation and Final Report</p>



# Welcome to Nereto



# Welcome to Nereto

- ▶ **Presentations**
  - ▶ City Mayor, School Principal, IISS “Peano–Rosa”, Guest Schools
  - ▶
  - ▶ **Italia’s got talent**
- 



# Welcome to Nereto



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# WS#1 TEL–Gamification

## Spaghetti Tower Marshmallow Challenge

This is one of those legendary team–building challenges that I’ve been hearing about for ages and have never tried.

**It encourages the design mindset and supports basic engineering principles.**

**The basic idea** is that a team is given a handful of supplies to work with — **spaghetti, tape, and string** — and given 18 minutes to build the tallest possible tower that can **SUPPORT** a marshmallow.

And the point of it? The team will practice the design process that includes thinking, doing, prototyping, and iteration. This last point, iteration, may be the most important.

## Marshmallow Challenge Supplies

Each team gets the same set of supplies...

20 sticks of dry spaghetti, one yard of string, one yard of tape, one marshmallow, a time of 18 minutes!

## Instructions

*Challenge: To build the tallest tower possible in 18 minutes that will support the marshmallow.*

Set up the supplies for each team

Explain the challenge: *Build the tallest tower possible that will support a marshmallow, in 18 minutes.*

Set a timer for 18 minutes

Go!





# WS#1 TEL-Gamification



# WS#02 – GBPE & Apps

## Flying and more...

Students from Nereto present different activities using the App “Flightradar24”. Flightradar24 is a flight tracker that shows live air traffic from around the world. Flightradar24 combines data from several data sources including ADS-B, MLAT and radar data. The ADS-B, MLAT and radar data is aggregated together with schedule and flight status data from airlines and airports to create a unique flight tracking experience on [www.flightradar24.com](http://www.flightradar24.com) and in [Flightradar24 apps](#).

The primary technology that Flightradar24 use to receive flight information is called automatic dependent surveillance–broadcast ([ADS-B](#)).



# WS#02 – GBPE & Apps





# WS#03 – Industry 4.0

Visiting and workshop at the Roland DG.

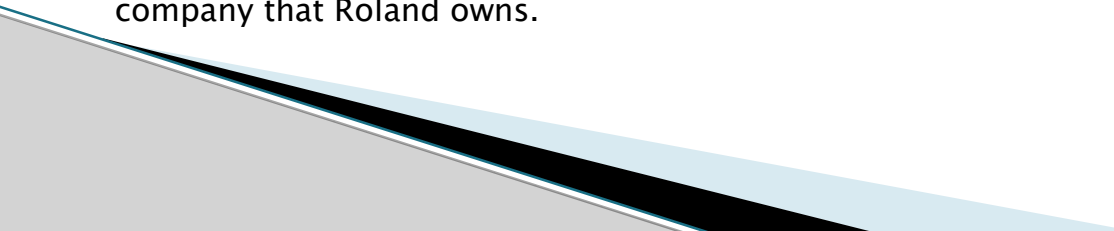
Since 1991, Roland DG has been present directly with its own company in Italy and since 1994 it has been in charge of distributing also in Turkey, the Middle East and in the Balkan countries the products of the Japanese parent company Roland DG Corporation, a leading company in the production of peripherals for printing, printing and cutting, engraving, modeling and 3D printing, founded in 1981.

The company celebrated the 30th anniversary of its foundation in 2011, distinguishing itself in the field for innovation and quality of services in different markets: visual communication, printing, packaging, labels, fabrics and personalized clothing, graphic arts, promotional objects, textiles, jewelry, engraving, 3D modeling, dental and medical. Each peripheral is made with the exclusive Digital Yatai island production system, to ensure the highest quality and production control.

Roland DG markets its solutions for visual communication, graphic arts, engraving and 3D modeling through a widespread network of retailers, a network of companies and people prepared, competent, able to listen, advise and guide operators towards the choice that best suits their production needs.

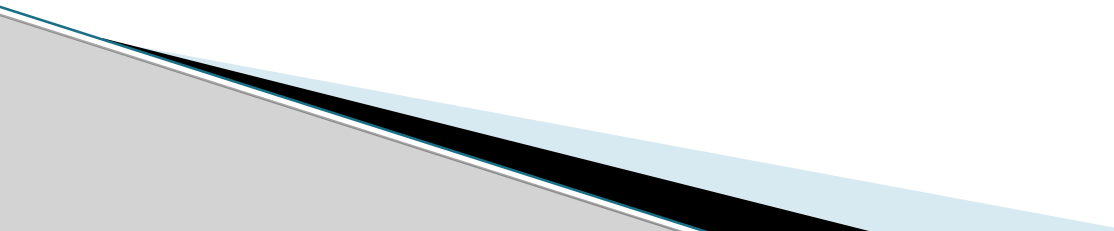
Attention and care of relationships are at the center of all customer satisfaction activities. We are committed to offering the best pre- and post-sales support in the industry, with training courses at the Roland DG Academy and Roland DG Care technical support. Our goal is to always be close to our customers, contributing to the growth and success of their business.

Recently, Roland DG announced the transfer of its 3D market business, related to the production of milling machines, 3D printers, engravers and photoengravers, to DGSHAPE Corporation, a newly established company that Roland owns.





# WS#03 – Industry 4.0

- ▶ The meeting was a great opportunity to meet the management of a big company involved in a very smart process of development and research.
  - ▶ Students have got an overview about the mission and the vision of the company and how they can approach the labour market in their own future.
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# WS#03 – Industry 4.0



# Ascoli Piceno

## **Surprising beauties and strong emotions**

Spending time in Ascoli Piceno was a unique experience. Visiting the city and its surroundings, discovering its history, feeling its vibes guided by italian students was really amazing.



# Ascoli Piceno





# WS#04 Scientific Research

The two visits to the Gran Sasso INAF Laboratory and to the Gran Sasso Science Institute characterized the fourth workshop.

- ▶ INFN Gran Sasso National Laboratory (LNGS) is the largest underground laboratory in the world devoted to neutrino and astroparticle physics, a worldwide research facility for scientists working in this field of research, where particle physics, cosmology and astrophysics meet. It is unequalled anywhere else, as it offers the most advanced underground infrastructures in terms of dimensions, complexity and completeness. The Gran Sasso Science Institute (GSSI) is an international PhD school and a center for research and higher education in the areas of Physics, Mathematics, Computer Science and Social Sciences.
- ▶ As a project supported by the Organization for Economic Cooperation and Development (OECD), the GSSI has been instituted as a new Italian graduate school of advanced studies in 2016, after a three-years successful experimental period. Located in central Italy, the school welcomes professors, researchers and students selected internationally following the best graduate schools standards worldwide. The PhD program is organized in the scientific areas of Astroparticle Physics, Mathematics, Computer science, Regional Sciences and Economic Geography. Every year offers Post doctoral grants and research opportunities thus facilitating the attraction of high-level resources in the fields of natural and social sciences.

# WS#04 LNGS



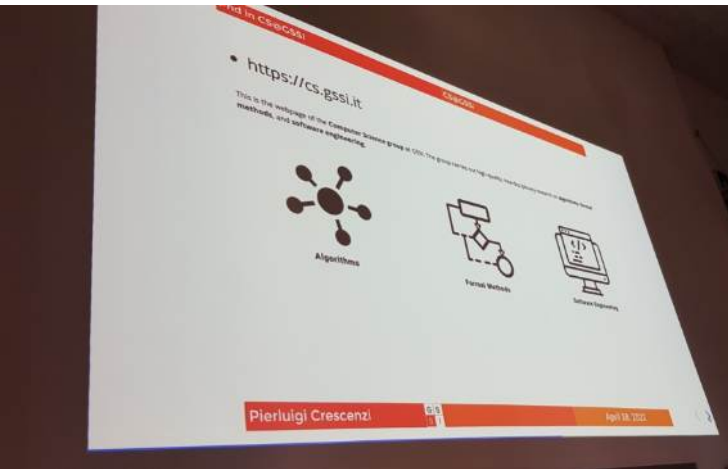


# WS#04 LNGS





# WS#04 GSSI



# L'Aquila





# Farewell Party





# WS #05–#06–#07

The last day we carried out our activities at Alba Adriatica Middle School, to share with them the project, disseminate and share our best practices and experiences

# WS #05-#06-#07





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