CONFERENCE EZA-UNAIE "GREEN DEAL. WILL IT BE A SUSTAINABLE TRANSITION?"

LEVICO TERME(TN) 4-6 NOVEMBER2022



Presentation by Lia Di Menco eTwinning European ambassador

Lia Di Menco ambasciatrice eTwinning Italia- Europa 2010-2022

An eTwinning PBL project a.s. 2021-22





Planning the project



- Planning a good project
 - Elements of good Project Design

Create a Project Design checklist starting from your students' needs

Consider Starting Points

Consider "Driving Questions" and NTK questions

Look at project ideas

Consider project walls

Create a digital project wall



The eTwinning platform

- Planning our eTwinning project
 - Partners from Italy: Lia Di Menco(English), Gianfranco Grossi(Graphic design), Lucia Mazzella (Maths), Elisa Miatello (Italian),
 - From Spain: Jose Alberto Villaescusa Garcia (Architecture)
 - From Turkey: Busra Caliskan (ICT)
- Pupils' ages students aged 16-17
- Classes involved Class 4AG of the IIS "T.CATULLO" in Belluno; Class 4AM of the IT IS "Brustolon-Segato" in Belluno (Italy); Class3 ESO, 4ESO of the IES "MARE NOSTRUM" in Alicante (Spain); 10th graders involved 15-16-year-old students of the Cay Nene Hatun Vocational and Technical Anatolian High School in Afyonkaraisar (Turkey)
- Languages used: English for communication between partners and during group works or for individual works; Italian, Spanish and Turkish for internal communication
- Project timeframe The project will take about 7 months, from November to May (Including time per week)

The Teaching Unit of our project



★ AIMS OF THE PROJECT WITH TOPIC AREAS REQUIRED RESOURCES AND MATERIALS

FOR THE INTERNATIONALIZATION OF THE SCHOOL

- Title of the project: Designing eco-houses
- Topic areas: Graphic design; English; ICT; Citizenship; Art
 - Materials: Graphic laboratory, ITC LAB
 - paper, camera, digital tools; Computers; Zoom for online meetings
 - Apps used throughout the project:
 - Voki, Flipgrid (students' presentation), Padlet;
 - Word, PPT, Pdfs (documents) Canva for Infographics;
 Sketchup, Roomle (for 3D houses), Illustrator (for posters),
 Madmagz, Emaze (to spread our project)

Ambassadors'roles

showing the way

CREATING A PROJECT WALL TO LEAD OUR STUDENTS PROJECT

s://docs.google.com/presentation/d/1Ji00kol65DDuSxjqAfvg6jS5EKBJRRJ5aDB2891ijel/edit# 2fd7751 0 0



KEY COMPETENCES TO BE REINFORCED THROUGHOUT THE PROJECT



THE 4 c's 21° century competences:

- ★ COLLABORATION/SELF-MANAGEMENT
- ★ CREATIVITY/AUTHENTICITY OF THE PROJECT/THE FINAL PRODUCT MUST BE PUBLIC
- ★ CRITICAL THINKING/PROBLEM SOLVING
- ★ COMMUNICATION/ORGANIZING TEAM WORKS AND ONLINE MEETINGS AND FORUMS WITH PROJECT PARTNERS

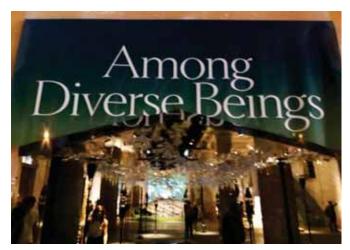
CITIZENSHIP

Priority given to sustainability and environment

- Pre-Planning Eco-Houses with maintenance systems
 - Working on recycling in our own country
 - BRIEF OF THE PROJECT
 - PART 1: INTRODUCTIONS and LOGO OF THE PROJECT (15th OCTOBER-10th NOVEMBER)
 - LOGO for the project (the logo HAS TO BE DIGITAL)
 - REVISION of the HEALTH AND SAFETY and the rights for THE IMAGES OF THE STUDENTS (parents sign a document)
 - ONLINE MEETINGS (FROM 10-14th NOVEMBER)
 - PART 2: DESIGNING THE HOUSES
 - A) DESIGNING THE HOUSES IN A SKETCH (10th NOVEMBER- 10th DECEMBER)
 - B) DESIGNING THE HOUSES IN ROOMLE/SKETCHUP

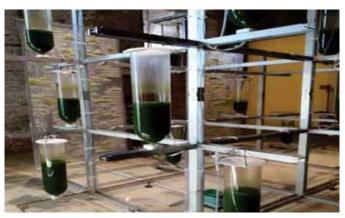


- WHERE DID WE DRAW INSPIRATION FROM?
- THE "BIENNALE" OF ARCHITECTURE HELD IN VENICE in September 2021 with its innovative materials and new ways of considering the social aspect of dwellings: dwellings for tribes in remote places or dwellings for mass population inside huge skyscrapers with green windows on all sides. Great attention was given to the different needs of diverse beings





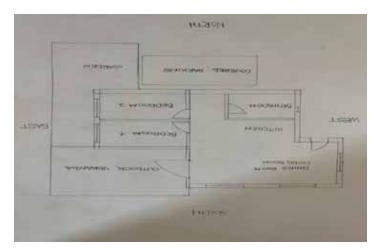




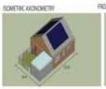
1st step SKETCHES OF HOUSES: Students at work on 3D houses

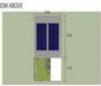






PROJECT ECO HOUSE: AURORA DAL MASO AND DAVIDE TERRIBILE FINAL HOUSE STATEMENTS









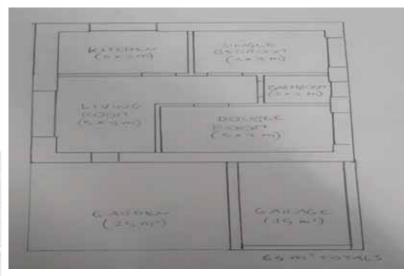




















THE BEST HOUSE CONTEST AND THE MAINTENANCE SYSTEM

1st MARCH-5th MARCH

Students and teachers vote for the best houses on which the maintenance systems will be installed

An Italian house



An Spanish house



An Turkish house









OUR DOCUMENTATION TO EXPLORE THE LEGAL ASPECTS OF SUSTAINABILITY IN EUROPE



Charter of fundamental rights of the European Union:

- Article 37 Environmental protection. A high level of environmental protection and the improvement of the quality of the environment must be integrated into the policies of the Union and ensured in accordance with the principle of sustainable development
- Article n. 9 of the Italian Constitution

FINAL PRODUCT:

DIVIDING STUDENTS INTO 5 INTERNATIONAL TEAMS



5 POSTERS WITH THE IDEAS OF EACH COUNTRY ON RECYCLING



POSTER 2: MATERIALS FOR ECO-HOUSES AND TO IMPROVE OUR ENVIRONMENT









AIR POLLUTION TOXIC FUMES FROM CARS AND FACTORIES

CITIES AFTER THE INDUSTRIAL REVOLUTION

HOZONE LAYER POLLUTION DUE TO EMISSIONS OF CARBON DIOXIDE ATMOSPHERE FROM MID 50's TO OUR TIME THERE IS NO FILTRATION OF SUN RAYS, WHICH CAUSES CANCER OF THE SKIN, BREATHING

PROBLEMS;ATSMA;LUNG CANCER

GLOBAL WARMING

GREENHOUSE EFFECT

INCREASING TEMPERATURES EVERYWHERE

IN RECENT TIME INCREASING LEVEL OF WATERS:HIGH SEA LEVEL, MORE STORMS AND MORE FREQUENT

SNOWFALL AND DRAUGHT; MELTING OF GLACIERS; SHORTAGE OF WATER SUPPLIES

PREVENTION AND RESOLUTIONS : PROPOSALS ARE ACCEPTED

FOLLOW UP: DISCUSSION

TASKS:

GO TO YOUR OWN REALITY

DO EXAMPLES OF SIMILAR EVENTS

FIND OUT MATERIALS THAT CONVEY THE MEANING AND GIVE INFORMATION ON THE EXAMPLES YOU HAVE CHOSEN

EXCHANGING OPINIONS AND CARRYING OUT USEFUL EMPLOYMENT OF THEM,
THROUGH INTERVIEWS AND FINAL PRESENTATION(USING A TOOL, like PREZI, PADLET, SLIDESHARE, etc.)

GAMIFICATION: CREATE A CROSSWORD PUZZLE WITH THE MOST IMPORTANT WORDS OF YOUR ACTIVITY



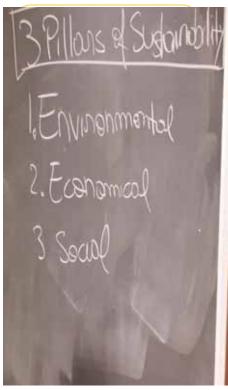


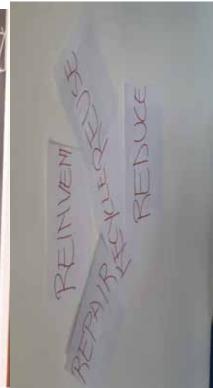
WORKING ON SUSTAINABILITY IN OUR CLASSES: THE GOALS OF THE AGENDA 20-30











DAILY ACTIONS TO FOSTER AWARENESS

CIRCULAR ECONOMY AGAINST THE TAKE-MAKE-DISPOSE(LINEAR ECONOMY)

1 2

4











GROUP WORKS ABOUT RECYCLING IN OTHER COUNTRIES





RECYCLING IN BRAZIL



RECYCLING IN MOROCCO





TEST ON SUSTAINABILITY



- What is a simple definition of sustainability? (1 point)
- Sustainability means meeting our own needs without compromising the ability of future generations to meet their own needs.

•

- 4. How many Sustainable Development Goals are there? (1 point)
- A. 12
- B. 17
- C. 20

•

- 3. Give at least 2 advice items how to make your living place more sustainable. (2 points)
- Example: Riding bicycles
- Increasing the quality of public transport
- Buying food from local farmers and businesses

•

- 4. Which are the three main pillars of Sustainability? (3 points)
- A. _____ (energy, climate change, water, availability of resources) Environment
- B. (resource efficiency, price volatility, consumption, waste management) Economic
- C. _____(health, equality) Social

•

- 5. What is Linear Economy? (1 point)
- A linear economy traditionally follows the "take-make-dispose" step-by-step plan. This means that raw materials are collected, then transformed into products that are used until they are finally discarded as waste
- 6. Mention the five "Rs" of Circular Economy. (2 points)
- Reduce, Repair, Reuse, Recycle and Reinvent

RECYCLING IN YOUR COUNTRY (ITALY)



FROM PRODUCING TO REUSING: COTTON AND PAPER





THE LIFE OF A HIGHLIGHTER THE LIFE OF A PENCIL







HOW ARE THE RECYCLED MATERIALS REUSED?

These materials, if cleaned, can return to the production cycle as a raw material or to produce energy. When it is dirty, it can undergo a selective treatment before being sent to the final plants.



THE LIFE OF A COMPUTER



HOW TO ECO-DISPOSE THE COMPUTERS?

2

THEY ARE WASTE THAT MUST BE DISPOSED OF IN THE ECOLOGICAL ISLANDS AND IN THE APPROPRIATE CENTERS RASE. 1.

COMPUTERS ARE SPECIAL WASTE BECAUSE THEY CONTAIN POLLUTING AND TOXIC SUBSTANCES, WHICH CANNOT BE DISPERSED INTO THE ENVIRONMENT...



3

TOXIC MATERIALS:

-MOTHERBOARD, BATTERY, CONTAIN BERYLLIUM
-CABLES, WIRES AND CHIPS CONTAIN GADMIUM
-ELECTRONIC BOARDS, SWITCHES CONTAIN
MERCURY AND CHROMIUM







RECYCLING OPTIONS:

-USE YOUR OLD PHONES OR

COMPUTERS AS A SPARE

- GIFTS AND THEN REUSE THEM

- DONATE THEM TO CHARITIES

FOR THE COLLECTION OF

SMARTPHONES AND COMPUTERS





TEAM 5

RECYCLING IN YOUR COUNTRY (SPAIN) IMPROVING THE ECO-SYSTEM



How do we recycle in Spain?

In Spain, collection is carried out in three different containers:



The green container: used to dispose glass, such as bottles of wine, water, juice, beer, spirits...

The brown container: used to dispose, food and do compost, such as food scraps such as fruit skins, fish bones, plants...

The yellow container: used to dispose of plastic, such as bottles, plastic cups, plates and disposable cups...

The blue container: used to dispose of paper, such as sheets, notebooks, newspapers, magazines, wrapping paper...

The grey container: used to dispose, all the things that you can't throw in the other containers. For example, used tissues, toys, bottles, pacifiers, kitchen utensils...



The clothes container: used to dispose clothes like: shoes, t-shirts, jaquets,coat... Which is it is intended for reuse, after its selection and sanitization.

The oil container: used to dispose the rests of oil. Every time we spend a bottle of oil we must deposit it in the yellow container. This container is suitable for plastic containers, such as detergent bottles or yogurt containers, cans and briks.

How to improve the eco-system in Spain?

Pay container system

 A good idea to improve the eco-system in spain, its introduce some especial containers. These encourage recycling by paying every time you recycle plastic bottles





Ellen Macarthur

 MacArthur's proposal is based on maximizing the value of the materials used, he created the foundation that bears his name in 2010 and has already signed agreements with large multinationals such as Google or Danone



The use of recycled plastic for the manufacture of new products has a lower environmental impact than the use of virgin material, it is also a basic concept of the Circular Economy: the use of waste as resources



SPANISH WORKS



Recycling in Spain



In Spain we use these containers to recycle the different types of materials.

This truck goes from city to city collecting electronic devices such as televisions or refrigerators that cannot be thrown into another container to recycle them.





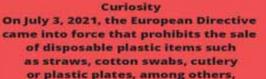
works in the same way as the previous truck but the materials are dumped into containers and picked up by a truck later.

Recycling in your country

Yellow: Plastic Blue: Paper Green: Crystal Grey: Waste in general Orange: Clouds Rojo: Dangerous Waste



We reuse:
-Things like we can
use two times
-We reuse paper or plastic
to do new things
-The clothes we don't use we
give to more people to reuse









Improving the eco-system in our houses







use energy-saving light bulbs



use reusable materials



separate the garbage

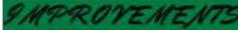


Avoid leaving appliances plugged in

RECYCLING IN YOUR COUNTRY (SPAIN) IMPROVEMENTS







I propose that we get rid of gaspowered furniture inside of houses, as well as climatic adaptations to the exterior, for example, if it's located in a hot place, paint it white so it reflects heat



TALKING ABOUT SUSTAINABILITY AND RECYCLING IN TURKEY



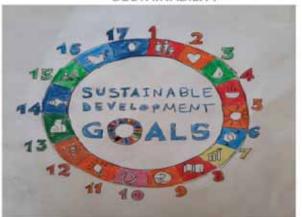




Bottles, jars, glass cups, vases and other glass wastes are collected separately in collection boxes or where waste is generated, and these wastes are separated according to their colors and given to recycling facilities. Here it is separated from waste and additives. Glass materials are broken and mixed into the raw material mixture and poured into the melting furnaces.



SUSTAINABILITY



Turkey catches up 17 goals of Sustainable Developments, they are;

(1) No Poverty, (2) Zero Hunger, (3) Good Health and Well-being, (4) Quality Education, (5) Gender Equality, (6) Clean Water and Sanitation, (7) Affordable and Clean Energy, (8) Decent Work and Economic Growth, (9) Industry, Innovation and Infrastructure, (10) Reduced Inequality, (11) Sustainable Cities and Communities, (12) Responsible Consumption and Production, (13) Climate Action, (14) Life Below Water, (15) Life On Land, (16) Peace, Justice, and Strong Institutions, (17) Partnerships for the Goals.

RECYCLING IN YOUR COUNTRY (TURKEY)





RECYCLING IN TURKEY

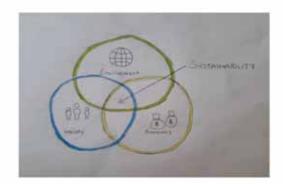
After the Zero Waste (Sıfır Atık) Project initiated in Turkey,
the recovery rate increased from 13 percent to 22.4
percent. This figure is expected to accelerate after the Paris
Climate Agreement. Especially with the increase in
sensitivity in plastic recycling, it is aimed to have the





"Solid Foundations for Common Goals"

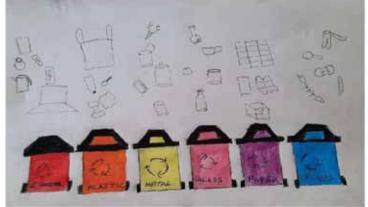
The understanding of sustainable development determines the common denominator in the economic and social development goals of Turkey as "sustainability".





RECYCLING IN YOUR COUNTRY (TURKEY)







In Turkey, the basic philosophy of sustainable development is to evaluate the interaction of the economic and social structure and the environment in a holistic way and to ensure that present and future generations benefit from the opportunities brought by development in an equitable way.



To be continued... Art as a dream from this year's "Biennale". A message of hope



THE COLOURS
OF LIFE
AGAINST
DESTRUCTION



FINAL PRODUCT TO SPREAD OUR PROJECT

• WEB MAGAZINE (MADMAGZ) online exhibition on emaze èòatform

https://madmagz.com/magazine/2038155Emaze

https://www.emaze.com/@ALRWQWTZR/eco?autoplay

Thank you!

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