



# EUROPEAN DIGITAL EDUCATION FOR SOCIAL INCLUSION AND GLOBAL NEIGHBOURHOOD

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## ABOUT THE PROJECT

E-DESIGN

The Erasmus+ project “E-DESIGN – European Digital Education for Social Inclusion and Global Neighbourhood” aims at promoting social inclusion and combating social inequalities through strengthening the digital competences of people lacking access to such educational offers in order to enhance their labour market opportunities and social participation. E-DESIGN addresses the challenge to enable future employees to acquire the skills demanded by a fast changing labour market 4.0.

Learn more:  
[WWW.E-DESIGNPROJECT.EU](http://WWW.E-DESIGNPROJECT.EU)

EUROPEAN DIGITAL EDUCATION  
FOR SOCIAL INCLUSION AND  
GLOBAL NEIGHBOURHOOD  
NEWSLETTER

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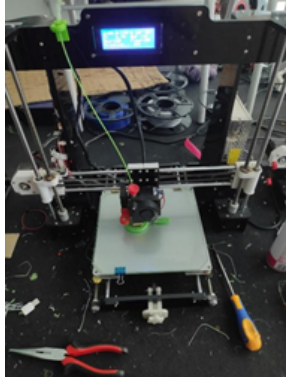
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# THE FOURTH TRAINING HOTPOT IN PORTUGAL IS ALREADY ONGOING AND CLOSE TO AN END!

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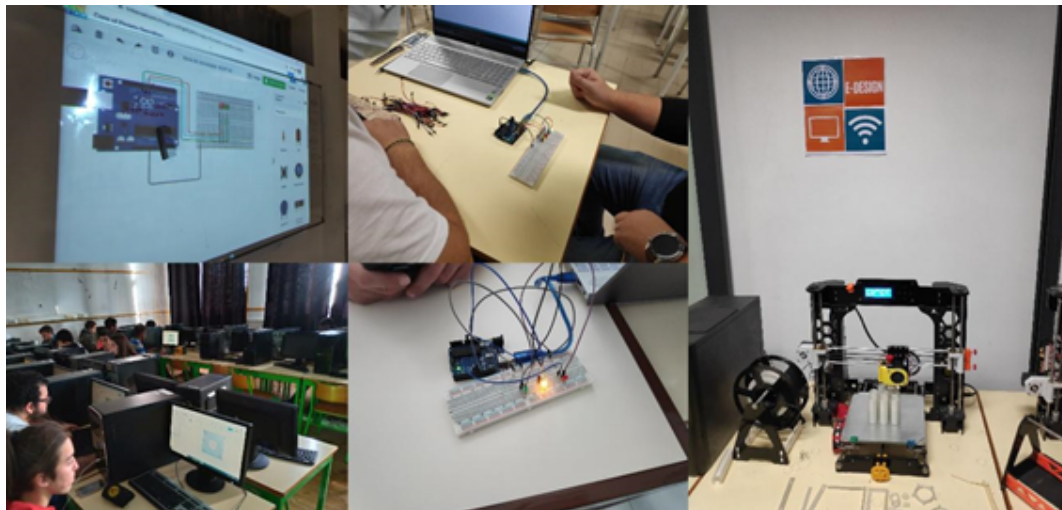
## Portugal

We are excited to tell you that the Fourth Training Hotspot in Portugal is already ongoing and close to an end! Participants have been engaged in activities in order to promote the topics of 3D Modelling and Printing, as well as Microcontrollers. Thanks to the trainee-oriented teaching style that characterizes the Hotspots, 3D Printing has been a success in the sense that participants have shown a lot of interest and will to learn and work with 3D Printing.



During the course of E-DESIGN, CEPROF has hosted 4 Training Hotspots and had the opportunity to engage a varied target-group, including unemployed people who desire to get back to the labour market, people with migration background, digitally-excluded people, people who wanted to strengthen key competences, and trainees from VET schools. Participants learned cutting-edge concepts about very promising topics whose demand is increasing significantly within the labour market, as companies become more and more digitized, such as App Development, Microcontrollers and 3D Modelling and Design.

Video tutorials from some of these activities were also prepared and led to the creation of a Light Control System simulation, a Hand Sanitizer Dispenser, an app that simulated a Beauty Care salon, and the creation of a Home Security Camera. All the material used for the projects was 3D Printed for this purpose, as well as programmed on the software that participants learned at the Training Hotspot sessions.



We are strong believers that our mission was accomplished, and that all the participants are more aware of the importance of digital education and how they can take advantage of it, whether for personal reasons or to improve labour market opportunities.

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# SEVERAL HOTSPOTS AND COURSES IN PROGRESS IN PALERMO, ITALY

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## Italy



In Italy, after several months of closure and lockdown, activities and courses could return in class, which gave rise to some intense months of creation and coding! In this time, three hotspots have been activated in the Palermo area, one in a school and two in the community.

One of those training hotspots was hosted by the scientific highschool Benedetto Croce. This hotspot has seen great participation and enthusiasm with 35 students who have participated. The first part still had to be conducted online, in which the focus was on Arduino simulation and web-development. However, after 4 online sessions, the course could continue in the classroom and students immediately made great progress with real Arduino tools. In the final part of the course, students, divided into pairs, had the opportunity to transform their ideas into concrete projects related to their everyday needs.

The ideas that came to life were very diverse and creative such as: an alarm with the use of motion sensors, a temperature detector, a smartphone storage box with motion sensor, a pet food dispenser connected to a timer, an alarm clock and a mini-piano.

The students particularly appreciated the friendly and collaborative atmosphere, as well as the group work. Having the opportunity to get in touch with topics they would not otherwise have had the chance to learn about is the added value of these courses, and we are proud to see future makers emerge!

At the same time, two other hotspots have started as well. Both are in collaboration with organizations that work with the community in disadvantaged areas of the city, or even outside of the city. One hotspot is in collaboration with Albergo della Vita, which is located in the neighbourhood called ZEN in Palermo. A neighbourhood known for low access to services and education. Participants, from age 11 to 40, come here in small groups to know more about Arduino and 3D modelling and printing.

The other hotspot is located outside of the city of Palermo, called Bagheria, in collaboration with BOCS. Also here, the age ranges from 11 to 28, ensuring once again that Arduino and programming is for all ages, and borrows itself perfectly for interaction and social inclusion.

By the end of July, all hotspots will close and with this, two years of making and coding in Palermo.

## DELIVERABLES TIME!

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### Cyprus

Despite the Cyprus heat, the CIP team has been at work with preparing the E-DESIGN Multiplier Event, brainstorming about possible locations, individuals and organizations to target, as well as has been contacting political actors who would be potentially interested in exploiting the project's deliverables. Through our Hotspots, which are now completed, we were able to reach numerous people from disadvantaged backgrounds who greatly benefited from our sessions and would love to join us during our final multipliers to share their experiences but also to learn about the opportunities that education in the ICT sector can offer them in the long term and network with policy makers and people related to their newly-acquired skillset.



Concurrently, our team has been hard at work with creating the final deliverable for the E-DESIGN project, the Handbook, which is being constructed in collaboration with the whole E-DESIGN partnership who is dedicated to producing a piece of work that will not only guide trainers on how to conduct these Hotspots in their own settings but will also provide them with key information about each Module and practical task sheets that can be used in the learning environment. We are excited to see this project thriving and being realized through to the end with such success! We cannot wait to see what the final months of the project will have in store for us!

# ARDUINO, CAD, 3D MODELLING AND 3D PRINTING CLASSES!

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## Germany

In the last newsletter, we reported about our teacher-training. Following this training of 16 teachers at the Landgraf-Ludwigs-Gymnasium in Giessen - our last School Hotspot - we were finally able to start working with two 9th classes in May (after some Corona-related delays).

One class - with a computer science focus - started working with Arduino microcontrollers with the aim of developing useful and interesting projects. A much smaller amount of time that was available in this course was a challenge. Still, the participants handled the situation quite well and had some ideas for projects, which some are still working on. One idea was an IoT LED strip. The strip is mounted on a black background and a website that is used for communication with the microcontroller controls the LED strip. You can have any colour and any formation in this 12x12 LED matrix.

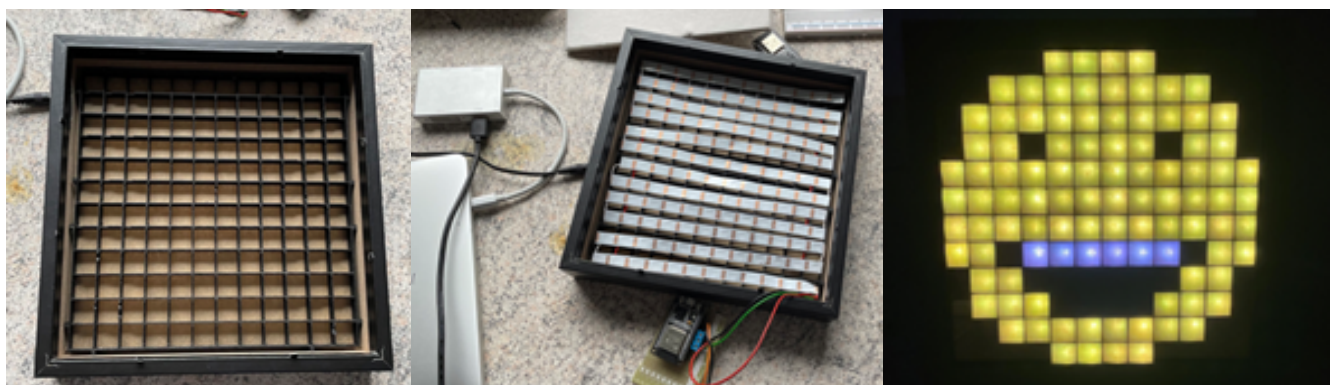


Another course started to work on CAD, 3D modelling and 3D printing. Using constriction criteria from Bionics, flight-capable so-called "wing seeds" (e.g. maple or zanonía seeds) were to be created using the CAD programme "Onshape" and then 3D printed. Subsequently, flight tests were made and on this basis, the wing seeds were then further optimised with regard to improving the flight characteristics.

Working with the students was joyful and exciting and the course has now come to an end due to the upcoming summer holidays.

Moreover, in response to the constraints associated with the pandemic, we decided to launch a new Online Community Hotspot about the topics of Web Development and Internet of Things. The course started with 20 participants and this course is now also coming to an end and the participants are currently working intensively on their final projects. The course participants were split into teams and within these tasks were assigned to each member. Some were skilled in Web Development but not in Arduino and vice versa. The participants managed themselves and had a great team spirit!

We will keep you informed about the results!



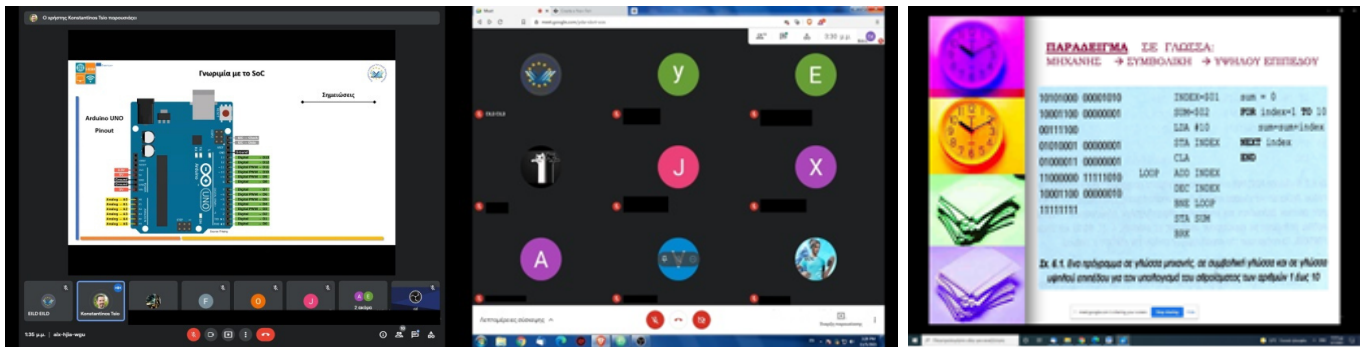
# FINALISATION OF ICT TRAINING HOTSPOT 2&3 AND THE START OF THE 4TH

## Greece

In a harsh period for mobility activities and learning modules in whole Europe, EILD managed to overcome all the difficulties and proceed with a great success on the implementation of the ICT training hotspots 2 & 3 that were implemented in collaboration with the Municipalities of Metamorfossi and Palaio Faliro in Athens. Since April 2021 and until the end of June, EILD completed all the courses for the two hotspots and managed to get a positive feedback from the participants.

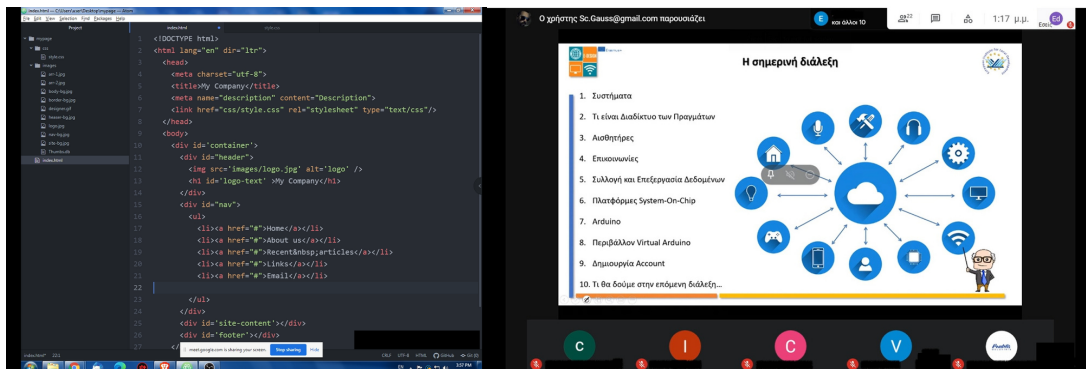
### The Second Hotspot in Municipality of Metamorfossi, Web Development and IoT courses!

The European Institute for Local Development for Local Development has implemented two courses for the participants from the second hotspot. Due to the hard hit of Covid 19, the courses were completely online and the Institute provided the participants with all adequate equipment, ensuring a high quality experience. During the implementation period of the second hotspot, participants had the opportunity to be trained in the thematic of IoT and Web Development and produce their own projects! The IoT classes took place from 22nd of April until the 24th of June with 13 people being registered for the classes. The Web Development session took place from 19th of April until the 21st of June and had 14 people attending.



### The third Hotspot in Municipality of Palaio Faliro, Web Development and IoT courses

The third hotspot had great success since all participants had a great interest for actions and new initiatives since most of the normal life activities had stopped due to the COVID pandemic. EILD in collaboration with the Municipality of Palaio Faliro Managed to perform 2 courses with a total volume of registered participants for both, being 28 in total. EILD performed the web development course from 20th of April until the 22nd of June completely online and the participants learn how to develop a web page and basic principles in coding. Moreover from the 23rd of April until the 25th of June. All beneficiaries that attended the classes learned about practical implementation of IoT applications, used Tinkercad and performed their projects. After the implementation, EILD contacted the people in charge of the Municipality to receive their warm words and satisfaction of the impact created.



### 4th Hotspot in collaboration with SocialPolis Social Enterprise

The European Institute for Local Development is glad to announce the start of the 4th ICT Hotspot in collaboration with SocialPolis Social Enterprise! The two courses that have started from the 26th of June are planned to be finalised in August the 30th. The courses will be on IoT and web development thematics and are going to be implemented online!

# PARTNERS MEETING AND COMING STEPS !

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On the 22nd of July on a relatively hot day in most of the European Countries, the E-DESIGN Partners met in order to have a multi-hour meeting in order to discuss all implemented steps of the project and also create a roadmap of the coming activities and actions. All partners had great success with the implementation of the Courses on the ICT Hotspots established across Europe! Moreover, all partners discussed all the administrative procedures related to the courses that were taken place, feedback from the participants in order to ensure the expected outcome of the implemented actions. After this, the dissemination and exploitation strategy for the project was monitored, aiming to create a path for new actors to perform the same activities and also make the project as visible as possible. Finally, the roadmap for the next steps was discussed and all partners agreed on what they all together have to achieve. Partners decided to meet again after the summer and seek the opportunity to meet in person! National events, deliverables available to the public and conferences are coming soon!



# EUROPEAN DIGITAL EDUCATION FOR SOCIAL INCLUSION AND GLOBAL NEIGHBOURHOOD

CONTACT DETAILS

## THE PARTNERSHIP

The consortium for E-DESIGN – European Digital Education for Social Inclusion and Global Neighborhood is composed of seven very diverse organizations from six different countries: ZAUG and CodeDoor from Germany, CEPROF from Portugal, EILD from Greece, CIP from Cyprus, CSC from Italy and Kauko from Lithuania.



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