



# 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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## How Covid-19 Can Affect Disadvantaged Groups?

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### Greece



The COVID-19 pandemic is causing unprecedented and devastating socio-economic impacts on a global scale. While these impacts are felt by all in varying degrees of severity, COVID-19, like many other health crises, is taking its greatest toll on the most vulnerable and marginalized groups in society. This is necessary in understanding how each group may be disproportionately impacted by COVID-19 so that effective responses to their specific needs can be developed during this crisis.

Vulnerable groups are paying the highest price during these challenging times and are also most at risk of suffering devastating economic losses from COVID-19. The global pandemic continues to shine a spotlight on the vast social and economic disparities in the world. As COVID-19 swept across Europe, Greece started implementing nationwide measures to contain the virus, including cancelation of major public gatherings and lock-down measures. The city of Athens followed these measures while also moving quickly to bring experts together from all sectors to protect marginalised communities.

In recognising and addressing the needs of marginalised groups during the 2020 COVID-19 pandemic, the city of Athens is promoting health equity and building a more just city. Various relevant programmes reflect progress in tackling the long-standing challenges of homelessness and substance use, and improving access to health for hard to reach groups.

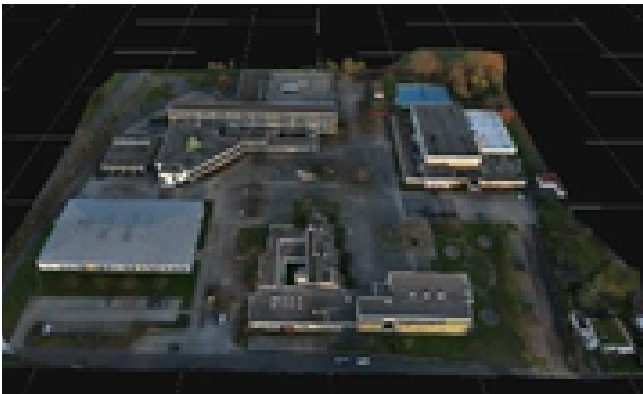
Under these unstable conditions, EILD had managed to start the implementation of the 2nd ICT Training Hotspot, in collaboration with Municipality of Metamorfoosi. Specifically, 5 of its sessions had been completed but the progressive rise of Covid-19 situation was an obstacle to its complete implementation. Meanwhile, the virtual implementation is a new trend of adjustment to physical presence's limitations which the current situation has brought. Finally, there are plans to implement EILD's ICT Training Hotspot in a virtual way.

# ICT Training Hotspot in Heuchelheim

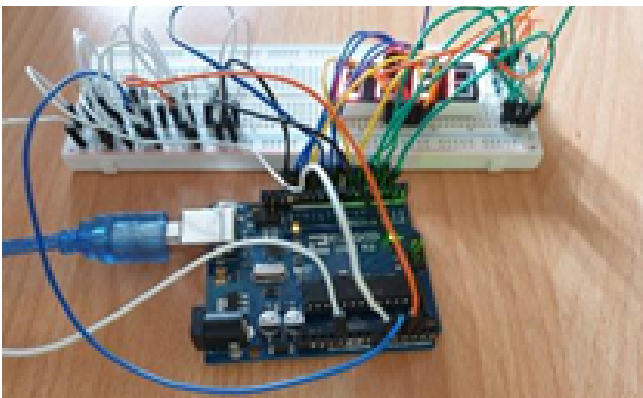
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## Germany

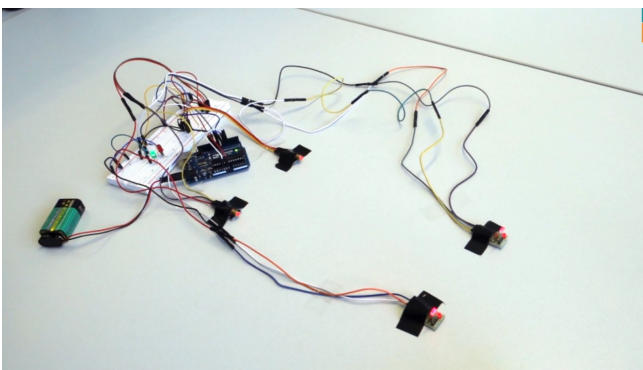
Despite some pandemic-related difficulties, three courses are currently running in Germany: The second course of the community ICT Training Hotspot in Heuchelheim started in October 2020. The participants' projects are currently supervised either on site or, if required, online via video conference. One project is an automated greenhouse control system that measures and monitors air humidity, soil moisture and temperature, autonomously waters the plants and regulates the air humidity by automatically opening and closing a hatch. Another project is to make a "LEGO technic"-Lamborghini drivable with electric motors and controllable via cell phone. We are very curious to see if this project will work. Furthermore, a weather station with LCD display and an RFID-controlled smart lock are being developed. The presentation of the final projects is scheduled for the end of the month. The courses in our third school ICT Training Hotspot at the Clemens Brentano Europe School in Lollar are also entering the project phase:



The other class is working on a CAD-created 3D model of the school grounds, which will then be 3D-printed and exhibited on as large scaled model of the school. To achieve this goal and to facilitate the work for the students, a rough 3D model of the school grounds has already been created using photogrammetry, which will serve as a template and working aid. Here you can watch the animation: [https://www.youtube.com/watch?v=L2\\_a69wEf\\_I](https://www.youtube.com/watch?v=L2_a69wEf_I)



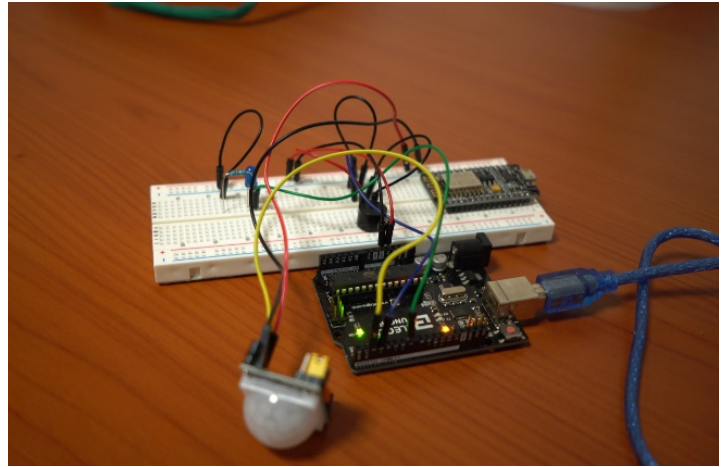
The students of the microcontroller course are working on a signal system (LED and tones) that will support compliance with the regular times for quick intense ventilation of the classroom (as part of the pandemic-related hygiene guidelines). This system will also be connected with a CO2 sensor and a thermal sensor to monitor the air quality and temperature in the classroom.



We are also proud of being able to publish a new project video: After the outbreak of the SARS-CoV-2 pandemic in spring 2020, some course participants thought about technical solutions for reducing the risks of the pandemic. The developed project is a "Light-Barrier-Controlled-People-Counting-System" that uses a traffic light to indicate if there are too many people in a room. The goal of the system was to improve compliance with SARS-CoV-2 hygiene measures. Here you can watch the video: <https://youtu.be/ua4QL40juQ4>.

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### Italy



In Palermo all the courses have finished, but luckily, despite the growing restrictions concerning COVID-19, most of the participants had the possibility to have a final meeting to show their final project and make a video of their results. Though the videos are still in the editing phase, here are some of the pictures and testimonies of our participants:

**FEDERICA: "I LEARNED HOW TO USE HTML PROGRAMMING LANGUAGES, ARDUINO SOFTWARE AND HOW TO BUILD AN ELECTRIC CIRCUIT. DURING THE COURSE, I HAD THE CHANCE TO INTEGRATE MY UNIVERSITY CURRICULUM WITH ESSENTIAL DIGITAL SKILLS FOR THE LABOUR MARKET". - FEDERICA MADE ANTI-THEFT ALARM SYSTEM WITH A MOVING SENSOR AND INTERACTIVE WEB INTERFACE.**

**Lam: "Working and learning with other participants was stimulating and fun. Peer education and learning by doing was fundamental to acquiring new skills through direct participation. I have always been curious about web development and this course gave me the opportunity to deepen my knowledge on the main programming languages." - Lam made as a final project a web-page on cosmetic products, using HTML and CSS coding language**

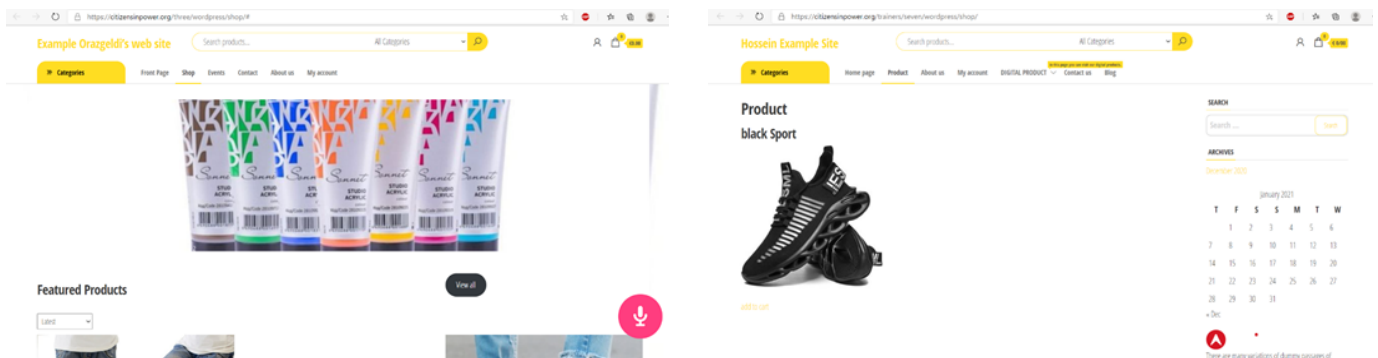
**DENNIS: "I LOVED LEARNING HOW THE CODE SYSTEM WORKS. IT WAS CHALLENGING BUT ALSO SATISFYING TO LEARN HOW TO SOLVE TECHNICAL PROBLEMS BY MYSELF, INDEED IT HELPED ME TO WORK INDEPENDENTLY FOR THE RESOLUTION OF PROBLEMS." - DENNIS MADE A "RANDOM LIGHT PATTERN PROJECT" AS A FINAL PROJECT.**

**Gloria: "I believe that this course gave me the tools to continue to work independently to realize projects with Arduino platform. What I liked the most was to work in groups to solve technical problems and to imagine together creative projects to work on". - Gloria made as a final project an automatic plant watering system, with Arduino and a humidity sensor.**



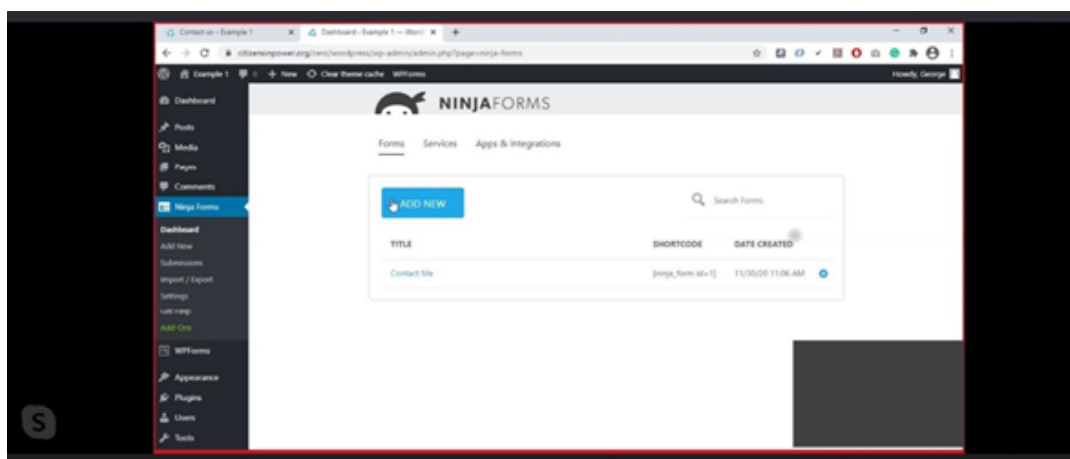
# Last Hotspot in Cyprus!

## Cyprus



The fourth and final ICT Training Hotspot, in Cyprus, has already started. While the first 2 Community Hotspots and 1 School Hotspot were held physically, this 4th and final Community Hotspot is taking place virtually over Skype. However, despite the difficulties arising from the Covid-19 pandemic, our ICT Hotspots at CIP have been successful in remaining uninterrupted. The winter holidays have enabled both partners and Hotspot participants to re-energize and return to work with more excitement and an appetite for improvement and productivity! Currently, CIP is running both an ICT Community Hotspot and a Train the Trainers course! The ICT Hotspot is currently offering participants a 2-hour module for Web Development and a 2-hour module for Microcontrollers per week. These courses take place every Monday and Wednesday between 16:00-18:00 and 18:00-20:00. The Train the Trainers course is carried out every Thursday from 18:00-20:00. The Web-Development module is currently in its 8th week, and participants have already received training on how to create and develop websites and online shops.

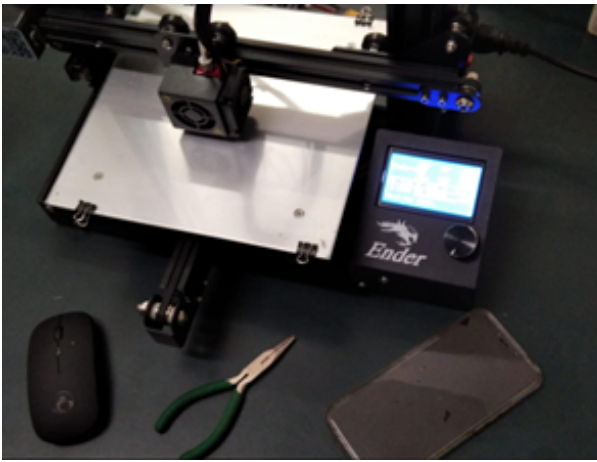
They are now involved in the final phase of the module which concerns their final projects. Similarly, the Micro-controllers module is running alongside Web-Development, also passing through its 8th week. Participants have received training on creating multiple projects with LED, with distance sensors, LCD displays, temperature sensors, and creating their own exercises. They are now involved in the final phase of the module which involves building their own projects on microcontrollers. The Train the Trainers course is currently underway as well, which is currently in its 6th week. The course enables participants to grasp the concept of E-DESIGN and its training materials (modules, theory, practice) and engage in the Design Thinking Process. Participants are currently receiving training about the logistics of setting up their own ICT Training Hotspots and they will soon be asked to deliver Hotspot lessons themselves. In the upcoming weeks, we will upload videos of participants' final projects and visual material related to the project's development throughout this challenging but productive period. We have received very positive feedback from our trainers and participants and we are looking forward to our final productive Hotspot days! Here are some examples of what our participants have been working on during their Web-Development module



## Finalisation of Third Hotspot in Portugal

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### Portugal



The 2nd Training Hotspot from CEPROF, in Portugal, has ended last November. During the last sessions, participants not only were able to design 3D objects using the OnShape CAD-CAM software, as they were also able to print them. Although objects were small, this experience provided participants a good basis to let them understand the benefits and potential of 3D designing and printing on everyday life, and how accessible this equipment can be.

In the meantime, in December, the 3rd Training Hotspot initiated. This time, it is Externato Oliveira Martins, a VET school located in Espinho, hosting the Hotspot. To understand the applicability of 3D Design and Printing in different fields is also an objective that the E-DESIGN project is aiming for, hence the first course, which is still ongoing, is formed by a group of trainees that are enrolled on a Beauty Care course. So far, they are learning how they can design small equipment (like combs or body massage tools) used in practical lessons, so that they can, afterwards, print it and keep it as a souvenir, or even use it in their classes.

The girls are enjoying the sessions and are motivated to go to the next topic, which will be App Development! But how does App Development relate to Beauty Care? Well, stay on that side and wait for the next edition to find out!





# 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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