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Learn
STEM



Innovative (Learn) STEM education in Portugal: Challenges for schools and for companies in COVID-19 times

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In the School

- Agrupamento de Escolas Emídio Navarro - Almada - Portugal
- From 3 to 20 years students
- 3000 students | 300 teachers | 70 staff | 7 schools
- New challenges: distance learning, much more tech, tutor, school by television ...



In the School

- Teachers training | Video in Education Context
- 45 teachers
- Task: Make a interview about STEM and the LEARN STEM MOOC
- What is STEM? What is a MOOC?



In the School



<https://youtu.be/iJVisYgSDo4>



The ecosystem at Caparica (1)

- Local partner is named **MADAN PARQUE**, a Science and Technology Park;
- Its mission is to support the nurture and growth of technology-based companies;
- STEM education is much relevant for these companies;
- It is located next to the Campus of **FCT NOVA**, the Engineering School of **NOVA University**.



The ecosystem at Caparica (2)



- 430 Professors and + 8.000 undergraduate students;
- 14 Departments and 16 Research Centres subject to external evaluation for securing funding;
- All Engineering courses are recognised by EUR-ACE;
- Does have a **FabLab**, which was powered by the **American Corner**.



A new challenge to companies (1)

- In view of a local need for protective face shields to equip hospitals, health centres, nursing homes, etc. a new challenge has emerged;
- A tenant company of **MADAN PARQUE** developed STL files of the face shields parts that can be produced with 3D printers;
- This company set-up a local network of other tech-based companies, professors, individuals, makerspaces, etc. with the goal of increasing the number of parts to be delivered;

A new challenge to companies (2)



- A worldwide pandemic has stimulated society to adapt and strengthen its cohesion, whenever approaching a real problem;
- STEM Education played an important role in this context. Local ecosystem has been supportive of the community building.

