

Greek cMDf Open Competition

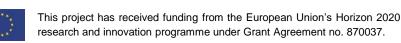
"3D Collaborative Manufacturing in Education & Culture"







March 2022



Concept description





Challenge idea:

#A:

3D Printed Protective Equipment

Or

#B:

3D Printed Smart Luminous Artifact



Requirements:

Co-design

Co-create

an Object

related to

iPRODUCE

cMDFs Countries



Participations:

Schools:

Elementary (5th & 6th grade)

or Middle

Students:

(Individuals or Groups)



Jury:

Greek cMDf

Representatives

CERTH AidPlex

Parents & Guardians Association















8



Winners:

3 Best Ideas

Gold Prize

Silver Prize

Bronze Prize



Awards:

3D Printed Medals

with the Logo of

iPRODUCE



Prize:

3D Printed Prototype

of the Best Idea

(Gold Prize)



Ceremony:

Infrastructures

of

CERTH/ITI

Completion objectives



The competition aims to:

- contribute to the cultural education of elementary or middle school students, through 3D collaborative manufacturing activities
- encourage the participation of schools/students, allowing for creative ideas and innovative solutions to be explored and implemented, by following the principles of co-design and codevelopment

The participants are invited to:

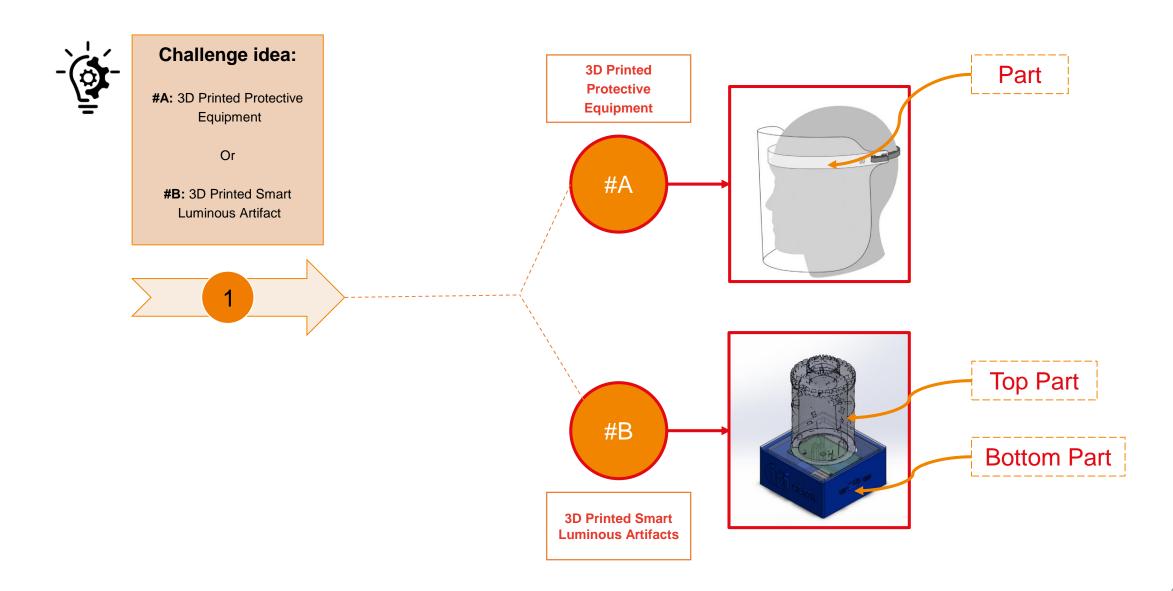
- ✓ select one of the proposed challenge ideas
- ✓ co-create and co-design an **object**, related to a **country** and **culture** of their choice

The competition aims:

- ✓ to support winners in the collaborative design and development of prototypes.
- ✓ to reach further stages of prototype development and implementation of their ideas.
- ✓ by incorporating 3D printing and AR/VR technologies.

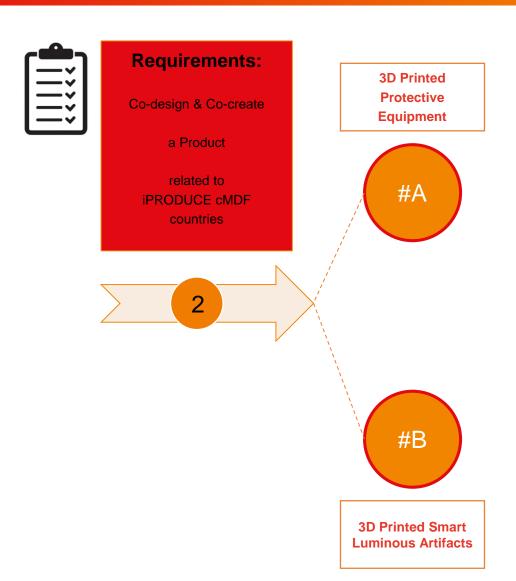
Proposed challenge ideas





Requirements





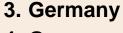
- Select between (#A) and (#B) challenge ideas
- Design a **sketch** of a **3D model** (in paper)
- Based on the **map boarders** of one of the following countries of iPRODUCE cMDFs:













- 5. Italy
- 6. Spain



- Add features related to the **culture** of the selected country
 - (e.g. flags, monuments, patterns, logos, text)

Challenge idea #A





Challenge idea:

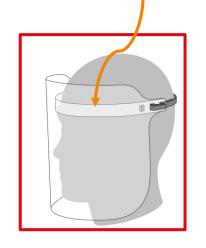
#A:

3D Printed Protective Equipment

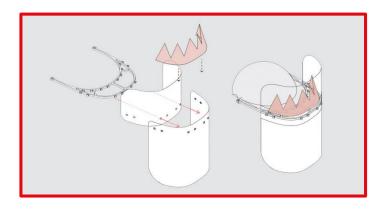
3D Printed Protective Equipment

1 #A

Design this part









Challenge idea #B





Challenge idea:

#B:

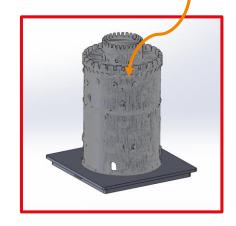
3D Printed
Smart
Luminous Artifact

3D Printed Smart Luminous Artifacts

1 #B

Design the logo of the Bottom Part

Design the Top Part (Hollow)

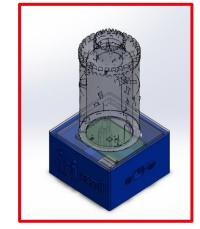














Participations





Participations:

Schools:

(Elementary or Middle)

Students:

(individually or groups)

3

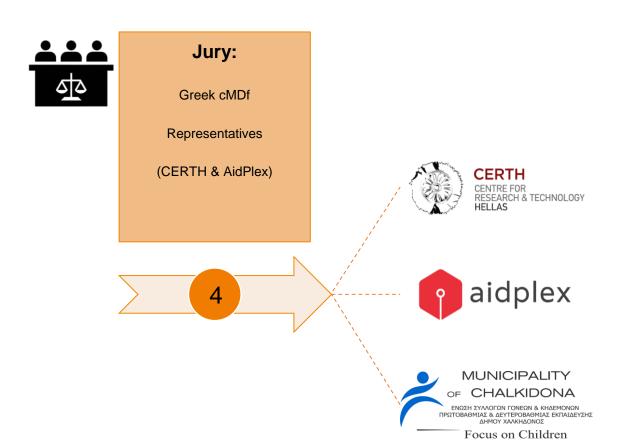




- The participation in the competition is **free of charge**
- The **possible entries** for the competition can be:
 - > Schools of the Region of Central Macedonia, of Greece
 - Elementary Schools (5th & 6th grade)
 - Middle Schools
 - Students of Schools:
 - Individual submissions
 - Group of students

Jury





- The **jury**, which will evaluate the proposals of the participants, will be composed of **representatives** from the following **three entities**:
 - > Centre for Research & Technology Hellas
 - AidPlex
 - Union of Parents & Guardians Association of Primary & Secondary Education, Municipality of Chalkidona

Winners



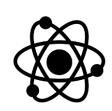


Winners:

3 Best Ideas

Gold Prize Silver Prize Bronze Prize









- Based on the **innovation** of the idea, **three prizes**:
 - The Gold, the Silver and the Bronze Prize
 - Will be distributed to the school/student of 1st, 2nd and 3rd place







Awards





Awards:

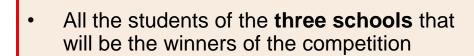
3D Printed Medals

with the logo of

iPRODUCE



6



- Will receive as an award:
- 3D Printed Medals
- with engraved PRODUCE logo





Prize





Prize:

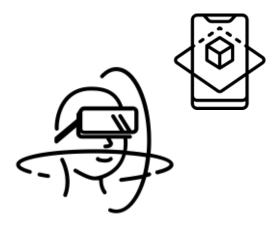
3D Printed Prototype

of the Best Idea

(Gold Prize)



7



- The best idea (1st prize):
- Will be manufactured using diverse 3D Printing technologies
- The students will have the chance to:
 - Have a real-time demonstration of3D printing process
 - Have a guided tour in the infrastructures of CERTH & AidPlex
 - Utilize the OpIS platform in order to create their idea





Ceremony





Ceremony:

Infrastructures

of

CERTH/ITI









- The award ceremony:
- will take place in the infrastructures of the laboratory of
- the Additive Manufacturing Unit (AMU) of CERTH/ITI
- on Saturday 28 May 2022, at 10:00 am.





Competition period



Activity	Date
Opening date for submissions	08 March 2022
Closing date for submissions	30 April 2022
Evaluation of entries	04 May 2022
Selection/ notification of competition winners	06 May 2022
Start date for delivery of award	10 May 2022
End date for delivery of award	31 May 2022













