

Boosting the role of HEIs in the industrial transformation towards the Industry 4.0 paradigm in Georgia and Ukraine

609939-EPP-1-2019-1-BE-EPPKA2-CBHE-JP

## The Innovation Ecosystem of P.PORTO

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8<sup>th</sup> November, 2023



**PORTIC**  
**PORTO**  
**RESEARCH,**  
**TECHNOLOGY**  
**& INNOVATION**  
**CENTER**

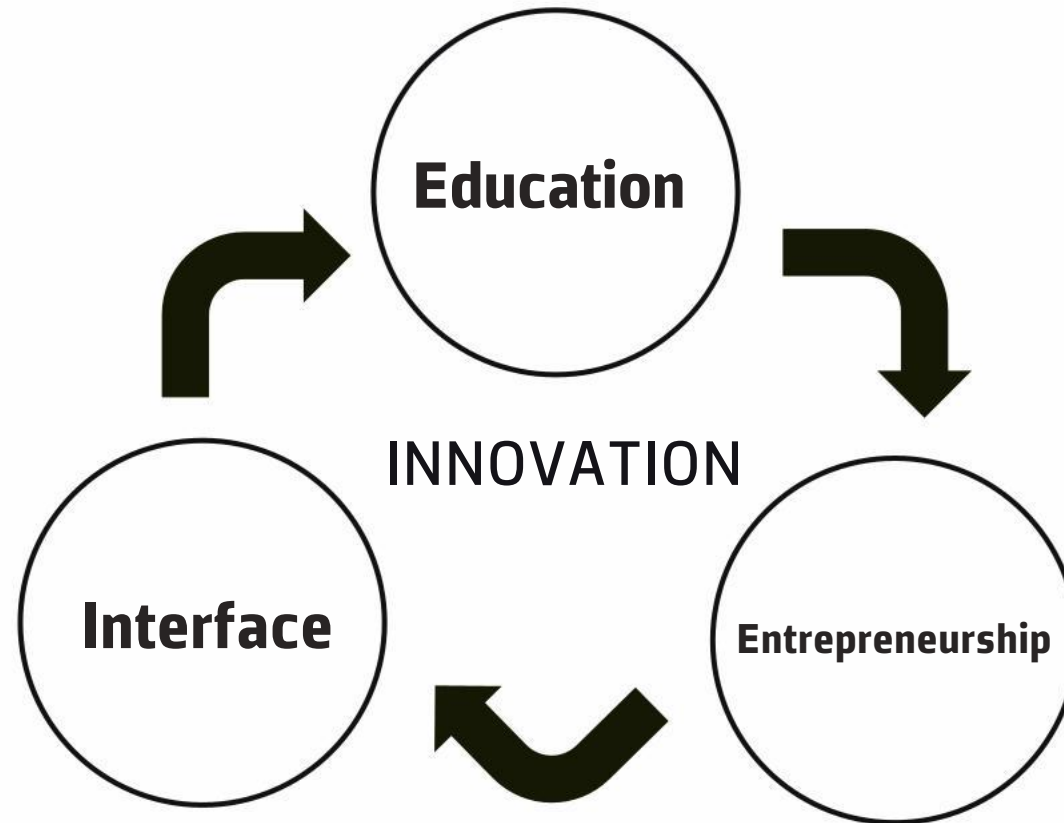
**P.PORTO**





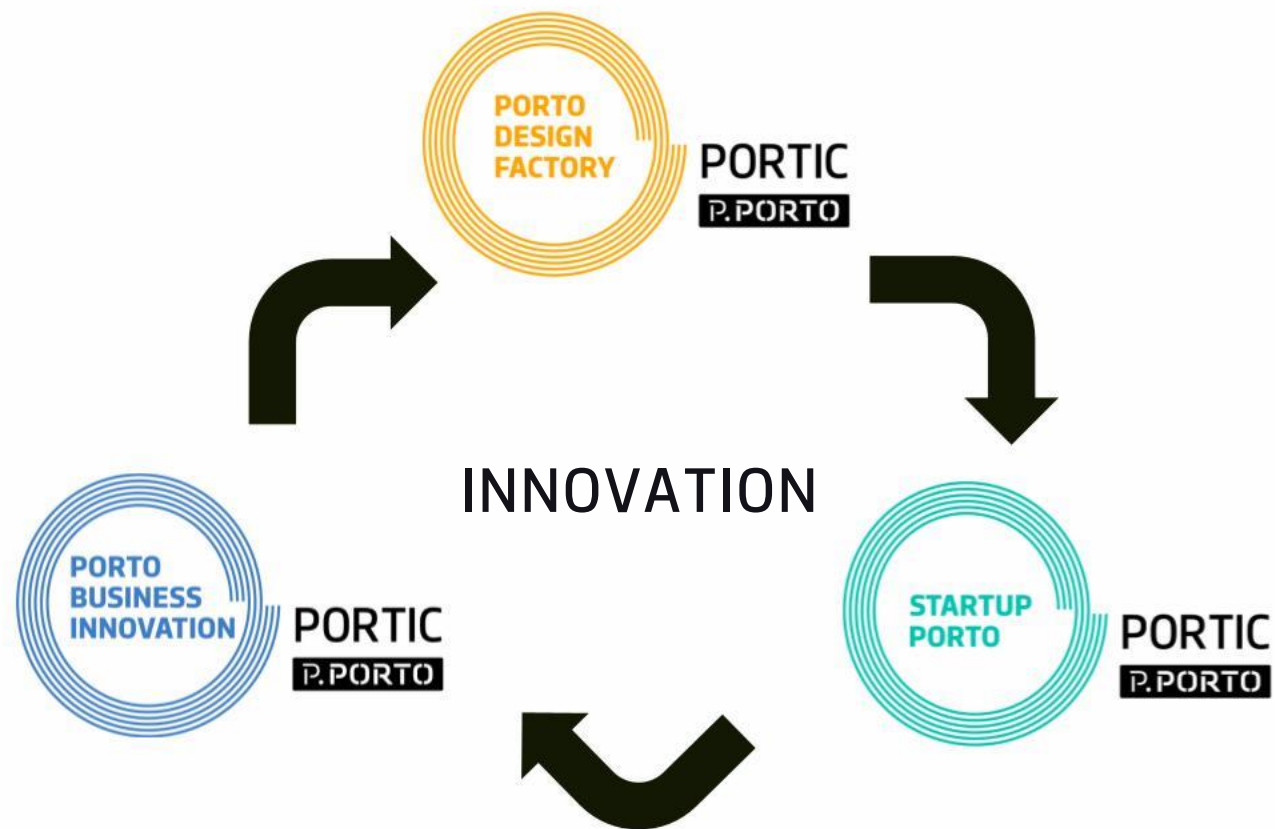


## MISSION





# MISSION





## MISSION



To nurture leaders and innovators to anticipate, serve or solve societal and economic need, through **an integrated inter-disciplinary education model**, focused on developing the skills required by an ever-changing world and determined to **co-increase** new knowledge, new ideas and solutions.



## MISSION



PORTIC  
P.PORTO

To foster the emergence and development of a new generation of exciting business, products and technologies, creating impact through innovation and creativity, in a **polycentric knowledge cooperation.**



## MISSION



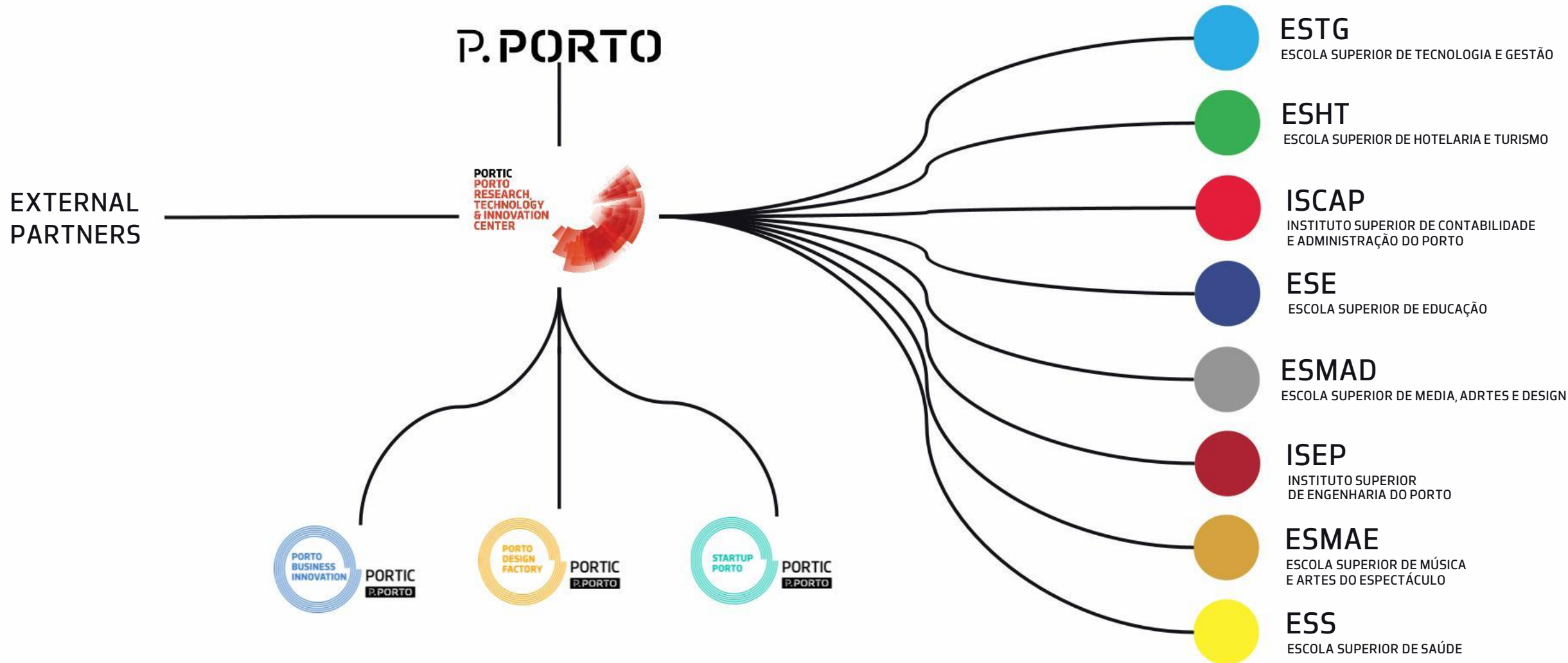
PORTIC  
P.PORTO

To development the interface between academic and business worlds through new **knowledge transfer and business development services** with value creation and social impacts.



# Our Organization:

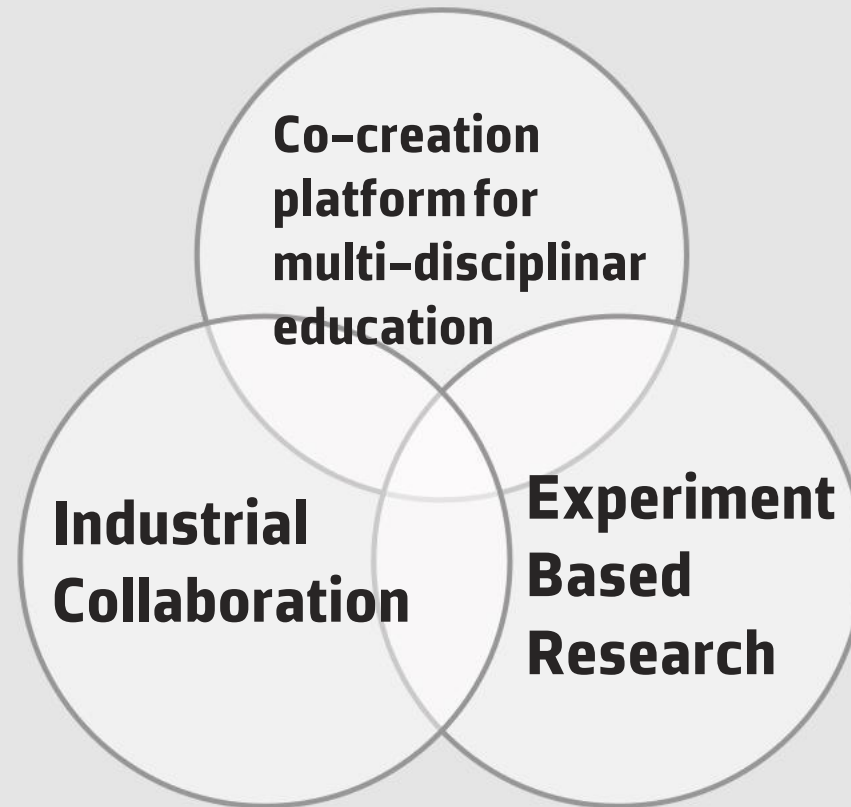
PORTOBUSINESSINNOVATION – STARTUPPORTO – PORTODESIGNFACTORY







# Post- graduated courses in collaboration with industry





# 10 Skills

#01 Complex Problem Solving

#02 Critical Thinking

#03 Creativity

#04 People Management

#05 Coordinating with Others

#06 Emotional Intelligence

#07 Judgement and Decision Making

#08 Service Orientation

#09 Negotiation

#10 Cognitive Flexibility



# 5 Must-Do

#01 Team

#02 Interdisciplinary

#03 International

#04 Impact

#05 User centered

# Networks we proudly belong to:

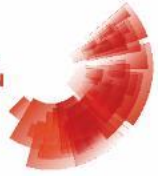
## Design factories around the world



<https://dfgn.org/>

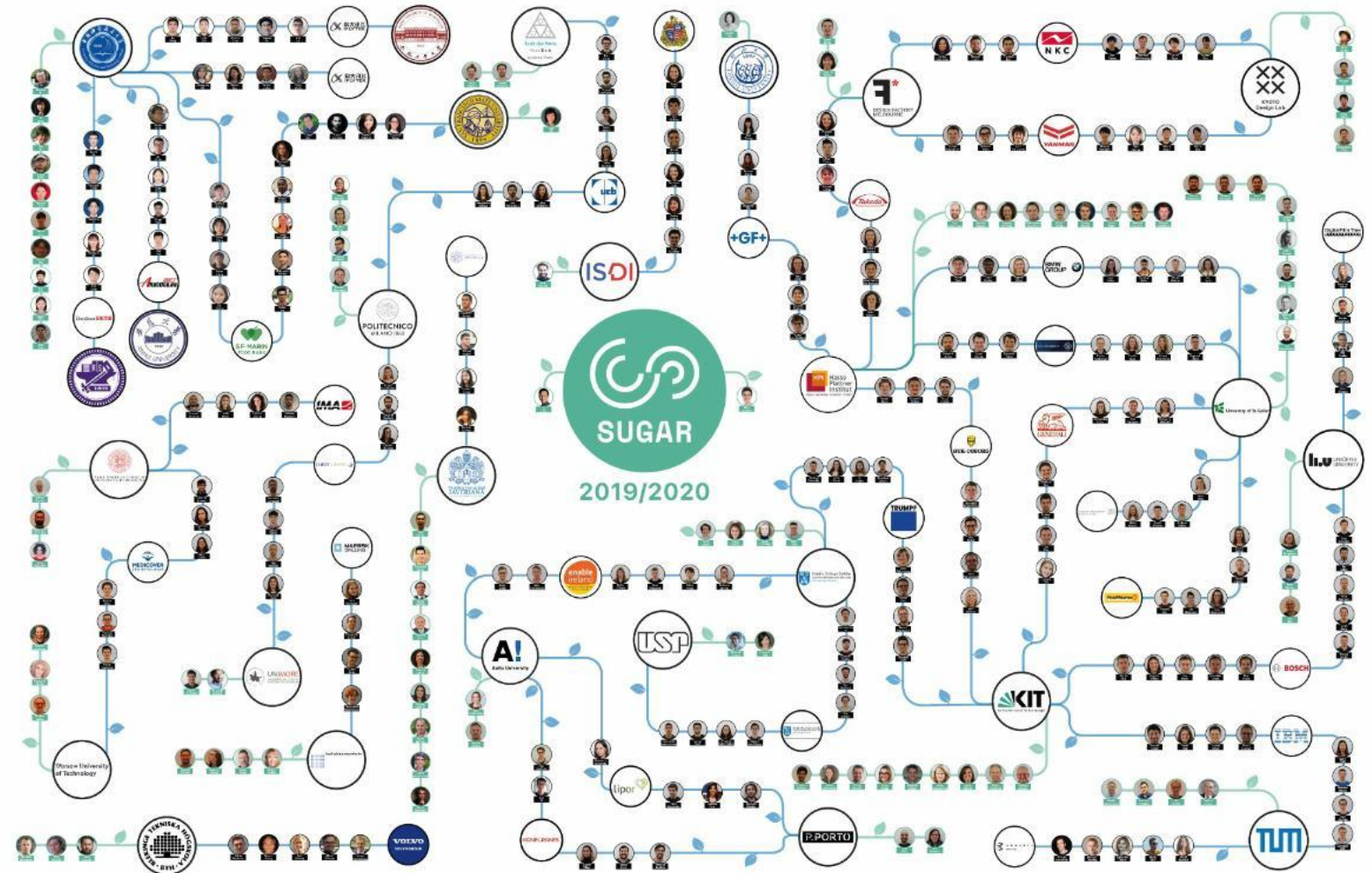
### DESIGN FACTORIES LISTED BY YEAR OF FOUNDING

- |   |  |  |  |
|---|--|--|--|
| <b>01</b> AALTO UNIVERSITY DESIGN FACTORY<br>Aalto University, Helsinki, Finland (2008)               | <b>09</b> FRISIAN DESIGN FACTORY<br>NHL Stenden University of Applied Sciences, Leeuwarden, the Netherlands (2015) | <b>16</b> DESIGN FACTORY NEW ZEALAND<br>Wintec, Hamilton, New Zealand (2017)                                     | <b>24</b> HAMK DESIGN FACTORY<br>Häme University of Applied Sciences, Hämeenlinna, Finland (2019)  |
| <b>02</b> SINO-FINNISH CENTRE<br>Tongji University, Shanghai, China (2010)                            | <b>10</b> METU DESIGN FACTORY<br>Middle East Technical University, Ankara, Turkey (2016)                           | <b>17</b> WARSAW DESIGN FACTORY<br>Warsaw University of Technology, Warsaw, Poland (2017)                        | <b>25</b> ST. JOHN'S UNIVERSITY DESIGN FACTORY<br>St. John's University, New York City, USA (2019) |
| <b>03</b> DESIGN FACTORY MELBOURNE<br>Swinburne University of Technology, Melbourne, Australia (2011) | <b>11</b> DESIGN FACTORY JAVERIANA BOGOTÁ<br>PUC Javeriana, Bogotá, Colombia (2016)                                | <b>18</b> FUSION POINT<br>ESADE, Universidad Politécnica de Catalunya and IED Barcelona, Barcelona, Spain (2017) | <b>26</b> HANNAM DESIGN FACTORY<br>Hannam University, Daejeon, South Korea (2019)                  |
| <b>04</b> DUOC DESIGN FACTORY<br>Duoc UC, Santiago de Chile, Chile (2012)                             | <b>12</b> NYC DESIGN FACTORY<br>Pace University, New York City, USA (2016)   | <b>19</b> KYOTO DESIGN LAB<br>Kyoto Institute of Technology, Kyoto, Japan (2017)                                 | <b>27</b> SHENKAR DESIGN FACTORY<br>Shenkar College, Tel Aviv, Israel (2019)                       |
| <b>05</b> IDEASQUARE @CERN<br>CERN, Geneva, Switzerland (2014)  | <b>13</b> RTU DESIGN FACTORY<br>Rīga Technical University, Riga, Latvia (Oct 2016)                                 | <b>20</b> CALI DESIGN FACTORY<br>PUC Javeriana, Cali, Colombia (2017)  | <b>28</b> OPER.SPACE<br>University of Bologna, Bologna, Italy (2019)                               |
| <b>06</b> DESIGN FACTORY KOREA<br>Yonsei University, Seoul, South Korea (2015)                        | <b>14</b> UPV DESIGN FACTORY<br>Universidad Politécnica de Valencia, Valencia, Spain (2017)                        | <b>21</b> INNO.SPACE<br>Hochschule Mannheim, Mannheim, Germany (2018)  | <b>29</b> TECHNOVATION HUB<br>KU Leuven, Leuven, Belgium (2020)                                    |
| <b>07</b> PORTO DESIGN FACTORY<br>Porto Polytechnic, Porto, Portugal (2015)                           | <b>15</b> DESIGN FACTORY SÃO PAULO,<br>Universidade São Paulo, São Paulo, Brazil (2017)                            | <b>22</b> UNIVERSITY OF TARTU DELTA SANDBOX<br>University of Tartu, Tartu, Estonia (2018)                        | <b>30</b> DESIGN FACTORY LONDON<br>Brunel University London, UK (2020)                             |
| <b>08</b> NEXUS DESIGN FACTORY<br>Thomas Jefferson University, Philadelphia, USA (2015)               |  | <b>23</b> SIT DESIGN FACTORY<br>Singapore Institute of Technology, Singapore (2018)                              |  |



SUGAR

<https://sugar-network.org/>





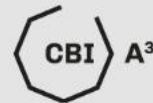
# Educative Programs:

**ME310 Porto** ME310 Porto – Post-Graduation in Product and Service Innovation <https://sugar-network.org/>  
(SUGAR Network – Stanford University Global Alliance for Redesign)



**PdP** – Product Development Project  
(Aalto University) <https://pdp.fi/>

**SQUAD** SQUAD  
(NYC Design Factory + Warsaw Design Factory)



**A3 Challenge-based Innovation**  
(IdeaSQUARE – CERN) <http://cbi.dfm.org.au/>



# ME310 2015/2016

Project Ghisallo / BERG Cycles SONAE Group

Project Ghisallo's aim is to motivate urban commuters to start using a **sustainable transport method in their daily travels**. The Ghisallo Cycle is primarily directed to **professional women who value style, convenience and a sense of security**. It advocates using public transport and sustainable travel, as it is intended to replace cars for short city trips and integrate with trains for longer journeys.





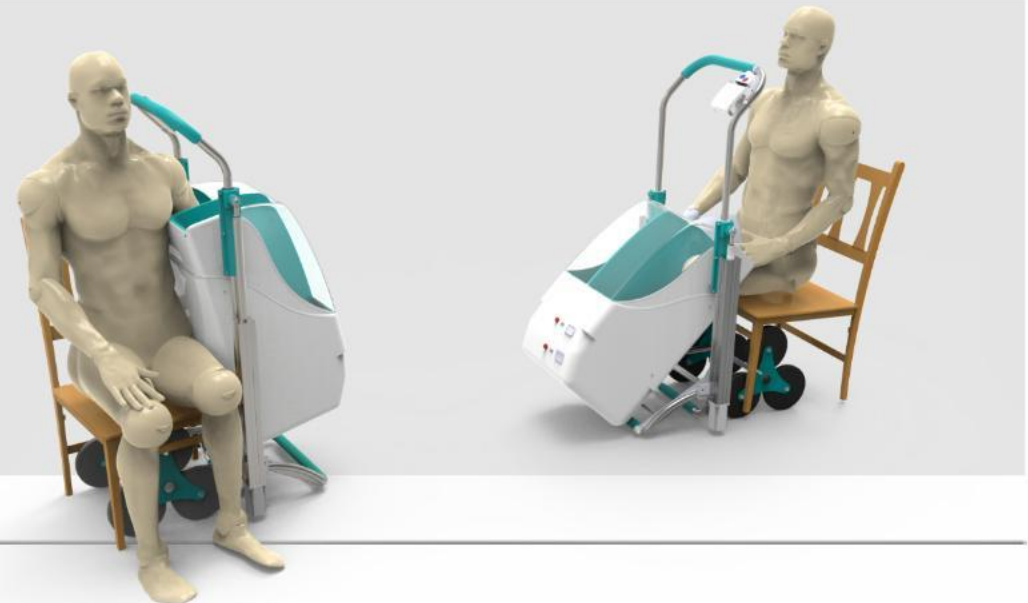
# PDP 2015/2016

Project WHIRLPOOL 2.0. / RMV

This project was developed in partnership with students from the Polytechnic of Porto, Portugal, and students from Aalto University, Finland.

A challenge was proposed by the company of physiotherapy equipment RMV, to develop an innovative solution for the whirlpool or "Whirlpool" hydrotherapy machines.

These machines are similar to small hydromassage bathtubs, but they use a higher temperature and flow, and their purpose is to "warm-up" the upper and lower limbs of patients and then receive physiotherapy treatment.





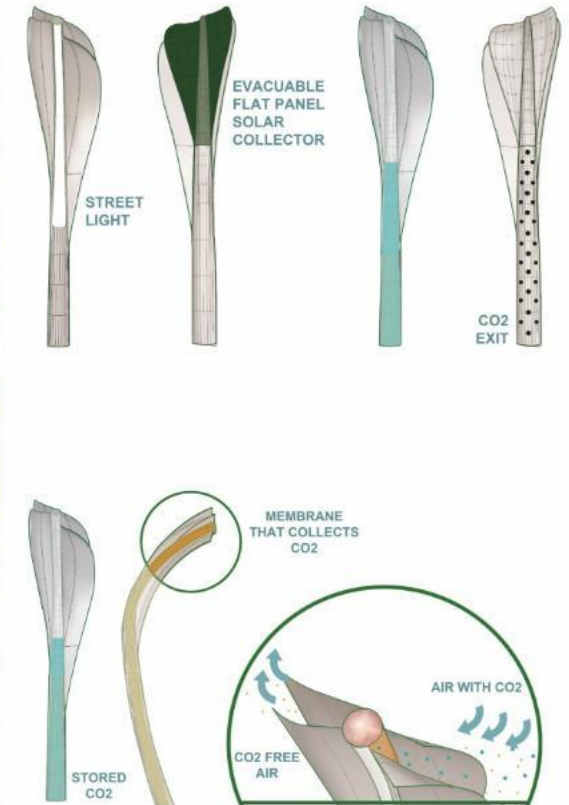
# A3 CBI 2017/2018

Project Geolight / Team Ipiranga

<http://cbi.dfm.org.au/geolight/>

Geolight is a street light, implemented on the sides of the roads, that can detect when a wildfire starts and contain it, using CO<sub>2</sub>, while also having a more daily usage as lighting the roads.

Its main purpose is to create a safe passage, so when a fire occurs, roads don't get blocked. This way, people can get out, and firefighters can get in.





# Projects:



## UoF2019/2020

<https://universitiesofthefuture.eu/>

### SHAPING THE FUTURE OF INDUSTRY AND EDUCATION 4.0

With this course, we aim to generate a paradigmatic change in the way higher education institutions, businesses and public authorities cooperate within the upcoming framework of Industry 4.0.



# RegionARTS

<https://www.interregeurope.eu/regionarts/>

## ENHANCING SME GROWTH BY THE INTEGRATION OF ARTISTS IN ICT PROJECTS

During the last decade, there has been an increasing recognition of the importance of artistic and creative processes as catalysers of innovation, something particularly noted in Information and Communication Technologies (ICT) that intersect in many fields with artistic processes. However, as stressed by the Digital Agenda for Europe, Europe continues to “under-use the creativity of SMEs”. To tackle this, in 2016 the EC launched ‘STARTS’ initiative (Science, Technology and the ARTS) under Horizon 2020.



# ACADIGIA 2020/2023



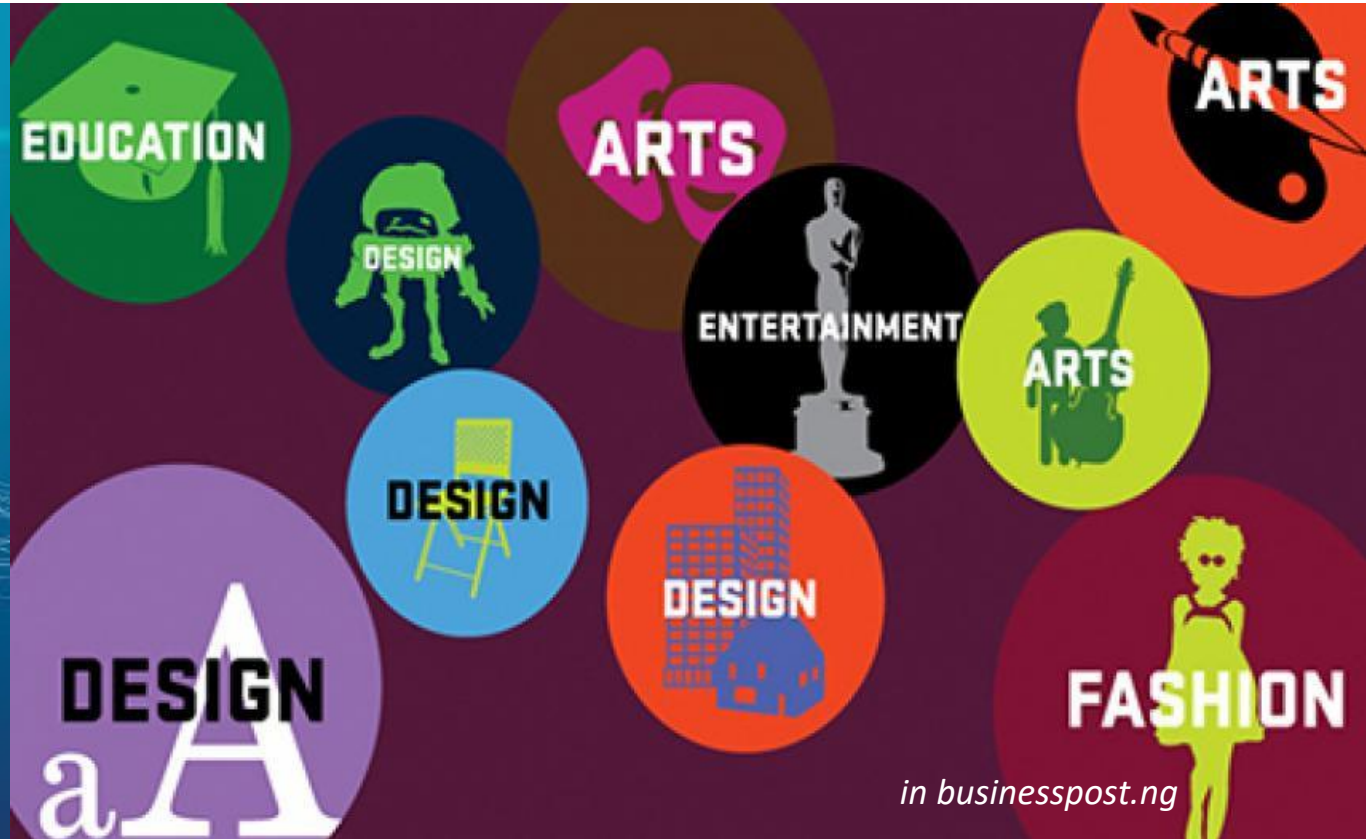
**Accelerating aCAdeمیás DIGItal readiness for online and blended Augmented teaching**

With this project we aim to **analyse and improve the tools for e-learning and remote collaboration between HEIs**, to achieve better results in online classes and training, focusing on the student engagement and integrating new technologies.





**Pre-Acceleration**  
**Acceleration**  
**Access to investment**  
**Global & Thematic Incubation**  
**Community Events & Networking Activities**





# PARTICIPA!

Empreendedorismo no ensino superior  
[www.poliempreende.com](http://www.poliempreende.com)

19.<sup>a</sup>  
Edição

**Poliempreende**  
Projetos de Vocação Empresarial 2021/2022



## The biggest entrepreneurship program in the Polytechnic Network

Site: (<http://www.poliempreende.com/>)



# Porto Design Acceleration

<https://pda.startupporto.ipp.pt/>



Pre-Acceleration for Design-Based Consumer Goods Startups.  
To support innovation in the design based consumer goods industry through the entrepreneurial creation, launch and growth of design centric startups.



# Beta Sound System

<https://bss.startupporto.ipp.pt/>



Pre-Acceleration for Music-Driven Startups.

This accelerator provides support to music-minded entrepreneurs by connecting them to the critical community, educators, mentors, experts and manufacturing partners needed to turn ideas into realities.



# Portugal Tourism Minds

<http://portugaltourismminds.pgh.ipp.pt/?lang=en>



Pre-Acceleration for Tourism-based Startups.

From new digital strategies for companies and tourist destinations to the optimization of business operations in tourism.

To address these challenges we have created 2 different acceleration programs, each with a specific focus.

Each program will be 4 months long, with a tailor-made education stream and the ability to foster future collaboration between all the participants in the program.





# AYCH – Atlantic Youth Creative Hub

In collaboration with Fábrica Santo Thyrsó, we **provide training sessions and workshops in several disciplines**, such as 3D Printing and Modelling, Graphic Design and Brand Identity, Marketing, Intellectual Property. These sessions and workshops are destined to entrepreneurs and students incubated in Fábrica Santo Thyrsó, as well as their partners.



# Research



Center for Translational Health and Medical  
Biotechnology Research



VASCO DA GAMA COLAB  
INNOVATION FOR A BETTER WORLD



# DfB – Design for Business

**Training short course** in collaboration with SPI – Sociedade Portuguesa de Inovação, in Design Thinking, Lean Manufacturing, and Agile Development methodologies.



# Some of our Partners:



**PORTIC**  
**PORTO**  
**RESEARCH,**  
**TECHNOLOGY**  
**& INNOVATION**  
**CENTER**

**P.PORTO**

**Thank You!**

