

## WHAT IS ADDITIVE MANUFACTURING, ALSO CALLED 3D PRINTING?

**3D printing** is a group of additive manufacturing technologies where a three-dimensional object that is described in a digitized program is created by superimposing successive layers of material in an industrial production process.

## WHAT ARE THE ADDITIVE MANUFACTURING ADVANTAGES?



3D printers offer product developers the ability to **print elements in one piece**, without having to assemble the parts and with maximum capacity for product customization, material recycling and no waste.

Within the general framework of the 4.0 economy, **3-Dimensional Printing (3DP)** technology has made its way. 3D printing and, especially, its intensive use in the manufacturing system, will redefine production systems by increasing **product customization, reducing stocks, waste** footprint and **environmental impact** and, consequently, increasing the **competitiveness** of local production systems.

As it is a very new technology, strong investment in research and development is still necessary, as well as in the creation of incubation and transfer spaces

## WHAT IS THE 3D INCUBATOR?

The 3D Incubator is **Europe's first high-tech 3D printing incubator** to host the most promising initiatives using these disruptive additive manufacturing technologies. Its objective is to promote the growth of these projects by creating a **unique space** for the incubation of start-ups, SMEs and micro-businesses related to these 4.0 economy technologies.



The 3D Incubator, an initiative led by the **Consorti de la Zona Franca de Barcelona** and the **Fundación Leitat**, is financially supported by the **FEDER Funds** through the **INCYDE Foundation**.

The 3D Incubator is prepared to incubate **more than 100 companies in five years**. It will promote the business take-off of incubated initiatives through the supply of 3D production services, business consulting, parts' certification and marketing activities.

To achieve this goal, the 3D Incubator will have **10 state-of-the-art 3D printing equipment** (6 different technologies), post-processing equipment for cleaning, printing, polishing and quality control; , design software and experienced staff at the disposal of the incubated companies, as well as incubation spaces for networking and training activities. These resources are unique to grow an innovative project from its early stages.

## WHERE IS THE 3D INCUBATOR?

The 3D Incubator occupies **1000 square meters** in the building that also houses the corporate headquarters of the Consorci de la Zona Franca de Barcelona, at the Zona Franca industrial estate, at the foot of the Ronda Litoral and connected via subway by the Parc Logístic station of Line 9 South. Located in **the largest industrial area of the city of Barcelona**, it has excellent connections to the airport, the Barcelona Port and the city's fairgrounds.



## IS IT THE ONLY INCUBATOR DEDICATED TO ADDITIVE 3D PRINTING?

It is the **first incubator** focused exclusively and specifically on 3D printing not only in **Catalonia**, but also in **Spain and Europe**.



## WHAT SERVICES DOES THE INCUBATOR OFFER?

The 3D Incubator provides services throughout **the entire value generation chain**: offering business consulting, 3D parts manufacturing, production certification and marketing support.

The incubation area includes co-working areas, offices, design, production and post-process areas, training areas and meeting rooms.

For this, the 3D Incubator is equipped with 4 state-of-the-art industrial 3D printers, 4 mini-printers, post-processing areas, metrology and quality control equipment and design software.

## WHAT HAS BEEN THE INVESTMENT ON THE 3D INCUBATOR?

**Three million Euros**, of which 1.5 million have been contributed by ERDF funds and the remaining 1.5 million by the partners in the project.



The Incubator is part of a much larger and more ambitious project, the **DFactory Barcelona**, a 100,000 square meters' space promoted by the Consorci de la Zona Franca and Leitat. It will involve 100 million euros of investment to position Barcelona as the hub of innovation in 4.0 Economics in Southern Europe. The first phase will see the light in 2021, with 17,000 square meters of office, laboratory and incubation space to attract innovative companies, talent and investment.

## IS THE INCUBATOR SPECIALIZED IN ANY SUBSECTOR?

It has specific machinery for **producing plastic and resins, with 7 different 3D printing technologies**. In the near future the range of materials for printing and other technologies is expected to be expanded.

## WHO IS PROMOTING THE 3D INCUBATOR?

It is an initiative led by the Consorci de la Zona Franca de Barcelona and Fundació Leitat and is financially supported by FEDER funds through the INCYDE Foundation.

## HOW MANY COMPANIES ARE IN THE INCUBATOR?

Currently, the 3D Incubator already has 60 companies incubated in these first two years since its opening, surpassing the goal that had been previously set of 20 companies per year. Of these, 5 are international and the rest come from all over the Spanish geography.

It so happens that, among the applicants, there are **projects virtually incubated**, which have access to the Incubator services without the need to carry out their activity withing the facilities.

## WHAT KIND OF PROJECTS ARE BEING DEVELOPED?

Considering the transversality of technology, the incubated projects come from a wide range of sectors: consumer goods, capital goods, health sector, mobility projects, consulting, Information Technology, chemistry and logistics.

## SINCE WHEN HAS THE 3D INCUBATOR BEEN WORKING?

February 11 was the official inauguration, chaired by the Minister of Science, Innovation and Universities, **Pedro Duque**. Companies began being admitted on March 1, starting with the **regular activity** of the incubator, including the provision of services.

## WHAT DOES IT COST FOR AN INCUBATOR TO BE IN THE 3D INCUBATOR?

The incubator costs depend, first of all, on the type of incubation that is chosen (with private office, in co-working or virtual). The projects may choose from different options the one that best suits their needs and their possibilities.

And, on the other hand, the cost is determined by the services consumed with an important advantage: these services are **50% financed with the aid granted by the INCYDE Foundation**. Therefore, the cost of staying in the incubator is extremely affordable. The incubators can remain in the incubator for a **minimum period of 6 months and a maximum of 12 months**, although in case of agreement both periods can be extended.

## SERVICES

A wide range of services through the value chain:

- |                              |                                     |
|------------------------------|-------------------------------------|
| <b>Production:</b>           | Parts Design                        |
|                              | Prototyping                         |
|                              | Printing                            |
|                              | Post-process                        |
| <b>Business consultancy:</b> | Protection of intellectual property |
|                              | Financing opportunities             |
|                              | Consulting and mentoring            |

<b>Testing:</b>	Final and specific testing
<b>Marketing support:</b>	Participation in fairs Organization of trade missions International market analysis Participation in potential market sessions
<b>Incubation:</b>	Co-working areas Private offices Training Networking meetings

## CONSORCI DE LA ZONA FRANCA DE BARCELONA

The Consorci is a public company, financed entirely with its own funds with the industrial leases of the Zona Franca industrial estate and its asset management. Dedicated to economic promotion, it is an entity guided by the spirit of concertation, with a plenary made up of representatives of the Spanish Government, the Barcelona City Council and the main economic entities of the city.

## LEITAT

Leitat, founded in 1906, aims to manage technologies to create and transfer sustainable Social, Environmental, Economic and Industrial value to companies and entities through research and technological processes. From its state-of-the-art facilities, Leitat collaborates with more than 45 countries and is developing more than 215 projects in the fields of: Biotechnology, Health, Advanced Materials, Industrial Chemistry, Renewable Energies and New Production Processes. Leitat concentrates its energy on promoting teams specialized

in Technology Transfer, which allow the generation of collaborative and reliable business environments to achieve an economy based on knowledge and talent development.

Leitat is a Technology Center, accredited by ACCIÓ and recognized by the Ministry of Economy and Competitiveness, which encourages collaboration and cooperation, providing knowledge and experience in a global environment.

## FUNDACIÓN INCYDE

The INCYDE Foundation is an institution created in 1999 by all the Chambers of Commerce of Spain, dedicated to the promotion of entrepreneurship and the consolidation of companies through innovation. Inspired by the entrepreneurial spirit of the Chambers of Commerce, it fulfills the formative and structural role in its training programs, as well as with the Network of Nurseries, digital coworking and High Technology Incubators, which the Foundation puts at the service of new entrepreneurs. INCYDE covers all stages of a business project, from the improvement of the idea, through its incubation, acceleration, access to financing, and maturation. To date, INCYDE has invested more than € 250 million inside and outside of Spain and has launched the largest Network of Business Incubators in Europe, with 143 incubators working in a Network, 11 High Technology Incubators, and a Coworking Network digital. Since 2002, more than 4,420 companies have been incubated at INCYDE's facilities.