FUTURE EVOLUTION OF THE DIGITAL FABRICATION LABORATORIES.

PRACTICAL APPLICATION TO NEÀPOLIS

Introduction:

Neàpolis is an agency that promotes innovation in technology, design, university, coworking and entrepreneurship. In this transversal framework, Neàpolis offers training, premises and support to increase cooperation and provide more learning opportunities through a community which aspires to entrepreneurial excellence.

As a public agency for innovation in ICT and multimedia, since 2006 Neàpolis has contributed to the consolidation of Vilanova i la Geltrú and its area of influence as a business hub for the ICT, media and creative sectors. Neàpolis aims to support local innovation and competitiveness in ways which include promoting regional, national and international cooperation.

It focuses on support for successful business initiatives, especially in small and medium-sized businesses, which it also links with an application directed at research and public funding programmes.

Given the success of the work that Neàpolis is performing in recent years, and the strategic importance for the city and the territory of the issues developed by Neàpolis, it arises the objective of expanding the transversal concept Neàpolis. Therefore, the last two years, two IDPS
European Project Semester
Project proposal

The goal of this EPS project is, on one hand, to study the implementation of Digital Fabrication Laboratories in the Neàpolis District. And on the other hand, to evaluate the future evolution of Digital Fabrication Laboratories.

Project Brief:

The Outcome of this project is to propose the ampliation of the Neàpolis transversal concept, focusing in the implementation of Digital Fabrication Laboratories in the sector named Neàpolis District. The main goals to be fulfilled are the following:

1.- Study the characteristics of Neàpolis.
2.- Evaluate the possibilities and characteristics of its future growth.
3.- Study the history, evolution and the current situation of the Digital Fabrication Laboratories around the world.
4.- Investigate which is the future evolution of the Digital Fabrication Laboratories around the world.
5.- Propose the implementation of Digital Fabrication Laboratories in the Neàpolis District.
6.- Propose a plan of phases to implement the Digital Fabrication Laboratories in the Neàpolis District.
7.- Calculate the cost of these phases, including all the concepts involved (machinery, etc.).
8.- Propose an occupation plan, in order the work derived from these proposed Digital Fabrication Laboratories, be made by people and companies of the territory.
9.- Introduce the concept hybridization, in the sense that different professions collaborate generating new transverse professions.
10.- Describe all the advantages and benefits that the implementation of Digital Fabrication Laboratories in the Neàpolis District brings to Neàpolis, to the Vilanova i la Geltrú town hall, to the city and to the territory in general.
11.- Propose a methodology to package the concept of implementation of Digital Fabrication Laboratories in the Neàpolis District, in order it can be exported to other places, to other countries.

Company:

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Project team:

<table>
<thead>
<tr>
<th>Number of students:</th>
<th>5</th>
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| Students speciality: | Industrial Design Engineering  
                           Building Engineering  
                           Civil Engineering  
                           Electronical Engineering  
                           Electric Engineering  
                           Mechanical Engineering  
                           Economical-Bussiness Engineering |
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Project proposal