



Degree:

**Master's Degree in Technology and Engineering Management**

Student:

**Pablo Alonso Cebolla**

Title of the Master Thesis:

**Study and optimization of production flow by applying a graph theory approach.**

Master Thesis Director:

**José María Sallán Leyes**

Date of delivery:

**January 2021**

Content of this volume:

**BUDGET AND ENVIRONMENTAL IMPACT STUDY**

## Table of contents

1. Budget .....	3
2. Environmental impact study .....	4

## 1. Budget

<b>BUDGET</b>			
<b>Direct costs</b>			
<b>Element</b>	<b>Quantity (h)</b>	<b>Unitary cost (€/h)</b>	<b>Cost (€)</b>
<i>Engineering – Documentation and study</i>	250	17,00	4250,00
<i>Engineering – Development and analysis</i>	500	17,00	8500,00
<b>Subtotal cost</b>			<b>12.750,00 €</b>
<b>Indirect costs</b>			
<b>Element</b>	<b>Quantity (unit)</b>	<b>Unitary cost (€/unit)</b>	<b>Cost (€)</b>
<i>Microsoft 365 Personal</i>	1	69,00	69,00
<i>NodeXL Pro (Analysis software)</i>	1	749,00	749,00
<b>Subtotal cost</b>			<b>818,00 €</b>
<b>Total cost</b>	<b>13.568,00 €</b>		

Table 1: Budget.

## 2. Environmental impact study

In the case of this thesis, there are no wastes resultant from the performance of the whole study. Therefore, as there will not be an execution project, an environmental impact study does not need to be carried out.