

# ***Astrea*** Project Charter - 2. Orbital design

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October 3, 2016

# 1 Planning of the project

## 1.1 Identification of the tasks and description of the tasks

ID	Work Package	Biref task description list
2.1	Constellation geometry	Determine the number of satellites needed. Define the distribution of the satellites.
2.2.1	General parameters	Define the general parameters of the orbit of each satellite.
2.2.2	Drifts	Compute the possible orbit deviations of each satellite.
2.3	Legislation	Study the legislation referred to nanosatellites. Implement the necessary measures to accomplish the legal requirements.

## 1.2 Interdependency relationships among tasks and human resources and level of effort

ID	Work Package	Time (h)	Prelations
2.1	Constellation geometry	120	-
2.2.1	General parameters	80	BF - 2.1
2.2.2	Drifts	30	BB - 2.2.1
2.3	Legislation	20	BB - 2.1 BB - 1

## 2 Budget

### 2.1 Engineering hours budget

Work Package	Time (h)	Labour cost (eur)
2-Orbital design		
2.1-Constellation geometry	120	2400
2.2-Orbit parameters		
2.2.1-General parameters	80	1600
2.2.2-Drifts	30	600
2.3-Legislation	20	400
<b>Total</b>	<b>250</b>	<b>5000</b>
<b>Total estimated</b>	<b>250</b>	<b>5000</b>

### 2.2 Preliminary total cost budget

Work Package	Product cost(eur)	Time (h)	Labour cost (eur)
2-Orbital design			
2.1-Constellation geometry	0	120	2400
2.2-Orbit parameters			
2.2.1-General parameters	0	80	1600
2.2.2-Drifts	0	30	600
2.3-Legislation	¿Price of the license?	20	400
<b>Total</b>	<b>¿Price of the license?</b>	<b>250</b>	<b>5000</b>
<b>Total estimated</b>	<b>¿Price of the license?</b>	<b>250</b>	<b>5000</b>