Project DEOS-UD

Disruptive Earth Observation Sensing for Urban Developement

Deliverable 2
Scope, Time and Cost Management

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1.1 Product Scope Description

1.2 Project Deliverables

1.3 Project Acceptance Criteria

1.4 Project Exclusions

There are some facts that are out of the scope of the project which, generally, are designated as exclusions. Hence, in this section, the exclusions of the project are determined and defined.

Item	Description
Satellites design	It is out of the scope of this project to design a new satellite that will use the sensors as payload.
Launching	The objective of the project do not include neither the design of the launch system of the satellites nor the costs and scheduling of launching the satellite using the sensors designed.
Deployment	No deployment mechanism nor strategy of the satellites that integrate this new technologies are going to be developed.
Satellite monitoring	The satellite monitoring system that permits to scan different surfaces and regions of the earth is not included in this project scope.
Data transfer	Neither communication between satellites nor between the satellite and the ground station are part of this project.

Item	Description
Final production	The project will only focus on the development of prototype models in order to test the new technologies implemented. Hence, commercial production of these ones will not be carried out.

Table 1.4.1: Project Exclusions

1.5   Project Constraints

2 | Work Breakdown Structure (WBS)

2.1 Activity list

3 | Sequence activities

3.1 Dependencies or logical relationship between activities

3.2 Network Diagram (Precedence Diagram Method)

4 | Estimate activity resources

4.1 Resource identification

In this section the resources available/needed to perform the project will be exposed. These resources will be classified into three different categories:

- Employees: People needed to achieve the objectives of the project. The employees will be provided by the members of the consortium. As not all employees are in the same point on the learning curve, they will be classified into three sub-groups:

  - Senior: High on the learning curve. Is able to provide guidance on technical and management issues and offers a critical point of view of the actions of the project.

  - Average:Is able to perform activities on its knowledge field and arrive to conclusions without supervision.

  - Junior: Little experience in the field, the work done need to be supervised by an average employee.

- Materials: Hardware and software elements that will be used to achieve the project objectives.

- Facilities: Special places and services (such as the testing room).

The resources are exposed in Table 4.1.1.

Resource ID	Resource Description	Type of resource
PM.M	Project Manager	Employee-Senior
PM.S	Project Manager Secretary	Employee-Average
F.M	Financial Manager	Employee-Senior
F.A	Financial Manager Assessor	Employee-Average
SP.M	Stakeholders and Procurement Manager	Employee-Senior
SP.A	Stakeholders and Procurement Manager Assessor	Employee-Average

ST.M	Scope and Time Manager	Employee-Senior
ST.A	Scope and Time Manager Assessor	Employee-Average
R.M	Risk Manager	Employee-Senior
R.A	Risk Manager Assessor	Employee-Average
QM.M	Quality Manager	Employee-Senior
QM.A	Quality Manager Assessor	Employee-Senior
MC.M	Marketing and Communications Manager	Employee-Senior
MC.A	Marketing and Communications Manager Assessor	Employee-Average
TM	Tecnhical Manager	Employee-Average
RD.A	Research and development assessor	Employee-Average
LB.A	Legal and Business Assessor	Employee-Average
SD.S	System development engineer	Employee-Senior
SD.A	System development engineer	Employee-Average
SD.J	System development engineer	Employee-Junior
ST.S	System testing engineer	Employee-Senior
ST.A	System testing engineer	Employee-Average
ST.J	System testing engineer	Employee-Junior
AD.S	Application development manager	Employee-Senior
AD.A	Application development technician	Employee-Average
AD.J	Application development technician	Employee-Junior

Table 4.1.1: Resources identification

4.2   Activity resource requirement

4.3   Resource Breakdown Structure

5 | Estimate activity duration

6 | Project Schedule

Gantt chart

7 | Activity Attributes (at Work Package level)

Table 7.0.1: Activity X attributes

WBS-ID:	Activity:
This identifies where this activity can be found in the WBS.	This is the name of the activity from the project activity list.

Description of Work:		
This information includes a detailed description of the work to be performed for this activity and should be consistent with what is provided in the project activity list.		

Predecessors:	Relationship:	Lag:
This section lists other activities which must occur before this activity.	This describes if the predecessor has a start-start, start-finish or other type of scheduling relationship.	This section describes any dependencies on predecessor activities like lead times, lag times or other requirements.
Number and Type of Resources Required: The number and roles of people to complete the work	**Skill Requirements:** The level of skill necessary to complete the work (expert, average, novice or applicable job level)	**Other Required Resources:** Any equipment, supplies, or other type of resources needed to complete the work

Type of Effort:
Indicate if the work is fixed duration, fixed amount of work or fixed amount of effort
Location of Performance: If the work is to be completed somewhere other than at the performing organization site, indicate location
Constraints: Indicate any fixed delivery dates, milestones or other constrains
Assumptions: List any assumption about resources availability, skill sets, or other assumptions that impact activity

8 | Cost estimating

8.1 Level of accuracy

8.2 Cost estimation worksheet

8.3 Activity cost estimation

9 | Cumulative costs

9.1 Cumulative cost curve

9.2 Budget at completion

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