





## Project DEOS-UD

## Disruptive Earth Observation Sensing for Urban Developement

# Deliverable 3 Procurement, Quality, Risks and Communication Management

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## 1 | Plan procurement management

On the following sections, procurement decisions will be exposed, determining whether to acquire outside support, and if so, what to acquire, how to acquire it, how much is needed, and when to acquire it.

## 1.1 Make or Buy decisions

WBS ID	Work Package Name	Reasons for BUY	Cost estimate	Type of contract	Possible risks	List of suppliers	Special considerations or constraints
5.1.1.	Manufacturing of payload sensors	Create sensors with the designed parameters, using high performance industry standards.	c €	FFP (Firm Fixed Price contract)	Delay in delivering the products Faulty products	SUPLIERS FOR SENSORS	Products must satisfy design parameters Maximum due date $16/04/21$
5.1.2	Manufacturing of modular system	Use sensor interface specific outsource facilities for manufacturing the modular system	c €	FFP (Firm Fixed Price contract)	Delay in delivery Specifications not met.	SUPPLIWES FOR INTERFACE	Product must satisfy design parameters Maximum due date 16/04/21
5.6.	Quality of the product	Outside of the project entity must do quality tests	c €	FFP (Firm Fixed Price contract)	Quality standards of the products not met.	QUALITY agency	Due date of quality study is fixed on 21/01/22
7.2.1.	Web site development	Quick launch the project professional website.	cost€	FFP (Fixed Price Contract)	Late delivery Not meeting communiation plan specifications	Due date before 21/01/22	





#### 1.2 Statement Of Work

For each procurement option

Detailed description of the procurement item; • Requirements to be met by the procurement item; • Type of contract to be used; • Setting the scheduled dates in each contract for the contract deliverables (milestones) and coordinating with the schedule project development; • Any constraints and assumptions that could affect planned procurements; • Identifying requirements for performance bonds or insurance contracts to mitigate some forms of project risk; • Establishing the form and format to be used for the procurement/contract statements of work; • Identifying prequalified sellers, if any, to be used; and • Procurement metrics to be used to manage contracts and evaluate sellers.

#### 5.1.1. Manufacturing of payload sensors

**Requirements** Build sensors described by the 4.2.1.0. Payloads final design, related to the Earth Observation project. Seller can manufacture one part of the required items, but budget will be adjusted accordingly.

**Type of contract** A Firm Fixed Price contract is stipulated because, for this tasks there are clear requirements and determined deadlines. Also, budget have been assigned and a final product version it is clearly decided.

**Scheduled date** To be delivered no later than 16/04/2021. Starts after the 4.2.1.0. Payloads final design delivery and is part of the 5.0. Prototype manufacturing milestone.

**Constraints** Manufactured sensors should met all 4.2.1.0. Payloads final design constraints without exception.

Risk control actions description

Form and format description

Prequalified sellers description

Procurement metrics description



## 2 | Quality management plan

**TEXTO** 

### 2.1 Quality Assurance Approach

**TEXTO** 

### 2.2 Quality Control Approach

The quality control plan of the project is divided in three main areas:

- Documentation quality plan
- Technical quality plan
- Software quality plan

### 2.2.1 Documentation quality plan

All the documentation of the project has to follow a strict quality plan in order to ensure that no information is lost. This plan refers to the deliverables but also to the internal documents of the company. The processes that have to be followed are:

- 1. Definition of the document
  - Define the type of document and its content as well as the standards that it has to follow.
  - Define the responsible of the document, the team that is going to work in it and the team that is going to verify it.



- Define the deadline of the document as well as any milestone that may be related to it.
- 2. Redaction of the document: While the document is in progress there may be some periodic quality controls to ensure that the quality plan is met.
- 3. Review and approval: Once the document is finished, it is delivered to the quality department. They have to verify that the documentation follows the quality standards defined by the company.

#### 2.2.2 Technical quality plan

Since the project consists in the design and construction of the prototype, it is necessary to ensure that the product of the project meets all the quality requirements. To do so, before beginning with the design, a quality plan has to be defined. Once the plan is finished and the design phase starts, there are some procedures that will have to be done regularly:

- Check that the design fulfils the requirements of the project.
- Check for possible incompatibilities between the payload and the modular system.
- Review that the milestones are met in the given deadlines.

Finally, when the design is over and the prototype is constructed, a validation must be done in order to check that it fulfils all the requirements of the project as well as to verify that it complies the quality plan. This validation process has to follow the standards given by the industry.

#### 2.2.3 Software quality plan

The project not only consists of a prototype that should be constructed, but it also has a software that has to be verified. In order to do so, before stating with the coding, a software quality plan has to be defined. According to this document, some standards have to be followed in the making of the interaction platform, such as coding and comment standards, to ensure a correct flow of information between the people who work on it as well as to avoid possible errors. During the design phase, some procedures will be done regularly:

- Check that the standards are being followed.
- Avoid possible incompatibilities between the interaction platform and the payload or modular system.



• Review the latest modifications before making them definitive.

Once an error is detected, it has to be immediately reported to the responsible of the software development. Then, an engineer will be assigned to solve it, and he/she will report it once the problem is solved.

Finally, once the interaction platform is operative, a validation has to be performed in order to ensure that it fulfils all the requirements of the project as well as to verify it complies the software quality plan. This validation process has to follow the standards given by the industry.

### 2.3 Quality Improvement Approach

Quality improvement (QI) is a formal analysis of practice performance and efforts done in order to improve the performance of the project with the main objective of increasing its efficiency. The information shown here about QI models and tools has been extracted from [1] and [2]. A proper QI process requires of some basics to succeed. These basics are the following ones:

- Establish a culture of quality in the project: Creation of QI teams, QI meetings and QI goals.
- Determine and prioritize potential areas of improvement: Define, according to the acceptance criteria of the project, the main areas of improvement.
- Collect and analyse data: Determine the type of data to be collect and analyse it properly according to the project objectives.
- Communication of results: Quality improvements should be transparent to the stakeholders in order to keep them satisfy.

In this project the six-sigma working philosophy will be implemented in order to improve quality. The objective of this philosophy is to adjust the existing processes in order to improve the quality and minimizing variability by reducing defects and irregularities. The model related with six-sigma philosophy that will be used is DMAIC. This model includes the following steps:

- Define: Set the objective of the problem or the existent defect. In this project this definition will be done according to the acceptance criteria. The improvement of the quality plan is one of the objectives that will need to be taken into account.
- Measurement: Measures are needed in order to have values for the problem or defect. In this project the measurements according to the effectiveness of the quality plan are:



- Number of iterations of a document/design to be approved.
- Stakeholders satisfaction
- Time needed to approve a document/design.
- Number of defects detected by the quality department
- Analyse: Figure out the causes of the problem or defect and propose solutions.
- Improve: Implement the solution approved.
- Control: Control the implementation of the improvement, assure continuity and success.

## 2.4 Quality Roles and Responsibilities

Role	Responsibilities
Project Manager	Final responsible for the quality of the project.
	Schedules meetings with the Quality Department in order to discuss the quality aspects of the project.
	Establishes the quality plan of the project.
Project Manager Secretary	Helps the Project Manager in the tasks that he/she delegates.
Quality Manager	Main quality responsible of the project.
	Fixes the quality guidelines that all documents are required to fulfill.
	Reviews all the deliverables to make sure they fulfill the required quality.
Quality Manager Assessor	Helps the Quality Manager in the tasks that he/she delegates.



Role	Responsibilities				
Technical Manager	Coordinates the work done by the engineers and technicians.				
	Reviews the technical aspects of the deliverables before approving them.				
	Makes sure the technical procedures have been correctly.				
	Provides assistance to the engineers and technicians in order to fulfill the quality requirements.				
Engineers and technicians	Make sure that the technical aspects of the project follows the quality standards.				

Table 2.4.1: List of quality roles and responsibilities



## 3 Risk management plan

### 3.1 Definitions of Probability

Two parameters are commonly used in order to model risk: the probability that something might happen and the impact it would have if it did happen. Therefore, to evaluate the probability of the potential risk to occur it is crucial to define and quantify it properly.

A scale of 1% to 100% will be used for Probability, which is linearly divided in five sections represented in the table below. In fact, the 1% is associated with the minimum probability meaning it is very rare it occurs and the maximum 100% means a risk is unavoidable.

Probability	Description	Probability Score
Very High	Means it is a fact because it is very likely to occur	(81-100)%
High	Likely to occur	(61-80)%
Medium	May occur about half of the time	(41-60)%
Low	Unlikely to occur	(21-40)%
Very Low	Very unlikely to occur	(1-20)%

Table 3.1.1: Definitions of probability

## 3.2 Definitions of impacts by objective

To evaluate the impact into the overall project if a certain risk did happen, a numerical estimate is provided to quantify the effects of the risks in terms of Scope and Quality, Schedule and Cost. Those three categories are scaled from 1 to 5 in a linear way in order to quantify the



impact, where 1 is the minimum and 5 is the maximum. Moreover, each effect is defined qualitatively depending on its category and its impact.

Scope/Quality Impact	Description	Scope Impact Score
Very High	Be unable to achieve the desired objectives. The project end item is effectively useless.	5
High	Scope and quality reduction hardly acceptable. The impact makes that the project item quality is below the desired objectives and under the acceptance criteria.	4
Medium	The risk produces moderate impact in the project and the results. Major areas of the scope are affected and quality is reduced but still above the acceptance criteria.	3
Low	It produces a low impact. Minor areas of the scope are affected and quality is slightly reduced affecting very demanding applications.	2
Very Low	It produces and insignificant impact in the project. Scope and quality decrease barely noticeable.	1

Table 3.2.1: Scope/Quality impacts

Schedule Impact	Description	Schedule Impact Score
Very High	Very significant delay in the schedule, increasing the milestone duration more than a 20%.	5
High	Significant delay in the schedule, increasing the milestone duration between a 10% and 20%.	4
Medium	Moderate delay in the schedule, increasing the milestone duration between a 5% and 10%.	3



Schedule Impact	Description	Schedule Impact Score
Low	Slightly significant delay in the schedule, increasing the milestone duration less than 5%.	2
Very Low	Insignificant delay and time increase.	1

Table 3.2.2: Schedule imapcts

Cost Impact	Description	Cost Impact Score
Very High	Several impact on the project cost, increasing the cost about more than 30%.	5
High	Important impact on the project cost, increasing the cost about $15\%$ to $30\%$ .	4
Medium	Moderate impact on the project cost, increasing the cost about $10\%$ to $15\%$ .	3
Low	Reduced impact on the project cost, increasing the cost about less than 10	
Very Low	Insignificant impact on the project cost.	1

Table 3.2.3: Cost impacts

## 3.3 Probability and impact matrix

Beyond the definitions of probability and impact, a further quantitative analysis of risk is required. Every risk is assigned a rate based on the probability and impact scores. This evaluation of risks is the way in which they are classified by their importance: the higher the risk rating, the higher their priority for attention. To manage ratings in a more organized manner, the probability and impact matrix is defined. This matrix specifies combinations of probability and impact that lead to rating the risks as very low, low, moderate, high or extreme. The following table shows the risk rating legend used for the elaboration of this project risk matrix:



Risk Rating	Score	Colour
Extreme Risk	[4 - 5]	
High Risk	[3 - 4)	
Moderate Risk	[2 - 3)	
Low Risk	[1 - 2)	
Very Low Risk	[0 - 1)	

Figure 3.3.1: Risk Rating Legend

			Probability									
25		Very Low/.2	Low/.4	Medium/.6	High/.8	Very High/1						
	Very High/5	1	2	3	4	5						
ಕ	High/4	0.8	1.6	2.4	3.2	4						
Impact	Medium/3	0.6	1.2	1.8	2.4	3						
드	Low/2	0.4	0.8	1.2	1.6	2						
	Very Low/1	0.2	0.4	0.6	0.8	1						

Figure 3.3.2: Probability and Impact Matrix

Depending on the risk score, the response and priority assigned to a risk will change. For example, risks that are in the red area of the matrix (high probability and high impact) may require priority action and aggressive response strategies while risks in the light green area may not require proactive management action beyond being considered as a warning. Throughout the project risks may vary so, using this matrix, risks will be reconsidered, changing their rating if necessary.

## 3.4 Risk rating

As already mentioned, risk rate is determined through probability and impact scores. In fact, it is the result of multiplying both scores. Hence, to identify a risk's position in the matrix, first it is necessary to assess probability and impact score as explained in sections 3.1 and 3.2. The previously defined matrix, represents impact as an overall score but in our case, different impact scores have been defined depending on the project objective that is threatened (scope, schedule, or cost). Hence, to determine the general impact grade the following equation is defined:

$$I_{general} = \sum_{i} (W_i \cdot I_i) \tag{3.4.1}$$

Where:

• *i* represents the different types of impact (scope, schedule, cost)



- $W_i$  represents the importance or weight (from 0 to 1) of each of the impact types and it is satisfied that Wscope + Wschedule + Wcost = 1
- $I_i$  represents the impact score of each of the types (from 0 to 5)

Consequently, the overall impact will have a value of (0-5] calculated doing a balance between each type of impact importance. Regarding the weights defined for this project, it has been decided that cost is the most important, followed by scope and finally, the schedule. Hence, the values assigned are the ones shown below:

$$W_{scope} = 0.3$$

$$W_{schedule} = 0.2$$

$$W_{cost} = 0.5$$

Once the general impact is calculated, the risk rating is defined as: Risk Rating = Probability Score  $\times$  Impact Score

#### 3.5 Risk identification and assessment

In this section as risk identification and assessment is provided by taking into account the defined data of the previous sections. Here it is also provided the information about the revised-risks.

The factors that have been used in the identification process are: enterprise environmental factors, organizational process assets, the project scope statement and the project management plan.

It is worth to mention that after analyzing these points, risks have been classified in two main groups: External risks, which are risks the project team cannot control and therefor no response nor action can be defined, and Internal risks, which can be detected in advance and be addressed properly.



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D:-I- ID	Diele Chahamant	Durch a billion	Impact			C	Response	
Risk ID	Risk Statement Probability		Scope/Quality	Scope/Quality Schedule Cost		Score	Response	
Identifier	Description of the risk event or circumstance	Likelihood of occurrence				Probab. × Impact	Description of the planned response strategy to the risk event	
R.1	Deliverable delays	Medium	1	4	3	1.6	Mitigation: Dedicate more resources than expected.	
R.2	Inaccurate cost forecast	High	3	2	4	2.6	Transfer: Consider new funding sources and revise the financial management plan.	
R.3	Lack of communication	High	3	4	3	2.6	Avoidance: Periodical meetings and use of collaborative software.	
R.4	Lack of technology improvement	Low	3	2	1	0.7	Avoidance: Guarantee the development with thorough search of the actual technology.	
R.5	Lack of access to project needed information	Very Low	2	2	2	0.4	Avoidance: A previous accurate research is needed before the development of the project.	
R.6	Low team motivation	Medium	3	5	1	1.4	Acceptance: Personal control and team building projects.	
R.7	Unsuccessfully quality control	Low	4	2	2	1.0	Mitigation: Improve or increase the quality controls.	
R.8	Conflicts between members	High	2	4	2	1.9	Acceptance: Personal conflicts resolution	





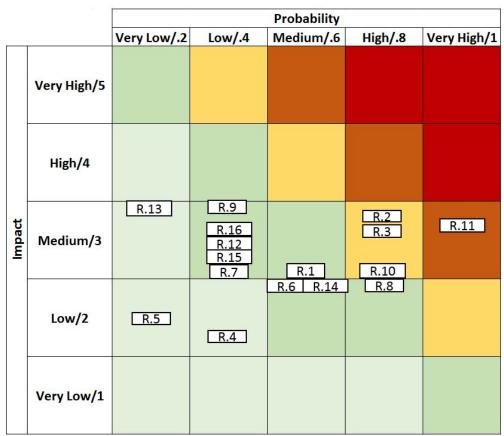


Figure 3.5.1: Risk assessment



D: 1 1D	Revised	Revised Impact			Revised		
Risk ID	Probability	Scope/Quality	Schedule	Cost	Score	Owner	Action
Identifier	Likelihood after the response strategy				Revised probability x Impact	Person who will manage the risk	Actions to be taken to address the risk
R.1	Low	1	2	2	0.7	Project Manager	Increase the number of control meetings. Allocate more human resources in delayed tasks.
R.2	Medium	2	2	2	1.2	Project Manager and Financial Manager	Highly periodical cost and expense controls.
R.3	Low	1	2	1	0.5	Project Manager secretary	Impart communicative skills courses to team members. Enhance use of collaborative software.
R.4	Very Low	2	1	1	0.3	Project Manager	Use all resources that are needed to guarantee the innovation expected. Propose redesigns and alternatives if needed.
R.5	Very Low	1	1	2	0.3	The manager of the corresponding department	Maintain contact with scientific and technological centers to be up to date of last technological improvements.
R.6	Low	2	3	1	0.7	Human Resources Manager	Interview team members to know their level of





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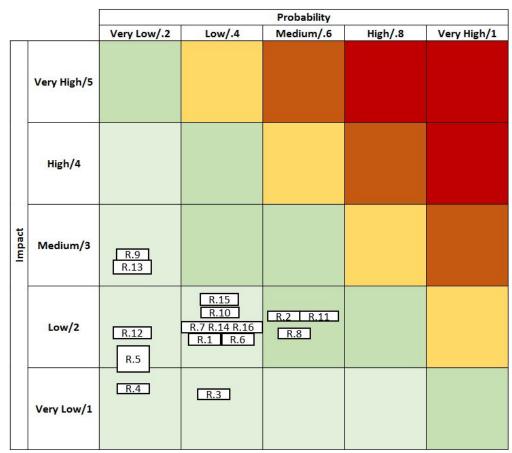


Figure 3.5.2: Revised Risk assessment





## 3.6 Risk data sheet

Risk-ID:	Risk Description:										
R.1	Deliverables delays: The deliverables could not be completed at the										
	time of their corresponding deadlines, leading to an increase of costs										
	and a delay of a	ll the schedu	le of the	project.							
Status:	Risk Cause:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the					
Closed	risk										
Probability	Impact			Score	Responses						
Probability	Scope/Quality	Schedule	Cost	Score	Responses						
Medium	1	4	3	1.6	_	Mitigation: Dedicate more resources than					
					expected.	CS than					
Revised	Revised Impact	t		Revised	ised Owner Actions	Actions					
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions					
Low	1	2	2	0.7	Project Manager	Increase the number of control meetings. Allocate more human resources in delayed					
Canadam. I						tasks.					

### Secondary Risks:

Description of the risk that arise out of the response strategies taken to address the risk

#### **Residual Risks:**

Description of the remaining risk after response strategies

Contengency Plan:	Contengency Funds:
Contengency rian.	Funds needed to protect
	the budged from
	overrun
	Contengency Time:
	Time needed to protect
	the schedule from
	overrun

#### **Comments:**

Any other information on the risk, the status of the risk, or response strategies.

Table 3.6.1: Risk 1 data sheet



Risk-ID:	Risk Descriptio	n:							
R.2	Inaccurate cost forecast: The financial predictions could be wrong or								
	different issues may occur increasing the total cost of the project.								
Status:	Risk Cause:								
Open or	Description of th	ne circumstai	nces or d	rivers that	are the source	of the			
Closed	risk								
D 1 1:1:	Impact			_	_				
Probability	Scope/Quality	Schedule	Cost	Score	Responses				
High	3	2	4	2.6	Transfer: Co	nsider new			
					funding sour	ces and			
					revise the fin	ancial			
					   management	plan.			
Revised	Revised Impact	t	I	Revised	-				
Probability	Scope/Quality		Cost	Score	Owner	Actions			
Medium	2	2	2	1.2	Project	Highly			
					Manager	periodical			
					and	cost and			
					Financial	expense			
					Manager	controls.			
Secondary I	Risks:		<u> </u>	I	_	1			
Description of	of the risk that ari	se out of the	respons	e strategies	taken to addı	ess the			
risk			·						
Residual Ris	sks:								
Description of	of the remaining ri	isk after resp	onse stra	ategies					
<u> </u>		<u> </u>			Contengenc	y Funds:			
Contengence	y Plan:				Funds neede	d to protect			
					the budged f	•			
					overrun				
					Contengenc	y Time:			
					Time needed	-			
					the schedule	•			
					overrun				

Table 3.6.2: Risk 2 data sheet

Any other information on the risk, the status of the risk, or response strategies.



Risk-ID:	Risk Description	n:								
R.3	Lack of communication: The absence of a proper communication									
	method or channel might affect the quality of the product, the									
	fulfilment of the	deadlines or	a good	coordinatio	n between me	mbers				
	and departments	S.	_							
Status:	Risk Cause:									
Open or	Description of th	ne circumstai	nces or d	rivers that	are the source	of the				
Closed	risk									
	Impact			_	_					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
High	3	4	3	2.6	Avoidance: I	Periodical				
O					meetings and	d use of				
					collaborative					
Revised	Revised Impact	•		Revised						
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Low	1	2	1	0.5	Project	Impart				
	_		_		Manager	communicati				
					secretary	skills				
					Secretary	courses to				
						team				
						members.				
						Enhance use				
						of				
						collaborative				
						software.				
Secondary I	Risks.									
-	of the risk that ari	se out of the	respons	e strategies	taken to add	ress the				
risk		se out or the	respons	0 31,4106,00	taken to dad	. 655 1116				
Residual Ris	sks.									
	of the remaining r	isk after resp	onse stra	itegies						
Contengenc	v Plan:				Contengend	cy Funds:				
Contengenc	y Fian.				Funds neede	d to protect				
					the budged	from				
					overrun					
					Contengen	cy Time:				
					Time needed	to protect				
					the schedule	from				
					overrun					
Comments:					l					

Table 3.6.3: Risk 3 data sheet

Any other information on the risk, the status of the risk, or response strategies.



Risk-ID:	Risk Description	n:								
R.4	Lack of technology improvement: The main goal of the project is to									
	innovate but it could happen that the company did not find the way to									
	improve enough	the different	technolo	ogies.						
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the				
Closed	risk									
Probability	Impact			Score	Responses					
1 Tobability	Scope/Quality	Schedule	Cost	Score	Responses					
Low	3	2	1	0.7	Avoidance:	Guarantee				
					the develop	ment with				
					thorough sea	arch of the				
					actual techn	iology.				
Revised	Revised Impact	t		Revised	Owner	Actions				
Probability	Scope/Quality	Schedule	Cost	Score	Owner	ACTIONS				
Very low	2	1	1	0.3	Project	Use all				
					Manager	resources				
						that are				
						needed to				
						guarantee				
						the				
						innovation				
						expected.				
						Propose				
						redesigns				
						and				
						alternatives				
						if needed.				
Secondary F	Risks:									
Description of	of the risk that ari	ise out of the	e respons	e strategies	taken to add	ress the				
risk										
Residual Ris	sks:									
Description of	of the remaining r	isk after resp	onse stra	ategies						
Contengenc	v Plan:				Contengen	cy Funds:				
Contengenc	y Fiaii.				Funds neede	ed to protect				
					the budged	from				
					overrun					
					Contengen	cy Time:				
					Time neede	d to protect				
					I					
					the schedule	e from				

Comments:

HARP other information on the risk, the status & the risk, or response strategies.



Risk-ID:	Risk Description	n:								
R.5	Lack of access to project needed information: Discovering new									
	technologies imp	lies working	with lead	ling-edge s	cience. It could	d occur				
	that the team does not have access to the last improvements or patents									
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the				
Closed	risk									
D 1 1 1111	Impact			_						
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Very Iow	2	2	2	0.4	Avoidance: A	previous				
,					accurate rese	•				
					needed before	e the				
					development					
					project.					
Revised	Revised Impact			Revised	p. system					
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Very low	1	1	2	0.3	The	Maintain				
very low	-	-	-		manager of	contact				
					the	with				
					corresponding	-				
					department	and				
					иерагипени					
						technologica				
						centers to				
						be up to				
						date of last				
						technologica				
						improvement				
Secondary F										
Description of	of the risk that ari	se out of the	e response	e strategies	taken to addr	ess the				
risk										
Residual Ris	sks:									
Description o	of the remaining r	isk after resp	onse stra	itegies						
Contengenc	v Plani				Contengenc	y Funds:				
Contengenc	y i iaii.				Funds needed	to protect				
					the budged fi	rom				
					overrun					
					Contengenc	y Time:				
					Time needed	to protect				
					the schedule	from				

**Comments:** 

Any other information on the risk, the status of the risk, or response strategies.



Risk-ID:	Risk Description:									
R.6	Low team motivation: The team could lose motivation, which would									
	lead the project	lead the project to take more time and costs to be completed.								
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the				
Closed	risk									
D., a b. a b. i lita	Impact			Score	D					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Medium	3	5	1	1.4	Acceptance:	Personal				
					control and t	eam				
					building proj	ects.				
Revised	Revised Impact	:		Revised	Owner	Actions				
Probability	Scope/Quality	Schedule	Cost	Score	Owner	ACTIONS				
Low	2	3	1	0.7	Human	Interview				
					Resources	team				
					Manager	members to				
						know their				
						level of				
						satisfaction				
						with their				
						work and				
						request for				
						their				
						suggestions				
						to improve				
						their				
						motivation.				

### **Secondary Risks:**

Description of the risk that arise out of the response strategies taken to address the risk

#### **Residual Risks:**

Description of the remaining risk after response strategies

Contengency Plan:	<b>Contengency Funds:</b>
	Funds needed to protect
	the budged from
	overrun
	Contengency Time:
	Time needed to protect
	the schedule from
	overrun

#### **Comments:**

Any other information on the risk, the status of the risk, or response strategies.



Risk-ID:	Risk Description	n:								
R.7	Unsuccessfully quality control: The quality of some component, produc									
	or deliverable ma	or deliverable may not be as it is expected and established in the								
	acceptance criteria.									
Status:	Risk Cause:									
Open or	Description of the circumstances or drivers that are the source of the									
Closed	risk									
D 1 1	Impact		Score	Danamana						
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Low	4	2	2	1	Mitigation: Improve or					
					increase the	e quality				
					controls.					
Revised	Revised Impact	t	•	Revised	O	A a t :				
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Low	2	1	2	0.7	Quality	Use higher				
					Manager	qualified				
						personnel,				
						and buy				
						better				
						quality				
						control				
						resources.				
Secondary I	Risks:									
_	of the risk that ari	se out of the	e respons	se strategies	taken to add	dress the				
risk										
Residual Ris	sks:									
Description of	of the remaining r	isk after resp	onse str	ategies						
·		<u>'</u>			Contenger	ncy Funds:				
Contengend	cy Plan:				Funds needed to protect					
					the budged	•				
					overrun					
					Contenger	ncy Time:				
					_	ed to protect				
				the schedule from						
					overrun					
					l					
Comments:										

Table 3.6.7: Risk 7 data sheet



Risk-ID:	Risk Description:						
R.8	Conflicts between members: There could be a disagreement over the						
	project issues between executive members.						
Status:	Risk Cause:						
Open or	Description of th	ne circumsta	nces or d	rivers that	are the sourc	e of the	
Closed	risk						
Probability	Impact						
	Scope/Quality	Schedule	Cost	Score	Responses		
High	2	4	2	1.9	Acceptance	: Personal	
					conflicts res	solution	
					meetings.		
Revised	Revised Impact	Revised Impact					
Probability	Scope/Quality		Cost	Revised Score	Owner	Actions	
Medium	1	2	2	1	Project	Encourage	
	_	_	-	_	Manager	communicatio	
						among team	
						members.	
						Look for	
						possible causes of	
						conflicts.	
						Establish	
						teambuilding	
						activities.	
Secondary I							
-	of the risk that ari	se out of the	e respons	se strategies	s taken to add	dress the	
risk							
Residual Ri	sks:						
Description of	of the remaining r	isk after resp	onse str	ategies			
Contengend	ry Plan:				Contengen	cy Funds:	
Contengent	y i iaii.				Funds needed to protect		
					the budged from		
					overrun		
					Contengen	ıcy Time:	
					Time needed to protect		
					the schedule from		
					overrun		
Comments:					l		
	formation on the	rick the stat	us of the	rick or red	snonse strate	rioc	

Table 3.6.8: Risk 8 data sheet



Risk-ID:	Risk Description:							
R.9	Infeasible design: The design could turn out to be excessively co							
	not possible to be built.							
Status:	Risk Cause:							
Open or	Description of the circumstances or drivers that are the source of the							
Closed	risk							
Probability	Impact			Score	Danamana			
	Scope/Quality	Schedule	Cost	Score	Responses			
Low	2	4	4	1.4	Transfer: Periodical			
					reviews with experts and managers.			
Revised	Revised Impact	t		Revised	0	A -4:		
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions		
Very low	1	2	4	0.5	Engine	Follow the		
					Department	specified		
					Manager	design		
						standards.		
						Stick to the		
						available		
						technology.		
<b>Secondary I</b> Description or risk	<b>Risks:</b> of the risk that ari	se out of the	e respons	se strategies	taken to addr	ess the		
Residual Ris								
Description of	of the remaining r	isk after resp	onse str	ategies	I _			
Contengend	y Plan:				Contengency Funds:			
J					Funds needed	•		
					the budged f	rom		
					overrun			
					Contengenc	•		
					Time needed	•		
					the schedule from			
					overrun			
Comments:								
Any other in	formation on the	risk, the stat	us of the	e risk, or res	sponse strategi	es.		

Table 3.6.9: Risk 9 data sheet



Risk-ID:	Pick Description	·n.								
R.10	Risk Description		السيمم طه	الما معام ما السياسية	ilitiaa. Caassits					
K.10	Technologies con	•		-	-					
	vulnerabilities ar		_	ecn projects	s it some gover	nment is				
<b>6</b>	interested in using the technology.									
Status:	<b>Risk Cause:</b> Description of the circumstances or drivers that are the source of the									
Open or	· ·	ne circumstai	nces or d	rivers that	are the source	of the				
Closed	risk				Γ					
Probability	Impact Scope/Quality	Schedule	Cost	Score	Responses					
High	4	2	2	2.1	Transfer: Ch	ack for				
liigii	4			2.1	possible secu					
					problems dur	-				
					development	•				
					specialized co					
Revised	Revised Impact									
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Low	2	2	2	0.8	Engineering	Establish				
		_	_		Department	regular				
					Manager	contact				
						with				
						outsourced				
						companies				
						responsible				
						for				
						technological				
						safety.				
Secondary I	Risks:					Sarety.				
	of the risk that ari	ise out of the	e respons	e strategies	taken to addr	ess the				
risk										
Residual Ris	sks:									
	of the remaining r	isk after resp	onse stra	ategies						
Contengend	sy Dian:	·			Contengenc	y Funds:				
Contengent	y Fiaii.				Funds needed	to protect				
					the budged f	rom				
					overrun					
					Contengenc	y Time:				
					Time needed	to protect				
					the schedule	from				
					overrun					
Comments:					1					
Any other in	formation on the	risk, the stat	us of the	risk, or res	sponse strategi	es.				

Table 3.6.10: Risk 10 data sheet



Risk-ID:	Risk Description	n:				
R.11	Organization Iss	ues: The pro	ject coul	d be not we	ell organized ir	terms of
	timing, activities	s, etc. and th	ne schedu	ıle may be	always changir	ng.
Status:	Risk Cause:					
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the
Closed	risk					
Duchahilitu	Impact			Score	Doomonoos	
Probability	Scope/Quality	Schedule	Cost	Score	Responses	
Very High	3	4	3	3.2	Transfer: As	k for help
					from an exte	ernal
					company spe	ecialized in
					project mana	agement.
Revised	Revised Impact	t		Revised	0	A =4: = =
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions
Medium	2	2	2	1.2	Project	Establish
					Manager	weekly
						meetings
						between the
						department
						responsible.
						Enhance the
						use of
						organization
						software.
Secondary I	Risks:					
Description of	of the risk that ari	se out of the	e respons	e strategies	taken to addı	ress the
risk			·	J		
Residual Ris	sks:					
Description of	of the remaining r	isk after resp	onse stra	ategies		
Contengenc	sy Dlan:				Contengend	y Funds:
Contengenc	y Fian.				Funds neede	d to protect
					the budged f	rom
					overrun	
					Contengeno	y Time:
					Time needed	to protect
					the schedule	from
					overrun	
Comments:						

Table 3.6.11: Risk 11 data sheet



Risk-ID:	Risk Descriptio	n:				
R.12	Stakeholder dese	ertion: The a	bandonn	nent of a st	akeholder coul	d occur
	for several reaso	ns, leaving th	ne projec	t without it	s contribution	
Status:	Risk Cause:					
Open or	Description of th	ne circumstai	nces or d	rivers that	are the source	of the
Closed	risk					
D 1 1 1111	Impact			_	_	
Probability	Scope/Quality	Schedule	Cost	Score	Responses	
Low	2	4	3	1.2	Acceptance:	Try to
					transfer the	
					responsibilitie	es to
					another stake	eholder or
					contract a ne	ew one.
Revised	Revised Impact	<u> </u>	l	Revised		
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions
Very low	1	2	2	0.3	Project	An in-depth
					Manager	research of
						alternatives
						to the
						current
						members
						would allow
						fast
						solutions.
Secondary I	Risks:					3014110113.
-	of the risk that ari	se out of the	respons	e strategies	taken to addr	ess the
risk	or the risk that are	se out or the	respons	e strategies	taken to dadi	ess the
Residual Ris	sks:					
	of the remaining r	isk after resp	onse stra	ategies		
<del>-</del>					Contengenc	y Funds:
Contengence	cy Plan:				Funds needed	-
					the budged f	· ·
					overrun	
					Contengenc	y Time:
					Time needed	-
					the schedule	-
					overrun	5
Comments:					1 34611411	

Table 3.6.12: Risk 12 data sheet



Risk-ID:	Risk Description	n:					
R.13	Competitors app	earance: Th	e emerge	ence of othe	er companies t	hat could	
	offer the same p	roduct. This	could m	odify the b	enefits of our	company.	
Status:	Risk Cause:						
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the	
Closed	risk						
D., . b . b :11:4	Impact			C	D		
Probability	Scope/Quality	Schedule	Cost	Score	Responses		
Very low	4	1	4	0.7	Acceptance:		
					Improvement	t of the	
					quality/price	ratio of the	
					service.		
Revised	Revised Impact	ţ		Revised	0		
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions	
Very Low	3	1	3	0.5	Quality	Improve the	
					Manager	image that	
						HIRO gives	
						to the	
						European	
						Union. Use	
						our	
						resources	
						more	
						efficiently.	
Secondary I	Risks:						
-	of the risk that ari	se out of the	e respons	e strategies	taken to addı	ress the	
risk			•	J			
Residual Ris	sks:						
Description of	of the remaining r	isk after resp	onse stra	ategies			
· ·		<u> </u>			Contengenc	cy Funds:	
Contengence	cy Plan:				Funds neede	d to protect	
					the budged f	rom	
					overrun		
					Contengeno	y Time:	
					Time needed	l to protect	
					the schedule	•	
					overrun		
Comments:					1		

Table 3.6.13: Risk 13 data sheet



Risk Description	n:									
Delay in externa	l deliverables	: If the p	products the	at the compan	y orders					
do not arrive at	the predicted	d time al	the proces	ses can experie	ence a					
delay, increment	ing costs.									
Risk Cause:	Risk Cause:									
Description of th	ne circumstai	nces or d	rivers that	are the source	of the					
risk										
Impact				_						
	Schedule	Cost	Score	Responses						
2	4	2	1.4	Acceptance:	Control the					
				· ·						
				1						
Revised Impact	 t		Revised	_	_					
		Cost	Score	Owner	Actions					
2	1	2	0.7	Sales	Buy the					
				Department	resources in					
					advance and					
					keep them					
					in stock.					
Risks:			I	<u> </u>						
	se out of the	e respons	e strategies	taken to addr	ess the					
		•	Ü							
sks:										
of the remaining r	isk after resp	onse stra	ategies							
				Contengenc	y Funds:					
y Plan:				Funds needed	to protect					
					-					
				overrun						
				Contengenc	y Time:					
				Time needed	-					
				the schedule	•					
				overrun						
				l						
	Delay in externa do not arrive at delay, increment Risk Cause: Description of the risk Impact Scope/Quality 2  Revised Impact Scope/Quality 2	do not arrive at the predicted delay, incrementing costs.  Risk Cause:  Description of the circumstantisk  Impact  Scope/Quality  Revised Impact  Scope/Quality  Schedule  2  1  Risks:  of the risk that arise out of the circumstantisk  Of the remaining risk after response.	Delay in external deliverables: If the producted time all delay, incrementing costs.  Risk Cause:  Description of the circumstances or drisk  Impact  Scope/Quality Schedule Cost  2 4 2  Revised Impact  Scope/Quality Schedule Cost  1 2  Risks:  of the risk that arise out of the response strategies of the remaining risk after response strategies of the remaining ris	Delay in external deliverables: If the products the do not arrive at the predicted time all the process delay, incrementing costs.  Risk Cause:  Description of the circumstances or drivers that risk  Impact  Scope/Quality Schedule Cost  2 4 2 1.4  Revised Impact  Scope/Quality Schedule Cost  2 1 2 0.7  Risks:  of the risk that arise out of the response strategies of the remaining risk after response strategies	Delay in external deliverables: If the products that the company do not arrive at the predicted time all the processes can experied delay, incrementing costs.  Risk Cause:  Description of the circumstances or drivers that are the source risk  Impact Scope/Quality Schedule Cost  2					

Table 3.6.14: Risk 14 data sheet



Risk-ID:	Risk Description	n:								
R.15	Economical mark	ket issues: D	uring the	period of	time that the <sub>l</sub>	project is				
	executed, there	executed, there could be large-scale economic crisis.								
Status:	Risk Cause:									
Open or	Description of the circumstances or drivers that are the source of the									
Closed	risk									
Duahahilia.	Impact			Score	Desmanas					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Low	2	1	4	1.1	Acceptance:	Control				
					cost evolution	n due to				
					external char	iges				
					throughout t	he project.				
Revised	Revised Impact	<u> </u>	I	Revised						
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Low	2	1	3	0.9	Sales	Reconsider				
					Department	budget				
					Manager	estimations				
						with marke				
						variations.				
Secondary F	Risks:		I							
Description of	of the risk that ari	se out of the	respons	e strategies	taken to addr	ess the				
risk										
Residual Ris	sks:									
Description of	of the remaining r	isk after resp	onse stra	ategies						
C	DI				Contengenc	y Funds:				
Contengenc	y Pian:				Funds needed	to protect				
					the budged f	rom				
					overrun					
					Contengenc	y Time:				
					Time needed	to protect				
					the schedule	from				
					overrun.					

Table 3.6.15: Risk 15 data sheet



Risk-ID:	Risk Description	n:								
R.16	Components or	row material	quality:	The ordere	d equipment o	r				
	materials could not be in good condition, delaying processes and									
	increasing costs.									
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the				
Closed	risk									
Duobobilitu	Impact			Score	Basmanasa					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Low	4	2	3	1.2	Mitigation: F	lave				
					exhaustive ar	nd regular				
					quality contro	ols to avoid				
					problems in o	components				
					in the final to	est.				
Revised	Revised Impact	į		Revised	Owner	Actions				
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Low	2	1	2	0.7	Software	Establish				
					Engineering	quality				
					Manager	inspections				
						of the				
						acquired				
						materials.				
Secondary I	Risks:									
Description of	of the risk that ari	se out of the	e respons	e strategies	taken to addr	ess the				
risk										
Residual Ris	sks:									
Description of	of the remaining r	isk after resp	onse stra	ategies						
C	DI				Contengenc	y Funds:				
Contengenc	y Pian:				Funds needed	d to protect				
					the budged f	rom				
					overrun					
					Contengenc	y Time:				
					Time needed	to protect				
					the schedule	from				
					overrun					
Comments:										
	formation on the									

Table 3.6.16: Risk 16 data sheet



communication

## 4 | Plan management

This section stands for an accurate description of the communication management inside the DEOS-UD Project, as communication is one of the keys to a successful development of any project. In the first insight, the different roles and responsibilities will be described as well as the different relations between people, teams and committees inside DEOS-UD. Along with the detailed roles and responsibilities of teams and committees, every member's specific task inside them will be mentioned. Secondly, the different communication procedures will be carefully detailed to provide the maximum information possible in order to allow a correct development of meetings and communications between people and departments, thus increasing the overall project efficiency. The section will end with a communication management plan matrix, which will summarize all the previously descripted procedures by mapping all the communication requirements of the project.

### 4.1 Participants roles and responsabilities

As previously stated, this section will provide the reader with the roles and responsibilities of the different DEOS-UD staff in terms of the Communication Plan. In this section, different committees and teams will also be described.

#### **Steering Committee**

The steering committee will provide DEOS-UD with solutions to problems along with strategic command in order to ensure a correct and efficient development of the project. As this team's role is of extreme importance when it comes to the project's success, a careful selection of its representatives must be performed. The steering committee will be composed of the members with key roles in DEOS-UD project; these members are listed in the following table, extracted from the first project charter.



Role	Resource Name	Organization	Responsibilities
Project Sponsor	Luís Manuel Pérez Llera	European Commission	Supervise the project.
Project Manager	Pol Fontanes Molina	HIRO	Manage the project.
Project Secretary	Sílvia González García	HIRO	Administrate the internal documents and information of the group.
Financial Manager	Santiago Lopezbarrena Arenas	HIRO	Estimate and control the costs of the project.
Stakeholders & Procurement Manager	Eva María Urbano González	HIRO	Identify the stakeholders of the project and manage and control their engagement.  Plan, conduct and control the procurements of the project.
Scope & Time Manager	Marina Pons Daza	HIRO	Define and control the scope and deadlines of the project.
Risk Manager	Borja Calderón Rosario	HIRO	Identify and manage the possible risks of the project.
Quality Manager	Guillermo Escartín Vivancos	HIRO	Control that the quality requirements of the project are met.
Technical Managers	David Pérez Sánchez, Hamza Nachett, Laura Pla Olea	HIRO	Analyse and control the technical aspects of the project.
Marketing & Communications Managers	Albert Herrando Moraira, María De Benedicto Barba	HIRO	Promote the project and its final product. Search for possible customers. Ensure communication between the different members of the group.

Table 4.1.1: Roles and responsibilities

As described, the team will not only work as a steering committee but also as an advisory committee, for this reason it will be composed by multiple consortium members that will act as advisors in diverse fields. The key roles developed by the steering committee are detailed below.

• Take and implement management decisions that affect a significant part of the



stakeholders.

- Take action in important schedule delays as well as cost overruns by modifying resources assigned to departments, staff planning, or anything necessary to redirect situations that endanger a correct development of the project.
- Offer leadership, guidance and support to problems that smaller groups have not been able to solve by themselves.
- Enhance communication skills along with communications procedures in order to avoid communication-related problems.

#### **Project Manager**

DEOS-UD Project manager, Pol Fontanes Molina, is the person in charge of assuring that every aspect of the project is functioning as planned. He is ought to detect, communicate and correct any deviations (schedule variances, cost overruns and scope changes) from the original plans. The decisions taken by the PM, will be communicated directly to the steering committee, members of which will communicate to the rest of the staff.

#### **Advisory committee**

Participants in the advisory committee are detailed here.

- Research and Development assessors:
  - Matthew Perren (Airbus Defence and Space GmbH)
  - Ismael López (Deimos Space)
- Legal and Business Assessor
  - Oliver Heinrich (BHO Legal)
- Application collaborators
  - Jean François Rapp (ICUBE-SERTIT)
  - Vessela Samoungi (ReSAC)
- Development and Application collaborator
  - Steven Krekels (VITO nv)

The function of this committee will be that of providing tailored assistance in anything related with the project in order to solve issues and avoid risks during DEOS-UD development. Given



the importance of this group itself, its participants will meet with the steering group regularly to ensure a correct use and implementation of their know-hoy inside DEOS-UD.

#### **Business Project Team**

This team will be directed by Santiago Lopezbarrena Arenas, the financial manager, and is in charge of assuring an economical resources correct management by providing careful tracing in the use of the budget along with a proper staff training in means of economical performance. This team is also ought to communicate the project manager with the latest information on earned value management parameters in order for the latter to know at what point exactly the development of the project is found.

#### **Technical Project Team**

The Technical Project Team, conducted by its three leaders David Pérez Sánchez, Hamza Nachett and Laura Pla Olea, will be in charge of analysing and controlling every single technical aspect of the project. The team itself must assure that everything done during DEOS-UD project development meets the requirements of the contract by successfully following all de documentation and activities received from the overall project staff, including contractors and subcontractors as well. As part of its essential activities, the Technical Project Team is expected to resolve and to give advice in any inconveniences or issues that may appear during the course of the project. The Technical Project Team's leaders will be part of the Steering group and will report regularly to the project manager on topics that concern the technical progresses of DEOS-UD project, by having gathered all the information related to this subject from the different departments developing such activities.

#### Oversight

For the sake of a reliable accomplishment of the project's goals along with a recognized meeting of the contract's specifications, an oversight agency will actively work with DEOS-UD mostly when different milestones are achieved and a certification in the results is needed. The company auditing DEOS-UD results will be Bureau Veritas and its specific responsibilities are detailed here.

- Auditing a correct implementation of the different requirements of the contract regarding privacy policies with data management.
- Auditing a correct implementation of the different requirements of the contract regarding privacy policies with data management.
- Auditing a correct implementation of the different requirements of the contract regarding privacy policies with data management.



Given that an auditory is an external agency, it has not been included the advisory team; yet its collaboration inside the project is key to a successful accomplishment of the project's goals.

### 4.2 Communication process

This section approaches the way in which the information is transmitted. In order to communicate efficiently it is important to bear in mind who are we addressing to. The communication process can be divided into three main categories: informal communications, formal communications, and external communications.

#### 4.2.1 Informal

Informal communications consist of e-mail, conversations, or phone calls and serve to supplement and enhance formal communications. Due to the varied types and ad-hoc nature of informal communications, they are not discussed in this plan.

#### **4.2.2** Formal

The DEOS-UD Project will engage in various types of formal communication. The general types and their purpose are described below as "Status Meetings" and "Status Reports".

#### 4.2.2.1 Status Meetings

There are five basic types of status meetings for the DEOS-UD Project:

- Status meetings internal to the DEOS-UD business team to discuss assignments, activities, and to share information
- Status meetings and reports between the DEOS-UD business team, and the technical project team
- Advisory Committee meetings with the project stakeholders, and project manager to review progress, risks, and issues
- Status meetings and reports between the DEOS-UD project manager and the steering committee
- Status meetings and reports to stakeholders, such as oversight agencies



#### 4.2.2.2 Status Reports

A variety of status reports will be produced during the project. The status reports will be produced on regular intervals to provide stakeholders project information on the status and progress of the DEOS-UD project. At a minimum the reports will contain:

- Project status on major activities
- Project schedule
- Budget and cost tracking
- Status of issues and risks
- Health status
- Status of action items, if applicable.
- Future or planned activities

The intent of the status reports is to inform stakeholders of the project's progress and keep them actively involved in the project. The information provided will contain enough detail to allow stakeholders to make informed decisions and maintain oversight of the project.

#### 4.2.3 External Communication

Although internal communication is very important for the proper development of the project, we must not forget that external communication is also crucial in a project of this magnitude. Having a good dissemination plan involves explaining how the outcomes of the project will be shared with stakeholders, relevant institutions, organisations, and individuals.

In order to achieve the proposed objectives in terms of external communication, the process of dissemination will be focused in two different ways depending on whether we want to reach the general public or aerospace sector.

#### 4.2.3.1 General public

It is important to find an adequate channel to reach the less specialized public in the aeroespace field. In order to achieve the maximum diffusion of the project in this sector, the following resources will be used.



- Social Networking. Social networks are the best way to reach the widest possible audience. Posting regularly is also crucial to keep people interested in the project.
   Some of the platforms that will be used during the project development are: Twitter,
   Facebook and Instagram. There will be at least one update a week in order to keep people informed of the progress of the project.
- Website. A project website is one of the most versatile dissemiation tools and will help reaching people unfamiliar with social networks. It can contain information intended to different profiles. As in the previous case, it has to be kept updated.

#### 4.2.3.2 Aerospace sector

#### PONER CUANTOS VAMOS HA HACER O ALGÚN EJEMPLO?

- Trade shows. Trade shows, fairs and exhibitions are a great way to get in close contact
  with people from other regions and countries that we would ordinarily never be face to
  face with. They are also helpfull in terms of finding new prospects, nurture current client
  relationships and stay up to date on the latest industry developments.
- Conferences. National and international conferences will help sharing the achievements of the project with specialists of the field.
- Journal Articles. To promote project ideas and results in scientific research.

## 4.3 Communication management plan matrix

Communication Type	Objective of Communication	Medium	Frequency	Audience	Owner	Deliverable	Format
Kickoff Meeting	Introduce the project team and the project. Review project objectives and management approach	Face to Face	Once	Project Sponsor, Project Team, Stakeholders	Project Manager	Agenda, Meeting Minutes	Soft copy archived on SharePoint site and project website
Internal Business Status Meetings	Discuss assignments, activities and sharing information	Face to Face	Weekly	Business Team	Financial Manager	Agenda, Meeting Minutes	Soft copy archived on SharePoint site and project website
Technical and Business Status Meetings and Reports	Discuss assignments, activities, sharing information and reporting the project status	Face to Face	Weekly	Project Manager, Business Team, Technical Team, Project Secretary	Project Manager	Agenda, Meeting Minutes, Status Reports	Soft copy archived on SharePoint site and project website



Advisory	Review progress,	Face to Face	Monthly	Adivsory	Project	Agenda,	Soft copy
Committe	risks and issues			Committee,	Manager	Meeting	archived on
Meetings				Project		Minutes	SharePoint site
				Stakeholders,			and project
				Project			website
				Manager,			
				Project			
				Secretary			
Steering	Enhance	Face to Face	Monthly	Steering	Project	Agenda,	Soft copy
Committee	communication and			Committee,	Manager	Meeting	archived on
Status Meetings	coordination of the			Project		Minutes	SharePoint site
	project			Manager,			and project
				Project			website
				Secretary			
Status Meetings	Report the status	Face to Face	Monthly	Stakeholders,	Project	Agenda,	Soft copy
and Reports to	of the project	or Video		Project	Manager	Meeting	archived on
Stakeholders	including activities,	Conference		Manager,		Minutes,	SharePoint site
	progress, costs and			Project		Status	and project
	issues			Secretary		Reports	website



Project Status	Provide	Email	Monthly	Project	Stakeholder	Project	Soft copy
Reports	Stakeholders			Stakeholders,	and	status,	archived on
	information on the			Stakeholder	Procurement	schedule,	SharePoint site
	status and progress			and	Manager	budget and	and project
	of the project			Procurement		cost	website
				Manager,		tracking,	
				Project		status of	
				Manager		issues and	
						riskes,	
						health	
						status,	
						status of	
						action	
						items,	
						future or	
						planned	
						activies	
Social	Share any updates	Facebook,	Weekly	General Public	Marketing	Online	Online
Networking	on the project	Twitter,			and	Posts	
		Intagram			Communicat	ion	
					Manager		
Website	Contain varied	Website	Updated	General Public	Marketing	Online	Online
	information about		with any		and	Posts	
	the project		change		Communicat	ion	
					Manager		



Trade Shows	Face to face	On site stands	Scheduled	Potential	Marketing	None	Face to Face
	contact with			Customers,	and		
	potential customers			Genera Public	Communicat	ion	
	as well as finding			and Industry	Manager		
	new prospects,			Professionals			
	nurture client						
	relationshps and						
	stay up to date						
	with lastes						
	developments						
Conferences	Sharing	Conferences	Scheduled	Industry	Project	Presentation	Face to Face
	achievements with			Professionals	Manager		
	industry specialists						
Journal Articles	Promoting project	Digital and	When	Potential	Project	Journal	Hard Copy
	ideas, concepts and	Written	Available	Customers,	Manager	Article	
	results in scientific	platforms		General Public			
	and applied			and Industry			
	research			Professionals			
	communities and						
	getting feedback						
	from relevant						
	stakeholders						

Table 4.3.1: Revised risk identification and assessment





# 5 | Bibliography

- [1] AAFP. Basics of Quality Improvement Practice Management.
- [2] Lean Solutions. ¿Que es Six Sigma?