





Project DEOS-UD

Disruptive Earth Observation Sensing for Urban Developement

Deliverable 3 Procurement, Quality, Risks and Communication Management

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Group: G3-220310-PM-P2018 **Delivery date:** 14-05-2018



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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 follo 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:

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

where:

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



- ullet Wi represents the importance or weight (from 0 to 1) of each of the impact types and it is satisfied that Wscope + Wschedule + Wcost = 1
- Ii 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·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	D
Risk ID	Risk Statement	Probability	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





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D: 1 ID	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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3.6 Risk data sheet

Risk-ID:	Risk Description	n:								
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 all the schedule of the project.									
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the				
Closed	risk									
Duahahilitu	Impact			Score	Dosmanasas					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Medium	1	4	3	1.6	Mitigation: [more resourc expected.					
Revised	Revised Impact	ţ		Revised	Owner	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 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 Fian.	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 Descriptio	n:								
R.2	Inaccurate cost f	forecast: The	e financia	l prediction	is could be wr	ong or				
	different issues n	nay occur ind	creasing t	the total co	st of the proj	ect.				
Status:	Risk Cause:									
Open or	Description of th	ne circumstar	nces or d	rivers that	are the source	of the				
Closed	risk									
Probability	Impact			Score	Docnoncos					
riobability	Scope/Quality	Schedule	Cost	Score	Responses					
High	3	2	4	2.6	Transfer: Co	nsider new				
					funding sour	ces and				
					revise the fir	nancial				
					managemen	t plan.				
Revised	Revised Impact	t .		Revised	0	A -4:				
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions				
Medium	2	2	2	1.2	Project	Highly				
					Manager	periodical				
					and	cost and				
					Financial	expense				
					Financial Manager	expense controls.				
Secondary I	Risks:					· .				
_	Risks: of the risk that ari	se out of the	e respons	e strategies	Manager	controls.				
-		se out of the	e respons	e strategies	Manager	controls.				
Description of	of the risk that ari	se out of the	e respons	e strategies	Manager	controls.				
Description of risk Residual Ris	of the risk that ari				Manager	controls.				
Description of risk Residual Rist Description of	of the risk that ari sks: of the remaining ri				Manager	controls.				
Description of risk Residual Ris	of the risk that ari sks: of the remaining ri				Manager taken to add	controls. ress the				
Description of risk Residual Rist Description of	of the risk that ari sks: of the remaining ri				Manager taken to add	controls. ress the cy Funds:				
Description of risk Residual Rist Description of	of the risk that ari sks: of the remaining ri				Manager taken to add Contengence Funds neede	controls. ress the cy Funds:				
Description of risk Residual Rist Description of	of the risk that ari sks: of the remaining ri				Manager taken to add Contengence Funds needed the budged	controls. ress the cy Funds: ed to protect from				
Description of risk Residual Rist Description of	of the risk that ari sks: of the remaining ri				Contengence Funds needed the budged overrun	controls. ress the cy Funds: d to protect from cy Time:				
Description of risk Residual Rist Description of	of the risk that ari sks: of the remaining ri				Contengence Funds needed the budged overrun Contengence	controls. ress the cy Funds: d to protect from cy Time: d to protect				

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:									
R.3	Lack of commur	nication: The	e absence	of a prope	r communicat	ion				
	method or chan	nel might aff	ect the q	uality of th	e product, the	2				
	fulfilment of the deadlines or a good coordination between members									
	and departments	S.								
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the				
Closed	risk									
D 1 1335	Impact			_	_					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
High	3	4	3	2.6	Avoidance: I	Periodical				
_					meetings and	d use of				
					collaborative					
Revised	Revised Impact	<u> </u>	1	Revised						
Probability	Scope/Quality		Cost	Score	Owner	Actions				
Low	1	2	1	0.5	Project	Impart				
					Manager	communicativ				
					secretary	skills				
						courses to				
						team				
						members.				
						Enhance use				
						of				
						collaborative				
						software.				
Secondary I	Risks:									
Description of	of the risk that ari	se 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:				Contengend	cy Funds:				
Containgaile	., . iaiii				Funds neede	d to protect				
					the budged f	from				
					overrun					
					Contengend	Time:				
					Time needed	to protect				
					the schedule	from				
					overrun					
Comments:					•					

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								
D 1 1:1:	Impact			_	_				
Probability	Scope/Quality	Schedule	Cost	Score	Responses				
Low	3	2	1	0.7	Avoidance: (Guarantee			
					the developr	nent with			
					thorough sea	arch of the			
					actual techn	ology.			
Revised	Revised Impact	t		Revised	0	A -+!			
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions			
Very Iow	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 I	Dicker					ii iieeded.			
-	of the risk that ari	se out of the	resnons	e strategies	taken to add	rocc tha			
risk	or the risk that all	Jo out of the	, respons	o otrategies	tanen to add				
Residual Ris	sks:								
	of the remaining r	isk after resp	onse stra	ategies					
<u> </u>				<u> </u>	Contengend	cy Funds:			
Contengenc	y Plan:				Funds neede	=			
					the budged t	from			
					overrun				
					Contengend	cy Time:			
					Time needed	-			
					the schedule	•			
					overrun				
Comments:					<u> </u>				

Table 3.6.4: Risk 4 data sheet



Risk-ID:	Risk Descriptio	on:			·	·		
R.5	Lack of access to project needed information: Discovering new							
	technologies imp	olies working	with lead	ding-edge s	cience. It could	d occur		
	that the team do	oes not have	access to	the last in	nprovements o	r patents.		
Status:	Risk Cause:							
Open or	Description of th	ne circumstaı	nces or d	rivers that	are the source	of the		
Closed	risk							
Probability	Impact			Score	Responses			
Probability	Scope/Quality	Schedule	Cost	Score	Responses			
Very low	2	2	2	0.4	Avoidance: A	previous		
					accurate resea	arch is		
					needed befor	e the		
					development	of the		
					project.			
Revised	Revised Impact	t	I	Revised	•			
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions		
Very low	1	1	2	0.3	The	Maintain		
-					manager of	contact		
					the	with		
					corresponding	scientific		
					department	and		
						technological		
						centers to		
						be up to		
						date of last		
						technological		
						improvement		
Secondary I	Risks:					mprovement		
-	of the risk that ari	ise out of the	resnons	e strategies	: taken to addr	ess the		
risk	of the risk that an	isc out of the	Capona	c strategies	taken to addi	C33 the		
Residual Ris								
	of the remaining r	ick after recn	onse stra	teries				
Description	The remaining i	isk after resp	01136 3116	itegies	Contengenc	v Eunds:		
Contengend	cy Plan:				Funds needed	-		
						•		
					the budged f	IOIII		
					Contongono	y Time:		
					Contengenc	y i ime:		
					T'	1		
					Time needed	•		
					Time needed the schedule	•		



Risk-ID:	Risk Descriptio	n:								
R.6	Low team motivation: The team could lose motivation, which would									
	lead the project	ead the project to take more time and costs to be completed.								
Status:	Risk Cause:									
Open or	Description of th	ne circumsta	nces or d	lrivers that	are the source	of the				
Closed	risk									
Door by a ballion	Impact			C	D					
Probability	Scope/Quality	Schedule	Cost	Score	Responses					
Medium	3	5	1	1.4	Acceptance:	Personal				
					control and	team				
					building proj	ects.				
Revised	Revised Impact	t		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.				

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:
	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:						
R.7	Unsuccessfully quality control: The quality of some component, product or deliverable may not be as it is expected and established in the acceptance criteria.						
Status:	Risk Cause:						
Open or	Description of th	ne circumsta	nces or d	lrivers that	are the sourc	e of the	
Closed	risk						
Duchahilitu	Impact			Score	Dagmanaga		
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	0	A a t : a :	
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	recnone	se strategies	: taken to ad	dress the	
risk	or the risk that ari	se out or the	respons	oc strategies	taken to ad	aress the	
Residual Ri	eke:						
	of the remaining r	isk after resn	onse str	ategies			
Description	or the remaining r	isk ditter resp	701136 3111	атеріез	Contenger	ncy Funds:	
Contengend	cy Plan:				Contengency Funds: Funds needed to protect		
					the budged	•	
					overrun		
					Contenger	ncy Time:	
					1	_	
					Time needed to protect the schedule from		
					Sinc Schedul	C 110111	
					overrun		
Comments:					overrun		

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 tl	ne circumsta	nces or d	rivers that	are the source	e of the	
Closed	risk						
Dualaalailituu	Impact		Score	D			
Probability	Scope/Quality	Schedule	Cost	Score	Responses		
High	2	4	2	1.9	Acceptance	: Personal	
					conflicts res	solution	
					meetings.		
Revised	Revised Impac	t		Revised	0		
Probability	Scope/Quality	Schedule	Cost	Score	Owner	Actions	
Medium	1	2	2	1	Project	Encourage	
					Manager	communication	
						among team	
						members.	
						Look for	
						possible	
						causes of	
						conflicts.	
						Establish	
						teambuilding	
						activities.	
Secondary I	Risks:	l					
Description of	of the risk that ar	ise out of the	e respons	e strategies	taken to ado	dress the	
risk			-	_			
Residual Ris	sks:						
Description of	of the remaining r	isk after resp	onse stra	ategies			
	.	<u> </u>			Contengen	cy Funds:	
Contengence	cy Plan:				Funds needed to protect		
					the budged	from	
					overrun		
					Contengen	cy Time:	
					Time neede	d to protect	
					the schedule from		
					overrun		
Comments:					ı		
Any other in	formation on the	risk the stat	us of the	risk or res	sponse strates	ries	

Table 3.6.8: Risk 8 data sheet



Risk-ID:	Risk Description	n:						
R.9	Infeasible design: The design could turn out to be excessively costly or							
	not possible to be built.							
Status:	Risk Cause:							
Open or	Description of the circumstances or drivers that are the source of the							
Closed	risk							
Duobobility	Impact			Score	Desmanas			
Probability	Scope/Quality	Schedule	Cost	Score	Responses			
Low	2	4	4	1.4	Transfer: Per	riodical		
					reviews with	experts and		
					managers.			
Revised	Revised Impact	t		Revised	Owner	Actions		
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.		
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				
Contongona	u. Dlam.				Contengenc	y Funds:		
Contengenc	zy Pian:				Funds needed	d to protect		
					the budged f	rom		
					overrun			
					Contengenc	y Time:		
					Time needed	to protect		
					the schedule	from		
					overrun			
Comments:								
Any other in	formation on the	risk, the stat	us of the	risk, or res	sponse strategi	es.		

Table 3.6.9: Risk 9 data sheet



Risk-ID:	Risk Description:							
R.10	Technologies components with security vulnerabilities: Security							
	vulnerabilities are unwanted in high-tech projects if some government is							
	interested in using the technology.							
Status:	Risk Cause:							
Open or	Description of the circumstances or drivers that are the source of the							
Closed	risk							
Duahahilia.	Impact			C	D			
Probability	Scope/Quality	Schedule	Cost	Score	Responses			
High	4	2	2	2.1	Transfer: Ch	eck for		
					possible secu	rity		
					problems dur	ing		
					development	through		
					specialized co	ompanies.		
Revised	Revised Impact	t		Revised				
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:		l					
-	of the risk that ari	ise out of the	e respons	e strategies	taken to addr	ess the		
risk			•	Ö				
Residual Ris	sks:							
Description of	of the remaining r	isk after resp	onse stra	ategies				
·		·			Contengenc	y Funds:		
Contengence	y Plan:				Funds needed	=		
					the budged f	-		
					overrun			
					Contengenc	y Time:		
					Time needed	-		
					the schedule	•		
					overrun			
Comments:					<u> </u>			
	formation on the		C . I					

Table 3.6.10: Risk 10 data sheet



Risk-ID:	Risk Description:							
R.11	Organization Issues: The project could be not well organized in terms of							
	timing, activities, etc. and the schedule may be always changing.							
Status:	Risk Cause:							
Open or	Description of th	ne circumsta	nces or d	rivers that	are the source	of the		
Closed	risk							
5	Impact				Responses			
Probability	Scope/Quality	Schedule	Cost	Score				
Very High	3	4	3	3.2	Transfer: Asl	k for help		
					from an exte	rnal		
					company spe	cialized in		
					project mana	gement.		
Revised	Revised Impact	 [I.	Revised				
Probability	Scope/Quality		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 F	Diokar					software.		
_		so out of the	rocpone	a stratagio	· +akan +a addr	ess the		
risk	of the risk that ari	se out of the	e respons	e strategies	taken to addr	ess the		
	-1							
Residual Ris								
Description of	of the remaining r	isk after resp	onse stra	ategies				
Contengenc	y Plan:				Contengency Funds:			
					Funds needed to protect			
					the budged f	rom		
					overrun			
					Contengenc	-		
					Time needed to protect			
					the schedule	from		
					overrun			
Comments:								

Table 3.6.11: Risk 11 data sheet

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



Risk-ID:	Risk Description:						
R.12	Stakeholder desertion: The abandonment of a stakeholder could occur						
	for several reasons, leaving the project without its contribution.						
Status:	Risk Cause:						
Open or	Description of the circumstances or drivers that are the source of the						
Closed	risk						
5	Impact				_		
Probability	Scope/Quality	Schedule	Cost	Score	Responses		
Low	2	4	3	1.2	Acceptance:	Try to	
					transfer the		
					responsibilitie	es to	
					 contract a ne	ew one.	
Revised	Revised Impact	t	<u> </u>	Revised			
Probability	Scope/Quality	Schedule	Cost	Score	Responses Acceptance: transfer the responsibilitie another stake contract a ne Owner Project Manager Contengenc Funds needed the budged fooverrun	Actions	
Very Iow	1	2	2	0.3	Project	An in-depth	
					Manager	research of	
					J	alternatives	
						to the	
						current	
						members	
						would allow	
						fast	
6						solutions.	
Secondary F						. 1	
-	of the risk that ari	se out of the	e respons	e strategies	taken to addr	ess the	
risk							
Residual Ris							
Residual Ris	sks: of the remaining ri	isk after resp	onse stra	ategies	Cont		
Residual Ris	of the remaining r	isk after resp	onse stra	ategies		-	
Residual Ris Description of	of the remaining r	isk after resp	oonse stra	ategies	Funds needed	d to protect	
Residual Ris	of the remaining r	isk after resp	oonse stra	ategies	Funds needed the budged f	d to protect	
Residual Ris Description of	of the remaining r	isk after resp	onse stra	ategies	Funds needed the budged for overrun	d to protect rom	
Residual Ris Description of	of the remaining r	isk after resp	oonse stra	ategies	Funds needed the budged for overrun	d to protect rom y Time:	
Residual Ris Description of	of the remaining r	isk after resp	oonse stra	ategies	Funds needed the budged for overrun Contengence Time needed	y Time: to protect	
Residual Ris	of the remaining r	isk after resp	oonse stra	ategies	Funds needed the budged for overrun	y Time: to protect	

Table 3.6.12: Risk 12 data sheet



Risk-ID:	Risk Description:						
R.13	Competitors appearance: The emergence of other companies that could						
	offer the same product. This could modify the benefits of our company.						
Status:	Risk Cause:						
Open or	Description of the circumstances or drivers that are the source of the						
Closed	risk						
D 1 1 1111	Impact		_				
Probability	Scope/Quality	Schedule	Cost	Score	Responses		
Very low	4	1	4	0.7	Acceptance	:	
					Improvemer	nt of the	
					quality/pric	e ratio of the	
					service.		
Revised	Revised Impact	t	1	Revised			
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	
Canadam, I	Dialas.					efficiently.	
Secondary I							
-	of the risk that ari	se out of the	e respons	e strategies	taken to add	iress the	
risk							
Residual Ris							
Description (of the remaining r	isk after resp	onse stra	ategies			
Contengend	y Plan:				Contengen	-	
						ed to protect	
					the budged	from	
					overrun	-	
					Contengen	cy Time:	
					l _	1.	
						d to protect	
					Time neede	•	

Table 3.6.13: Risk 13 data sheet



Risk-ID:	Risk Description:							
R.14	Delay in external deliverables: If the products that the company orders							
	do not arrive at the predicted time all the processes can experience a							
	delay, incrementing costs.							
Status:	Risk Cause:							
Open or	Description of the circumstances or drivers that are the source of the							
Closed	risk							
	Impact				_			
Probability	Scope/Quality	Schedule	Cost	Score	Responses			
Medium	2	4	2	1.4	Acceptance:	Control the		
					delivery schedules and			
					change provid			
					necessary.			
Revised	Revised Impact	 [Revised	_			
Probability	Scope/Quality		Cost	Score	Owner	Actions		
Low	2	1	2	0.7	Sales	Buy the		
					Department	resources in		
					Manager	advance and		
						keep them		
						in stock.		
Secondary I	Risks:				<u> </u>			
-	of the risk that ari	se out of the	respons	e strategies	taken to addr	ess the		
risk			•	Ü				
Residual Ris	sks:							
Description of	of the remaining r	isk after resp	onse stra	ategies				
				-	Contengenc	y Funds:		
Contengenc	y Plan:				Funds needed	to protect		
					the budged f			
					overrun			
					Contengenc	y Time:		
					Time needed	-		
					the schedule	•		
					overrun			
Comments:					Overruii			

Table 3.6.14: Risk 14 data sheet



Risk-ID:	Risk Description:						
R.15	Economical market issues: During the period of time that the project is						
	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						
Drobability	Impact			Score	D		
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	t.		Revised	0	A - 1:	
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:						
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			
Contongona	u. Dlam.				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:								
R.16	Components or row material quality: The ordered equipment or								
	materials could	materials could not be in good condition, delaying processes and							
	increasing costs.								
Status:	Risk Cause:								
Open or	Description of the circumstances or drivers that are the source of the								
Closed	risk								
Duahahilia.	Impact			Score	D				
Probability	Scope/Quality	Schedule	Cost	Score	Responses				
Low	4	2	3	1.2	Mitigation: I	Have			
					exhaustive ar	nd regular			
					quality contr	ols to avoid			
					problems in o	components			
					in the final to	est.			
Revised	Revised Impact	t.	ı	Revised	0				
Probability	Scope/Quality	Schedule	Cost	Score	Owner Software	Actions			
Low	2	1	2	0.7	Software	Establish			
					Engineering	quality			
					Manager	inspections			
						of the			
						acquired			
						materials.			
Secondary I	Risks:			1					
Description of	of the risk that ari	se out of the	respons	e strategies	taken to addr	ess the			
risk									
Residual Ri	sks:								
Description of	of the remaining r	isk after resp	onse stra	ategies					
C	DI				Contengenc	y Funds:			
Contengend	cy Pian:				Funds needed	d to protect			
					the budged f	rom			
					overrun				
					Contengenc	y Time:			
					Time needed	to protect			
					the schedule	from			
					overrun				
Comments:					•				
Any other in	formation on the	risk, the stat	us of the	risk, or res	sponse strategi	es.			

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

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- 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



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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 Committe Meetings	Review progress, risks and issues	Face to Face	Monthly	Adivsory Committee, Project Stakeholders, Project Manager, Project Secretary	Project Manager	Agenda, Meeting Minutes	Soft copy archived on SharePoint site and project website
Steering Committee Status Meetings	Enhance communication and coordination of the project	Face to Face	Monthly	Steering Committee, Project Manager,	Project Manager	Agenda, Meeting Minutes	Soft copy archived on SharePoint site and project





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5 | Bibliography

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