Task-ID	Task Name	Duration	Start Date	Responsib le			un 3 T F		S M T	Jun 10 W T F S	S <u>M</u> T	Jun 17 W T F	S S M	
FR	Final Phase	16d	06/03/19										J IVI	
FR12	Update Market Analysis		06/03/19											
FR12-01	Research Users	1.5d	06/03/19											
R12-01-A	Choose representative areas	4h	06/03/19	ST	ST									
R12-01-B	Define locations of hubs	4h	06/03/19	TR	TR									
R12-01-C	Analyse detailed commuting flows	12h	06/03/19	ВН	· ·	ВН								
R12-02	Research Operations	2d	06/04/19											
R12-02-A	Determine network		06/04/19	PB		PB								_
R12-02-B	Find optimal routes		06/05/19	DOA			DOA							_
R12-03	Define Subsystem Requirements		06/06/19											_
R12-03-A	Analyse system requirements		06/06/19	TG			TG							
FR12-03-B	Determine infrastructure requirements		06/06/19	ТВ			TB	,						_
FR12-03-C	Determine vehicle requirements		06/06/19	SV			SI	V						_
FR05	Functional Flow Diagram		06/03/19	AD	AB									
FR05-01	Split up system into vehicle and infrastructure		06/03/19	AB	WB									-
FR05-02	Specify the interaction between subsystems		06/03/19	WB	BH									
FR05-03	Create FFD for vehicle		06/03/19	BH	SV									
FR05-04 F R06	Create FFD for infrastructure Functional Breakdown Diagram		06/03/19	SV	3V									-
FR06-01	Define functions of subsystems		06/03/19	TG	тс	:								
FR06-02	Create FBD for vehicle		06/03/19	DOA	DOA									
FR06-03	Create FBD for infrastructure		06/03/19	AB	AB									-
FR09	Technical Risk Assessment / Risk Map		06/04/19	Ab										
FR09-01	Identifying technical risks		06/04/19											+
FR09-01-A	Investigate infrastructure risks		06/04/19	PB		PB								+
FR09-01-B	Investigate initiastructure risks		06/04/19	TR		TR	-							+
FR09-02	Rank the risks		06/05/19	ST		ST	г							
FR09-03	Create the risk map		06/05/19	ТВ		TE								+
FR09-04	Make a risk mitigation plan		06/05/19	PB			PB							+
FR25	Sustainable Development Strategy		06/05/19											+
FR25-01	Describe how sustainability is taken into account		06/05/19	AB		Al	В							
FR25-02	Describe the relation of the system to sustainability		06/05/19	WB		w	_							
FR08	Resource Allocation / Budget Breakdown		06/07/19											
FR08-01	Generate TPM Graph		06/07/19	ВН				ВН						+
FR08-02	Contingency management research		06/07/19	ТВ				ТВ						
FR08-03	Contingency management execution	8h	06/07/19	TG				TG						
FR32	■ RAMS	0.625d	06/07/19											
FR32-01	Determine Reliability	0.625d	06/07/19					1						
FR32-01-A	Establish criterion for levels of maintainability	5h	06/07/19	TR				TR						
FR32-01-B	Grade concepts using criteria	4h	06/07/19	DOA				DOA						
FR32-02	Determine Availability	0.625d	06/07/19											
FR32-02-A	Establish criterion for levels of availability	5h	06/07/19	WB				WB						
FR32-02-B	Grade concepts using criteria	4h	06/07/19	ST				ST						
FR32-03	Determine Maintainability	0.625d	06/07/19											
FR32-03-A	Establish criterion for levels of maintainability	5h	06/07/19	SV				SV						
FR32-03-B	Grade concepts using criteria	4h	06/07/19	PB				PB						
FR32-04	Determine Safety	0.625d	06/07/19					'						
FR32-04-A	Establish criterion for levels of safety	5h	06/07/19	DOA				DOA						
FR32-04-B	Grade concepts using criteria	4h	06/07/19	AB				AB						
FR36	Determine Aircraft System Characteristics		06/10/19											
FR36-01	Describe battery system		06/10/19	ST					ST					
FR36-02	Describe auxiliary power estimate		06/10/19	TR					TR					_
FR36-03	Describe environmental control		06/10/19	ST					ST					_
FR37	Determine Aerodynamic Characteristics		06/10/19											
FR37-01	Determine CL and CD for different phases		06/10/19	BH					BH					
FR37-02	Determine CM for different phases		06/10/19	PB					PB					-
FR42	Determine Propulsion Characteristics		06/10/19											-
FR42-01	Determine rotor characteristics		06/10/19						DOA					_
FR42-01-A	Determine blade type		06/10/19	DOA					TG					-
FR42-01-B	Determine rotor radius		06/10/19	TG										-
FR42-02	Determine noise and downwash		06/10/19	TG					TG					-
FR38	Determine Structural Characteristics Create leading diagrams of wing Inster/fuseledge.		06/10/19	TD					ТВ					-
FR38-01	Create loading diagrams of wing/rotor/fuselage		06/11/19	TB			-			SV				+
FR38-02 FR38-03	Compute stress distribution Determine structural dimensions and mat.		06/11/19	SV TB			-			ГВ				+
FR38-03	Determine structural dimensions and mat. Determine Stability & Control Characteristics		06/11/19	I D						-				
FR39-01	Determine Stability & Control Characteristics Determine CoM limits		06/11/19	AB			-		AB					-
FR39-01	Determine COM limits Determine pitch, roll and yaw characteristics		06/11/19	WB			-			VB				+
FR39-02	Make relevant plots for rotor/air craft		06/11/19	AB					AB					+
FR23	Create Electrical Block Diagram		06/11/19	יטרי					Ab					+
FR23-01	Describe the electrical equipment of the system		06/12/19	ST						ST				+
FR23-02	Describe the electrical equipment of the system Describe the interactions between the equipment		06/12/19	TR						TR				+
FR23-03	Create EBD		06/12/19	ST			+			ST				+
FR24	Create Data Handling Block Diagram		06/12/19											
FR24-01	Identify the components of the data handling system		06/12/19	ВН						BH				+
FR24-02	Define data flows through the system		06/12/19	SV						SV				
FR24-03	Create DHBD		06/12/19	ВН						ВН				
FR29	Verification & Validation	1.5d	06/14/19											
FR29-01	Verify & validate numerical models used	12h	06/14/19	TG							TG			
FR29-02	Verify & validate computer models used	12h	06/14/19	WB							WB			
FR29-03	Verify & validate that system meets the requirements	8h	06/14/19	TG						TG				
FR29-04	Verify & validate the system as whole	8h	06/14/19	WB						WB				
FR27	Sensitivity Analysis	1.5d	06/14/19											
FR27-01	Observe results of changed major system parameters	12h	06/14/19	SV							SV			
FR27-02	Analyse the robustness of the final design	4h	06/14/19	DOA						DOA				
FR27-03	Establish the degree of feasibility of the final design	4h	06/14/19	DOA						DOA				
FR34	Define Vehicle Configuration and Layout	1d	06/17/19											
FR34-01	Illustrate vehicle layout	0.5d	06/17/19											
	Determine seating arrangement	2h	06/17/19	ВН							ВН			
FR34-01-A		4h	06/17/19	TR							TR			
	Determine propulsion layout													
FR34-01-A FR34-01-B FR34-01-C	Determine propulsion layout Determine landing gear layout		06/17/19	ТВ							TB			
FR34-01-B		4h	06/17/19 06/17/19	TB WB							MB			
FR34-01-B FR34-01-C	Determine landing gear layout	4h 4h												

Task-ID	Task Name	Duration	Start Date	1-	Jun 10	Jun 17 Jun 24
FR34-02-A	Determine landing pad layout	4h	06/17/19	PB PB	PB	
FR34-02-B	Determine gate layout	4h	06/17/19	AB	AB	
FR34-02-C	Design vertiport		06/17/19	ВН		SH SH
FR34-02-D	Create detailed infrastructure drawings		06/17/19	TG	T	-G
FR18 FR18-01	Operations & Logistic Concept Description Describe infrastructure		06/17/19			
FR18-01-A	Describe architecture of the vertiports		06/17/19	ТВ	Т	В
FR18-01-B	Describe architecture of landing pads	4h	06/17/19	SV	SV	
FR18-01-C	Describe storage area	3h	06/17/19	WB	WB	
FR18-01-D	Sketch/Draw Concepts		06/17/19	TG	TG	
FR18-02	Describe refueling/recharging process		06/17/19		67	
FR18-02-A FR18-02-B	Estimate duration Determine procedure interactions		06/17/19	ST PB	ST	
FR18-02-C	Determine procedure interactions Determine order of steps		06/17/19	TR	TR	
FR18-02-D	Estimate process supervision		06/17/19	SV	SV	
FR18-02-E	Define ground systems involved	4h	06/17/19	PB	PB	
FR18-02-F	Describe periodic maintenaince		06/17/19	DOA	DO	A
FR18-03	Describe periodic maintenaince		06/17/19		AB	
FR18-03-A FR18-03-B	Estimate duration Determine procedure interactions		06/17/19	TB	TB	
FR18-03-C	Determine procedure interactions Determine order of steps		06/17/19	ST	ST	
FR18-03-D	Estimate process supervision		06/17/19	PB	PB	
FR18-03-E	Define ground systems involved	4h	06/17/19	WB	WB	
FR18-03-F	Identify operational edge cases	4h	06/17/19	TG	TG	
FR18-03-G	Estimate frequency of inspections		06/17/19	TR	TR	
FR18-04 FR18-04-A	Describe vehicle and payload ground journey Define transfer of cargo procedure		06/17/19	BH	BH	
FR18-04-A	Define transfer of cargo procedure Define transfer of passenger procedure		06/17/19	ST	ST	
FR18-04-C	Define moving parts of system		06/17/19	WB	WB	
FR18-04-D	Define system communication	4h	06/17/19	TR	TR	
FR18-05	Describe loading/unloading and takeoff/landing		06/17/19		7	
FR18-05-A	Estimate duration		06/17/19	AB	AB	
FR18-05-B	Determine procedure interactions		06/17/19	SV	SV BH	
FR18-05-C FR18-05-D	Determine order of steps Estimate process supervision		06/17/19	TC TC	TG	
FR18-05-E	Define ground systems involved		06/17/19	TB	ТВ	
FR18-05-F	Describe (off-)loading steps	4h	06/17/19	DOA	DO	A
FR18-05-G	Identify operational edge cases	4h	06/17/19	PB	PB	
FR18-06	Describe air traffic management system		06/17/19			
FR18-06-A FR18-06-B	Estimate vehicle throughput at hub Estimate vehicle approach profile		06/17/19	TR TB	TR	
FR18-06-C	Define flight plan deconfliction procudure		06/17/19	SV	SV	
FR22	H/W, S/W Block Diagram		06/18/19			
FR22-01	Divide system into subcomponents	0.5d	06/18/19			
FR22-01-A	Divide between Hardware and Software subomponents	4h	06/18/19	PB		PB
FR22-01-B	Describe all subcomponents		06/18/19	ST		ST
FR22-02 FR22-02-A	Describe inputs and outputs of subcomponents Applying subcomponents consentable.		06/18/19	BH		l BH
FR22-02-A	Analyse subcomponents seperately Describe inputs and outputs		06/18/19	TG		TG
FR22-03	Analyse the mutual relation and interactions of subcomponents		06/18/19			
FR22-03-A	Analyse interactions between subcomponents	4h	06/18/19	AB		AB
FR22-03-B	Describe interrelations		06/18/19	DOA		DOA
FR22-04	Create HWBDs		06/18/19	WB		WB
FR22-05	Create SWBDs Create Communication Flow Diagram		06/18/19	ST		
FR28-01	Analyse flow of data in the system		06/19/19			
FR28-01-A	Analyse interrelations in the system	4h	06/19/19	PB		PB
FR28-01-B	Describe dataflow in the system	4h	06/19/19	DOA		DOA
FR28-02	Analyse flow of data from system to environment and back		06/19/19			
FR28-02-A	Analyse communication to the vehicle		06/19/19	AB		AB
FR28-02-B FR28-03	Describe external dataflows Create CFD		06/19/19	SV SV		WB SV
FR28-03	Performance Analysis		06/19/19	-		
FR33-01	Quantify performance of the system		06/19/19			
FR33-01-A	Analyse performance of the vehicle		06/19/19	TR		TR
FR33-01-B	Analyse operations of the infrastructure		06/19/19	ВН		BH
FR33-01-C	Analyse performance of the mobility system		06/19/19	TB		TB
FR33-02 FR33-02-A	Verify compliance of the design with the requirements Analyse requirements		06/19/19	TG		TG
FR33-02-A FR33-02-B	Analyse requirements Verify the system to the requirements		06/19/19	DOA		DOA
FR33-03	Analyse outcomes		06/19/19	PB		PB
FR26	Create Compliance Matrix	1d	06/20/19			
FR26-01	Make an overview of all requirements		06/20/19	AB		AB
FR26-02	Analyse if each requirements is met		06/20/19	SV		SV
FR26-03 FR30	Explain outcomes of analysis Create Production Plan		06/20/19	TR		TR
FR30-01	Create Production Plan Divide system into parts to be manufactured		06/20/19 06/20/19			
FR30-01-A	Define manufactured parts for the vehicle		06/20/19	ST		ST
FR30-01-B	Define the manufatured parts for infrastructure		06/20/19	ВН		BH
FR30-02	Determine timewise schedule of subassembly		06/20/19	ТВ		TB
FR30-03	Describe how subassemblies are integrated		06/20/19	TG		TG
FR30-04	Create MAI Plan		06/20/19	ST		ST
FR19 FR19-01	Determine Project Design & Development Logic Determine post-DSE activities to be executed		06/21/19	TB		TB
FR19-01 FR19-02	Analyse logical order of the post–DSE activities		06/21/19	BH		BH
FR19-03	Create block diagram of activities		06/21/19	WB		WB
FR21	Cost Breakdown Structure		06/24/19			
FR21-01	Analyse the cost of post-DSE activities		06/24/19	AB		AB
FR21-02	Create CBS		06/24/19	SV		SV
FR31	Return on Investment		06/24/19	15		
FR31-01 FR31-02	Finalise the number of trips Find total revenue		06/24/19 06/24/19	TG DOA		TG
			06/24/19	PB PB		PB
	Find total costs from CBS	4n	00/24/19			
FR31-03 FR31-04	Find total costs from CBS Determine break-even point		06/24/19	TR		TR