

ID	Outlin Numb	Task Name	Start	Finish	1, 2022												Half 2, 2022			Half 1, 2023			Half 2, 2023			Half 1, 2024			Half 2, 2024			Half 1, 2025			Half 2, 2025			Half 1, 2026			Half 2, 2026			Half 1, 2027								
					M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M											
1	1	LhARA	Tue 03/08/21	Fri 30/04/27	[Summary Bar]																																															
2	1.1	Proposal	Tue 03/08/21	Fri 01/04/22	[Task Bar]																																															
146	1.2	LhARA Project	Fri 01/04/22	Fri 30/04/27	[Summary Bar]																																															
147	1.2.1	Launch of LhARA project	Fri 01/04/22	Fri 01/04/22	[Milestone: 01/04]																																															
148	1.2.2	Conceptual Design Report for the facility	Sun 31/03/24	Sun 31/03/24	[Milestone: 31/03]																																															
149	1.2.3	Technical Design Report (TFD2) for Stage 2	Wed 31/03/27	Wed 31/03/27	[Milestone: 31/03]																																															
150	1.2.4	Technical Design Report for Stage 1	Mon 31/03/25	Mon 31/03/25	[Milestone: 31/03]																																															
151	1.2.5	WP1 Project Management	Fri 01/04/22	Fri 30/04/27	[Summary Bar]																																															
728	1.2.6	WP2 Source	Wed 01/06/22	Wed 14/04/27	[Summary Bar]																																															
729	1.2.6.	Milestones	Wed 01/11/23	Mon 01/02/27	[Summary Bar]																																															
736	1.2.6.	Tasks	Wed 01/06/22	Thu 01/04/27	[Summary Bar]																																															
737	1.2.6.	Task 1 for MS1 (Baseline simulations - Lancaster)	Wed 01/06/22	Wed 01/11/23	[Task Bar]																																															
738	1.2.6.	Convergence Testing and Benchmarking	Wed 01/06/22	Mon 01/08/22	[Task Bar]																																															
739	1.2.6.	Hydrodynamic modelling of laser contrast	Mon 01/08/22	Fri 30/09/22	[Task Bar]																																															
740	1.2.6.	PIC modelling of TNSA for SCAPA conditions	Mon 03/10/22	Sun 01/01/23	[Task Bar]																																															
741	1.2.6.	3d benchmark simulations	Mon 03/07/23	Fri 01/09/23	[Task Bar]																																															
742	1.2.6.	3d full scale simulations	Fri 01/09/23	Wed 01/11/23	[Task Bar]																																															
743	1.2.6.	Task 2 for MS2 (Diagnostic package - Strath - ICL)	Wed 01/06/22	Fri 01/11/24	[Task Bar]																																															
744	1.2.6.	Concept design for diagnostic platform	Wed 01/06/22	Thu 01/09/22	[Task Bar]																																															
745	1.2.6.	Testing preliminary ion diagnostics	Thu 01/09/22	Thu 01/12/22	[Task Bar]																																															
746	1.2.6.	construction of optimised ion diagnostics	Mon 01/04/24	Sat 01/06/24	[Task Bar]																																															
747	1.2.6.	construction of laser feedback diagnostic line	Wed 01/05/24	Thu 01/08/24	[Task Bar]																																															
748	1.2.6.	Testing and control of diagnostic platform at 5Hz	Thu 01/08/24	Fri 01/11/24	[Task Bar]																																															
749	1.2.6.	Task 3 for MS3 (Baseline SCAPA experiments Strath)	Mon 10/10/22	Mon 01/04/24	[Task Bar]																																															
750	1.2.6.	Experiment planning, Design and Preparation	Mon 10/10/22	Tue 10/01/23	[Task Bar]																																															
751	1.2.6.	Initial Baseline Experiment on SCAPA	Wed 01/02/23	Wed 01/03/23	[Task Bar]																																															
752	1.2.6.	Data Processing and Analysis	Mon 03/04/23	Tue 01/08/23	[Task Bar]																																															
753	1.2.6.	Simulation Benchmarking and Iteration	Mon 03/04/23	Tue 01/08/23	[Task Bar]																																															
754	1.2.6.	Experiment planning, Design and Preparation B	Mon 02/10/23	Wed 01/11/23	[Task Bar]																																															
755	1.2.6.	Baseline Experiment 2	Fri 01/12/23	Mon 01/01/24	[Task Bar]																																															
756	1.2.6.	Data Processing and Analysis	Mon 01/01/24	Mon 01/04/24	[Task Bar]																																															
757	1.2.6.	Task 4 for MS4 (advanced targetry, debris and stablisation studies ICL)	Sat 01/04/23	Sun 01/02/26	[Task Bar]																																															
758	1.2.6.	Experiment Planning, Design and Preparation	Sat 01/04/23	Thu 01/06/23	[Task Bar]																																															
759	1.2.6.	Initial Baseline Experiment at IC for source characterisation and stability	Thu 01/06/23	Fri 01/09/23	[Task Bar]																																															
760	1.2.6.	Data Processing and Analysis	Sun 01/10/23	Mon 01/01/24	[Task Bar]																																															
761	1.2.6.	Experiment Planning, Design and Preparation	Sun 01/10/23	Mon 01/01/24	[Task Bar]																																															
762	1.2.6.	Base line experiment for Debris studies	Mon 01/01/24	Fri 01/03/24	[Task Bar]																																															
763	1.2.6.	Data Processing and Analysis	Fri 01/03/24	Mon 01/04/24	[Task Bar]																																															
764	1.2.6.	Concept design for advanced target platform	Mon 01/04/24	Thu 01/08/24	[Task Bar]																																															
765	1.2.6.	Initial construction of advanced target platform	Thu 01/08/24	Sat 01/02/25	[Task Bar]																																															

Project: LhARA1- DK
Date: Mon 28/02/22

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

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					1, 2022	Half 2, 2022			Half 1, 2023			Half 2, 2023			Half 1, 2024			Half 2, 2024			Half 1, 2025			Half 2, 2025			Half 1, 2026			Half 2, 2026			Half 1, 2027			
					M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	
766	1.2.6.	Test experiments at 5 Hz characterising activation, debris, and target stability	Sat 01/02/25	Wed 01/10/25																																
767	1.2.6.	Data Processing and Analysis	Wed 01/10/25	Thu 01/01/26																																
768	1.2.6.	Shipping, installation at SCAPA	Thu 01/01/26	Sun 01/02/26																																
769	1.2.6.	Task 5 for MS5 (Complete source design, integrate with capture - Strath- ICL + WP3)	Wed 01/05/24	Sun 01/03/26																																
770	1.2.6.	concept design of source & capture integration	Thu 01/08/24	Thu 01/08/24																																
771	1.2.6.	Source feedback and optimisation design	Thu 01/08/24	Fri 01/11/24																																
772	1.2.6.	Investigate optimal routes to source control via PIC simul	Wed 01/05/24	Wed 01/01/25																																
773	1.2.6.	Design integrated source and diagnostic system with stabilisation capability	Mon 02/09/24	Sat 01/03/25																																
774	1.2.6.	Operational integration source and diagnostic system with stabilisation	Mon 03/03/25	Sun 01/03/26																																
775	1.2.6.	Task 6 for MS6 (High Repetition Rate Operations at Full Specification - Strath- ICL, Lanc, WP3)	Sun 01/03/26	Thu 01/04/27																																
776	1.2.6.	Experiment Planning, Design, and Preparation	Mon 02/03/26	Mon 01/06/26																																
777	1.2.6.	Continous operation of ion source at 5Hz in burst mode	Mon 01/06/26	Wed 01/07/26																																
778	1.2.6.	Data Processing and Analysis	Wed 01/07/26	Thu 01/10/26																																
779	1.2.6.	Experiment Planning, Design, and Preparation	Thu 01/10/26	Fri 01/01/27																																
780	1.2.6.	Continous 1 hour operation at 5Hz	Wed 01/07/26	Thu 01/10/26																																
781	1.2.6.	Continous 1 hour operation with feedback mode	Mon 01/02/27	Mon 01/03/27																																
782	1.2.6.	Demostration of 10 Hz continous operation using 10 Hz trigger mode and 5 Hz laser operations	Mon 01/03/27	Thu 01/04/27																																
783	1.2.6.	Reporting	Thu 29/09/22	Wed 14/04/27																																
784	1.2.6.	Deliverable 1 (optional)	Thu 29/09/22	Wed 12/10/22																																
785	1.2.6.	Deliverable 2 (optional)	Mon 03/04/23	Thu 13/04/23																																
786	1.2.6.	Deliverable 3 (optional)	Mon 02/10/23	Fri 13/10/23																																
787	1.2.6.	Deliverable 4 (optional)	Mon 01/04/24	Thu 11/04/24																																
788	1.2.6.	Deliverable 5 (optional)	Mon 23/09/24	Fri 04/10/24																																
789	1.2.6.	Deliverable 6 (optional)	Tue 01/04/25	Mon 14/04/25																																
790	1.2.6.	Deliverable 7 (optional)	Thu 02/10/25	Wed 15/10/25																																
791	1.2.6.	Deliverable 8 (optional)	Wed 01/04/26	Tue 14/04/26																																
792	1.2.6.	Deliverable 9 (optional)	Fri 02/10/26	Thu 15/10/26																																
793	1.2.6.	Deliverable 10 (optional)	Thu 01/04/27	Wed 14/04/27																																
794	1.2.7	WP3 Capture	Fri 01/04/22	Wed 14/04/27																																
822	1.2.8	WP4 Ion-acoustic	Fri 01/04/22	Wed 14/04/27																																
847	1.2.9	WP5 Vertical Beamline	Fri 01/04/22	Wed 31/03/27																																
848	1.2.11	WP6 System design	Fri 01/04/22	Wed 31/03/27																																

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Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			