

ID	Proj Task	Task Name	Duration	Baseline Start	Baseline Finish	Expected Start	Expected Finish	Actual Start	Actual Finish	% Complete	Hal S
1		Connected Intersections Phase 2(CI Phase 2)	523 days?	Mon 9/12/22	Wed 9/11/24	Mon 9/12/22	Wed 9/11/24	Mon 9/12/22	NA	17%	
2		Project Authorization to Proceed	1 day	Mon 9/12/22	Mon 9/12/22	Mon 9/12/22	Mon 9/12/22	Mon 9/12/22	Mon 9/12/22	100%	
3	1	Project Management [PWS Task 1]	523 days?	Mon 9/12/22	Wed 9/11/24	Mon 10/3/22	Wed 9/11/24	Mon 10/3/22	NA	24%	
4	1.1	Kick-off Meeting	16 days	Mon 10/10/22	Fri 10/14/22	Mon 10/10/22	Mon 10/31/22	Mon 10/10/22	Mon 10/31/22	100%	
5	1.2	Monthly Progress Reporting [PWS Task 1.1]	493 days	Mon 10/24/22	Wed 9/11/24	Mon 10/3/22	Wed 9/11/24	Mon 10/3/22	NA	20%	
6	1.2.1	Monthly Progress Report Preparation	507 days	Mon 10/3/22	Wed 9/11/24	Mon 10/3/22	Wed 9/11/24	Mon 10/3/22	NA	20%	
7	1.2.2	Deliver Monthly Progress Report [PWS Deliverable]	507 days	Mon 10/3/22	Wed 9/11/24	Mon 10/3/22	Wed 9/11/24	Mon 10/3/22	NA	20%	
8	1.3	Project Management Plan (PMP) [PWS Task 1.2]	493 days	Mon 10/24/22	Wed 9/11/24	Fri 10/14/22	Thu 12/8/22	Fri 10/14/22	Thu 12/8/22	100%	
9	1.3.1	Develop Draft PMP	1 day	Fri 10/14/22	Mon 11/14/22	Fri 10/14/22	Fri 10/14/22	Fri 10/14/22	Fri 10/14/22	100%	
10	1.3.2	Deliver Draft PMP	1 day	Mon 11/14/22	Mon 11/14/22	Fri 10/14/22	Fri 10/14/22	Fri 10/14/22	Fri 10/14/22	100%	
11	1.3.3	USDOT Review and Comment on PMP	10 days	Mon 11/14/22	Fri 11/25/22	Fri 10/14/22	Thu 10/27/22	Fri 10/14/22	Thu 10/27/22	100%	
12	1.3.4	PMP Review Meeting with USDOT	1 day	Mon 11/14/22	Fri 11/25/22	Mon 10/31/22	Mon 10/31/22	Mon 10/31/22	Mon 10/31/22	100%	
13	1.3.5	Update Draft PMP Per USDOT Review	11 days	Mon 11/14/22	Fri 11/25/22	Mon 11/14/22	Mon 11/28/22	Mon 11/14/22	Mon 11/28/22	100%	
14	1.3.6	Deliver PMP [PWS Deliverable]	5 days	Mon 11/28/22	Fri 12/2/22	Mon 11/28/22	Fri 12/2/22	Mon 11/28/22	Fri 12/2/22	100%	
15	1.3.7	ATP for CI Development	5 days	Mon 12/5/22	Fri 12/9/22	Fri 12/2/22	Thu 12/8/22	Fri 12/2/22	Thu 12/8/22	100%	
16	2	Support Development of Updated and Enhanced Positioning Guidance	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
17	2.1	Develop best practices/guidelines for implementing and putting into operations Radio Technical Commission for Maritime Services (RTCM) position corrections) [PWS Task 2.1]	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
18	2.2	Develop guidance on determining positional accuracy and how to evaluate both positional accuracy and the application of RTCM corrections	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
19	2.3	Develop guidance for positioning techniques other than from Global Navigation Satellite Systems (GNSS)	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
20	3	Support Execution of Additional Verification and Validation Activities	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
21	3.1	Test and validate signal timing through the full CI Data flow	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
22	3.1.1	Determine how close the signal timing at the signal controller is to the signal phase and timing (SPAT) message processes by the vehicle	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
23	3.1.2	Analysis of the latency of each link of the CI Data Flow and across including multiple device vendors and CI	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
24	3.2	Conduct analysis to determine whether an external mechanism is necessary to determine SPAT message validity (similar to a conflict monitor in an ITS cabinet)	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
25	3.3	Test and validate MAP message contents generated via multiple MAP message generation methods (May Include)	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
26	4	Support Development of Updated and Enhanced Security Guidance	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
27	4.1	Coordinate ITS Infrastructure Stakeholder participation and provide SME support to CI activities related to updating and enhancing guidance related to security capabilities, guidance and best practices within CI applications and use	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
28	4.1.1	Develop expanded security guidance for message that are received by infrastructure equipment (Basic Safety Message (BSM) or Signal Request Messages (SRM) for traffic signal priority and preemption applications	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
29	4.1.2	Develop additional security guidance and best practices based on responses to the Security Questionnaire in CI Phase 1 Validation Activity	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	

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30	4.1.3	Establish minimum security needs and operations for all CI system elements and data links leveraging existing transportation, information and communications technology (ICT) security standards	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
31	4.1.4	Collaborate with volunteer validation sites to implement security guidance/best practices and conduct a self validation	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
32	5	Support Development of Signal Priority and Preemption Guidance	478 days?	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	NA	18%	
33	5.1	Coordinate ITS Infrastructure Stakeholder participation and provide SME support to CI activities related to developing guidance for Signal Priority and preemption use cases and applications.	478 days?	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	NA	18%	
34	5.1.1	Develop a draft Concept of Operations (ConOps) update with new use cases and user needs focused on Signal Priority and preemption. (May Include)	411 days	Mon 11/14/22	Wed 9/11/24	Wed 2/15/23	Wed 9/11/24	Wed 2/15/23	NA	70%	
35	5.1.2	Develop a Systems Requirements Specification (SyRS) update with new system requirements that trace to the new user needs focused on Signal Priority and Preemption (May	378 days	Mon 11/14/22	Wed 9/11/24	Mon 4/3/23	Wed 9/11/24	Mon 4/3/23	NA	0%	
36	5.1.3	Develop a System Design Document (SDD) update with new System design elements that race to the new system requirements focused on Signal Priority and Preemption	345 days	Mon 11/14/22	Wed 9/11/24	Thu 5/18/23	Wed 9/11/24	Thu 5/18/23	NA	0%	
37	5.1.4	Conduct test and validation activities to verify that the system requirements are achievable and appropriate and validate that the proposed guidance meets the user needs.	478 days	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	Wed 9/11/24	NA	NA	0%	
38	6	Support Technical Task Execution	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	14%	
39	6.1	Coordinate ITS Infrastructure Stakeholder participation and provide SME support to CI activities related to technical activities such as test tool development, deployment validation procedures/checklists or other technical tasks that may arise during the	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	14%	
40	6.1.1	Develop updates to test tools utilized in CI Phase 1 to better support other connected vehicle (CV) technologies such as Long-Term Evolution (LTE) vehicle-to-everything (LTE-V2x)	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	12%	
41	6.1.2	Conduct additional test and verification activities not defined in Task 2 through Task 5 above to support verification and validation of CI Implementation Guidance	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	12%	
42	6.1.3	Develop test cases and procedures to help CI deployment agencies conduct operational checkout of new deployments and verify that their CI deployments are operating correctly and in accordance with the CI Implementation Guidance	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	12%	
43	6.1.4	Develop technical documentation and analysis that support Task 6 activities	389 days	NA	NA	Fri 3/17/23	Wed 9/11/24	Fri 3/17/23	NA	22%	
44	7	Work with ITS Infrastructure Vendors to Develop CI Capabilities in Infrastructure	478 days?	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	8%	
45	7.1	Work with the ITS Infrastructure Device vendor community to implement new capabilities and concepts defined in CTI 4501 such as the Assured Green Period (AGP).	478 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	8%	
46	7.1.2	Create Working group to guide this task	22 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Mon 3/20/23	Fri 2/17/23	Mon 3/20/23	100%	
47	7.1.3	Find volunteers to implement new capabilities	409 days	Mon 11/14/22	Wed 9/11/24	Fri 2/17/23	Wed 9/11/24	Fri 2/17/23	NA	23%	
48	7.1.4	Develop a Test Plan	387 days	Mon 11/14/22	Wed 9/11/24	Tue 3/21/23	Wed 9/11/24	Tue 3/21/23	NA	0%	
49	7.1.5	Implement the capabilities	343 days	Mon 11/14/22	Wed 9/11/24	Mon 5/22/23	Wed 9/11/24	Mon 5/22/23	NA	0%	
50	7.1.6	Perform testing activities	153 days	Mon 11/14/22	Wed 9/11/24	Mon 2/12/24	Wed 9/11/24	NA	NA	0%	
51	7.1.7	Develop Test Report	87 days	Mon 11/14/22	Wed 9/11/24	Tue 5/14/24	Wed 9/11/24	NA	NA	0%	

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52	8	Support Balloting and Publication of Updated CI Implementation Guidance	478 days?	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	Wed 9/11/24	NA	NA	0%	
53	8.1	Contractor and appropriate Subcontractors shall assist in balloting of the CI Implementation Guidance Update in accordance with the CI Working Groups balloting processes.	478 days	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	Wed 9/11/24	NA	NA	0%	
54	8.2	Assist in publication and distribution of the CI Implementation Guidance Update at no cost via internet	478 days	Mon 11/14/22	Wed 9/11/24	Mon 11/14/22	Wed 9/11/24	NA	NA	0%	