

Research Needs Ranking by HCQS Group - July 2010

	Project Title (RNS)	Group	Subcommittee	Subcommittee Contact	Research Subcommittee Member Assigned to RNS	Requested \$	Length
* 2	Freight Impact on Highway Capacity and Level of Service for Urban Conditions	1 A	HCM-wide Cross-cutting Issue		Barbara O., Grant Z., Aimee F., Rick D.	\$500,000	30 mos
* 3	Moving America Over the Road - Trucking's Impact on Highway Capacity and Level of Service	1 B	HCM-wide Cross-cutting Issue		Barbara O., Grant Z., Aimee F., Rick D.	\$300,000	24 mos
* 4	Multimodal Intersection Level of Service	1 C	HCM-wide Cross-cutting Issue	Martin G.	Aimee F.	\$500,000	24 mos
* 9	Development of a Procedure for Predicting Traffic Capacity in Work Zones	1 D	HCM-wide Cross-cutting Issue	Scott W.	Mohammed H., Noel C.	\$450,000	24 mos
* 10	Capacity and Quality of Service Analyses for Generally Uninterrupted Flow Facilities	2 A	Uninterrupted Flow Facilities	Scott W.	Aimee F.	\$400,000	24 mos
* 11	Two-Lane Highway Safety and Operational Performance [new title/scope]	2 B	Two-lane Hwys	Mike D.	Dirk G.	\$1,000,000	60 mos
* 16	Enhancements to the Current Procedure for Freeway Facilities in the HCM 2010	2 C	Freeways/ Multilane Hwys	Abdul H.	Mike D.	\$400,000	24 mos
* New	Modeling Procedure for Congested Arterial Facilities	3 A	Urban Streets	Janice D.	Bastian S.	\$400,000	24 mos
--> New	Improvements to the Urban Streets Methodology	3 B	Urban Streets	Janice D.	Martin G.	???	???
--> New	Analysis of Oversaturated Conditions at Signalized Intersections	3 C	Signalized Intersections	Elena P.	Brandon N.	???	???
--> New	Enhancement of Roundabout Capacity and Quality of Service Analysis	3 D	Unsignalized Intersections	Lee R.	Dirk G.	???	???
* 24	Level of Service on Arterial Weaving Segments [revised title]	3 E	Urban Streets	Janice D.	Jamie P.	\$600,000	42 mos
* 30	Unsignalized Movements and Geometric Delays at Interchanges [former title = Determine Geometric Delay Impacts and 3-Point Interchange Analysis for Interchange Ramp Terminals]	3 F	Interchanges	Joel M.	Clara F.	\$250,000	12 mos
--> 31	Actuated Signal Operations at Interchanges [former title = Improvement of the HCM Interchange Ramp Terminal Procedure]	3 G	Interchanges	Joel M.	Clara F.	\$350,000	18 mos
* 35	Planning and Preliminary Engineering Applications Guide to the HCM	4 A	Planning and Prelim Engr	Andy W.	Erik R.	\$400,000	24 mos

* Listed in TRB Research Needs Database

--> To be entered into TRB Research Needs Database