



Research Quarterly Progress Report
Partners for Advanced Transit and Highways

California Program Plan: Intersection Decision Support - Task S (Conduct Supporting Research)

Samer Madanat

1) **MOU:** 5601

2) **Project Title:** California Program Plan: Intersection Decision Support - Task S (Conduct Supporting Research)

3) **Project Leader(s):** Samer Madanat

4) **Fiscal Year:** 2004 / 2005, **Quarter:** 1, **Version:** 1

5) Schedule

Task Number	Description	Initially proposed:		Current:	
		Start	End	Start	End
1	S1.0 Intersection Simulation Tool Requirements	11/01/2003	12/31/2004	11/01/2003	12/01/2004
2	S1.1 Develop Models and Simulation Infrastructure	07/01/2004	12/31/2004	07/01/2004	12/01/2004
3	S1.3 Develop Analysis Tool	07/01/2004	12/31/2004	07/01/2004	12/01/2004
4	S2. Evaluation of COTS and Emerging Technologies Components	11/01/2004	12/31/2004	11/01/2004	12/01/2004

6) Describe what was accomplished in the last quarter.

Once again, we conducted work in the two clusters of tasks, COTS investigation (S2) and in developing an intersection tool (S1).

We have evaluated 3M Canoga Microloops, VDS by Sensys Networks. These reports are pending, in final review.

We have also begun implementing a sensor fusion (inductive loop and radar sensor) tasks, which will combine two COTS technologies into a better whole.

Finally, with regard to COTS and emerging technologies, this quarter we have received and installed a Video Detection System by Traficon, and we have received a RTMS by EIS and are working toward installing this system.

The IDS simulation effort, documented at <<http://PATH.Berkeley.EDU/~vjoel/ids/deliv/>>, was applied, albeit with still-incomplete code, this quarter in assessing an alert algorithm developed by other IDS researchers. Evaluation output was primarily whether a feasible set of sensors could be notionally installed to execute an alert algorithm.

7) Explain any differences between actual accomplishments in the last quarter and what was proposed.

No differences.

8) Please list all papers, reports, or other products completed during this quarter under this project (provide complete reference and status).

No papers.

9) Briefly describe the work planned for the next quarter relative to the project schedule (see 10 if changes are required).

For the upcoming quarter, we will:

- Work on COTS sensor inputs for CICAS Preparatory Analysis
- Completing current COTS evaluation effort, and starting Traficon, EIS and other COTS effort.

10) Change in Plan: If you need to make changes in your work plan (changes in dates, tasks, or deliverables), please describe them here. Changes to task schedule do not require PATH approval (but should be justified). Changes in task content, deliverables, and deliverable completion dates require PATH approval.

No change expected.

Signatures:

	Person who submitted	PATH Manager/Engineer
Signature:	James Misener (username: jmisener / userid: 317)	Approved by: James Misener (username: jmisener / userid: 317)
Date:	2004-10-31 02:00:50	2004-10-31 02:02:35