



QUARTERLY PROGRESS REPORT

Project Title:	Development of a Simulation Model of an ITS Priority Corridor			
RFP NUMBER: N/A	NJDOT RESEARCH PROJECT MANAGER:		Karl Brodtman	
TASK ORDER NUMBER/Study Number: 88-01 / 4-23935	PRINCIPAL INVESTIGATOR: Kaan Ozbay			
Study Start Date: 06/01/2000 Study End Date: 05/31/2002	Period Covered: 4 th Quarter 2001			

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
First Year				
1. Literature Review	20%	25%	100%	20%
2. Simulation Model Development	80%	10%	100%	100%
Total (Year 1)	100%			100%
Second Year				
3. Calibration and Validation	40%	30%	30%	12%
4. ITS Scenario Evaluation	50%	10%	10%	5%
5. Final Report	10%			
TOTAL	100%			17%

Note: Part of Task 3 and Tasks 4 and 5 will be performed during the second year of this project.

1. Progress this quarter by task:

Tasks 1 and 2:

- We completed these tasks.

Task 3:

- We worked on the calibration of the network. For validation site trips were done. We used GPS based data collection technique to collect route travel times. We also run the simulation model with the given OD matrix and compared “loaded link volumes” obtained from DVRPC with link volumes obtained from Paramics model. They were in agreement within the limits of statistically acceptable accuracy levels. We are also working on the calibration of local traffic flow variables of Paramics using real traffic data obtained from other sites in the US. . This work is going on.

Task 4:

- We met with Paul Truban of NJDOT and Peter Kremer of PB (consultant to NJDOT) to discuss recent ITS planning project they are doing in South Jersey. They shared with us the outcome of the planning project and gave us draft reports. We are going use the list of proposed ITS improvements in this task as possible scenarios.

2. Proposed activities for next quarter by task

- Task3: Work on Task 3
- Task 4: Identify at least two major scenarios and test before and after.

3. List of deliverables provided in this quarter by task (product date)



CAIT

Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

4. Progress on Implementation and Training Activities

5. Problems/Proposed Solutions

- There is delay in getting network data.
- There was a delay of few months between the contract starting date and the actual starting of the work (Beginning of Fall semester) for the first year). This might create a need of a no-cost extension in the end of Year 2.

6. Budget Summary*

Total Project Budget(# of years)	2 Years	\$81,795.00
Total Project Expenditure to date		\$38,961
% of Total Project Budget Expended		48%
Task Order Number/Study Number:		88-01 / 4-23935
Current Task Order Budget (# of years)	Year 1 and 2	\$81,795.00
Actual Expenditure to date against current task order		\$38,961
% of current task order budget expended		48%

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
623 BOWSER RD. PISCATAWAY NJ 08854-8014
TEL: 732-445-0579 FAX: 732-445-0577