

REGION II
UNIVERSITY TRANSPORTATION RESEARCH CENTER



Program Progress Performance Report by the University Transportation Research Center, Region 2
Submitted to RITA

Federal Grant # DTRT12-G-UTC02

Project Title: University Transportation Research Center – Region 2

Name of Grant: University Transportation Center

Program Director: Camille Kamga, Ph.D, Director UTRC, Assistant Professor of Civil Engineering, The City College of New York, ckamga@utrc2.org, 212-650-8087

Submitting Official: Penny Eickemeyer, peickemeyer@utrc2.org, 212-650-8074 Submission Date:

DUNS: 064932676

EIN: 13-1988190

Recipient Identifying Number or Account Number: 49997-00-24

Project/Grant Period: Start Date: January 1, 2012 End Date: December 31, 2013

Reporting Period End Date: June 30, 2012

Report Term or Frequency: 6 months this period, quarterly thereafter

Signature

A handwritten signature in blue ink that reads "Penny Eickemeyer". The signature is written over a horizontal line.

Penny Eickemeyer, Associate Director for Research, UTRC

This report will cover UTRC's three mission areas: Research, Technology Transfer, and Education for activities that occurred under the Grant# DTRT12-G-UTC02 during this reporting period.

1. Accomplishments

A. Goals and objectives:

a. Research: To support the USDOT Strategic Goals and to advance the state of practice in planning and management of regional transportation systems; the research program consists of both agency-initiated and faculty-initiated studies

b. Education and workforce development: To improve the knowledge base and approach to problem solving of the region's transportation workforce

c. Technology transfer: To increase the awareness and level of information concerning transportation issues facing Region 2 to the education, research and practicing community ; disseminate project reports, studies, analysis, and use of tools to the community; and provide unbiased information and testimony to decision-makers concerning regional transportation issues consistent with the UTRC theme.

B. Accomplishments under these goals:

a. Research- During this period, the following projects have been initiated:

- **IIMS Staten Island Web and Smartphone Development, Deployment and Evaluation**
Performing Institutions: University of Buffalo and Polytechnic Institute of NYU, Sponsor: NYSDOT Start date: May 15, 2012. Completion date expected: February 14, 2013
- **Adaptive Traffic Signal Control System (ACS-Lite) for Wolf Road**
Performing Institutions: RPI and CCNY, Sponsor: NYSDOT and UTRC
Start date: April 1, 2012. Completion date expected: October 31, 2013
- **Landfill Closure with Dredged Materials Desktop Analysis Multiple Sources Development** Performing Institution: Rutgers, Sponsor: NJDOT and UTRC
Start date: May 10, 2012. Completion date expected: October 31, 2013
- **Offshore Wind Development (OSW) Research**
Performing Institution: SUNY Maritime, Sponsor: NJDOT and UTRC
- **Freight-Tricycle Operations in New York City**
Performing Institution: CCNY, Sponsor: NYSERDA
Start date: May 1st, 2012 Completion date expected: April 30th, 2013
- **Assistance for NYMTC with Tasks for New Major Projects**
Performing Institution: NYU, Sponsor: NYMTC
Start date: May1, 2012 Completion date expected: September 30, 2012
- **Support for NYMTC for CMAQ Application and Documentation**
Performing Institution: CCNY, Sponsor: NYMTC
Start date: March 1, 2012 Completion date expected: December 31, 2012

We also issued a request for proposals for faculty-initiated research; approximately 60 proposals were received.

b. Education and workforce development - During this period, UTRC accomplished the following:

- Selected four students for the academic initiative of the NYMTC/UTRC September 11th Memorial Program, award letters have been issued
- Selected 12 students to receive AITE scholarships
- Initiated the Outdoor Lighting Institute at RPI
- Initiated talks with the New York City Transit (NYCT) to develop a workforce development program for transit employees

c. Technology Transfer – During this period, UTRC held the following events, programs, and disseminated information as follows:

- Conducted Visiting Scholar Seminars:
 - Clifford Winston, Performance and Policy Reform of the U.S. Transportation System, April 13, 2012
 - Daniel Graham, Ph.D., Wider Economic Benefits of Transport Investment and the Role of Agglomeration Economies, April 27, 2012
 - Connecting the Dots: Future Housing Development in Post-recession America, May 18, 2012
- Organized workshop:
 - Connected Vehicle Test-beds: Development & Integration , University at Buffalo, SUNY, June 1, 2012
- Organized legislative forum program:
 - Taxi & Livery Issues of Today and Tomorrow, June 26, 2012
- Continued to develop an improved UTRC website

C. Opportunities for Training and Professional Development

As identified above, we are working on developing a training program for one of our agency partners, NYCT. In addition, our seminars and workshops are designed to educate the transportation community on current issues in policy and best practices as well as foster meaningful discussion on these topics. We also provide funding to the September 11th Memorial Program to select current students to serve in internship positions in regional and local agencies to enhance their educational experience. We also fund the AITE program to offer undergraduate and graduate scholarships to talented students to pursue either a traditional civil engineering degree leading to a graduate transportation program or an undergraduate program in a related field (e.g., planning, public administration) tailored to transportation. The graduate scholarships attract both bright students finishing up bachelor degrees and working transportation professionals who want to expand their transportation expertise.

D. Dissemination of results

Nothing to report

E. Plans for next reporting period: We will continue with all of our programs and research; will arrange for additional seminar speakers, assist stakeholders (plan for a conference for RTP planning and hold public outreach workshops on behalf of NYMTC), prepare contracts to initiate further research, review and select proposals issued under the RFP, publish newsletters, and begin work on the 2012 annual report.

2. Products

Products this period have included newsletters(Winter and Summer 2012); continued development of improved UTRC website; development and launching of a public outreach website on behalf of NYMTC, and development and distribution of updated marketing materials.

3. Participants and Other Collaborating Organizations

Name or Organization	Project Role	Program Category	Hours worked this period	Contribution	Funding Support	Collaboration with individual in foreign country?	Travelled to foreign country	Other organization/ partners
Adel Sadek/SUNY Buffalo	Principal Investigator	Research		Investigator	NYSDOT	None	None	General Dynamics Information Technology
Elena Prassas/Poly	Principal Investigator	Research		Investigator	NYSDOT	None	None	General Dynamics Information Technology Raman Patel
John C. Falcocchio/Poly	Co-Principal Investigator	Research		Investigator	NYSDOT	None	None	General Dynamics Information Technology Raman Patel
Chunming Qiao/SUNY Buffalo	Co-Principal Investigator	Research		Investigator	NYSDOT	None	None	General Dynamics Information Technology
Graduate Research Students	Research Students / TBD	Research		The students will be involved in many aspects of the project	NYSDOT	None	None	General Dynamics Information Technology
Xuegang (Jeff) Ban/RPI	Principal Investigator	Research		Investigator	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
Cara Wang/RPI	Co-Principal Investigator	Research		Investigator	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates,

Name or Organization	Project Role	Program Category	Hours worked this period	Contribution	Funding Support	Collaboration with individual in foreign country?	Travelled to foreign country	Other organization/ partners
								Inc
Camille Kamga/CCNY	Principal Investigator	Research		Investigator and in charge of the transportation modeling	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
Kyriacos Mouskos/CCNY	Co-Principal Investigator	Research	None	Investigator and transportation modeling	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
Jeff Wojtowicz/RPI	Sr. Research Engineer	Research	None	Analyst	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
MD Chowdhury/CCNY	Post-Doc, Research Assistants	Research	None	Analyst/Modeler	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
Anil Yazici/CCNY	Post-Doc, Research Assistants	Research	None	Traffic Analyst, Models/ data collection	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
Abhishek Singhal/CCNY	Research Students	Research	None	Traffic Analyst, Models/data collection	NYSDOT	None	None	Siemens, Sensys Network, Annese and Associates, Inc
Robert Miskewitz/Rutgers University	Principal Investigator	Research		will oversee the entire project and produce with the assistance of the entire Project team	NJDOT	None	None	Birdsall and the Richard Stockton College Coastal Research Center

Name or Organization	Project Role	Program Category	Hours worked this period	Contribution	Funding Support	Collaboration with individual in foreign country?	Travelled to foreign country	Other organization/ partners
Christopher Uchrin/Rutgers	Co-Principal Investigator	Research		Will serve as the project's QA/QC officer and supervise the student interns.	NJDOT	None	None	Birdsall and the Richard Stockton College Coastal Research Center
Research Students (TBD)	Research Assistants	Research		The Rutgers student interns will be involved in every aspect of this project and be supervised by the senior members of the Project Team	NJDOT	None	None	Birdsall and the Richard Stockton College Coastal Research Center
Shmuel Yahalom/SUNY Maritime	Principal Investigator	Research		Port Governance, Intermodal Connection, Port Operations	NJDOT	None	None	Halcrow, Douglas Westwood, CWS, and Kaan Ozbay
Eric Johansson/SUNY Maritime	Co-Principal Investigator	Research		Port Governance, Intermodal Connection, Port Operations	NJDOT	None	None	Halcrow, Douglas Westwood, CWS, and Kaan Ozbay
Ernest Fink/SUNY Maritime	Co-Principal Investigator	Research		Port Governance,	NJDOT	None	None	Halcrow, Douglas

Name or Organization	Project Role	Program Category	Hours worked this period	Contribution	Funding Support	Collaboration with individual in foreign country?	Travelled to foreign country	Other organization/ partners
				Intermodal Connection, Port Operations				Westwood, CWS, and Kaan Ozbay
Guan Chang/SUNY Maritime	Senior Researcher	Research		Port Governance, Intermodal Connection, Port Operations	NJDOT	None	None	Halcrow, Douglas Westwood, CWS, and Kaan Ozbay
Charles Brecher/NYU	Principal Investigator	Research		Investigator	NYMTC	None	None	Allen Zerkin
Robert Paaswell/CCNY	Principal Investigator	Research		Investigator	NYMTC	None	None	
Camille Kamga/ CCNY	Co-Principal Investigator	Research		Investigator	NYMTC	None	None	
Penny Eickemeyer/CCNY	Project Manager	Research		Mnagement of the project team	NYMTC	None	None	
Nathan Stodola/CCNY	Research Assistant	Research		Financial Analysis of the Highways data	NYMTC	None	None	
Lindsay Donellon/CCNY	Research Assistant	Research		Financial Analysis of the transit data	NYMTC	None	None	
Alison Conway/CCNY	Co-Principal Investigator	Research		Investigator and in charge of the overall project	NYSERD A	None	None	Revolution Rickshaws, NYCDOT
Camille Kamga/ CCNY	Co-Principal Investigator	Research		Investigator and in	NYSERD A	None	None	Revolution Rickshaws,

Name or Organization	Project Role	Program Category	Hours worked this period	Contribution	Funding Support	Collaboration with individual in foreign country?	Travelled to foreign country	Other organization/ partners
				charge of the GPS studies				NYCDOT
Penny Eickemeyer/CCNY	Project Manager	Research		Oversee the management of the project	NYSERD A	None	None	Revolution Rickshaws, NYCDOT
Research Students (4 students)	Research Assistants	Research		Literature review, data collection, developing interview questionnaires	NYSERD A	None	None	Revolution Rickshaws, NYCDOT
Camille Kamga/ CCNY	Co-Principal Investigator	Research		Investigator and manage the overall project	NYMTC	None	None	
Nathalie Martinez/CCNY	Research Assistant	Research		Literature review and analysis	NYMTC	None	None	
Nathan Stodola/CCNY	Research Assistant	Research		Literature review and analysis	NYMTC	None	None	
Lindsay Donellon/CCNY	Research Assistant	Research		Literature review and analysis	NYMTC	None	None	

Project Title	Collaborating Organization(s)	Partner's Contribution
Adaptive Traffic Signal Control System (ACS Lite) for Wolf Road, Albany, New York	Siemens-ITS	Assist NYSDOT to procure, assemble, test and install the ACS-Lite and ATT systems for the Wolf Road Corridor. Siemens will install ACS-Lite control system to the 9 intersections. Siemens will also assist NYSDOT in conducting necessary intersection upgrade(s) to enable the installation.
	SenSys Networks	SenSys will provide wireless detectors and necessary data transformation and communication devices on the mainline and side streets
	Annese and Associates	Will install the wireless detectors at Wolf Road, Albany, NY
Assistance for NYMTC with Tasks for new Major Projects	Allen Zerkin, JD	Provide consultative support to assess the interplay of the NYMTC procedures and federal regulations and guidance concerning new major projects and to develop recommendations about what, if anything, NYMTC should do regarding the NYMTC procedures
Freight-Tricycle Operations in New York City	Revolution Rickshaws	Will provide support for data Collection. Tricycles owned by Revolution Rickshaws will be equipped with GPS units for tracking
	NYCDOT	Will provide support to identify stakeholders and on NYC policies and regulations on tricycles and bike paths
IIMS Staten Island Web and Smartphone Development, Deployment and Evaluation	General Dynamics Information Technology	Will develop and deploy the IIMS hand-held client (currently based on the default NYSDOT hand-held device – Blackberry Tour), with expanded multi-agency incident management capabilities, to NYSDOT, NYPD (Highways and Precincts), NYCDOT, NYCOEM, FDNY, DSNY, MTA NYC Transit Depots, MTA B&T and PANYNJ responders serving the primary transportation corridors on Staten Island Corridor
	Raman Patel	Will assist in the field test preparation, and test evaluation of the IIMS hand-held application
Landfill Closure with Dredged Materials - Desktop Analysis	Richard Stockton College Coastal Research Center (CRC).	CRC has extensive experience in GIS and geospatial analysis and will primarily contribute to develop landfill shapefile and geodatabase and develop landfill & CDF ranking system
	Birdsall	BSG has extensive expertise in landfill closures and Phase I sites assessments and will contribute extensively in the literature review and ASTM Phase I Site Assessments
Offshore Wind Development Research	Halcrow	Will provide technical expertise planning, design and management services for transporting offshore wind equipment.

Project Title	Collaborating Organization(s)	Partner's Contribution
	Douglas Westwood	Will provide research & analysis, strategy for implementing offshore wind projects
	CWS Consulting Group	CWS brings considerable depth to the team with their experience assisting freight-based businesses to meet their strategic and tactical objectives.
	Kaan Ozbay	Prof. Ozbay will assist by bringing transportation modeling capabilities in the study.

4. Impact

UTRC programs impact the transportation community in several ways. Through seminars, workshops, and conferences, information is disseminated and interdisciplinary discussions are fostered; which enable transportation professionals to gain knowledge and varying perspectives on issues. This, in turn, helps practitioners to implement policies that bring about efficient and effective solutions to meet local, regional, and national transportation needs. UTRC programs also have an impact on preparing the next generation of transportation professionals through internships and classroom-based instruction. Likewise, dissemination of research findings helps to foster collaboration between academic researchers and practitioners, which assists practitioners in implementing innovative solutions that meet their specific needs.

5. Changes/problems

Nothing to report

6. Special reporting requirements

Nothing to report