

1-1-2013

Transit Focused UTC - January 1, 2013–December 31, 2013

NCTR

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National Center for Transit Research (NCTR)

Annual Performance Metrics

January 1, 2013 – December 31, 2013

Part 1 – Program Wide Indicators

Program-wide Indicators
1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC. <ul style="list-style-type: none">• Undergraduate courses <u>4</u>• Graduate courses <u>13</u>
2. Number of students participating in transportation research projects funded by this grant <ul style="list-style-type: none">• Undergraduate students <u>2</u>• Graduate students <u>35</u>
3. Number of transportation-related advanced degree programs that utilize grant funds to support graduate students. <ul style="list-style-type: none">• Master's Level Programs <u>5</u>• Doctoral Level Programs <u>4</u>
4. Number of graduate students supported by this grant <ul style="list-style-type: none">• Master's Level Students Supported <u>28</u>• Doctoral Level Students Supported <u>7</u>
5. Number of students supported by this grant who received degrees <ul style="list-style-type: none">• Master's Level Degrees <u>6</u>• Doctoral Level Degrees <u>1</u>
6. Number and total dollar value of research projects selected for funding using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research: <ul style="list-style-type: none">• Applied research projects & dollar value <u>34 applied research projects totaling \$4,100,228</u>• Advanced research projects & dollar value _____

Part 2 – UTC-Specific Indicators

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
Research Capability	<ul style="list-style-type: none"> • Number of papers published 	6
	<ul style="list-style-type: none"> • Number of times the papers have been cited in other professional papers and the media 	31
	<ul style="list-style-type: none"> • Number of presentations of research results at professional conferences of an academic nature and at industry association conferences 	11
	<ul style="list-style-type: none"> • Number of research projects completed and number of times they have been downloaded from our websites 	11 research projects completed, 709 views of those reports from website
	<ul style="list-style-type: none"> • Number of students participating in transportation research projects 	37
	<ul style="list-style-type: none"> • Awards and distinctions received 	<p>Two patents were awarded during the six month time period to USF for transportation software development: (1) US Patent # 8,548,724 on System and Method for Real-Time Travel Path Prediction and Automated Incident Alerts and (2) US Patent # 8,600,674 on Using Pattern Recognition in Real-Time LBS Applications</p> <p>Elections to committee chair and co-chair committee positions of 20 members of the consortium and additional honors as emeritus, board members, and presiding officers of major associations and projects</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
	<ul style="list-style-type: none"> Customer satisfaction surveys completed by research sponsors 	1
Leadership	<ul style="list-style-type: none"> Number of national professional committees that our consortium members lead 	<p>TRB Chair – AP050 – Bus Transit Systems Committee (Hinebaugh)</p> <p>Communications Coordinator for TRB AP055 Rural and Intercity Bus Committee (Hough)</p> <p>ITE Subcommittee Chair - Traffic Simulator Subcommittee (Fabregas)</p> <p>Association for Commuter Transportation – Co-Chair – Telework Council (Hendricks)</p> <p>ITE Chair – Intelligent Traffic Signal Operations Committee (Lin)</p> <p>President – Leadership APTA Alumni Association (Volinski)</p> <p>TRB Chair – Access Management Committee (Williams)</p> <p>APTA Co-Chair Legislative Subcommittee (Schlickman)</p> <p>Communications Director of the TRB Committee AP075, Light Rail Transit (Cevallos).</p> <p>Chair-Higher Education Subcommittee of Human Resources Committee for APTA – (Hough)</p> <p>Chair – University Research Subcommittee for APTA Research and Technology Committee – (Volinski)</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
		<p>CUTC Executive Committee and Treasurer – (Hough)</p> <p>CUTC Executive Committee and Secretary – (Volinski)</p> <p>Co-Chair – Conduct of Research -TRB ABG10 (Bittner)</p> <p>Chair - Chair, Committee for the Tenth National Conference. on Transportation. Asset Management (Bittner)</p> <p>Editorial Board – Journal of Safety and Security (Brosch)</p> <p>Co-Chair - National Transit GIS Conference (Catala)</p> <p>Chair - Traffic Simulation Subcommittee of TRB (Fabregas)</p> <p>President - International Chinese Transportation Professional Association (Lin)</p> <p>Chair, Intelligent Traffic Signal Operations Committee of ITE (Lin)</p> <p>Executive Committee member, Management & Operations/ITS Council of ITE (Lin)</p> <p>Vice Chair, Transit Capacity & Quality of Service Com (AP015) of TRB (Perk)</p> <p>Presiding Officer, National Transportation Data Requirements & Programs Committee of TRB (Polzin)</p> <p>Editorial Board for <i>Transportation</i> (Polzin)</p> <p>Secretary, Co-Chair, Environmental Justice in Transportation (ADD50) of TRB (Thole)</p> <p>Transit Ambassador Emeritus for the</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
		<p>Transit Cooperative Research Program (Volinski)</p> <p>International Conference Co-Chair, Second International Access Management Conference, Shanghai, China 2014 of TRB (Williams)</p> <p>Member Emeritus, TDM Committee of TRB (Winters)</p> <p>Secretary, Transportation Planning Council of ITE (Winters)</p> <p>Secretary, Board of Directors of Transportation Demand Management Institute (Winters)</p>
	<ul style="list-style-type: none"> • Number of significant roles our research faculty play in forums designed to identify transit research needs 	<p>Transit Research Advisory Council (Polzin)</p> <p>APTA Research and Technology Committee (Volinski)</p> <p>Transit Cooperative Research Program Problem Statement Screening Panel (Volinski)</p> <p>Representatives on over 15 TRB committees that try to identify priority research problem statements</p> <p>ADD50 Environmental Justice in Transportation – Paper Review Coordinator Research Needs Coordinator</p> <p>ADD20 Social and Economic Factors in</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
		<p>Transportation – Research Needs Coordinator</p> <p>Chair of the TRB joint simulation subcommittee research and resources task group (Hadi)</p> <p>Chair of the research committee of the TRB ITS committee (Hadi)</p> <p>Chair of the research subcommittee of the TRB Traffic flow theory and characteristics committee (Hadi)</p> <p>Chair of the ITS America cross cutting forum research committee (Hadi)</p>
	<ul style="list-style-type: none"> • Number of professional development workshops and conferences for which we develop programs 	<p>7 - TRB BRT Conference Planning Committee (Hinebaugh)</p> <p>Florida Public Transit Association Annual Meeting (Goodwill)</p> <p>Southeast Regional UTC Conference (Volinski and Hinebaugh)</p> <p>Co-Chair of Conference Program Committee for ACT (Bond)</p> <p>Co-Chair of USF Sustainable Transportation Subcommittee (Hendricks)</p> <p>Co-Chair of Florida Public Transportation Association Professional Development Workshop (Staes)</p> <p>Co-Chair of GIS in Transit Biannual Conference (Catala)</p>
	<ul style="list-style-type: none"> • Number of presentations and papers published 	<p>11 presentations at professional transportation meetings/conferences and 6</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
		papers published
	<ul style="list-style-type: none"> Number of research agendas prepared in consultation with the FTA and state DOTs. 	FTA has identified 8 research projects as noted in the report. FDOT, NNDOT, and IDOT have approved 17 projects for the first year of the grant.
Education and Workforce Development	<ul style="list-style-type: none"> Number of students who graduate from transportation-related programs and their placement in the industry 	6
	<ul style="list-style-type: none"> Number of students who graduate from non-transportation-related programs who are employed by consortium members and their placement in the industry 	1
	<ul style="list-style-type: none"> Number of opportunities for students to serve as interns and/or technical assistants to transit agencies within reasonable distance of our consortium members 	2
	<ul style="list-style-type: none"> Number of students who participate in the public transit courses being delivered through the newly established Transportation Leadership Graduate Certificate Program 	0
	<ul style="list-style-type: none"> Number of people participating in training programs offered by the consortium and survey them for how it has impacted their skills 	145 for USF transit training, 220 for USF Commuter Choice Certificate program, and 185 through NDSU's Rural Transit Training Program (A total of 550 transportation practitioners receiving training)

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
	<ul style="list-style-type: none"> Number of transportation related courses offered that were taught by faculty and/or teaching assistants associated with NCTR consortium 	17
	<ul style="list-style-type: none"> Number of students participating in transportation-related projects funded by the grant 	37
	<ul style="list-style-type: none"> Number of transportation-related advanced degree programs that use grant funds to support graduate students 	8
	<ul style="list-style-type: none"> Number of graduate students supported by the grant 	35
	<ul style="list-style-type: none"> Number of students supported by the grant who received degrees 	7
Technology Transfer Performance	<ul style="list-style-type: none"> Number of times NCTR research reports and research-related articles are published and the publications in which they appear. 	24
	<ul style="list-style-type: none"> Number of citations in professional journals and media reports. 	20 (including newspapers, TV, radio, and magazines)
	<ul style="list-style-type: none"> Number of presentations made at national, international, and statewide professional conferences. 	16
	<ul style="list-style-type: none"> Number of professionals in attendance at presentations at national, international, state, and regional professional conferences. 	570
	<ul style="list-style-type: none"> Number of inquiries made to researchers. 	83
	<ul style="list-style-type: none"> Number of visits to NCTR website(s), retweeted tweets, on-line discussions created about NCTR research reports. 	From July 1, 2013 through December 31, 2013, www.nctr.usf.edu had 27,320 users,

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
		<p>32,234 sessions and 61,677 pageviews. NCTR has 567 Twitter followers. Our popular listservs continue to grow. We host two listserv types: discussion listserv to allow peer-to-peer exchanges and announcement listserv to distribute information from NCTR to interested parties about new research reports, web conferences, etc. See below.</p> <ul style="list-style-type: none"> • Transportation demand management (discussion) – 2,269 active subscribers • NCTR (announcement) – 1,500 • Bus Rapid Transit (discussion) – 625 • Journal of Public Transportation (announcement) – 616 • Sustainable Transport Indicators (discussion) – 455 • Telework (discussion) - 397 • Parking Management (discussion) – 395 • Rural Transit Assistance Program (discussion) – 175 <p>Best Workplaces for Commuters (discussion) -152</p>
	<ul style="list-style-type: none"> • Implement longitudinal analysis of a select number of research projects to quantify their impact over a multi-year timeframe. 	<p>No projects lend themselves to such analysis at this time</p>
	<ul style="list-style-type: none"> • Survey leaders of major transportation industry trade associations to discover specific ways NCTR’s research findings have been used. 	<p>List developed for use when research is completed.</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
	<ul style="list-style-type: none"> • Interview third-party stakeholders involved in research projects. 	<p>4 (Florida Public Transportation Association, American Public Transportation Association, Association for Commuter Transportation, Hillsborough Area Transit Authority)</p>
	<ul style="list-style-type: none"> • At the outset of a project, identify the method for tracking the impact of the completed research, including identifying and notifying the most likely users of the results. 	<p>All PIs establish a peer review panel for their project as one way of informing an interested subset of the industry about the project. Some projects develop direct recommendations for specific actions (e.g., developing signage to prevent traffic crossing at commuter rail intersections), and for those it is easy to determine the impact. For other projects that are intended for the entire industry with no specific client, it remains a challenge to find out the complete impact of a completed research project. NCTR will probably start the process of asking those who download such reports to leave their contact information so a follow up survey can be sent to determine if the report findings were implemented.</p>
	<ul style="list-style-type: none"> • Use data collected to assess how well the research impacts transportation professionals and the organizations and communities they serve. 	<p>Projects with impacts are provided in the NCTR Program Progress Report. Six projects have had clear impact with follow up actions being taken.</p>

<u>Category</u>	<u>Metrics</u>	<u>Results</u>
Collaboration	<ul style="list-style-type: none"> • Peer review process 	Continues throughout program
	<ul style="list-style-type: none"> • Number of projects using joint faculty from partner institutions 	6