Program Progress Performance Report for University Transportation Centers

PPPR #11:
January 1 - June 30, 2017
The Mineta Transportation Institute (MTI) was established by Congress in 1991 as part of the Intermodal Surface Transportation Equity Act (ISTEA) and was reauthorized under the Transportation Equity Act for the 21st century (TEA-21). MTI then successfully competed to be named a Tier I Center in 2002 and 2006 in the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU). Most recently, MTI successfully competed in the Surface Transportation Extension Act of 2001 to be named a Tier I Transit-Focused University Transportation Center. The Institute is funded by Congress through the United States Department of Transportation’s Office of the Assistant Secretary for Research and Technology (OST-R), University Transportation Centers Program, the California Department of Transportation (Caltrans), and by private grants and donations.

The Institute receives oversight from an internationally respected Board of Trustees whose members represent all major surface transportation modes. MTI's focus on policy and management resulted from a Board assessment of the industry's unmet needs and led directly to the choice of the San José State University College of Business as the Institute’s home. The Board provides policy direction, assists with needs assessment, and connects the Institute and its programs with the international transportation community.

MTI’s transportation policy work is centered on three primary responsibilities:

**Research**
MTI works to provide policy-oriented research for all levels of government and the private sector to foster the development of optimum surface transportation systems. Research areas include: transportation security; planning and policy development; interrelationships among transportation, land use, and the environment; transportation finance; and collaborative labor-management relations. Certified Research Associates conduct the research. Certification requires an advanced degree, generally a Ph.D., a record of academic publications, and professional references. Research projects culminate in a peer-reviewed publication, available both in hardcopy and on TransWeb, the MTI website (http://transweb.sjsu.edu).

**Education**
The educational goal of the Institute is to provide graduate-level education to students seeking a career in the development and operation of surface transportation programs. MTI, through its Tier I designation, offers a AACSB-accredited Master of Science in Transportation Management and a graduate Certificate in Transportation Management that serve to prepare the nation’s transportation managers for the 21st century. The master’s degree is the highest conferred by the California State University system. With the active assistance of the California Department of Transportation, MTI delivers classes over a state-of-the-art videoconference network throughout the state of California and via webcasting beyond, allowing working transportation professionals to pursue an advanced degree regardless of their location. To meet the needs of employers seeking a diverse workforce, MTI’s education program promotes enrollment to under-represented groups.

**Information and Technology Transfer**
MTI promotes the availability of completed research to professional organizations and journals and works to integrate the research findings into the graduate education program. In addition to publishing the studies, the Institute also sponsors symposia to disseminate research results to transportation professionals and encourages Research Associates to present their findings at conferences. The World in Motion, MTI’s quarterly newsletter, covers innovation in the Institute’s research and education programs. MTI’s extensive collection of transportation-related publications is integrated into San José State University’s world-class Martin Luther King, Jr. Library.

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Program Progress Performance Report for University Transportation Centers

Mineta National Transit Research Consortium (MNTRC)
Led by San Jose State University

- **Federal Agency and Organization Element to Which Report is Submitted:**
  U.S. Department of Transportation Office of the Assistant Secretary for Research and Technology

- **Federal Grant or Other Identifying Number Assigned by Agency:** DTRT12-G-UTC21

- **Project Title:** Tier 1 Transit Focused University Transportation Center Research, Education, and Technology Transfer Activities

- **Program Director:** Karen E. Philbrick, PhD, MNTRC Executive Director, karen.philbrick@sjsu.edu, 408.924.7562

- **Submission Date:** July 31, 2017

- **DUNS and EIN Numbers:** 0568207150000 and 94-6017638

- **Recipient Organization:** San Jose State University Research Foundation, 210 N. Fourth Street, 4th Floor, San Jose, CA 95112

- **Recipient Identifying Number or Account Number:** Not Applicable

- **Project/Grant Period:** January 1, 2012 – June 30, 2017

- **Reporting Period End Date:** June 30, 2017

- **Report Term or Frequency:** This report covers the period from January 1, 2017 to June 30, 2017, per the Grant Deliverables and Requirements for UTCs instructions

- **Signature of Submitting Official:** Karen Philbrick
1. ACCOMPLISHMENTS

Major Goals and Accomplishments
This PPPR is the final submission for MNTRC. Since inception, MNTRC complied with the provisions of the Office of the Assistant Secretary for Research and Technology (OST-R, formerly RITA) Grant Deliverables and Requirements for University Transportation Centers and any revisions to that document. Each MNTRC-funded project produced a peer-reviewed final report with a complete description of the problem, approach, methodology, findings, conclusions, and recommendations. Final reports were uploaded to the Consortium and Transportation Research International Documentation Database (TRID) websites. Per the guidelines, these reports were also distributed to recipients that the US DOT identified in the UTC reporting requirements. To drive traffic to the MNTRC website and widely disseminate the results, a news release, coordinated with partner institutions, was issued to regional, national and international media outlets. The reports were also promoted on MTI’s social media sites and through direct email to relevant legislators, transportation leaders, academics, practitioners, and others with an interest in transit research. Media interviews were also pitched to radio, TV, online, and print outlets. MTI was responsible for the final research publication process, which included formal peer review, professional editing and formatting, distribution and promotion.

MNTRC allowed all university partners to provide a higher level of service to the public transportation industry through research, education and workforce development, and technology transfer. MNTRC responded to OST-R’s desire for universities to collaborate more effectively, gain greater perspective through geographic diversity, and encouraged the participation of minority-serving institutions. Collaboratively, MNTRC addressed both policy and technical challenges.

The major goals identified in the approved MNTRC proposal are listed by category below. Following each goal is the progress that MNTRC has made during this reporting period.

Research Goals
- Select no fewer than 68 transit research projects for funding
  - From inception to date, MNTRC selected 78 research projects for funding, 35 in calendar year 2012, 30 in calendar year 2013, 8 in calendar year 2014, 3 in calendar year 2015, and 2 in calendar year 2016.

- Submit 68 project descriptions to the RiP database in accordance with the OST-R General Deliverables and Requirements
  - From inception to date, MNTRC submitted 78 research project descriptions to RiP.

- Post to the MNTRC website no fewer than 68 project descriptions for the transit research projects
  - From inception to date, MNTRC posted 78 research project descriptions to the MNTRC website.

- Produce a final peer reviewed report for each research project
  - During this reporting period, MNTRC completed nine final research reports.
  - In addition, MNTRC published one transportation security perspective – The Threat to Air and Ground Transportation Posed by Mentally Disordered Assailants and two
white papers: Permeable Pavement as a Sustainable Management Option for Highway Stormwater and Designing Road Diet Evaluations: Lessons Learned from San Jose’s Lincoln Avenue Road Diet.

- Publish the full text of the final research reports on the MNTRC website
  - Nine final research reports were posted to the MNTRC website (http://transweb.sjsu.edu/mntrc/research/mntrc-publications.html).

- Submit 48 papers reporting transit research project results to peer-reviewed scientific or professional journals – such articles may be categorized as published, accepted, awaiting publication, submitted, or under review
  - During this reporting period, no additional papers based on MNTRC sponsored research were submitted to a professional journal. Specific details of prior submissions are listed in the section titled “Journal Publications”.

Leadership Goals

- Present transit research project results at 140 academic and professional meetings (name of conference, date, and location will be tracked)
  - The results from MNTRC funded research have been presented at 194 academic and professional meetings. Fourteen of these presentations occurred during the current reporting period. Examples of such presentations follow.


  - **MNTRC Project #1728**: Agrawal, Asha. “What Do Americans Think About Federal Tax Options to Support Public Transit, Highways, and Local Streets and Roads? Results from Year Eight of a National Survey.” Presentation at the
Provide 300 media interviews (media outlet, date, and topic will be provided) related to MNTRC activities and projects
  - There have been 755 media interviews related to MNTRC activities and projects, 54 of which were conducted during this reporting period. A sample includes:
    - *ABC7 News* (April 28, 2017): [Crowd-sourced reporting provides transit agencies a valuable tool in protecting against terrorism](https://abc7.com)
    - *SmartRail World* (March 6, 2017): [The challenge of protecting transit and passenger rail: understanding how security works against terrorism](https://www.smartrailworld.com)

Track an average of 275,000 hits and/or uses per month on the MNTRC/MTI website:
  - For the period of performance of January 1 to June 30, 2017, the MNTRC/MTI website had an average of 614,184 hits per month

Track an average of 75,000 documents downloaded per month from the MNTRC/MTI website (Google Analytics will track this information)
  - For the period of performance of January 1 to June 30, 2017, the MNTRC/MTI website registered an average of 110,074 document downloads per month

Sponsor 30 MNTRC regional forums and national summits that will reach 6,000 attendees
  - During this period of performance, MNTRC sponsored three technology transfer events that reached 442 attendees; these are:
    - **A Comparative Analysis of High Speed Rail Station Development into Destination and Multi-use Facilities: The Case of San Jose Diridon?** Los Angeles, CA, February 13, 2017 - As both the scholarly literature and the experience on the ground indicate, good station-area planning is a very important prerequisite for the eventual successful operation of a high-speed rail (HSR) station; it can also trigger opportunities for economic development in the station area and the station-city. What is less clear, however, is what constitutes good station-area planning and how California station cities in general, and the Diridon HSR station in particular, can achieve it. Experiences from international examples of HSR stations can provide valuable lessons. The presenters drew from a detailed review of European case studies of HSR stations, a review of the relevant literature, and interviews with station area planners and designers, to explore issues surrounding HSR station and station-
area planning. More specifically, the webinar addressed the following questions:

- 1) Which factors influence the impact of HSR on station-cities?
- 2) What are the elements of good station-area planning for HSR stations?
- 3) What are some common mistakes in designing and planning HSR stations?
- 4) What lessons do we learn from successful European HSR stations?
- 5) How do these lessons apply to San Jose Diridon station?

- **West Coast Rail Conference**, Los Angeles, CA, February 28-March 1, 2017 - The world's leading rail experts came together with business and political leaders to discuss bringing fast rail to America. Construction is underway on the first phase of the 800-mile, state-of-the-art transportation system set to revolutionize mobility in America, starting with California. Once the system is built out, it will carry more than 100 million people each year, saving time, money, energy, and lives. MTI proudly co-sponsored this event.

- **Eighth Annual Mineta National Transportation Finance Summit: "Are We There Yet? Bridging the Gap in California’s Transportation Funding"**, San Francisco CA, June 16, 2017 - The need to invest in California’s transportation system is dire. Estimates suggest a nearly $140B backlog in deferred maintenance on highways, bridges, and local streets and roads. While the funding crisis is widely recognized, solutions are difficult to come by. Senate Bill 1, passed by the California legislature in early April, dedicates over $50B to transportation projects through increased fuel taxes and vehicle registration fees, yet that only partially fills the gap. This free, half-day summit hosted by MTI at the Commonwealth Club in San Francisco looked at various strategies the state and local and regional governments and transportation agencies are taking to address California’s transportation needs. The results from year eight of a national public opinion poll of more than 1,500 Americans on various tax options for raising federal transportation revenues were presented.

**Listen or watch:**
- Keynote address (audio)
- Panel Discussion (audio)
- Complete summit (video)

**Education and Workforce Development Goals**

1. A 5% increase over 2010-11 figures in the number of undergraduate and graduate students enrolled in transportation-related degree programs
   - To date, MNTRC partner universities have documented a 12.83% increase in enrollment figures (this figure remains the same as that reported in PPPR #10).

2. 50 undergraduate and graduate students participating in MNTRC transit research
For the period of performance, three students were engaged in MNTRC research projects. From contract inception to date, 259 student researchers worked on MNTRC funded research.

3. 10 students participating in internships at transportation-related agencies
   - For this period of performance, zero students participated in transportation-related internships. Please note that MNTRC is currently operating under a no cost extension which has impacted reporting metrics.

4. Sixteen K-12 outreach programs that will reach 800 students
   - Two K-12 outreach events were held during this reporting period for 95 students:
     - **Seventeenth Annual Garrett Morgan Sustainable Transportation Competition**, National Broadcast, April 2017: Teams of middle-school students from across the country presented their ideas for achieving sustainable transportation. The students were welcomed by United States Secretary of Transportation Elaine Chao, former Secretary of Transportation Norman Mineta, American Association of State Highway and Transportation Officials Executive Director Bud Wright, American Public Transportation Association Vice President: Workforce Development and Educational Services Pamela Boswell and Caltrans Director Malcolm Dougherty. MTI’s Executive Director Karen Philbrick moderated the program.

     Presentations were judged by three independent individuals who did not represent sponsor organizations. Judges assigned points for teamwork, presentation quality, clarity, and for the concept itself, among other topics. The winning team received $1000 for their classroom, plus an all-expenses-paid trip to San Jose, California, to be honored at the 25th Annual MTI Awards Banquet and Convocation Ceremony. The second place team received $300 and a plaque, and the third place team received $200 and a plaque. All participants received a certificate. **The Urban Promise Academy team from Oakland, CA won first prize this year!**

     - **MTI Summer Transportation Institute**, San José CA, (Graduation date June 30, 2017): MTI conducted its thirteenth annual Summer Transportation Institute (STI). STI was offered as a 3-week/5 day non-residential class for high school students (rising 10th through 12th graders) on the campus of San Jose State University, San Jose, California. With a special focus on a college-level three unit environmental education course with an emphasis on science, the equivalent of one week of aviation-oriented learning and related activities, field trips (30% of the curriculum), short talks by experts, and a job skills component, the SJSU/MTI STI was designed to be both academically challenging and fun for its participants. Overall, the program’s curriculum exposed students to key components of scientific inquiry, new frontiers in some of the major transportation-related topics of the day, and gave them the opportunity to see firsthand “behind the scenes” operations of major Bay Area transportation sites and agencies.

     Forty students participated, 99% of whom represented Hispanic, Asian, African
American, and Pacific Islander ethnicities. The students went on 16 field trips and had 30 hours of direct instruction.

5. Eight adult workforce development seminars
   o During this period of performance, MTI sponsored zero events.

Technology Transfer Goals

- The MNTRC/MTI website will average 275,000 hits and/or uses per month (Google Analytics will track this information)
  o For this period of performance, the MNTRC/MTI website had an average of 614,184 hits per month

- Track an average of 75,000 documents downloaded per month from the MNTRC/MTI website (Google Analytics will track this information)
  o For this period of performance, the MNTRC/MTI website registered an average of 110,074 document downloads per month

- A minimum of 100 research citations based on MNTRC funded work
  o One hundred and one (101) citations were documented during this period.

- A 20% increase in the number of MNTRC/MTI Facebook fans
  o During this reporting period, 29 Facebook fans were added bringing the total to 831 (over a 100% increase since contract inception).

- A 20% increase in the number of Twitter followers
  o During this reporting period, MNTRC/MTI received 195 new Twitter followers, bringing the total number of followers to 2,999.

Collaboration Goals

- Three MNTRC digital newsletters will be published per fiscal year
  o Zero MNTRC digital newsletters were published during this reporting period.

- Twelve technology transfer activities (summits/forums; K-12 outreach) will involve more than one partner
  o During this reporting period, there was three technology transfer activity that involved more than one partner.

- Twenty MNTRC project teams will include researchers from more than one partner university
  o All collaborative research projects have been reported previously.

- Ten percent (10%) of MNTRC summits and forums and/or funded research projects will have international collaboration
  o One MNTRC summit had international collaboration during this period of performance.
Sixty-seven percent (67%) of MNTRC projects will have interdepartmental research team members
- No additional interdepartmental research teams were funded during this period of performance.

Dissemination of Results
Nine MNTRC-funded projects were completed during this reporting period. The final reports appear on the MNTRC website, and have been distributed per the federal reporting guidelines. These are:


2. **Project 1205**: Improving Livability Using Green and Active Modes: A Traffic Stress Level Analysis of Transit, Bicycle, and Pedestrian Access and Mobility [http://transweb.sjsu.edu/project/1205.html](http://transweb.sjsu.edu/project/1205.html)


4. **Project 1242**: Performance Measures to Assess Resiliency and Efficiency of Transit Systems

5. **Project 1248**: Feasibility Study of a Campus-Based Bikesharing Program at UNLV [http://transweb.sjsu.edu/project/1248.html](http://transweb.sjsu.edu/project/1248.html)


7. **Project 1250**: Intermodal Bus and Bicycle Transportation in Southern Nevada [http://transweb.sjsu.edu/project/1250.html](http://transweb.sjsu.edu/project/1250.html)

8. **Project 1251**: Community Transit Services at the University of Nevada, Las Vegas [http://transweb.sjsu.edu/project/1251.html](http://transweb.sjsu.edu/project/1251.html)


2. PRODUCTS

Publications, Conference Papers, and Presentations
During this reporting period, the results from MNTRC funded research were presented at 14 academic and professional meetings. Details of these presentations can be found under the heading “Leadership Goals.”

Journal articles (publication details for articles that have been published prior to this reporting period can be found in prior PPPR reports - http://transweb.sjsu.edu/mntrc/about/pppr.html)


Books or other non-periodical, one-time publications
Nine final MNTRC research reports were published during this period of performance. The titles and links to these one-time publications can be found in the section titled “Dissemination of Reports”. All of these publications acknowledge federal support and contain the appropriate disclaimer.

Website(s) or other Internet site(s)
- An MNTRC web site has been maintained at www.transweb.sjsu.edu/mntrc
- An MNTRC presence has been established, and continues to grow, in conjunction with the existing MTI Facebook page - www.facebook.com
- www.twitter.com - “@MinetaTrans” feed on Twitter
- A LinkedIn page at www.linkedin.com - “Mineta Transportation Institute”
- A second LinkedIn page for the “MTI Alumni Association” at www.linkedin.com
- A You Tube Channel - http://www.youtube.com/user/MinetaTrans

Technologies or Techniques
No new information to report during this period.

Inventions, Patent Applications, and/or Licenses:
Nothing to report

Other Products
3. PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS

What Organizations Have Been Involved as Partners?
During the period of January 1 to June 30, 2017, MNTRC partnered with the following organizations:

1. **Organization Name and Location:** American Public Transportation Association (APTA-Washington, DC)
   - Partner’s Contribution to the Project: In-kind support (live-streaming broadcast network and conference facilities)
   - Project: MTI Garrett Morgan Competition

2. **Organization Name and Location:** Association of American State Highway and Transportation Officials (AASHTO-Washington, DC)
   - Partner’s Contribution to the Project: Financial support and In-kind support (live-streaming broadcast network and conference facilities)
   - Project: MTI Garrett Morgan Competition

3. **Organization Name and Location:** US Department of Transportation (Washington, DC)
   - Partner’s Contribution to the Project: In-kind support (live-streaming broadcast network and conference facilities)
   - Project: MTI Garrett Morgan Competition

4. **Organization Name and Location:** California Department of Transportation (Caltrans-Sacramento, CA and several district offices)
   - Partner’s Contribution to the Project: In-kind support (live-streaming broadcast network)
   - Project: MTI Masters of Science in Transportation Management and Garrett Morgan Competition

Have Other Collaborators or Contacts Been Involved?
- Several organizations have participated as experts in MNTRC summits, conferences and other events. These include but are not limited to the Office of the Secretary of Transportation; Transportation Research Board; and the California High-Speed Rail Authority. There were also sixteen additional organizations that hosted fieldtrips for MTI’s 2017 Summer Transportation Institute students, such as: History San Jose, Micron, Mineta San Jose International Airport, PG&E Energy Center, Prospect Silicon Valley, San Jose Department of Transportation, San Jose Diridon Station, the Santa Clara County Valley Transportation Authority, and the Tech Museum.

4. IMPACT

What is the Impact on the Development of the Principal Disciplines of the Project?
- The results of MNTRC-sponsored research programs continue to improve the content of undergraduate senior level logistics courses as well undergraduate and graduate
engineering and urban planning courses.

- The MTI/MNTRC web sites have become a repository for scholarly transportation research, available to anyone for free download. They are also a resource for attracting and enrolling students into the transportation education programs.

What is the Impact on Other Disciplines?

What is the Impact on the Development of Transportation Workforce Development?
- MTI once again hosted the SJSU Summer Transportation Institute - a three-week, non-residential program that provided high-school students with a summer experience that was both academically challenging and fun. With an emphasis on science and related transportation issues, the curriculum introduced key components of scientific inquiry and major transportation-related topics of the day. Field trips to major Bay Area transportation sites and agencies provided a first-hand look at potential career paths.

What is the Impact on Physical, Institutional, and Information Resources at the University or Other Partner Institutions?
The MNTRC and MTI web sites provide an online resource for professionals and the public to access a repository of transportation-related research.

What is the Impact on Technology Transfer?
- MNTRC transfers the results of research and outreach activities through news releases, all of which include active links, and through media interviews, which are actively pitched. News releases are issued through Meltwater’s national media distribution and are sent directly to MTI/MNTRC’s proprietary list of email addresses that include policy makers, transportation professionals, research associates, students and alumni, and others. This list is continually updated as new contacts are made. MTI also leverages diverse methods and media to disseminate research findings to those responsible for managing change. Such methods include research publication, seminars, workshops, websites, social media, and webinars, among others.

What is the Impact on Society Beyond Science and Technology?
The long-range purpose of MNTRC research and outreach activities is to help legislators, policy leaders, transportation professionals, and others to understand the issues facing the nation’s mobility infrastructure and to make optimum decisions based on factual data.

5. CHANGES/PROBLEMS

Changes in Approach and Reasons for Change: Nothing to report

Actual or Anticipated Problems or Delays Encountered: Nothing to report

Changes that Have a Significant Impact on Expenditures: Nothing to report
Change of Primary Performance Site Location from that Originally Proposed: Nothing to report

ADDITIONAL INFORMATION REGARDING PRODUCTS AND IMPACTS

Outputs

- Publications, conference papers, and presentations: Fourteen presentations were based on MNTRC funded research projects during this reporting period.

- Websites: MNTRC maintains a website to document consortium-related activity (http://transweb.sjsu.edu/mntrc/index.html)

- Technologies or Technology Assessments; Databases, Software or Models:

- Outreach activities: MNTRC sponsored five outreach activities during this period, two of which focused on the K-12 sector. Details of these events can be found under the heading “Leadership Goals”.

Outcomes

Nothing to report this period.

Impacts

MNTRC selects research projects with immediate and practical value for transportation officials and practitioners with the intent to increase mobility for all by improving the safety, efficiency, accessibility, and convenience of our nation’s transportation system.
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