



Year 2 Project Work Plan 2020 – 2021

Award Period: January 1, 2021 – December 31, 2021

Submit Work Plan (.docx) and Budget (.xlsx) by email to rbertini@usf.edu and rraturi@cutr.usf.edu

Instructions: Please insert your text input in Arial 11 pt single spaced format.

1. Title / Campus / Investigator Role *[pull down boxes to select responses]*

Title: Tampa Bay Citizen Academy on Transportation (TB-CAT): An Education Partnership Program with the City of Tampa

Campus: University of South Florida

Role: Lead

2. Principal Investigators *[include for each project investigator on your campus]*

Name Jason Jackman, PI

Email Jackman@cutr.usf.edu

Name Kristine Williams, Co-PI

Email kwilliams@cutr.usf.edu

3. Abstract *[250 words; abstract must exactly match on lead and collaborator work plans]*

Public involvement with local transportation decision-making and improvements is a key component to increasing knowledge for transportation policies, infrastructure, budgeting, equity, and overall building a sustainable network for all road users. With new roadway infrastructure improvements currently taking place throughout the Tampa Bay region, more education is needed for guiding citizens to better understand the importance of these improvements and how they impact transportation safety, community return on investment, and creating sustainable cities.

4. Keywords

Public involvement; safety education; transportation safety; e-learning

5. Research Objectives]

The goal of this project is to plan, prepare, and implement a citizen transportation course that includes soliciting local partners for opportunities for guest lectures and project panel members. An evaluation will be completed to determine the impact of the transportation course.

The major objectives of this phase for this project are to:

- Create a safety education campaign messaging with outreach strategies that will complement the recommended safety improvements for each focus area.
- Develop an evaluation method for safety education reach and safety knowledge.
- Collect and analyze data from outreach education strategies.
- Document study results and findings, and provide recommendations for future safety education campaign strategies.

6. Specific Tasks, Time Schedule and Deliverables *[Describe tasks, provide schedule, and*

deliverables as applicable]

Supporting Tasks and Deliverables

Task 1: Kick-off conference; develop the course syllabus and class structure

Deliverable 1: This task will kick-off the project and develop the course syllabus and class structure. (January 2021 – February 2021)

Task 2: Announce and market program within the city limits; setup virtual e-learning platform

Deliverable 2: With the assistance of the city, this task will market the class program within the city limits. (January 2021 – February 2021)

Task 3: Connect with local partners for guest lectures and panel member opportunities

Deliverable 3: This task will lock-in partners for lecture and panel opportunities. (January 2021 – February 2021)

Task 4: Lead the class through the five modules

Deliverables: Lead the eight-week course through the five modules and class projects. (March 2021 – May 2021)

Task 5: Class Evaluation and Analysis

Deliverable 5: This task will compile the class evaluation data collected from course participants. (June 2021 – August 2021)

Task 6: Draft Final/Final Report/Closeout Teleconference

Deliverable 6: Draft Final Report: The CUTR research team will prepare and submit a Draft Final Report. Upon approval of the Draft Final Report, the University will submit the Final Report in PDF and Word formats electronically to the Project Manager. The Final Report will be due by the end of the project contract. (June 2021 – August 2021)

7. Potential Benefits *[A few sentences, measurable if possible]*

Improve citizen knowledge on transportation safety and infrastructure to better improve and prepare their involvement with decision making within their communities.

8. Total Cost *[prepare separate budget in .xlsx format using NICR template]*

\$ Federal

\$ Match

\$ Total

9. Matching Funds Discussion *[1-2 sentences describing state DOT, private, university, local government matching funds and collaboration]*

Text

10. Schedule *[mm/dd/yyyy; include 2 months for peer review and edits of draft final report]*

Start Date January 2021

End Date August 2021

11. Collaboration Approach *[1-2 sentences describing how you will handle the collaboration between the lead/collaborator university investigators. How will you handle the compilation of a single final report?]*

USF will write the report.

12. Stakeholder Involvement and Technology Transfer *[1-2 sentences describing engagement with stakeholders, stakeholder related needs, and T2 activities and products, see Appendix 3]*

1. Involvement with the City of Tampa & unincorporated areas
2. Partners: City of Tampa, HART, MPO, county, regional, state, Safe Routes to School, Vision Zero, COT Mayor's Neighborhood University, FDOT, CUTR, MPOAC, Bike Walk Tampa, Walk Bike Tampa

13. Peer Reviewer Suggestions *[Please suggest 2-3 candidate arms length peer reviewers for your work plan and/or final report]*

Name

Email

Name

Email

14. Human Subjects/Institutional Review Board (IRB) Involvement *[Please indicate whether you will be seeking IRB approval on your campus for any proposed tasks]*

No

APPENDIX 1 Project Requirements

- A single final report (peer reviewed) for each project is required. Your draft final report will be due two months before the grant end date.
- Work closely and cooperatively with NICR staff who will be asking for semi-annual progress reports and project performance measures for submission to U.S. DOT.
- Final report must include this disclaimer:
The contents of this report reflect the views of the authors, who are responsible for the facts and the accuracy of the information presented herein. This document is disseminated under the sponsorship of the U.S. Department of Transportation's University Transportation Centers Program, in the interest of information exchange. The U.S. Government assumes no liability for the contents or use thereof.
- All reports, presentations and other project materials must include the [NICR logo](#) and the following acknowledgment:
This work was supported by the National Institute for Congestion Reduction (NICR) and funded by the U.S. Department of Transportation Office of the Assistant Secretary for Research and Technology University Transportation Centers Program under Grant No. 69A3551947136.
- Each project should include student support.
- As part of NICR's dissemination efforts PIs are encouraged to submit papers to the Transportation Research Board Annual Meeting and other relevant venues.
- Please work cooperatively with NICR staff who will prepare a project webpage, Policy Brief and arrange a project webinar as part of NICR's dissemination efforts.
- A travel allocation of \$XXX will be established [TBD].

I agree to these conditions and will comply with relevant program, university and federal policies.

Signature of
Principal
Investigator:

Jason Jackman

Date:

10/28/2020

APPENDIX 2 Project Data Management Plan

The NICR [Data Management Plan \(DMP\)](#) discusses handling, storage, dissemination, and sharing of research results via Scholar Commons. NICR's data policies include:

- Data used/generated will be available in open access format and will be openly shared.
- Metadata and data dictionaries will be used so that others may understand our data.
- Data to be archived with disaster recovery procedures so that data will remain openly available and recoverable.

To satisfy project DMP, please include any (very) brief relevant information below:

Data Description

1. Project data to be collected or used, and any details of the data-producing program.
2. Description of project data that will be generated, including nature and scale.
3. Methods and procedures for creating the data.
4. Time period over which data will be collected, and update frequency.
5. Relationship between data collected and existing/previously collected data.
6. Potential data users.
7. Potential long-term data value for project, NICR, U.S. DOT and the public.
8. Rationale for limiting public access (in limited cases, as applicable)
9. Party responsible for managing data at project level.

Standards Used

1. Open data formats to be used (justify use of proprietary data format).
2. Data version control.
3. Metadata or data dictionary to make the data understandable by other researchers, and management/storage of same.
4. Tools or software required to read or view the data.
5. Data quality control measures.

Access

1. What data will be publicly shared and how it will be accessed.
2. Plans to follow campus IRB/HRPP policies, methods for protecting PII, confidentiality and security.
3. Justify any restrictions on data access.
4. Any additional steps beyond campus IRB and HRPP policies to protect privacy and confidentiality.

APPENDIX 3 Project Technology Transfer Plan

The **NICR [Technology Transfer \(T2\) Plan](#)** outlines the people and organizations involved in the T2 process, their roles, activities, and desired outcomes. NICR is committed to implementing our research results in real settings. NICR will implement a holistic, proactive T2 program through the lifetime of this grant. To satisfy project T2 Plan requirements, please include any (very) brief relevant information below related to your project:

1. Identify stakeholder-identified needs assessment and problem statement.
2. Identify stakeholder-identified expected outcomes.
3. Identify tangible project products, including reports, software, and instructional material.
4. Describe how results will be incorporated in teaching, training, and learning.
5. Describe how project will develop/leverage partnerships beyond the life of this research activity.
6. Your recommendation for transferring findings to other researchers, professionals and practitioners.
7. Describe any commercialization opportunities.
8. Do you anticipate needing patent support.
9. Identify your project on the [Technology Readiness Level](#) (TRL) scale (1-9).

APPENDIX 4 NICR Planned Projects

NICR Year 1 Projects 2019 – 2020

Project	Lead	Collaborator
Pillar 1 Urban and Rural Traffic Management in the Age of Big Data		
1-1 Demand-Side Management of Auto Traffic	Walker & Hansen UCB	Lin & Z. Wang USF
1-2 Supply-Side Management of Auto Traffic	Sunkari TAMU/TTI	Cassidy & Shen UCB
1-3 System Monitoring of Auto Traffic	Brydia TAMU/TTI	Shen & Cassidy UCB
1-4 Transit Priority	Li & Bertini USF	Daganzo UCB
1-5 Multimodal Integration		
1-6 Assessing Impacts of Proposed Strategies & Disseminating Findings		
Pillar 2 Battling Congestion Using Innovative Mobility Platforms		
2-1 Generalizing the Current Modeling Framework	Shaheen & Frick UCB	Sener TAMU/TTI
2-2 Formulating Innovative Mobility Policies to Reduce Congestion		
2-3 Enhancing Equity and Access		
2-4 On-Demand Ride Services with Connected or Automated Fleets		
2-5 Disseminating Findings		
Pillar 3 Incentivizing Transit in the Face of Innovative Alternatives		
3-1 Influencing Travel Behavior via an Open Source Platform	Barbeau & Maness USF	Turner TAMU/TTI
3-2 Financial Incentives to Reduce Vehicle Miles Traveled		
3-3 Targeting Transit Incentives to Congestion Sources	Rodriguez & Chatman UCB	P. Chen & Winters USF
Pillar 4 Battling Congestion on Freeway Corridors		
4-1 Pricing Mechanisms for Managed Lanes	Burris TAMU/TTI	Figueroa UPRM
4-2 Proactive Congestion Management	Concas & Perk USF	Kuhn TAMU/TTI
4-3 Corridor-Wide Surveillance Using Unmanned Aircraft Systems	Colucci UPRM	Zhang & Kourtellis USF

APPENDIX 5 NICR Performance Measures Research Activity Performance Metrics

- Number of students participating in research
- Number of research projects
- Total dollar value of research projects
- Number of NICR research reports published and their downloads.
- Number of peer reviewed journal publications and their citations.
- Number of products, technologies & other research products used by stakeholders.

Leadership Performance Metrics

- Transportation student success factors (numbers of students in leadership positions in transportation student organizations, and the numbers receiving awards, fellowships, scholarships, and internships)
- Early career faculty success factors (numbers of early career faculty in leadership positions in transportation organizations, committees, and panels and their awards)
- Faculty leadership indicators (numbers of faculty and their roles on committees, panels, editorial/policy/advisory boards, and their keynote/plenary lectures, professional certifications, awards, and briefings to public officials)

Education and Workforce Development Performance Metrics

- Number of courses
- Number of advanced degree programs
- Number of students supported
- Number of degrees awarded
- Degree-granting success factors: numbers of students participating in student groups, conferences, and internships
- Working professional success factors: numbers of transportation professionals served via NICR-sponsored seminars, workshops, and other education/outreach events, and participant satisfaction survey responses
- New entrant success factors: numbers of K12 and community college activities and participants

Collaboration Performance Metrics

- Number of projects that include more than one PI, discipline, mode and/or campus.
- Number of transportation agencies and organizations involved in NICR projects through matching funds, in-kind support, data provision or oversight.
- Number of organizations and associations (e.g. TRB, AASHTO, APTA, ITE, ITS America, etc.) connected to NICR projects and activities.

Diversity Performance Metrics

- Number of faculty, staff and graduates from identified groups (tribal, minority, low-income, first-generation college, female, rural, persons with disabilities)
- Number of education and workforce development activities and events aimed at attracting diverse students, and attendance.
- Number of events co-sponsored with WTS, COMTO and other diverse organizations, and attendance.