



Semi-Annual Progress Report No. 1 – Center for Equitable Transit Oriented Communities

Submitted To: U.S. Department of Transportation
Office of the Assistant Secretary for Research and Technology

Grant Number: 69A3552348337

Project Title: Center for Equitable Transit Oriented Communities (CETOC)

University of New Orleans (Lead Institution)
Florida Atlantic University
University of Colorado, Denver
University of Florida
University of Utah

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Submitting Official: Same As Above

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Recipient Organization: University of New Orleans
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Recipient Identifying
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Grant Period: 6/1/2023 – 5/31/2028

Reporting Period End Date: 9/30/2023

Report Term: Semi-Annual

Signature: *Guang Tian*

1. ACCOMPLISHMENTS

1.1 What are the major goals of the program?

CETOC's Mission is to cultivate transit-centered, equitable, and resilient communities that support residents' multimodal travel needs and preserve the environment.

Goals:

Research: Advance scientific knowledge and identify innovations that can inform the planning and development of equitable transit-oriented communities.

Leadership: Cultivate a diverse group of visionary transportation leaders who will dedicate their careers and inspire others to advance public transportation and build equitable and resilient communities.

Education and Workforce Development: Train a new generation of transportation professionals with the knowledge and techniques needed to meet the challenges of the present and be prepared for the future.

Tech Transfer: Develop transformative products (e.g., tools, databases, methods, and strategies) to be widely adopted and implemented by the transportation profession for building equitable transit-oriented communities.

1.2 What was accomplished under these goals?

In this reporting period, we have been focused on developing necessary protocols for grant execution and finalizing contracts with consortium member universities, as well as developing the center website, social media, data management plan and other research and outreach frameworks.

1.2.1 Research

Project selection is underway for the first year, and while research has begun on many of the projects outlined below, *they are all considered pending at this time until all sub-grant contracts with consortium members have been approved by all involved parties.* The anticipated first-year research projects for the center are as follows:

Lead University	Project Name	PI(s)
UNO	Longitudinal Analysis of Transit's Land Use Multiplier in Three Regions	Guang Tian
UNO	Quantifying the Influences of Telecommuting on VMT and Transit Usage	Guang Tian
UC-D	Examining the Role of Transit Investments on Opportunity Outcomes	Aditi Misra, Manish Shirgaokar,

		Wesley Marshal
UC-D	Understanding Transit User Experience and Expectations in Under-served Communities	Manish Shirgaokar, Aditi Misra, Wesley Marshall
FAU	Using machine learning to understand the built environment's influence on 15-minute transit-oriented communities	Louis Merlin
FAU	50 Years of Trends in Station Areas across the United States	John L. Renne
UF	Shared micromobility as a last-mile complement to public transit	Xiang Yan
UF	Analyzing transit-based evacuation demand in hurricanes	Xilei Zhang
UU	Gentrification, displacement, and GHG emissions at Transit-Oriented Communities	Andy Hong
UU	Is transit-oriented development affordable for low- and moderate-income households (in terms of H+T)	Reid Ewing

1.2.2 Leadership

Leadership Effectiveness Metrics	Progress
# of national and regional leadership positions held by CETOC PIs	10
# of conference planning positions held by CETOC PIs	5
# of leadership and research awards received by CETOC PIs	4

1.2.3 Education and Workforce Development

Education and Workforce Development Effectiveness Metrics	Progress
# of transportation-related Masters degree programs offered	7
# of transportation-related PhD degree programs offered	5
# of transportation-related certificate programs offered	1

Please note that the above numbers do not include all consortium member Universities at this time; certain Universities are barred from reporting degree programs as being associated with CETOC until final subgrant agreements have been signed with UNO.

3 students at the lead university UNO are actively funded by CETOC research projects at this time and contributing to the transportation workforce.

1.2.4 Technology Transfer

Technology Transfer Effectiveness Metrics	Progress
# of related editorial Journal positions held by CETOC PIs	12

1.3 How have the results been disseminated?

Nothing to report. CETOC-funded research projects have either just begun in the past month or are pending final contract agreements between UNO and consortium members.

1.4 Plans for next reporting period

In the next reporting period, we intend to have all consortium partner subcontracts/subawards finalized and research underway on all year one projects. CETOC advisory board members will be recruited. CETOC PIs and CETOC-funded students will attend TRBAM in Washington, D.C. to meet and disseminate results of CETOC-related (not necessarily CETOC-funded) research.

2. PARTICIPANTS & COLLABORATING ORGANIZATIONS

Nothing to report. Outside of consortium members, there have been no other participating or collaborating organizations.

3. OUTPUTS

3.1 Publications

Nothing to report.

3.2 Websites and Other Internet Sites

3.2.1 CETOC Homepage

<https://www.uno.edu/cetoc>

3.2.2 CETOC Social Media:

Instagram: <https://www.instagram.com/cetocofficial/>

LinkedIn: <https://www.linkedin.com/company/cetoc/>

X/Twitter: <https://twitter.com/CETOCOfficial>

YouTube: <https://www.youtube.com/@CETOCOfficial>

3.3 Technologies & Techniques

Nothing to report.

3.4 Inventions, Patents, & Licenses

Nothing to report.

3.5 Other Products

Nothing to report.

4. OUTCOMES

4.1 Increased Understanding and Awareness of Transportation Issues

The UNOTI Fall 2023 Speakers Series held at UNO in conjunction with CETOC introduced students and members of the public to a wide variety of transportation industry professionals from a broad range of public, private, and NGO organizations and entities who delivered talks on all aspects of the transportation system from active personal transportation and local public transit to intermodal freight and beyond, including on-site tours which covered a wide variety of issues and potential career paths in transportation.

4.2 Passage of new policies, regulation, rulemaking, or legislation

Nothing to report.

4.3 Increases in body of knowledge

Nothing to report.

4.4 Improved processes, technologies, techniques, and skills

Nothing to report.

4.5 Enlargement of the pool of trained transportation professionals

Students at consortium universities completed a wide range of transportation-related courses; on-site tours with the UNOTI Fall 2023 Speakers Series introduced students to a wide variety of transportation-related professional opportunities.

4.6 Adoption of new technologies, techniques, or practices

Nothing to report.

5. IMPACTS

5.1 Effectiveness of the Transportation System

Nothing to report.

5.2 Technology Transfer

Nothing to report.

5.3 Increase in the Body of Scientific Knowledge

12 editorial Journal positions held by CETOC PIs.

5.4 Transportation Workforce Development

See 1.2.3; 4.1.

5.5 Transfer of Results

Nothing to report.

5.6 Commercialization of Technology

Nothing to report.

5.7 Adoption of new practices

Nothing to report.

5.8 Opportunities in research and training

See 1.2.3; 4.1.

5.9 Underrepresented Groups

Nothing to report.

5.10 Development and Dissemination of New Educational Materials

Nothing to report.

6. CHANGES/PROBLEMS

The primary challenge facing CETOC in this reporting period has been finalizing the subcontracts/subawards for all consortium members. Final approvals are underway, and we anticipate these being finalized very soon.

7. SPECIAL REPORTING REQUIREMENTS

Nothing to report.