

# C2SMART⇌ER

CONNECTED COMMUNITIES FOR SMART MOBILITY  
TOWARDS ACCESSIBLE & RESILIENT TRANSPORTATION  
FOR EQUITABLY REDUCING CONGESTION



## 2023-2024 Request for Proposals

U.S. DOT requirements  
for center-funded  
research projects

August 2023



# Agenda

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RFP & Submission Requirements

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Goals of C2SMARTER funded projects

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Roles, Responsibilities, and Requirements

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# 1. 2023-2024 Request for Proposals

## Key Steps & Milestones:

1. *Abstract Submission*
2. Full Proposal Submission
  - Due by: **August 27, 2023**
3. External Peer-review
4. Notification, response to comments & revised submission
  - Expected: **Mid-September 2023**
5. Project authorization & kickoff
  - Expected: **October 1, 2023**



# 1. 2023-2024 Request for Proposals

## Proposal Submission Steps:

Submit online at:

<https://c2smarter.engineering.nyu.edu/submit-a-proposal-for-c2smarters-2023-rfp/>

**Deadline: August 27, 2023**

## Submission Requirements

1. Proposal Document (.docx format)
2. Proposal Budget (.xlsx format)
3. 2-page max CVs of Key Personnel (PI & Co-PIs at minimum)
4. 2-page max budget justification
5. (Optional) Letters of Support
6. (If applicable) IRB protocol



## 2. Goals of C2SMARTER Funded Projects

### Research Focus on multi-modal congestion solutions

- One stop shop for **congestion**-related research
- **Transformative research**
  - *New:* U.S. DOT intends to review individual projects
- **Equity** in transportation

### Impactful outcomes

- Real-world partners and implementations/products
  - *Example:* C2SMART-NYCDOT Testbed on the BQE
- Meet U.S. DOT RD&T strategic goals and performance metrics
  - *What is the value added of this funded effort?*

### Project plans

- Multi-University projects and collaborations are very important
- Use C2SMARTER funding as seed funding to develop larger projects with national impacts
- Avoid repetition of work across other centers and also in time
- Coordination and synergy with **mobility** UTCs



## 2. Goals of C2SMARTER Funded Projects

### Key Research Outputs/Outcomes

- Multi-modal **models/systems reducing congestion** created using novel data, or AI/ML
- **Tools, methods, or procedures** to measure increases in social, spatial, environmental, and economic equity
- New or enhanced **cyber/physical testbeds** created and shared
- **Workshops, seminars, or forums** to share best practices, technology, data
- Peer-reviewed **papers** and conference presentations

### Key Education/Workforce Development Outcomes

- Increase the **diversity** of **students** graduating C2SMARTER programs
- New/modified **courses** on **congestion**, and/or strategic area of transportation equity
- Working professionals attending C2SMARTER **trainings/workshops**
- New/modified **K-12** or **non-degree programs** targeting under-represented enrollees



## 2. Goals of C2SMARTER Funded Projects

### Minimum Requirements

- **50% non-federal matching funds** for research projects
- **Deliverables** including a substantive final report
  - *Final reports will also be peer-reviewed*
- Data management plan
- Technology transfer plan

### Preferred Proposals

- **Cash match** from industry or agency partner
- Education, workforce development, or other **partner-driven technology transfer** tasks
- Cross-institution and collaborative joint proposals



## 2. Goals of C2SMARTER Funded Projects

### Resources for Proposal Development

#### C2SMARTER DATA MANAGEMENT PLAN

<https://c2smarter.engineering.nyu.edu/wp-content/uploads/2023/08/C2SMARTER-Data-Management-Plan-v0.9.pdf>

#### U.S. DOT RD&T STRATEGIC PLAN

[https://www.transportation.gov/sites/dot.gov/files/2023-01/USDOT%20RDT%20Strategic%20Plan%20FY22-26\\_010523\\_508.pdf](https://www.transportation.gov/sites/dot.gov/files/2023-01/USDOT%20RDT%20Strategic%20Plan%20FY22-26_010523_508.pdf)

#### EXAMPLE FINAL REPORTS

<https://c2smarter.engineering.nyu.edu/c2smart-publications/>

**C2SMARTER**

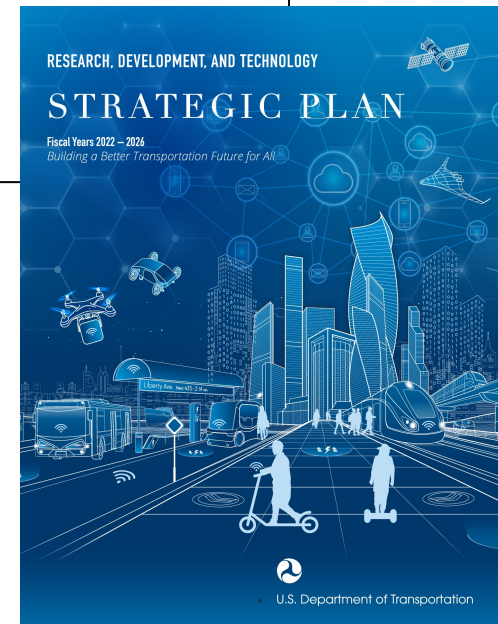
**Connected Cities for Smart Mobility towards Accessible Resilient Transportation for Equitably Reducing Congestion (C2SMARTER)**

**Master Data Management Plan**

Version 0.9  
(Released July 31, 2023)

**Lead Institution**  
New York University

**Partner Institutions**  
New York City College of Technology  
North Carolina A&T University  
Rutgers University  
Texas Southern University  
University of Texas-El Paso  
University of Washington





# 3. Roles, Responsibilities, and Requirements

## All data, papers, articles, and other outputs of C2SMARTER-funded projects must be made publicly available per federal requirements

1. Datasets, code, and products generated as a result of C2SMARTER funds must be made available to the public and preserved for long-term access
  - *e.g. the Center's Zenodo data repository*
2. All reports and full-text pre-publication manuscripts must be uploaded to the National Transportation Library even if published in a journal or conference proceeding
  - All rights under copyright are non-exclusively retained by U.S. DOT and the terms and conditions of publication to peer-reviewed journals and other outlets do not impair the obligation of the authors to comply with the plan
3. Any charges or spending on grant account must comply with U.S. DOT requirements
  - [https://www.transportation.gov/sites/dot.gov/files/2023-06/UTC General Provisions of Grants FINAL June 2023.pdf](https://www.transportation.gov/sites/dot.gov/files/2023-06/UTC_General_Provisions_of_Grants_FINAL_June_2023.pdf)



# 3. Roles, Responsibilities, and Requirements

## 1. Semi-annual progress and performance reporting

- Progress updates are critical to **C2SMARTER's U.S. DOT reporting** and its continued funding
- Reported information is aggregated and reported out to U.S. DOT, which shares updates on the UTC program to justify program funding to U.S. Congress
  1. **Semi-annual Progress Report Document** – updates on project progress and outcomes
  2. **Semi-annual Financial Report** – summary of grant spending from home institution's accounting department
  3. **Semi-annual Project Performance Metrics Spreadsheet** – identification of outputs/outcomes meeting C2SMARTER performance reporting goals

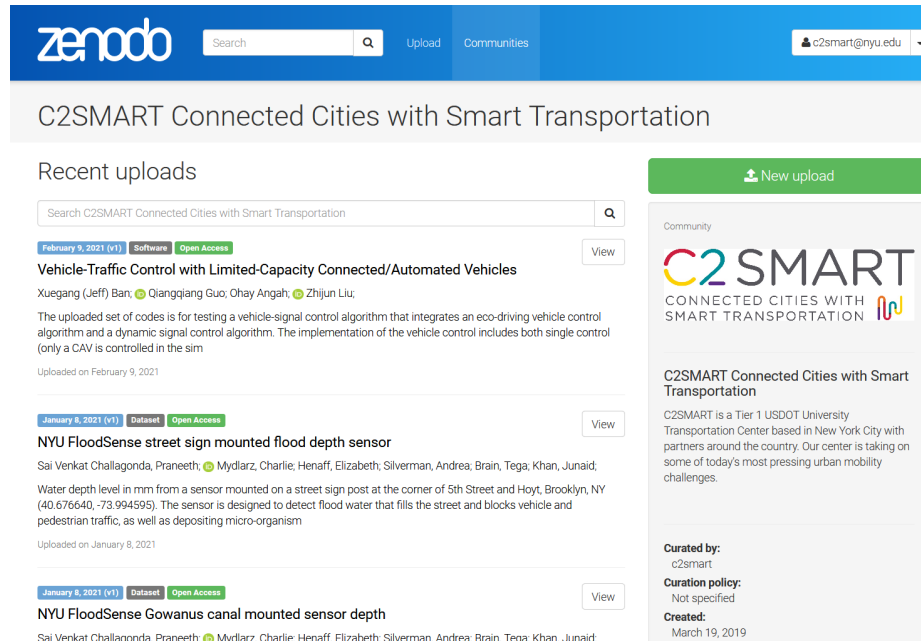
## 2. Meetings with center administration

- PI/teams will meet with Center administration at the kick-off, midway point, and prior to conclusion of each project to provide updates and gain feedback
- Other meetings as required/requested



# 3. Roles, Responsibilities, and Requirements

## Data Management Best Practices



**C2SMARTER DATA MANAGEMENT PLAN**  
<https://c2smarter.engineering.nyu.edu/wp-content/uploads/2023/08/C2SMARTER-Data-Management-Plan-v0.9.pdf>

Data Description	Standards Employed	Access Policies	Re-use & Derivative Policies	Archiving & Preservation Plans
Dataset is named, well described, and linked to a research project or data program.	If data is created in proprietary formats, copies in open formats are also provided.	Data is publically accessible.	The intellectual property rights to this dataset have been established.	A data repository dedicated to long-term preservation has been chosen for this data.
The types of data generated by the research or program are known.	Data formats are standard for our field.	What data will be shared, and how, is known and recorded.	Data is licensed under the most open license possible, such as Public Domain or Creative Commons 0.	A minimum data retention period has been agreed upon with chosen archive.
The size of data is known and organization has capacity for files.	Directory and file naming conventions are documented & used at time of data collection.	Researchers have received training to protect PII and other rights.	If there is a data embargo period, it is as short as possible.	Persistent identifiers (such as DOIs) are used to link to the data.
Long-term value of the data to organization and public has been discussed.	Metadata is used to contextualize the data, making it comprehensible to us and others.	Personally Identifiable Information (PII) is protected or anonymized.	Possible reuse audiences for this data, now and later, have been considered.	Back-up and disaster recovery plans are in place.
Parties responsible for managing data are known and listed.	Published metadata schemas are employed, & are standard to the field.	Embargo periods to protect PII and business sensitive information have been established.	Special tools needed to work with the data are documented in metadata.	Staff has been assigned to migrate data files as data formats change over time.

Based on NTL's "Creating Data Management Plans" <http://ntl.bts.gov/publicaccess/creatingaDMP.html>

v.01, 2016-08-11



# 4. Questions & Answers

## Center contact information

- **General Email:** [c2smarter@nyu.edu](mailto:c2smarter@nyu.edu)
- **Website:** <http://c2smarter.engineering.nyu.edu>
- **Mailing Address:**  
C2SMARTER Center  
NYU Dept. of Civil & Urban Engineering  
6 Metrotech Center, 4th Floor, Brooklyn, NY 11201

## Contact info for center personnel

- **Director:** Kaan Ozbay ([kaan.ozbay@nyu.edu](mailto:kaan.ozbay@nyu.edu))
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- **Project Manager:** Lizzie Pohl ([ejp321@nyu.edu](mailto:ejp321@nyu.edu))
- **Grant Manager:** Oishi Ahmed ([oishi.ahmed@nyu.edu](mailto:oishi.ahmed@nyu.edu))



# C2SMARTER Consortium Institutions

