



STUDENT SUSTAINABILITY COMMITTEE

Scope Change

From time to time unforeseen challenges or opportunities can affect the planned budget, timeline, or overall goals of a project funded by the Student Sustainability Committee. Past examples of these situations include projects coming in under budget but having additional opportunities available, or inclement weather delaying the planting of agriculture projects.

Below please include a brief project summary and your requested changes. Attach additional documents as needed. If you have any questions, please contact the Student Sustainability Committee at sustainability-committee@illinois.edu.

General Information

Project Name: Bike and Ped Counters

Total Amount Requested from SSC: \$25,208

Contact Information

Applicant Name: Sarthak Prasad
Unit/Department: Facilities & Services
Email Address: sprasad9@illinois.edu

Project Information

Please provide a brief background of the project, the goals, and the desired outcomes:

Original Project information:

Original project name: Bicycle Registration and RFID Tracking Program

Hundreds, if not thousands, of students already use their bicycles on a daily basis to get to and from class. This project funds an opt-in bike tracking system for all registered campus bikes working toward two goals:

1. Collecting useful data on where cyclists are biking on campus for more accurate and timely information than the perennial bike census; and
2. Providing incentives for people who bike to campus, in the form of points toward or drawings for gift certificates for local dining options near campus.

When students and faculty of the University register their bikes, they will each receive a tag for their bike with a personal ID number. With the data collected about their individual biking habits, students and faculty will be able to track how often they bike and earn rewards through an online interface and incentive system. The interface will show the number of times biked, the rewards an individual can earn, and offer the ability to submit reports since bikers often see needed improvements before planners and engineers.

This system is being developed entirely in-house by a team of women engineers.

This proposal directly funds:

1. Supplies for creating the system
2. 2 interns to assist with logistics
3. Mounting equipment and RFID tags

Updated project information:

Project name update: Bike and Ped Counters

The Champaign Urbana Urbanized Area Transportation Study (CUUATS) has been awarded \$35,000 by IDOT (for the MCORE project) to purchase and install counters (to automatically count pedestrian and bike traffic) along the identified MCORE corridors. This project proposal is to collaborate with CUUATS to install these counters, which will support future research, projects, and policy. There are 12 predetermined locations where the counters need to be installed (see the list in the Appendix). Three locations have been identified to install the Eco-Counters:

1. Illini Union (one at North of Green Street and one at South of Green Street) – Installed and online since March 2020
2. Intersection of Armory Avenue and Sixth Street – Planned installation date of August 2021

3. Intersection of Wright Street and Healey Street – Planned installation date of August 2021

This SSC funding will be used for the installation of the Eco-Counter installation at these two locations. The remaining funds will be used to purchase and install additional bicycle and pedestrian counters at another pre-determined MCORe corridor. F&S TDM has received a quote to purchase a new set of Eco-Counter. F&S TDM will cover the overage for the installation of the new Eco-Counter, if needed.

Please provide a brief summary of how students will be involved in the project's changes: Students will help with analyzing the data collected with the Eco-Counter.

Please provide a brief summary of your requested scope change. How is your request different from your original plan?

Why we want a scope change? – Eco-Counter was installed and started operation at the Illini Union (Green Street) location in March 2020. The Eco-Counters at the other two locations (Armory Ave. & Sixth St. and Wright St. & Healey St.) will be installed by August 2021. The remaining funds will be used to purchase more counters for the remaining nine (9) MCORe corridors.

Furthermore, the overall project information has changed from the original, including the primary contact for this project.

What change are we proposing? –

1. Change the project name from “Bicycle Registration and RFID Tracking Program” to “Bike and Ped Counters”
2. Change the primary contact to Sarthak Prasad
3. Updated project description
4. Extending the timeline for this SSC grant to June 30, 2022.

Where will the Eco Counters be installed? – Three locations have been identified to install the Eco-Counters:

1. Illini Union (one at North of Green Street and one at South of Green Street) – Installed and online since March 2020
2. Intersection of Armory Avenue and Sixth Street – Planned installation date of August 2021
3. Intersection of Wright Street and Healey Street – Planned installation date of August 2021

New Timeline requested: June 30, 2022

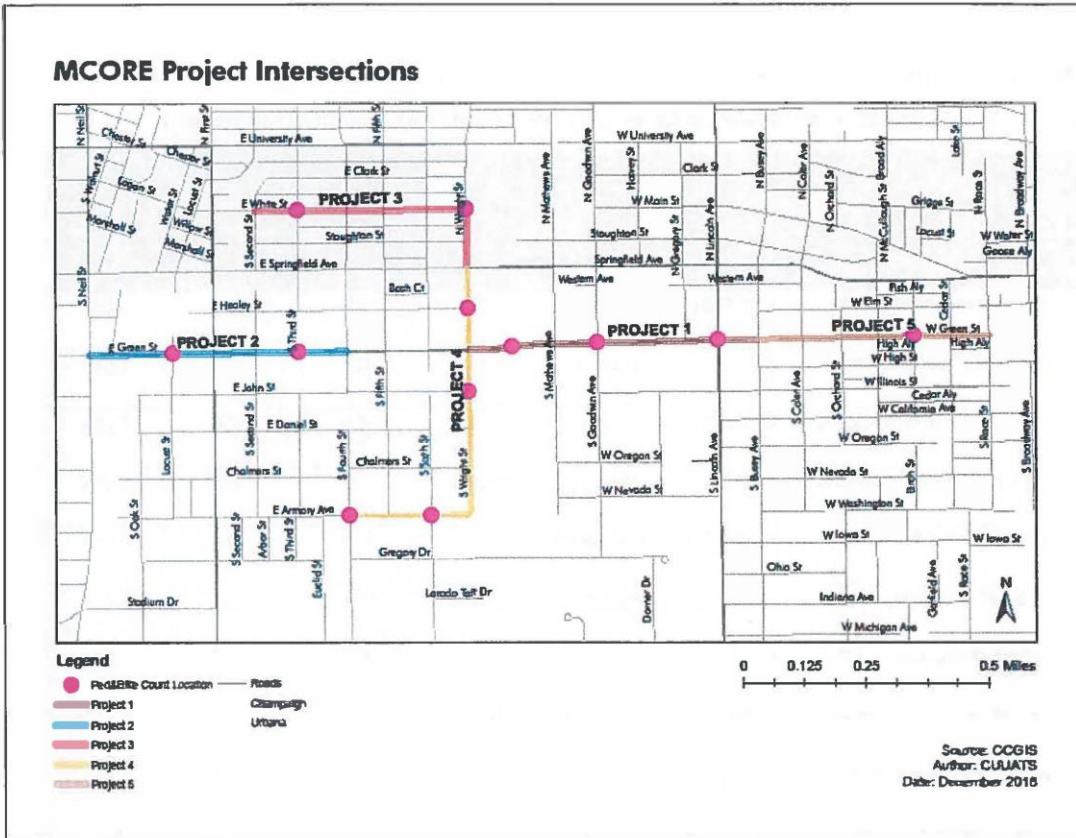
Additional comments (Optional)

We are very grateful for SSC's continued support to enhance our students' transportation experience on campus as well as SSC's continued patience with this project.

Appendix



Figure 1: MCORE Corridors and Pedestrian and Bicyclist Data Collection Locations



Pedestrian and bicyclist data at the locations showed above was collected in April and May of 2016 on typical weekdays from 7AM to 7PM when the University of Illinois was in regular session.



Table 2: Total Road Users' Comparisons at Study Locations

Location	Total Number of Vehicles	Total Number of Pedestrians and Bicyclists	Percentage of Pedestrians and Bicyclists
Birch Street/Green Street	2,937	406	12.1
Lincoln Avenue/Green Street	18,965	1,648	8.0
Goodwin Avenue/Green Street	10,009	7,764	43.7
Illini Union Entrance/Green Street	7,415	15,868	68.2
Wright Street/White Street	2,844	2,664	48.4
Wright Street/Healey Street	3,003	8,772	74.5
Wright Street/John Street	2,020	8,298	80.4
Sixth Street/Armory Avenue	5,161	11,170	68.4
Fourth Street/Armory Avenue	7,430	9,044	54.9
Third Street/White Street	1,965	595	23.2
Third Street/Green Street	8,922	2,358	20.9
Locust Street/Green Street	9,597	1,187	11.0

