

Campus Transportation Advisory Committee (CTAC)

University of Illinois at Urbana-Champaign

Facilities & Services, April 27, 2023

Chair – Morgan White

Interim Director of Capital Programs

Associate Director of F&S for Sustainability



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POWER Innovation ILL
World-class Solutions
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Tradition
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Integration
Unity
Involvement
RESEARCH
Explore
Belonging
IN
Inclusion
CELEBRATION
VISION
Change



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Agenda

- Introduction – Morgan White (5 minutes)
- Old Business
 - F&S TDM Status Update – Stacey DeLorenzo and Sarthak Prasad (20 minutes)
 - ADA Transition Plan project updates – Sarthak Prasad (10 minutes)
 - Commuter Program – Sarthak Prasad (5 minutes)
- New Business
 - 2024 Campus Bicycle Plan update – Sarthak Prasad and Ethan Garcia (15 minutes)
 - Veo Bike Share – Sarthak Prasad (10 minutes)
 - No turn on red at Pennsylvania and Lincoln – Stacey DeLorenzo (10 minutes)
 - Mid-block crossing on Oak St by Garage & Carpool – Stacey DeLorenzo and Sarthak Prasad (10 minutes)
 - Potential Road Diet at Oak Street between Kirby and St. Mary's – Stacey DeLorenzo and Sarthak Prasad
- Community Updates – Morgan White or Stacey DeLorenzo (5 minutes)



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Introduction - Members

Morgan White, chair

Staff

Sgt. Rachael Ahart
Det. Tara Hurless
Yasmin Ofiana
Zach Acton
Marty Paulins
Erin Kristovich
Brent Lewis
Pete Varney
Jake Benjamin
Matt Brown
Laura Bleill
Dana Decair

Jamie Singson
Mylinda Netherton
Allison Kushner
Kathy Walsh

Faculty

Ray Benekohal
Bumsoo Lee
Lindsey Braun
Bill Sullivan
Shelly Zhang
Yanfeng Ouyang

Community representatives

David Happ, Champaign
John Zeman, Urbana
Jay Rank, MTD
Roland White, Savoy
Rita Morocoima-Black, CCRPC

Students

Sinead Soltis
Natalie Hill
Briana Barr

Stacey DeLorenzo, ex-officio

Sarthak Prasad, ex-officio



CTAC Responsibilities

- Review aspects of surface transportation on campus, including
 - pedestrian safety,
 - bicycle facilities,
 - transit,
 - automobile traffic,
 - the interaction of all modes of travel on campus
- Responsibilities include items such as:
 - Help identify needs and share information about pedestrian safety initiatives and priorities.
 - Review and make recommendations for prioritizing bicycle infrastructure, education, and enforcement on campus.
 - Provide advisory input to the Commuter Program under development.
 - Review and comment on matters relating to student, faculty, and staff transportation, when needed.

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F&S TDM Status Update: Progress Reports 2023



Progress Reports 2022

- **Campus Bike Plan progress report**
 - Published in spring 2023
 - [Campus Bike Plan progress report FY23](#)
- **TDM Plan Annual Report**
 - Published in spring 2023
 - [TDM Plan Achievement Report FY23](#)



Highlights from Campus Bike Plan report

- Bicycle Programs & Infrastructure Fee (Bike Fee) was approved for FY24
- F&S TDM conducted a Mode Choice Survey in spring 2022 and [published a report](#) in fall 2022
- Pilot for Commuter Program: Bus, Bike, and Hike was launched in spring 2015
- Nearly all donut-loop bike parking removed from campus
 - In fall 2022, replaced the donut loop racks with standard inverted U-loop racks at Illini Union
 - In fall 2022, replaced the donut loop racks with standard inverted U-loop racks at Vet Med
- New bike racks installed
- Bike week 2022 – successful
- Removed abandoned bike path along Springfield Ave and installed a 10' wide shared use path
- Received SSC funding for project

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TDM Plan

- Published in FY20, updated and finalized in FY23
- TDM Prioritization Methods
 - Safety for users: this includes all modes of transportation, including multi modal interactions.
 - Location: this refers to the impact on the overall networks and the perception of that impact.
 - Volume of Traffic: this reflects the number of users in the respective areas.
 - Condition, such as PCI: this considers the condition of the street pavement (UIUC-owned; 20 center-lane miles) and the scale of improvements needed in the respective area.
 - Alignment with campus plans: this considers the connections to strategic priorities and potential coordination with other campus projects.



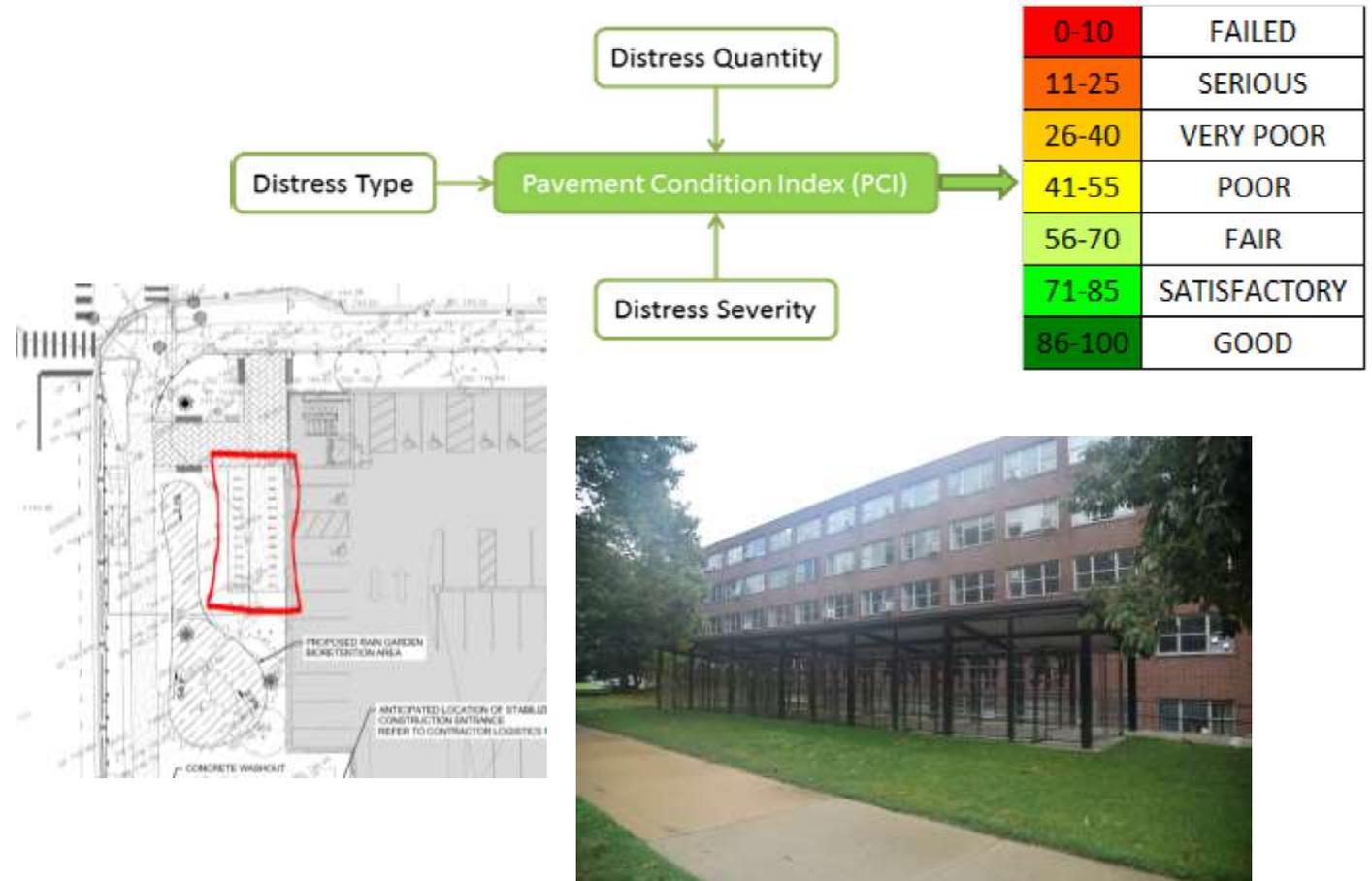
TDM Plan's Key Goals

- Asset Management
- Programming
- Funding Resources
- Community Engagement



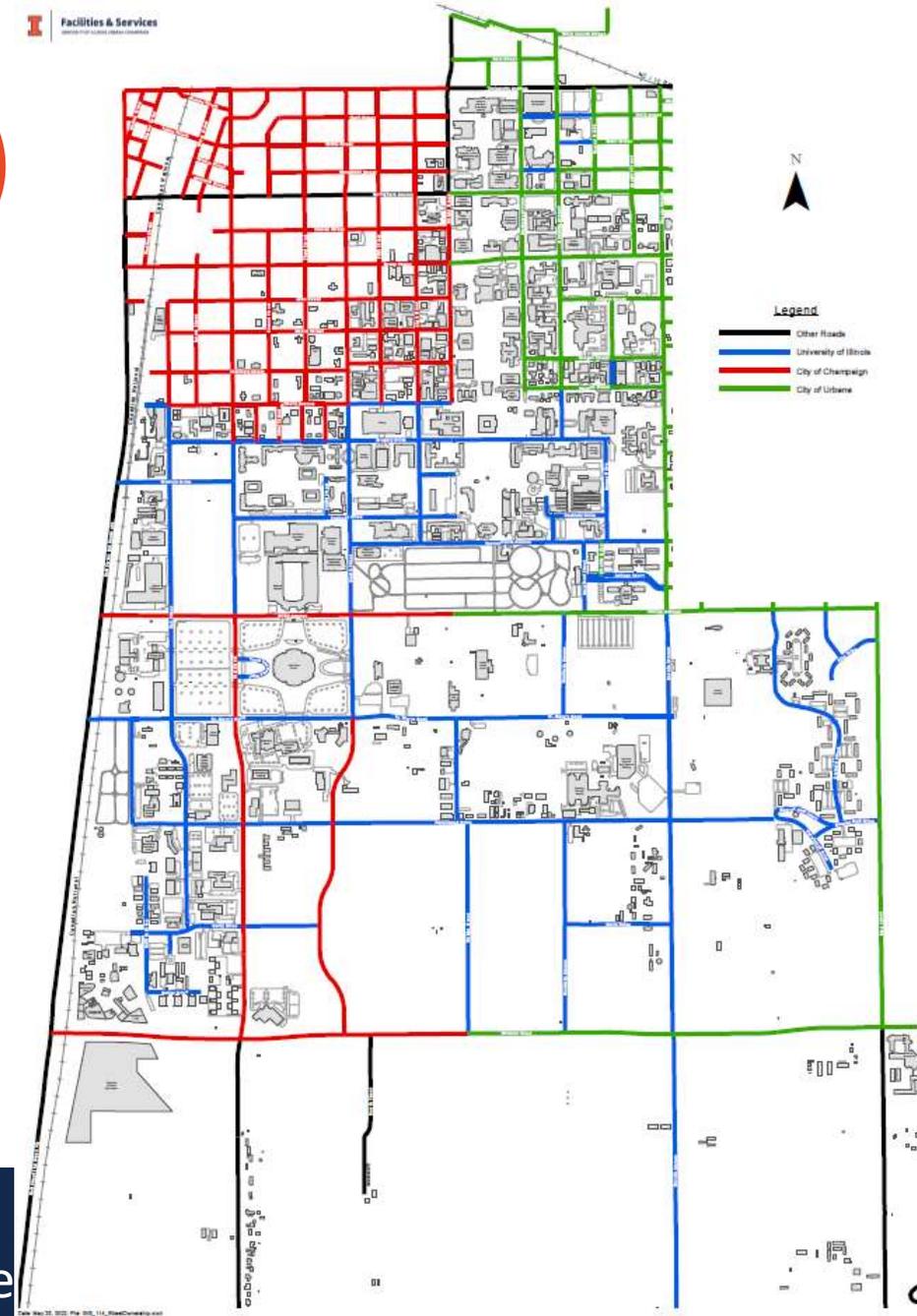
Asset Management

- Transportation Asset Management Plan (TAMP) for streets
 - Patching and spray injection projects
 - Mill and overlay
 - Pavement section(s) replacement/repair
- Striping, Signage, and Traffic Control
 - Striping and painting streets and crosswalks
 - Signage along the streets on-campus
 - Striping of bike lanes, bike paths, and sharrows
- New Infrastructure Projects



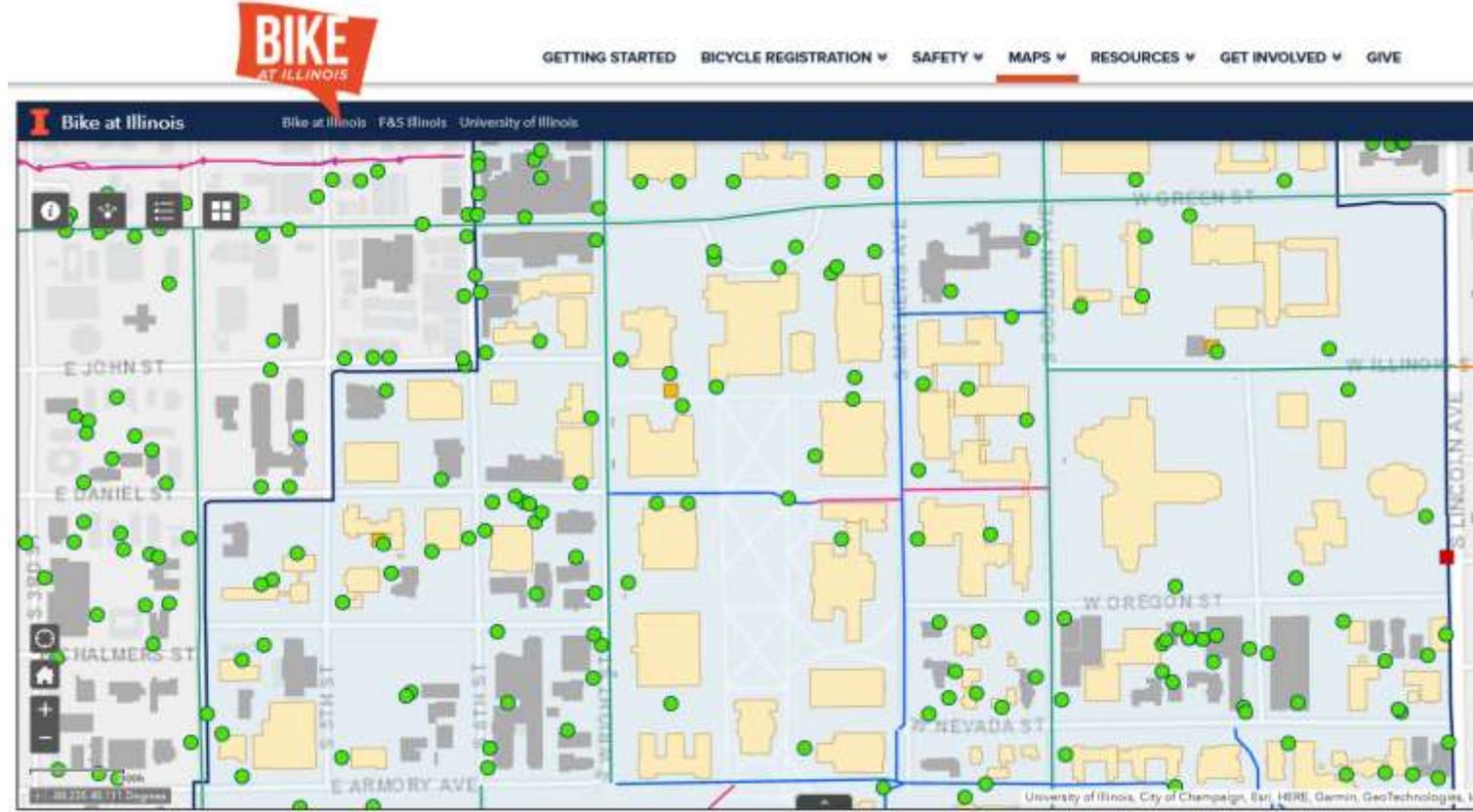
Asset Management (continued)

- Projects for Existing Infrastructure
 - Update the Maintenance Matrices with City of Urbana and City of Champaign
 - Develop a new maintenance matrix with the Village of Savoy
 - Create a new Division of Responsibility (DOR) map for all pavement within the University District
 - Maintenance of bicycle infrastructure
 - Bike Parking
 - Bicycle Repair Stations
 - Bike lanes/paths/sharrows
 - Sidewalk improvement projects
 - Maintain the Eco-Counters
- ADA Right of Way improvement (U19132)
 - To make eliminate ADA Right of Way (ROW) non-compliance in designated accessible routes at various locations across campus.
 - Based on the [ADA Transition Plan 2018 Supplement](#)



STREET OWNERSHIP MAP





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Eco-Counters

- Counters at John and Wright street will be installed before the end of semester
 - SSC funded project
- In process of purchasing 14 more counters for 7 more locations in University District
 - Birch Street and Green Street
 - Lincoln Avenue and Green Street
 - Wright Street and White Street
 - **Wright Street and John Street**
 - Fourth Street and Armory Avenue
 - Third Street and White Street
 - Third Street and Green Street
 - Locust Street and Green Street
- Monthly data is posted on the iCAP Portal: [Pedestrian and Bicycle Counts](#)

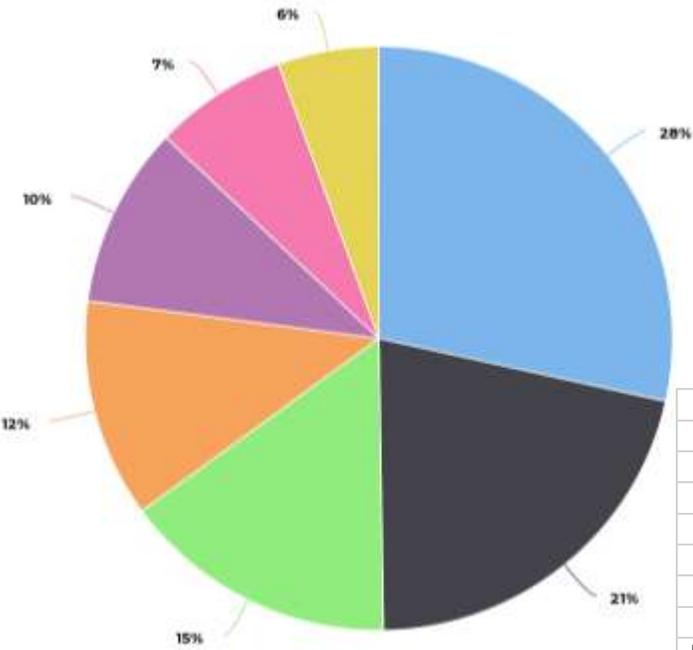


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Pedestrian count

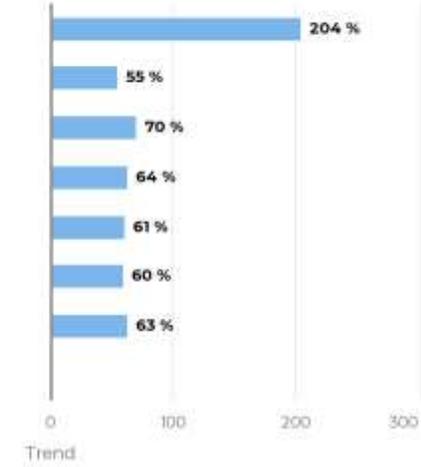
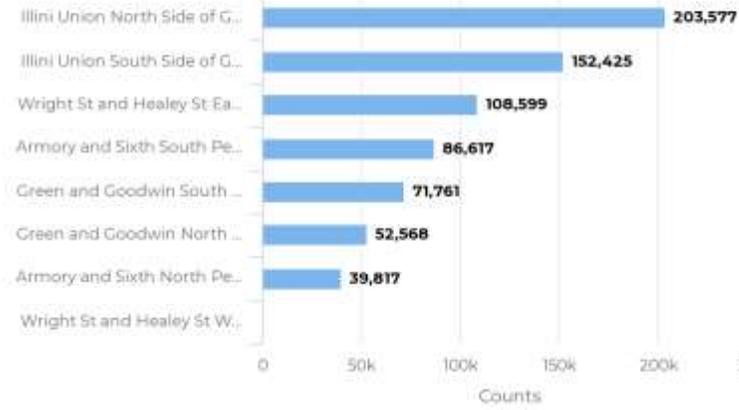
Distribution
February 1, 2023 + February 28, 2023



- Illini Union North Side of Green Street Pedestrian
- Illini Union South Side of Green Street Pedestrian
- Wright St and Healey St East Side Pedestrian
- Armory and Sixth South Pedestrian
- Green and Goodwin South Pedestrian
- Green and Goodwin North Pedestrian
- Armory and Sixth North Pedestrian

Key Figures Summary

February 1, 2023 + February 28, 2023



Period	February 1, 2023 → February 28, 2023								
Site	Total	(%)	Daily Average	(%)	Average week days	(%)	Average weekend traffic	(%)	
Armory and Sixth North Pedestrian	39817	62.9	1422	62.9	1634	87.2	891	2.1	
Armory and Sixth South Pedestrian	86617	63.7	3093	63.7	3881	105.4	1124	-40.5	
Green and Goodwin North Pedestrian	52568	59.9	1877	59.9	2198	87.3	1076	-8.4	
Green and Goodwin South Pedestrian	71761	60.7	2563	60.7	2894	81.4	1734	8.7	
Illini Union North Side of Green Street Pedestrian	203577	203.8	7271	203.8	10178	325.2	3	-99.9	
Illini Union South Side of Green Street Pedestrian	152425	55	5444	55	6283	78.8	3347	-4.7	
Wright St and Healey St East Side Pedestrian	108599	70.3	3879	70.3	4777	109.8	1632	-28.4	
Wright St and Healey St West side Pedestrian	0	0	0	0	0	0	0	0	



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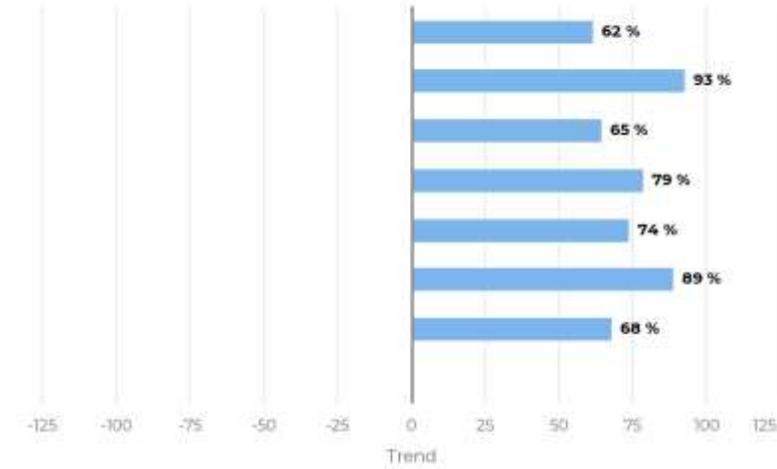
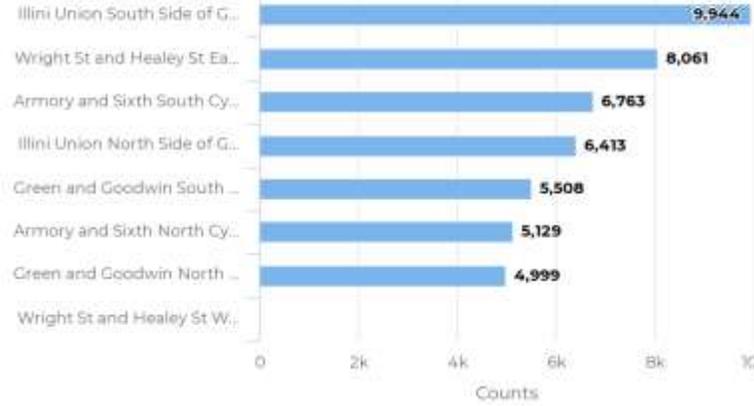
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Bicycle count

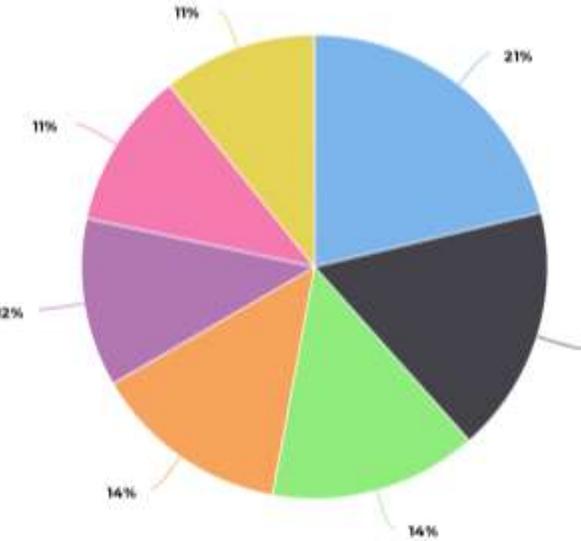
Key Figures Summary

February 1, 2023 - February 28, 2023



Distribution

February 1, 2023 - February 28, 2023



- Illini Union South Side of Green Street Cyclists
- Wright St and Healey St East Side Cyclist Nondirectional
- Armory and Sixth South Cyclist Nondirectional
- Illini Union North Side of Green Street Cyclist Nondirectional
- Green and Goodwin South Cyclist
- Armory and Sixth North Cyclist Nondirectional
- Green and Goodwin North Cyclist

Period	February 1, 2023 → February 28, 2023							
Site	Total	(%)	Daily Average	(%)	Average week days	(%)	Average weekend traffic	(%)
Armory and Sixth North Cyclist Nondirectional	5129	89.3	183	89.3	224	131.8	81	-16.8
Armory and Sixth South Cyclist Nondirectional	6763	65.5	242	65.5	301	106.3	93	-36.6
Green and Goodwin North Cyclist	4999	67.9	179	67.9	207	95	106	0
Green and Goodwin South Cyclist	5508	74	197	74	228	102	118	4.1
Illini Union North Side of Green Street Cyclist Nondirectional	6413	78.8	229	78.8	268	109.5	131	2.3
Illini Union South Side of Green Street Cyclists	9944	61.7	355	61.7	420	91.3	193	-12.2
Wright St and Healey St East Side Cyclist Nondirectional	8061	92.7	288	92.7	357	138.8	116	-22.4
Wright St and Healey St West side Cyclist		0		0		0		0



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Programming

- Traffic Closures
- Encourage Active Modes of Transportation
 - Commuter Program (<https://go.fs.illinois.edu/CommuterProgram>)
 - Bike Friendly University
 - Green Fleets
 - Bicycle and Pedestrian Counts
 - Encourage use of MTD by faculty & staff ([It's Your MTD Too!](#))
 - Bike Education and Bike at Illinois (<https://bike.illinois.edu>)
 - Bike Share and Ride Share
 - Walkability Audit of the campus
- Academic and Peer-to-Peer Collaborations
- TDM Marketing Plan and Communication
 - [Near & Far Without a Car](#) flyer
 - Videos to encourage active modes of transportation
 - Publicity Plans to promote events



It's Your MTD Too!

- Workshop on Tuesday, May 2 from 12 – 1:30 pm
- Register here: <https://go.fs.illinois.edu/MTD>
- Available to all faculty and staff. Students are welcome
- Not all faculty and staff know that they can use MTD in the community using their i-cards as bus passes
- MTD provides transit service for campus and community
 - Currently operating 24 bus routes
 - University ID serves as a bus pass for all students and staff
 - All buses are ADA accessible and equipped with bike racks



Highlights from TDM Plan Achievement report

- **Asset Management Plan**

- \$4,500,000 allocated by the Provost Office in FY20 (\$1.5M per year was initially committed in FY20-22) for pavement maintenance and improvement projects
- \$2,605,000 encumbered for Transportation Asset Management Plan (TAMP) for streets.
- Updated the GIS map for striping of bike lanes, bike paths, and sharrows on-campus in fall 2022
- A study for a potential roundabout at the intersection of Lincoln and Hazelwood.
- Developing a new maintenance matrix with Village of Savoy, and updating the maintenance matrices with City of Urbana and City of Champaign
- Several bicycle infrastructure projects planned and completed
- Installed bicycle and pedestrian counters by Eco-Counters at 5 campus locations, with more planned soon. Learn more at [Pedestrian and Bicycle Counts](#).
- Installed the Smartpoles at Illini Union Bookstore

- **Programming**

- The [Bike at Illinois website](#) features information on bicycle education and facilities, bike sharing, registration, safety, and more. The [F&S website](#) includes information on walking, MTD buses, accessibility, and car-share options.

- **Collaborations**

- Collaborated with faculty, students, and staff on various projects

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F&S TDM Status Update: Bike at Illinois



Bike Registration

- Number of Registrations:
 - FY21: 506
 - FY22: 685
 - FY23 (so far): 856
- Monthly numbers can be found on the iCAP Portal:
<https://icap.sustainability.illinois.edu/project/bicycle-registration>
- Only about 54% of those registered have collected their shield stickers
- Bike Registration Signs: 16 locations (SSC funded)



End of year round up of bicycles

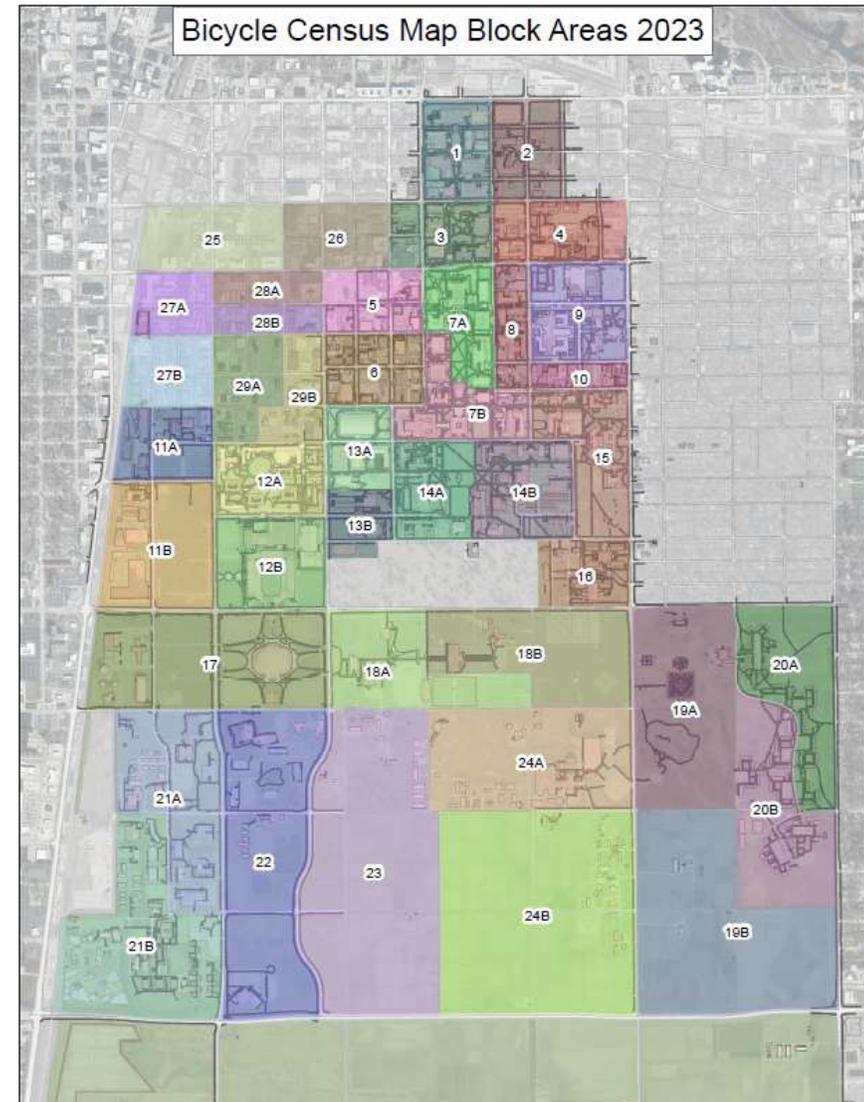
- Hiring a high school student and, possibly, an undergrad student over the summer
- Messaging sent out to the campus about donating unwanted bicycles to the Bike Center or the Bike Project
- Project will begin after graduation
- Tag the abandoned bicycles: Last week of May to first week of June
- 2 weeks of notice
- Verification of abandoned bicycles: Mid to end of June
- Removal of abandoned bicycles and transportation of the abandoned bicycles (by Parking) to Round Barns (?): by end of June
- Inventory of all bicycles at Round Barns: by last week of July
- Retrieval of bicycles by users: Last week of August until September 16, 2023
- Donations of unclaimed bicycles to Working bikes and the Bike Project of Urbana-Champaign: October 2023

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Bike Census 2023

- Count bicycle parked on bike racks and off racks
- Event held on Wednesday, April 26, 2023
- Campus divided into 42 map blocks
- Number of volunteers: 17
- Number of bicycles counted: _____
- Learn more at:
<https://bike.illinois.edu/bikecensus/>



Bicycle Friendly University application

- Student collaboration
- Renew the university's Bicycle Friendly University status
- Goal is to achieve Gold status
 - UIUC awarded Silver status in 2019
- Application removed Enforcement section, and added equity questions under each section



F&S TDM Status Update – SSC funded projects



SSC funded projects for FY23

- Strong Towns – SSC awarded \$2,000
 - in collaboration with Thomas Valencia and Briana Barr, students at the Department of Urban & Regional Planning
- Curb cut improvement at the intersection of Main St and Mathews Ave – SSC awarded \$30,000
 - Waiting for City of Urbana approval
 - Expected in summer 2023 (in-house project)
- EV charging stations for F&S fleet – SSC awarded \$134,000
- Bike Shelter for lot E-15 and student intern – Requested SSC for \$150,000

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F&S TDM Status Update – Infrastructure updates



Infrastructure Project Updates (Encumbered in FY23)

- Asphalt patching & Mill/Overlay – \$1,660,000 (\$360,000 for design)
 - Oak St from St. Mary's Rd to Gerty Dr
 - Gerty Dr from Griffith Dr to First St
 - Gregory Dr – east of First St
 - Gregory Dr from Fourth St to Dorner Dr
 - Goodwin Ave from Gregory Dr to Oregon St
 - Gregory St from Nevada St to Oregon St
 - Sixth St from Gregory Dr to Pennsylvania Ave
- Campus-wide spray injection: \$25,000
- PCC patches: \$490,000 (\$49,000 for design)
 - Gregory Dr at the Fourth St intersection
- Lincoln Ave until 250-300 ft south of Florida Ave
- Stadium Dr west of Neil St
- First St near Kirby Ave
- Re-grading & Gravel: \$5,000
- Preliminary design costs for future capital projects: \$375,000
 - Dorner Dr from Gregory Dr to Pennsylvania Ave
 - Pennsylvania Ave (in Urbana) from city limit to Lincoln Ave
 - St. Mary's Rd from First St to Fourth St
- Preliminary design for a roundabout at Lincoln Ave and Hazelwood: \$50,000

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Smartpoles



Eco-Counters

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F&S TDM Status Updates – Academic Collaborations



Academic Collaborations

- Bike Canopy – Ann Sychterz (CEE)
- Bio-oil as biobinder – Dr. Lance Schideman, Dr. Ramez Hajj, and Dr. Yuanhui Zhang
- Inspection and repair of campus pavements – Dr. Nishant Garg
 - SSC funded project
- CEE 190: Project Based Learning Class
- Circle Cycle – Illinois Enactus affiliated student-run RSO
- New Bike Shelter – Pranjali Shah (MUP-2), Mitchell Bryant, and Transportation iCAP Team
- Self-healing and Crack-sealing (Planning/Research)
 - Concrete – Dr. Nishant Garg
 - Asphalt – Dr. Ramez Hajj
- Bike Cage at ECE – Joyce Mast
 - SSC project (completed)
- Bike Theft and BFU application – Aparna Padmakumar (MUP-2)
- Strong Towns – Thomas Valencia and Briana Barr
 - SSC funded project
- Abandoned bicycles – Nathaniel Nevins (High school student)
- Bike Canopy at Newmark – Ann Sychterz
- Bicycle Friendly University application – James “Alec” McKay
- 2024 Campus Bicycle Master Plan update – Ethan Garcia
- Bike Share with Veo contract update with Law students

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ADA Transition Plan project updates



Completed projects

- North sidewalk along Stadium Drive between First Street and Oak Street – Completed in fall 2022 by Duce Construction – \$143,698.50
- West ADA entrance at the Armory Building – Completed in fall 2022 (In-house) - \$10,918.45
- West sidewalk along Oak Street – temporary fix – completed in winter 2022 (In-house) – Actual cost \$5,750

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Stadium Drive



Oak Street (Temp fix)



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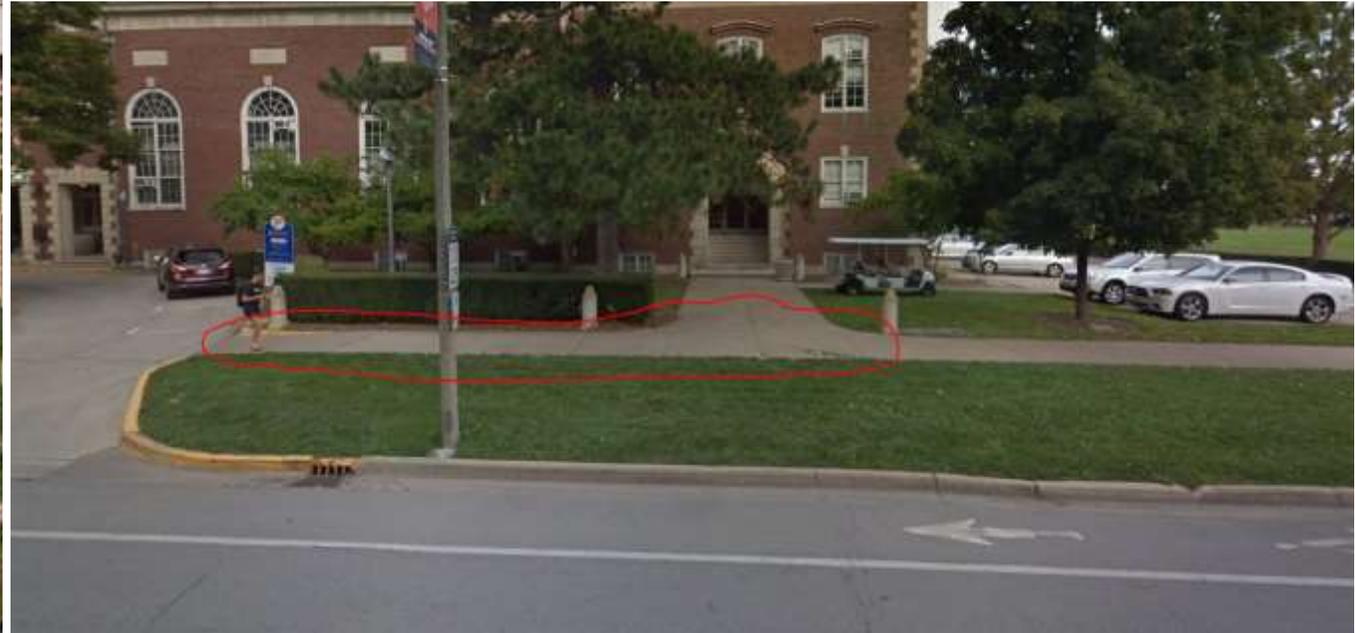
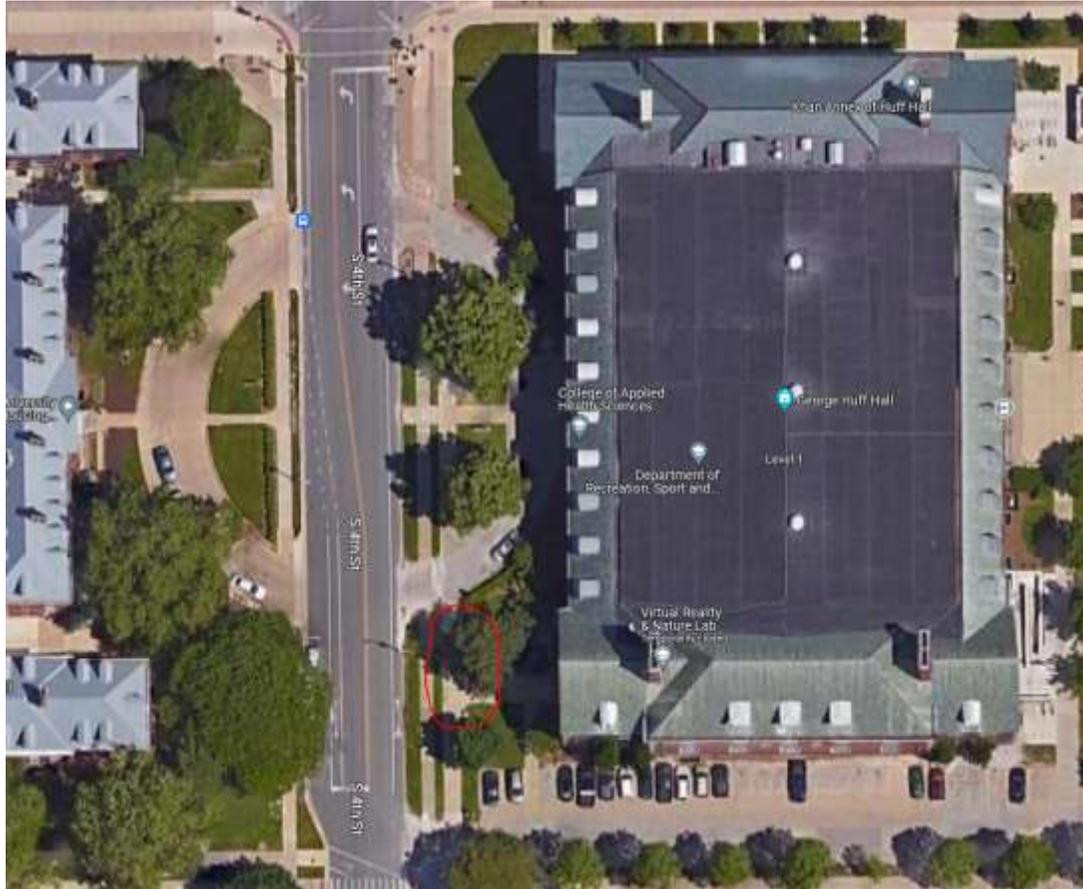
In-house projects – expected in 2023

- Total amount encumbered for In-house work: **\$107,000**
 - Sidewalks around Armory building: Northwest diagonal sidewalk (112'x8') section replace, also at the Southwest entrance bad area trip hazard to be ground or removed - \$29,000
 - Sidewalk around Huff Hall: West sidewalk remove and replace (300'x8'), and along the Southwest entrance sidewalk panels to be removed and replaced (40'x14') - \$60,000
 - Temporary fix (patching) for the Main Library East entrance ADA ramp - \$18,000

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Huff Hall



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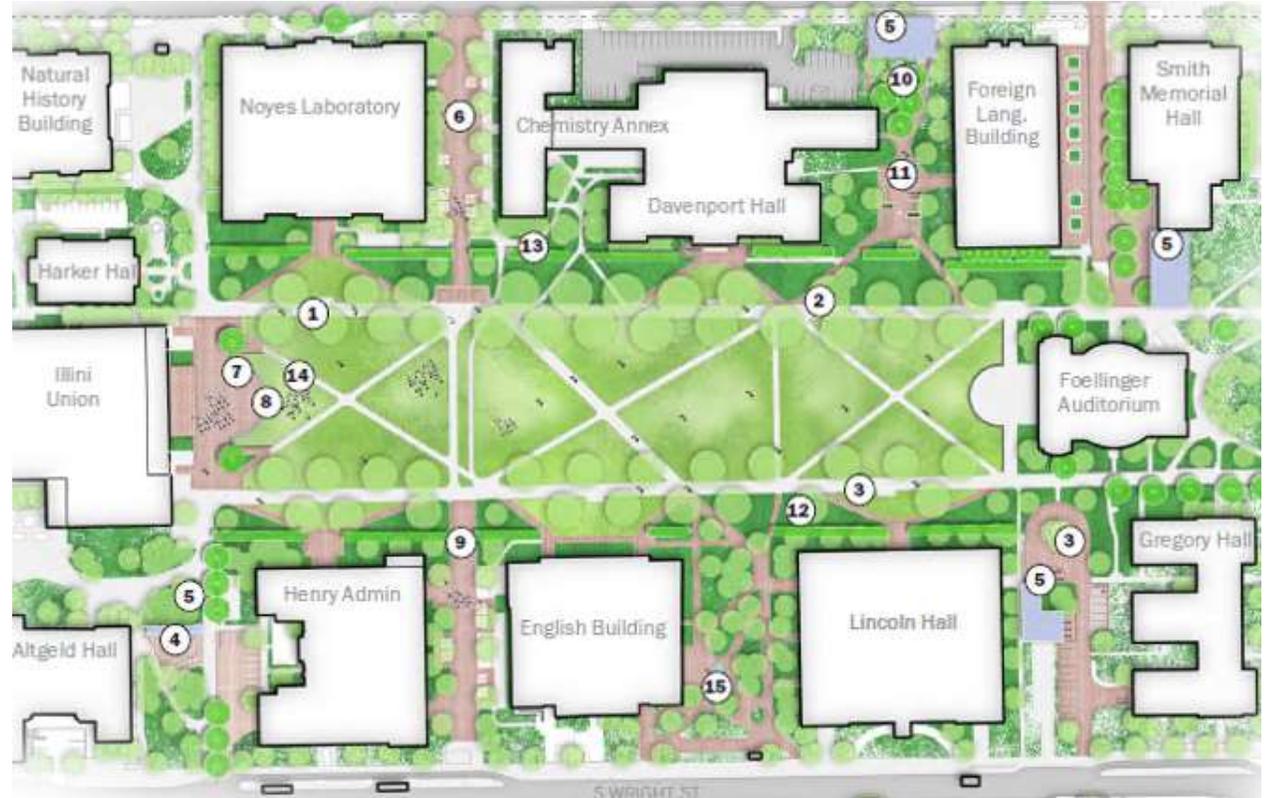
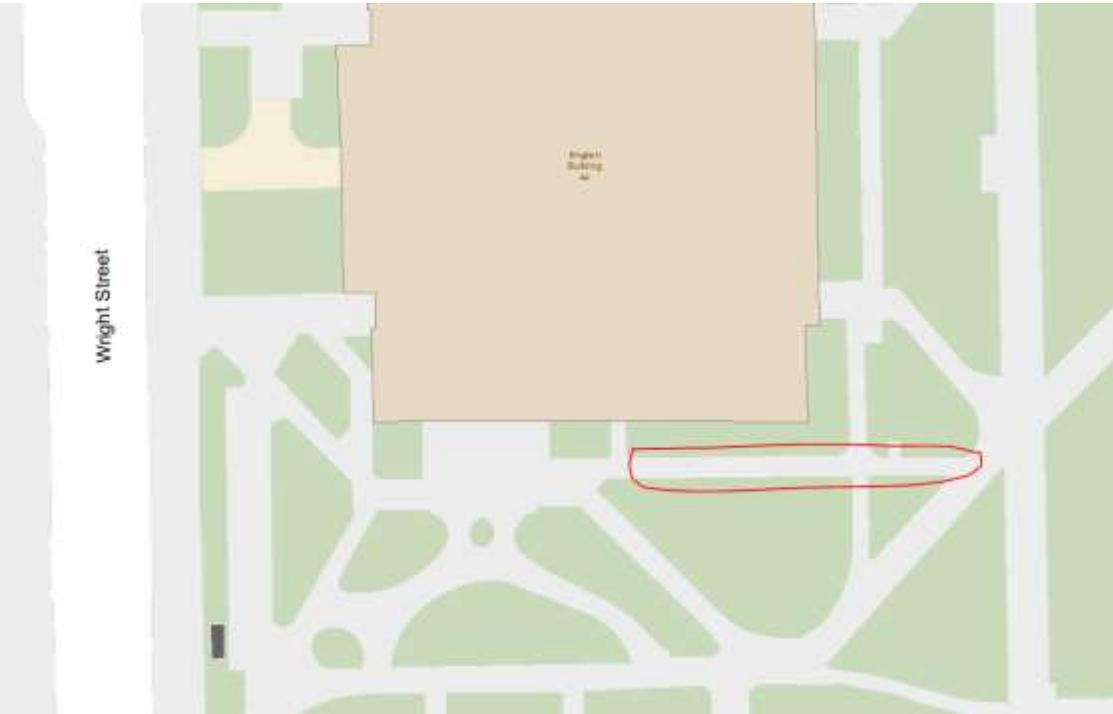
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Design/Construction projects

- English Building – paver sidewalk on the south of the building – \$75,000: Summer 2023 (Construction Services)
- West sidewalk on Oak Street from Stadium Drive to Gregory Drive – \$190,000 – currently in design – Summer 2023
- Following project with a combined budget of \$375,000 – Summer/Fall 2023
 - North sidewalk on Peabody Drive from First Street to Fourth Street (and potentially to Sixth Street) – Currently in Design
 - North sidewalk on Gregory Drive from Fourth Street to Sixth Street – Currently in Design
- New sidewalk along Hazelwood Drive from Oak Street to ISTC – \$48,150: Construction in progress (Duce). Expected completion date: 4/27/2023



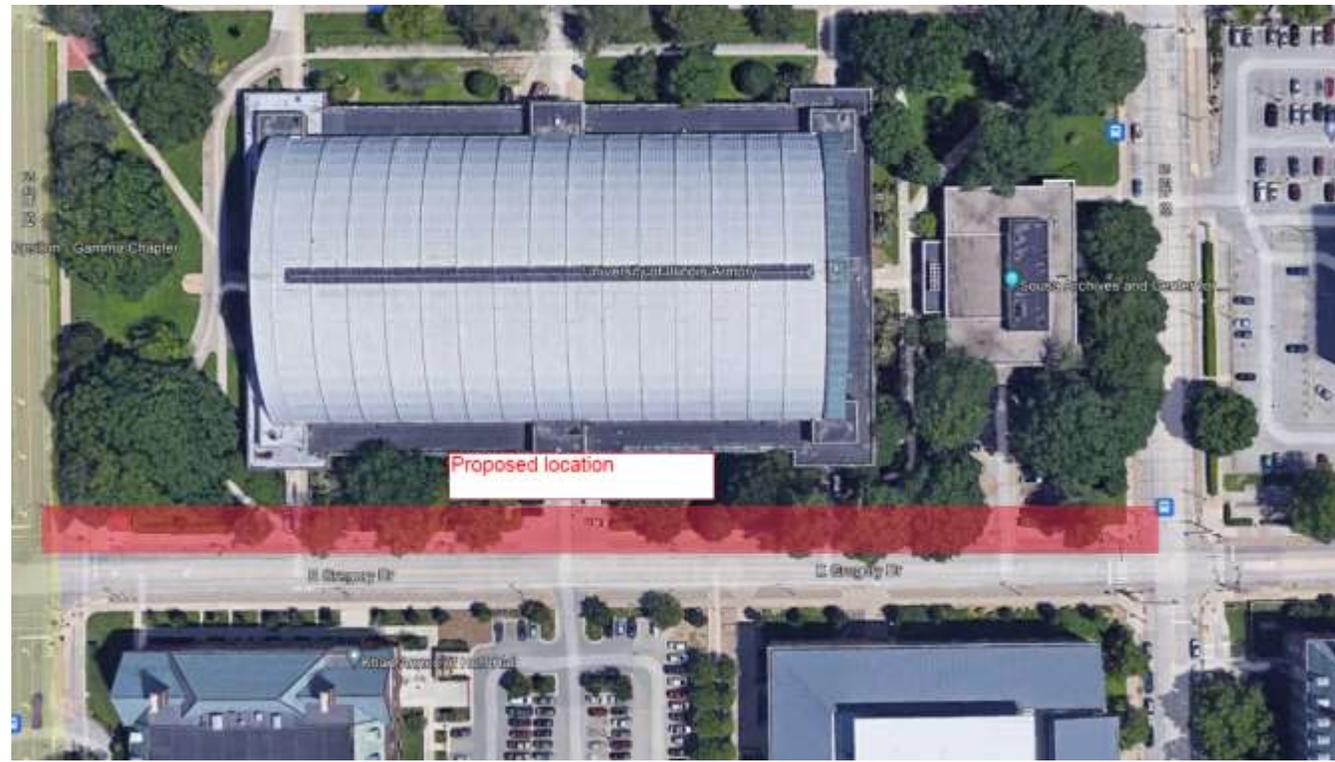
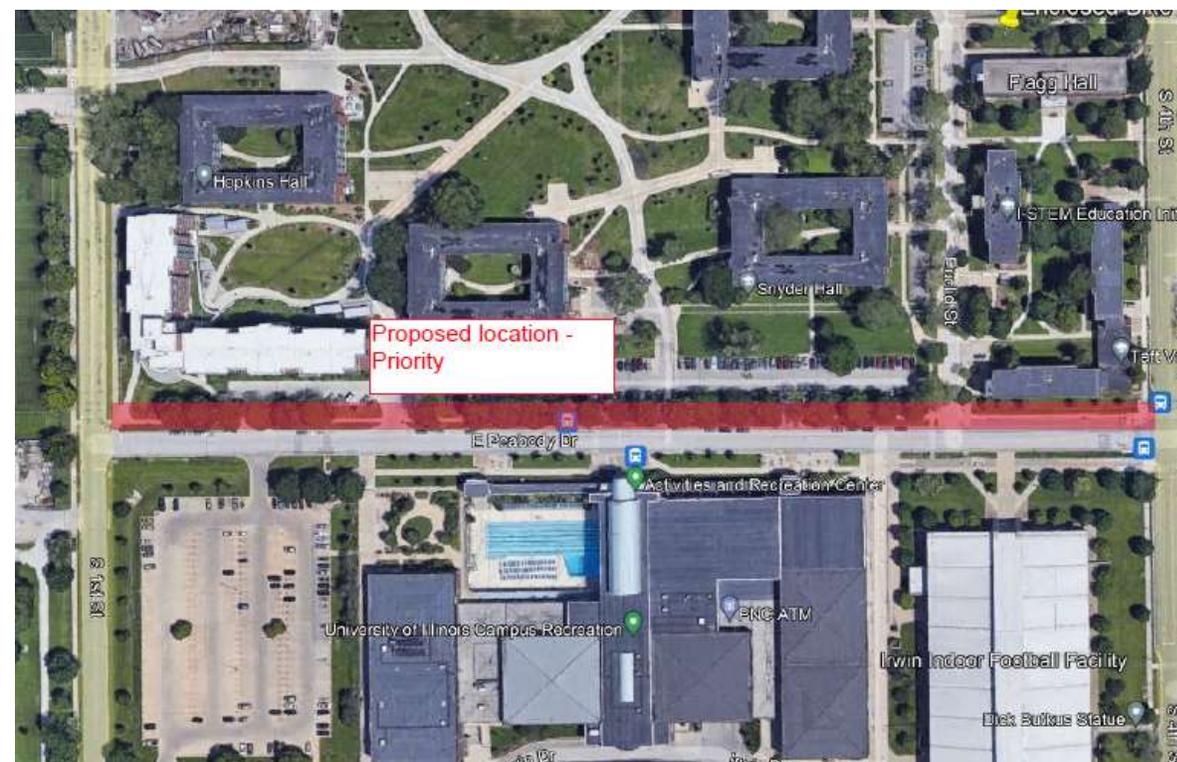
English Building – site



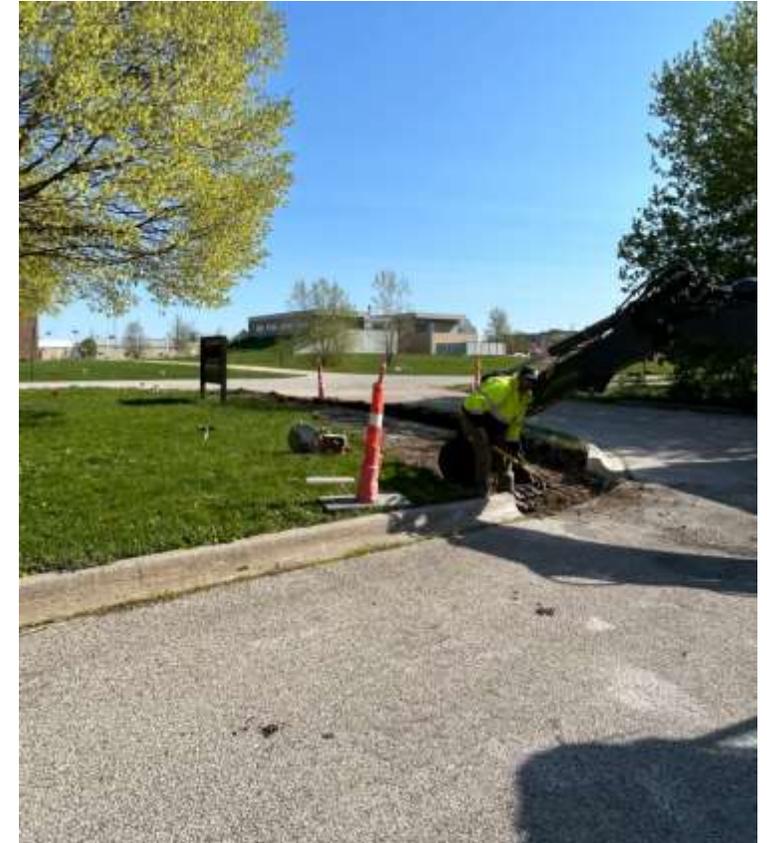
Oak St – sidewalk replacement



Gregory Dr and Peabody Dr – sidewalk replacement



Hazelwood Dr – new sidewalk



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Commuter Program



Commuter Program – Bus, Bike, and Hike!

- The Illinois Climate Action Plan (iCAP) is the university’s strategic plan to meet Climate Leadership Commitments, including being carbon neutral as soon as possible and building resilience to climate change in the local community.
- A 2020 iCAP objective is to reduce driving on campus and to reduce single-occupancy vehicle usage by faculty and staff on campus.
- iCAP 2020 Objective 3.4.1 is to “Develop a Commuter Program (bus, bike, and hike) for faculty and staff. Register 100 people by FY24 and 500 people by FY30.”

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Commuter Program – Bus, Bike, and Hike!

- Pilot program launched in Spring 2023
 - 14 participants signed up this year
- How to register?
 - Individuals interested in the program should complete the online form found at go.fs.illinois.edu/CommuterProgram.
- Eligibility requirements
 - Must be a current full- or part-time university faculty member, full- or part-time staff, or temporary employee
 - Must not have a current parking permit or must relinquish your current parking permit to enroll
 - Must use public transit, bicycle, walking, or a non-single-occupancy motorized vehicle, or other form of active mode of transportation as the primary means to commute to and from work

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Commuter Program – Bus, Bike, and Hike!

- Confirmed benefits:
 - The following benefits were available during the program’s pilot phase during fiscal year 2023.
 - Coupon codes to park in B4 or E14*
 - \$20 credit per semester for Veo bike sharing
 - A raffle entry to win a free ZipCar membership (5 free memberships prizes in a year)
 - Illini Union Rec Room –
 - Free second hour of pool/snooker once per month, or
 - Free bowling shoes once per month
- Looking into other benefits, such as Guaranteed Ride Home.

* - Only available to those who relinquished their parking permit. More information from Parking

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**2024 Campus Bicycle Plan update:
Planning Process**



Background

- Campus Bicycle Master Plan published in 2014
- Primary focus of this plan is on infrastructure improvements to the university's network of bikeways
- The goals of the Bicycle Plan are five-fold:
 - Increase safety for all campus users, including pedestrians, bicyclists, transit riders, and motorists
 - Increase sustainability of campus transportation, in support of the Illinois Climate Action Plan
 - Improve mobility and convenience for cyclists on campus
 - Identify funding needs and secure funding for future improvements of campus bicycle facilities, services, and programming
 - Improve the university's standing as a national leader in bicycle friendliness



Implementation list

- High Priority
 - Dedicated Path Removal
 - Armory Avenue/ Wright Street/ Green Street
 - Fourth Street
 - First Street
 - Armory Avenue Path
 - Sixth Street
- Medium Priority
 - Gregory Drive
 - Peabody Drive and Path
 - Lorado Taft Path
 - Stadium Drive
 - St. Mary's Road
 - Lincoln Avenue
 - Main Street Path
- Low Priority
 - Oak Street
- Florida/Kirby Avenue Path
- Race Street Path
- Pennsylvania Avenue
- University Avenue Path
- Goodwin Avenue Path
- Dorner Drive
- Mathews Avenue Path
- FAR/PAR Paths
- Gregory Street
- Gerty Drive



Progress on infrastructure improvement projects

- Progress reports published in 2019, 2022, and 2023
 - [Campus Bike Plan progress report FY23](#)
 - [Campus Bike Plan progress report FY22](#)
 - [2019 Report for 2014 Campus Bicycle Plan](#)
- 100% of all High Priority projects completed
- 72% of the Medium Priority projects completed
- Nearly 54% of all projects completed



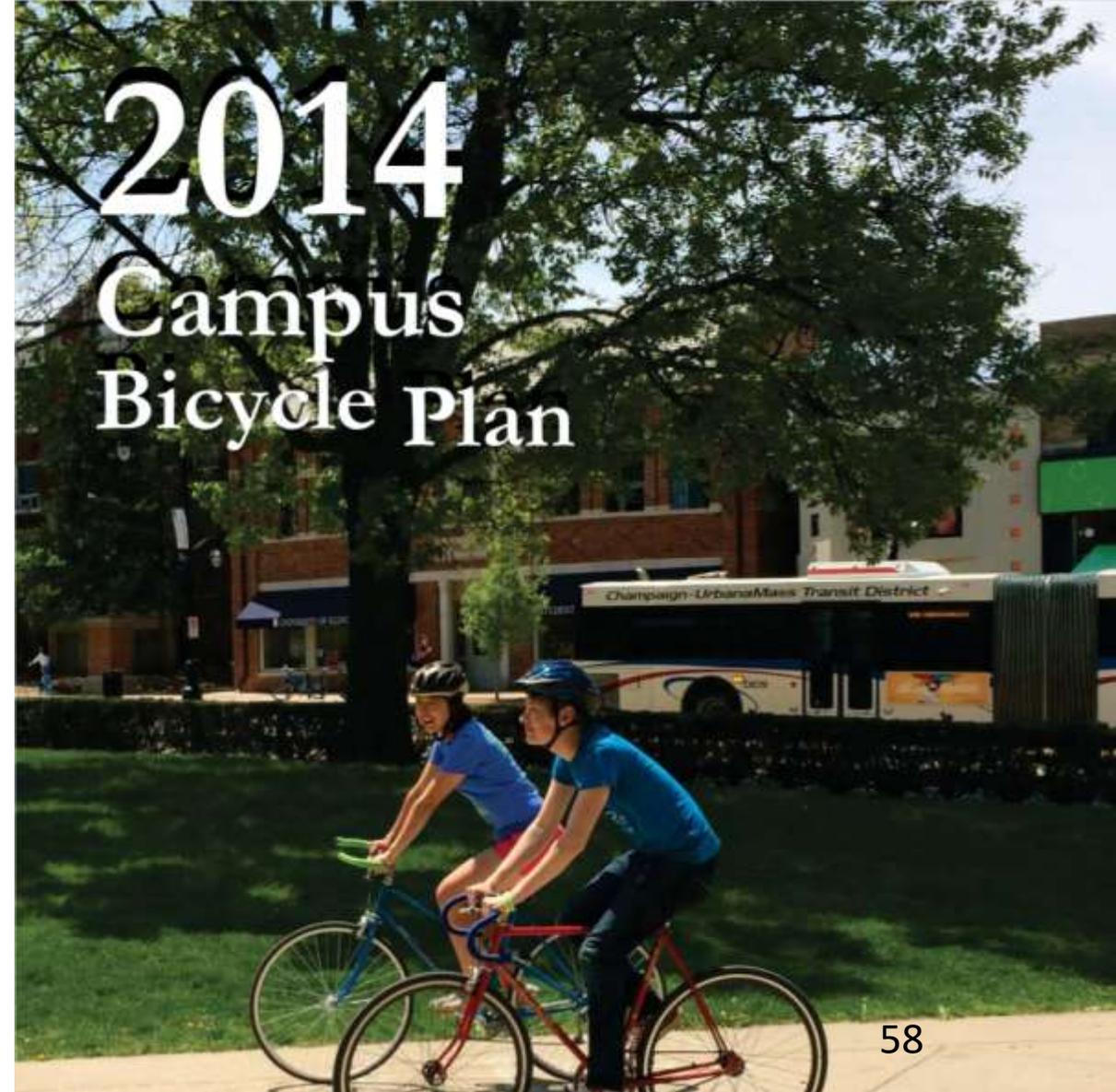
Collaboration with Ethan Garcia - Introduction

- Senior at the University of Illinois Urbana-Champaign in Urban and Regional Planning with a concentration in Social Justice (graduating this May!)
- 4+1 Master's in Urban and Regional Planning acceptant (expected graduation May 2024)
- Introduced to Sarthak Prasad through my Professor Bumsoo Lee from the Department of Urban and Regional Planning



Reference documents

- 2014 Campus Bicycle Plan
 - 2019 Progress Report on Bicycle Plan
 - 2022 Progress Report on Bicycle Plan
 - 2023 Progress Report on Bicycle Plan
- TDM Plan
 - FY20 Achievement Report
 - FY22 Achievement Report
 - FY23 Achievement Report
- Bike Friendly University Feedback Report
- Campus Master Plan
- Campus Landscape Master Plan
- iCAP 2020 – Transportation chapter
- University Bicycle Ordinance
- Crash Data
- Champaign Tomorrow Comprehensive Plan
- Long Range Transportation Plan
- City of Urbana Bike Plan
- Mode Choice Survey 2022



Stakeholders reached out

1. Campus Bike Center
2. Department of Urban and Regional Planning
3. Campus Transportation Advisory Committee (CTAC)
4. Parking Department
5. UIUC Public Safety
6. UI Wellness Center
7. Institute of Sustainability, Energy, and Environment (iSEE)
8. Faculty and Student Senates of UIUC
9. Student Sustainability Committee
10. Student Planning Organization
11. American Society of Landscape Architects
12. Transportation iCAP Team
13. Other RSOs
14. Champaign County Bikes
15. MTD
16. The City of Urbana
17. The City of Champaign
18. Village of Savoy
19. Champaign County Regional Planning Commission
20. League of American Bicyclists (LAB)
21. Association of Pedestrian and Bicycle Profession (APBP)
22. Ride Illinois
23. Bicycle and Pedestrian Advisory Commission (BPAC) of City of Urbana
24. University YMCA



Timeline

- Stakeholders reached out to: April 2023
- Bike Census: April 26th, 2023
- Planning Process Finished: May 2023
- Develop a Bike Audit of the campus: Summer 2023
- Introductory Meetings with Stakeholders: September 2023
- **Bike Audit: October 2023**
- Development of 2024 Plan Document: June 2023-March 2024
- Stakeholder Review of Plan: March 2024
- Revisions to Plan: March 2024

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Working ideas for Bicycle Plan 2024

- Increase sheltered bike parking
- More bike law enforcement
- More bike registration/safety events
- Long term bike storage
- Increasing bicycle education (how to ride, group rides)
- Continue to collaborate with other entities to increase bicycling on campus
- Next Bicycle Friendly University review is in August of this year (2023)
 - Gold status is expected in 2023, if not, Gold status for 2027
 - Platinum status for 2031

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Discussion?

- Any idea about the Bike Audit?
- What was the process used in 2014 to develop the implementation list?
- Would you be interested in participating? How?
- Next update during our CTAC fall 2023 meeting



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Veo Bike Share update



Current update

- 750 bicycles allowed on campus
 - E-scooters are not allowed
 - Cosmo-e cannot use throttle while on campus property
- In negotiation with Veo to renew the bike share contract for the next five years
- Bike Share IGA (between UIUC, City of Urbana, and City of Champaign) is in the process of being dissolved
- City of Champaign and City Urbana will have their own contracts with Veo
 - City of Champaign will do a pilot contract with 1000 bicycles (for Veo) for three years
 - City of Urbana is considering similar contract as City of Champaign

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Halo-e vs Cosmo-e

What's the difference between the Halo-e and the Cosmo-e?

Halo-e

The Halo-e was introduced in 2019 and is a class 1 e-bike. Class 1 e-bikes have a motor that engages while pedaling. As with Veo's other electric vehicles, the Halo-e uses a swappable battery. It also includes a built-in, easy-to-use cable lock-to system.



Cosmo-e

While most e-bikes offered in shared micromobility fleets today are class 1 e-bikes, Veo successfully deployed one of the industry's first shared class 2 e-bikes with throttle assist: the Cosmo-e.

The Cosmo-e has a motor that engages when a rider holds down a throttle that moves the bike forward even when the rider is not pedaling. It was designed for users with a wider range of physical abilities and preferences and features a cushioned seat, advanced steel suspension, and a well-balanced frame for enhanced control while riding.



Advantages of Cosmo-e

Cosmo-e Advantages and Capabilities

Geofence capabilities

Unlike the Halo-e, the Cosmo-e allows Veo to set up No Ride Zones, No Parking Zones, and Slow Speed Zones using the Cosmo-e's geofence capabilities. In No Ride Zones, vehicles will disengage the motor, slow down, and then stop so that riders can safely dismount. Riders are prevented from operating the vehicles in these zones, as well as prohibited from ending their trip and parking in these zones.

In No Parking Zones, riders are allowed to travel through the zone but are prohibited from ending their ride and parking within the zone. Finally, in Slow Speed Zones, riders' top speed is limited to 8 mph, or to a level designated by the City or University within certain zones. Veo will work with partners to determine any necessary Slow Speed Zones.



Capabilities of Cosmo-e

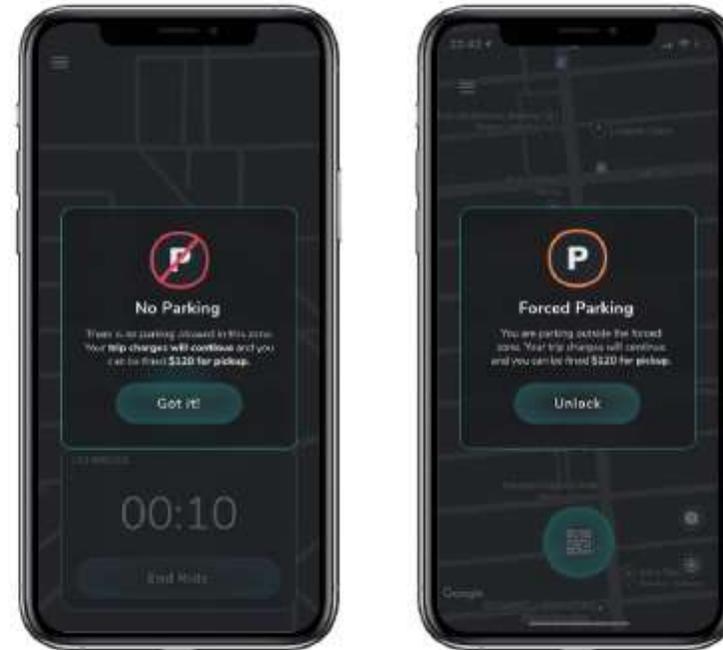
Cosmo-e Advantages and Capabilities

Forced parking

With the Cosmo-e, Veo can create required parking zones to ensure riders can only end their ride at designated parking corrals or other marked parking infrastructure.

Veo Voice

When riders enter geofenced zones, they will receive in-app notifications as well as on-vehicle audible warnings to more clearly and reliably communicate rules and regulations while rides are ongoing. The Veo Voice feature allows us to send a user a customized, multi-lingual spoken warning on our devices when they enter one of the geofenced zones or to remind users of responsible riding behavior.



Veo's proposed plan

Our proposal

This proposal would guide our fleet strategy over the course of 2023 - 2025 at UIUC.



a

Phase out the Halo-e

Veo currently deploys a fleet of 300 Halo-e bikes on UIUC's campus. Over the next 1 - 2 years, as these vehicles reach the end of their lifespan, Veo will phase them out of service.

b

Deploy the Cosmo-e on campus

Veo currently deploys 350 Cosmo-e bikes in the cities of Urbana and Champaign. As Halo-e bikes are phased out, Veo proposes:

- Deploying 150 Cosmo-e vehicles on the UIUC campus
- Implementing forced parking locations on campus
- Allowing all Cosmo-e vehicles in Urbana and Champaign to operate on campus (except for campus areas established as No Ride Zones)

c

Reintroduce Halo pedal bikes

To ensure our fleet of vehicles at UIUC remains affordable, reliable, and appealing to the widest range of riders, Veo proposes:

- Introducing a fleet of non-electric Halo pedal bikes
- Setting competitive pricing for pedal bikes to ensure users have access to vehicles at a range of price points

UIUC's proposal

- We are considering piloting the Cosmo-e on campus this summer
- Our proposed requirements from Veo, regarding the operation of Cosmo-e
 - Geo-fencing around all the Main Quad, South Quad, Bardeen Quad, North Quad, Ikenberry Quad, PAR/FAR, Red Oak Rain Garden, inside trails of Arboretum
 - Sidewalks and multi-use paths are not allowed for operation
 - Parking only allowed at a bike parking area
 - Slower speed limit while on-campus – 8 mph or 10 mph (maximum)
- Same number of pedal bicycles as halo-e bicycles
 - Membership options
 - Lower cost

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Discussion

- Are there any concerns?
- Anything that you would like to add/include in our proposal?
- Would CTAC approve this proposal?
 - Vote (?)



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**No turn on red at Pennsylvania and
Lincoln**



Discussion

- What are your thoughts?
- Does CTAC approve this proposal?



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Mid-block crossing on Oak St by Garage & Carpool



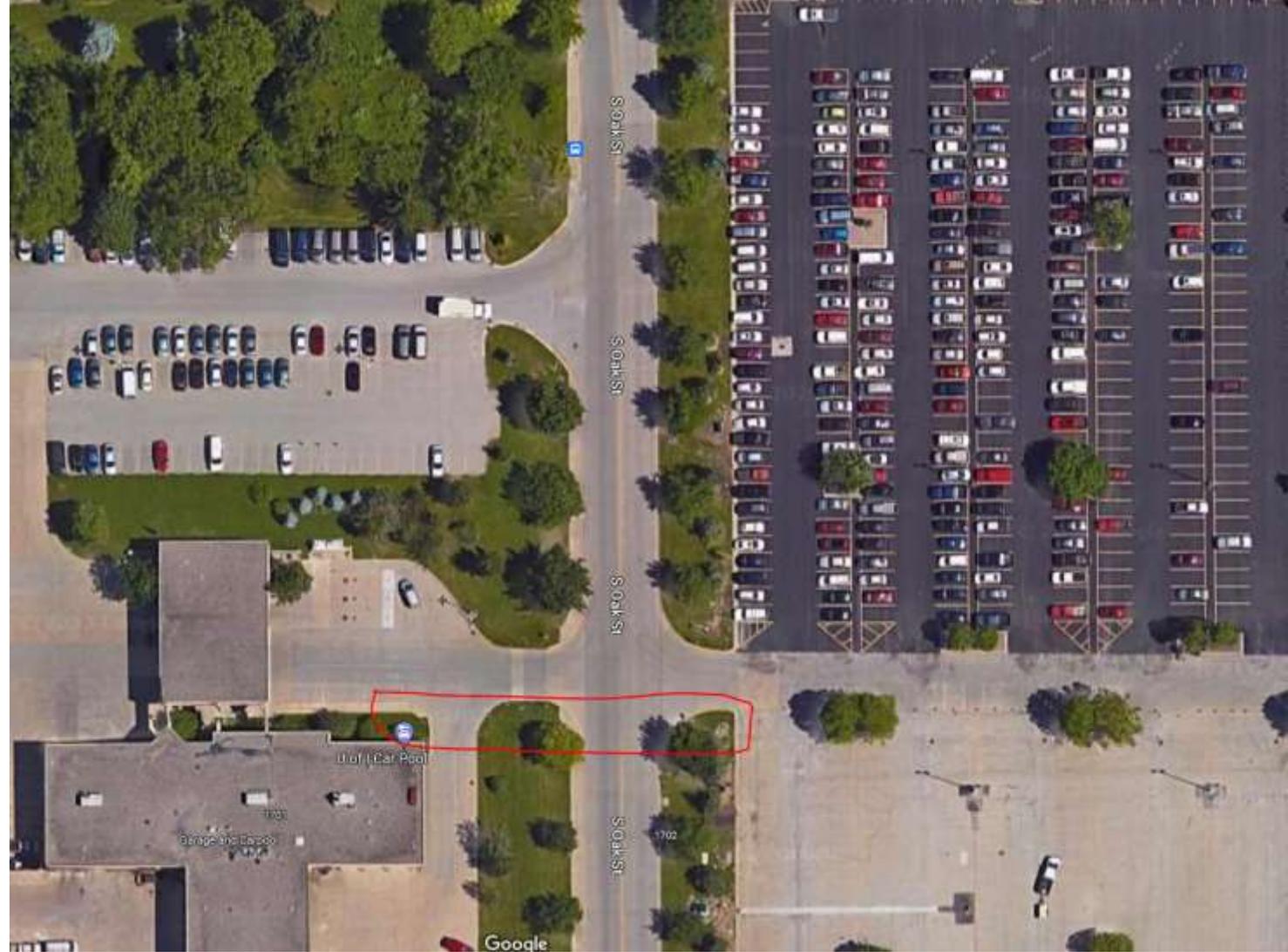
Oak Street Pedestrian Crosswalk Study (U23092)

- A number of TBS staff work in G&CP and park in lot E-14.
- All 3 Building Services shifts have a clock station in G&CP resulting in 25-35 employees crossing Oak Street six times a day, frequently during the hours of darkness.
- There is no pedestrian crossing other than through the grass or via the entrance drives to both locations.
- This area does not have any streetlighting either.



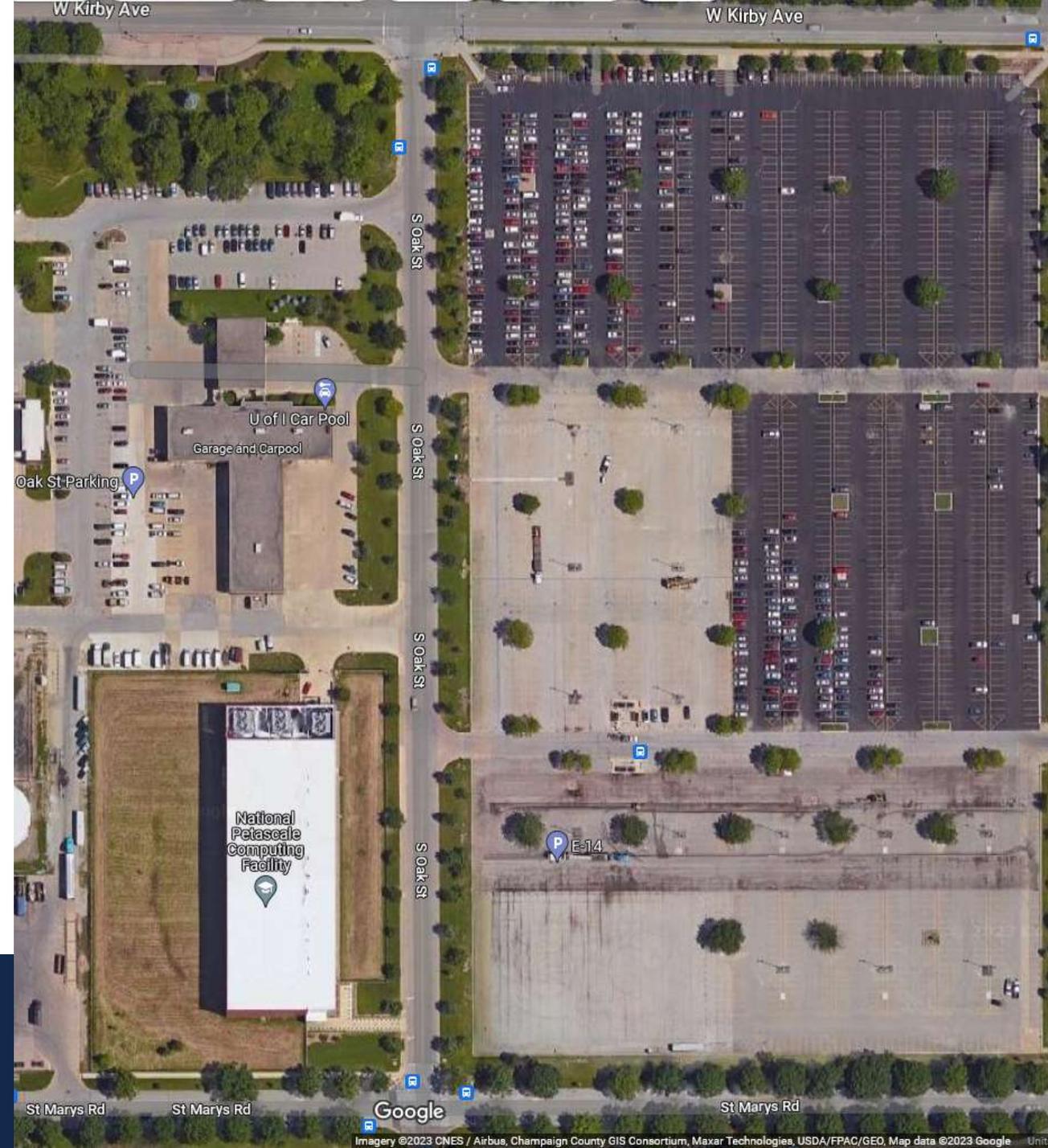
Feasibility Study

- Hiring a retainer to do a feasibility study



Feasibility Study Continued

- This study will include a road diet on Oak Street from Kirby Ave to St. Mary's Road, with bike lanes on both sides



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Inspiration

Google

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Community Updates



Community Updates

- First Street – Shared-Use Path ITEP grant
 - Savoy, starting at the southwest corner of First Street and Curtis Road, at the southern end of the recently completed ITEP First Street shared-use path.
- Florida Ave – south side Shared-Use Path ITEP grant
 - South side of Florida Avenue, starting east of Lincoln Avenue and ending west of Race Street in the City of Urbana.
- MTD
 - More Hydrogen buses?



Thank you!

Contact F&S TDM at:

fandscampustdm@illinois.edu

Stacey DeLorenzo

Sarthak Prasad

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