

Campus Transportation Advisory Committee (CTAC)

University of Illinois at Urbana-Champaign

Facilities & Services, April 18, 2022

Chair – Morgan White

Acting Director of Capital Programs

Associate Director of F&S for Sustainability



Facilities & Services

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Welcome!



Facilities & Services

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Agenda

- Introduction – Morgan White (5 minutes)
- Old Business
 - F&S TDM Status Update – Stacey DeLorenzo and Sarthak Prasad (10 minutes)
 - Walkability Audit – Sarthak Prasad (30 minutes)
- New Business
 - Mode Choice Survey – Sarthak Prasad (10 minutes)
 - Commuter Program – Sarthak Prasad (5 minutes)
 - Veo Cosmo – Stacey DeLorenzo (10 minutes)
 - EV Task Force – Morgan White (10 minutes)
 - ZipCar – Stacey DeLorenzo (5 minutes)
- Community Updates – Morgan White or Stacey DeLorenzo (5 minutes)



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4



Introduction - Members

Morgan White, chair

Staff

AC Barb Robbins
Det. Tara Hurless
Yasmin Ofiana
Zach Acton
Marty Paulins
Brent Lewis
Pete Varney
Jake Benjamin
Matt Brown
Laura Bleill
Dana Decair
Sammy Yoo
Meredith Moore

My linda Netherton
Allison Kushner

Faculty

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

Community representatives

David Happ, Champaign
Shannon Beranek, Urbana
Jay Rank, MTD
Roland White, Savoy

Rita Morocoima-Black, CCRPC

Students

Sinead Soltis
Natalie Hill
Briana Barr
Sutapa Banerjee
Avery Maloto
Pranjali Shah
Thomas Valencia
Apoorva Sethuraman
Katrina Halfaker

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.

6



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7



F&S TDM Updates – Bike at Illinois



Educational videos published

- Bike at Illinois: 6 Basic Things to Know About Biking on Campus
 - <https://youtu.be/lwE3bEhZ6Yc>
- Bike at Illinois: How to Lock Your Bicycle to U-Loop and Ladder Racks
 - <https://youtu.be/4cENTu-nKes>
- Bike at Illinois: Rules of the Road – Do's and Don'ts
 - Filmed and edited. Waiting for the final version
- Go to Bike at Illinois Videos page for more:
<https://bike.illinois.edu/resources/instructional-videos/>



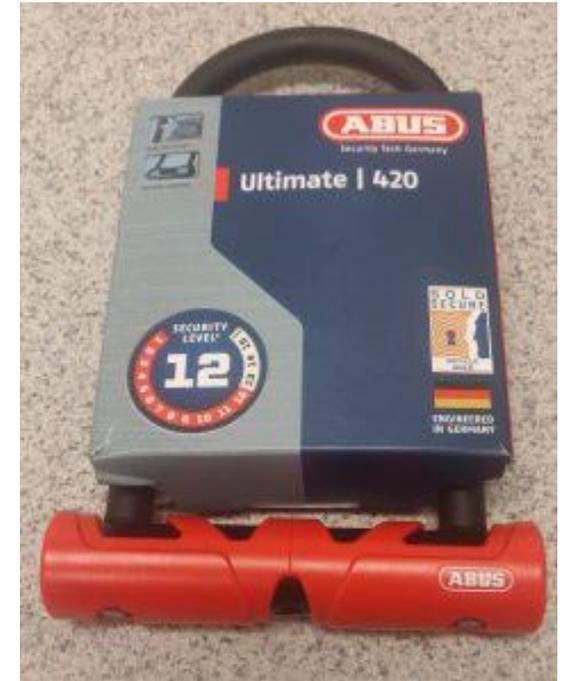
Campus Bike Plan – Progress Report 2022

- Will publish this report in May 2022
- Report contains bicycle infrastructure updates



Bicycle Registration

- FY21: 506
- FY22 (as of 4/1/2022): 635
- Bicycle registration raffle:
 - 2 winners per month win prizes
 - 1 Helmet and 1 U-lock given out every month as raffle prize
 - 26 people have collected their prizes*
 - Most recent raffle winner selected for: March 2022
 - Learn more at: <https://bike.illinois.edu/register-your-bike/bicycle-registration-raffle/>



Bike Census April 2021 - update

Still analyzing data with Facilities Information Resources

Please let me know if you would like me to send you the final report



F&S TDM Updates – Eco-Counter



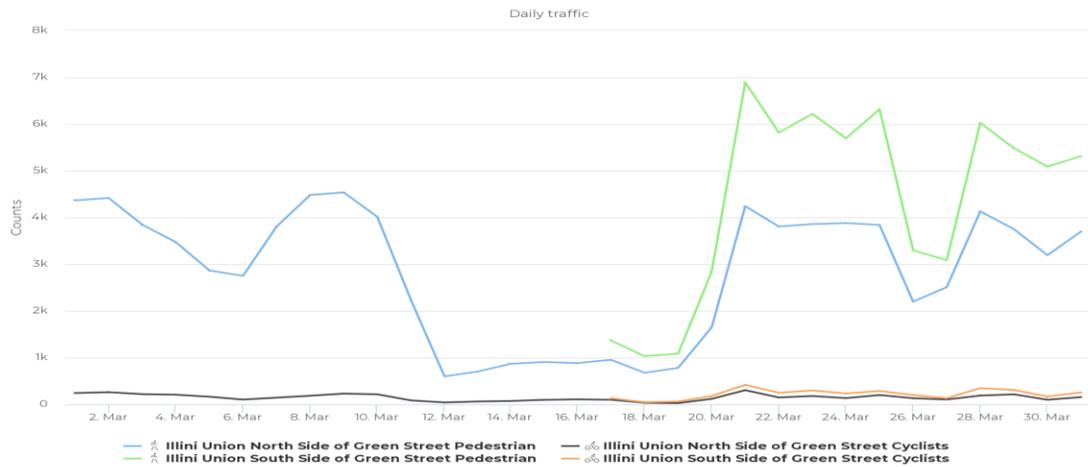
Facilities & Services

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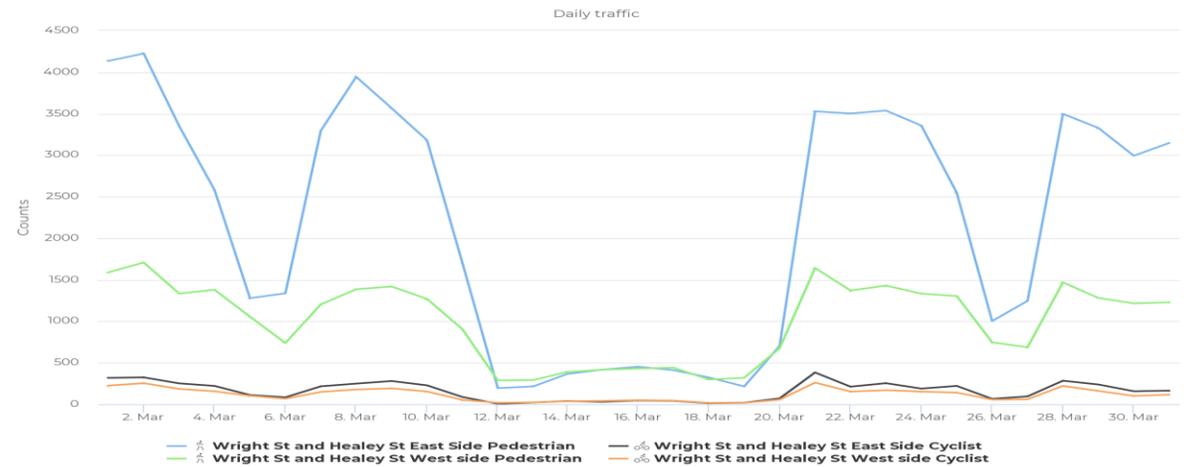
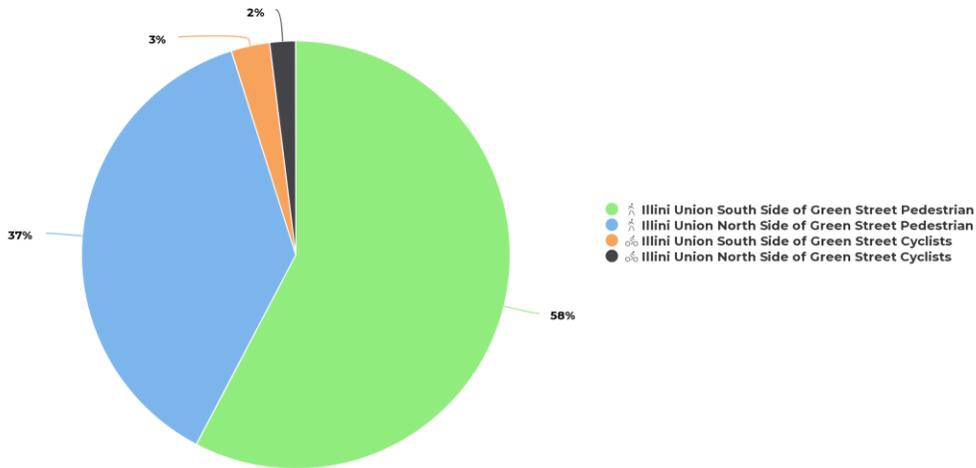
Eco-Counters

- Current locations:
 - Green Street by Illini Union
 - Intersection of Wright Street and Healey
- Installation in Summer 2022:
 - Intersection of Armory Avenue and Sixth Street
 - Intersection of Green Street and Goodwin Avenue
- In progress to purchase a set of Eco-Counters for another location.
- Need to install bike/ped counters at 12 MCORE corridors
- Monthly data is posted on the iCAP Portal: [Pedestrian and Bicycle Counts](#)

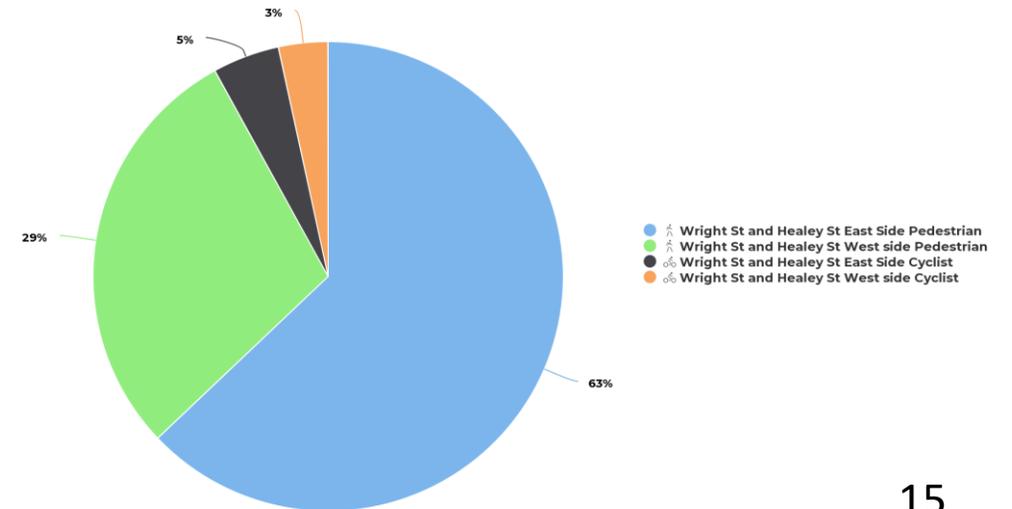




Distribution



Distribution



**F&S TDM Updates – Infrastructure
Projects**



Infrastructure project updates

St. Mary's Road Project – Completed

Goodwin Ave Project – Completed

Asphalt patching on Pennsylvania – Scheduled for 2022

Concrete patching at the corner of Peabody and First – Scheduled for 2022

Joint sealing and spray injection throughout campus – Scheduled for 2022

Asphalt patching on Oak Street (South of St. Mary's and old part of Gerty Drive) – Scheduled for 2022

We are working on purchasing a new hot-mix Asphalt truck to increase our in-house capabilities



**F&S TDM Updates – Academic
Collaborations**



Academic Collaborations in FY22

- Bike Canopy at Newmark – Dr. Ann Sychterz
- Bike Registration Signs – Shayna Talpallikar (UG student)
 - SSC funded project
- 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-1)
- Self-healing and Crack-sealing
 - Concrete – Dr. Nishant Garg
 - Asphalt – Dr. Ramez Hajj
- Bike Cage at ECE – Joyce Mast
- Walkability Audit – Sutapa Banerjee (MUP-2)

19



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20



Walkability Audit



Outline

- Project Description
- Current Status
- Results (so far)
- Next Steps
- Questions



Project Description

- This project aims to assess the condition of our walking infrastructure to identify areas that are good for walking and areas that require attention
- This project has two data collection surveys:
 - Walkability Audit survey focuses on the general walkability – will result in a walk score for campus
 - Deficiency reporting focuses on identifying specific faults
- Volunteers cover the sidewalk network, entrances to buildings, and ADA accessibility
- Using ArcGIS Survey123 for data collection
- Volunteers covered nearly 60% of the campus during Fall 2021 data collection cycle

23

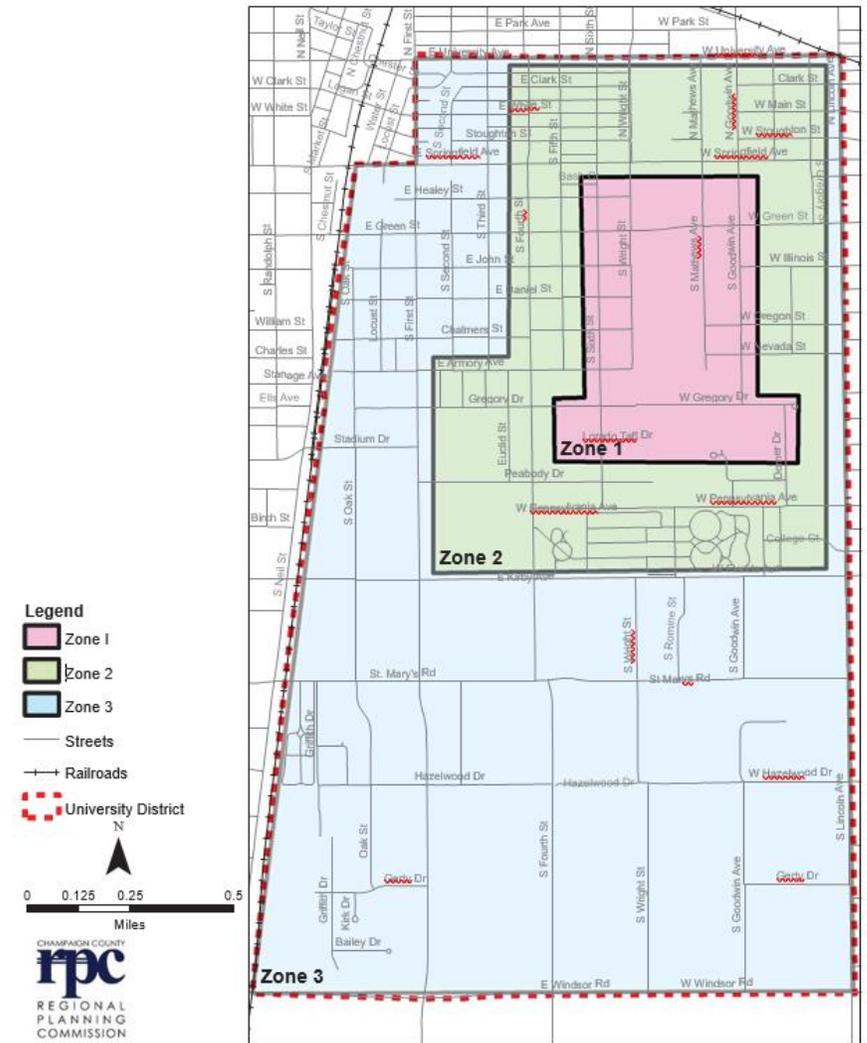


CATS Zones from UDTCS

The existing boundary of CATS Zone 1 runs just south of Springfield Avenue on the north; just outside Goodwin Avenue, Gregory Drive and Dorner Drive on the east; north of Peabody Drive on the south; and just east of Fourth Street, north of Gregory Drive, and west of Sixth Street on the west. This core campus zone includes the Bardeen, Main, and South Quads.

This information will be used to calculate the walk score of the campus

- Zone 1 – High Weight (x3)
- Zone 2 – Medium Weight (x2)
- Zone 3 – Low Weight (x1)



Current Status - Collaborations

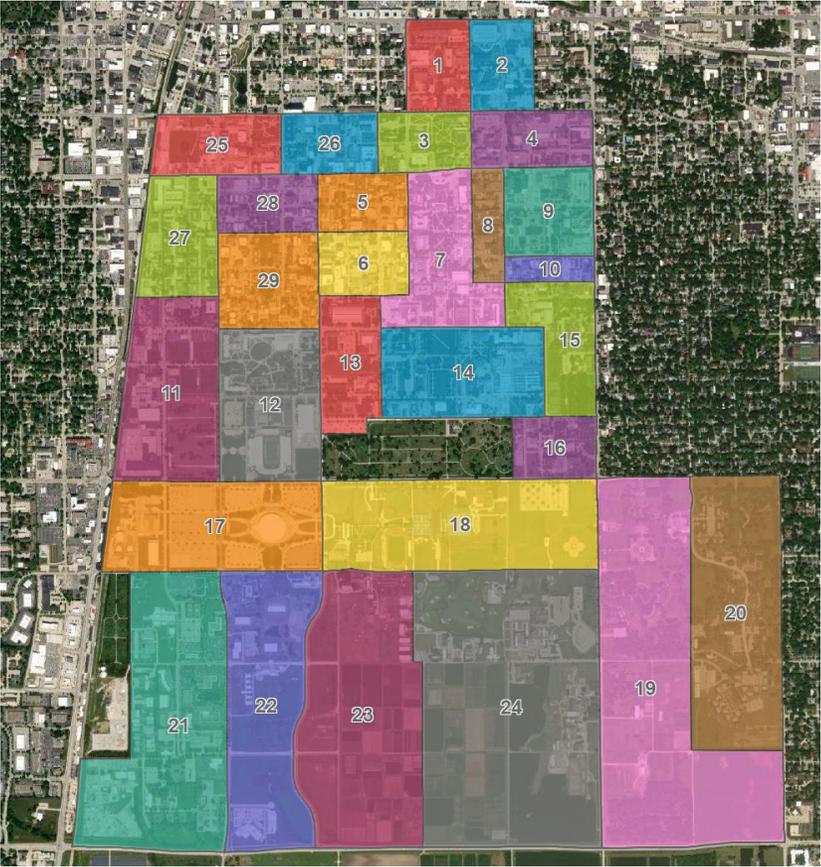
- F&S TDM department is collaborating with
 - Department of Urban and Regional Planning
 - Disability Resources & Educational Services
 - Office of Access & Equity
 - F&S Grounds
 - F&S FIR
 - F&S Sustainability
 - Campus Landscape Architect
 - Transportation iCAP Team
 - Student Planning Organization

25



Current Status – Data need for spring 2022

GENERAL WALKABILITY			DEFICIENCY
Blocks -few records	Blocks -no records		
4	9		1
6	10		6
8	14		9
11	18		10
12	22		13
13	23		14
15	27		18
16			19
17			23
20			
21			
28			



Current Status – Data Collection

- Data collection in fall 2021
 - 9 team of volunteers – 30 volunteers
 - Covered nearly 60% of the campus for both Walkability Audit and Deficiency Reporting survey
- Data collection in spring 2022
 - 52 volunteers registered to help with data collection!
 - Volunteers have specific assignments
 - Data collection in progress
 - Data collection deadline: April 15, 2022

27



Current Status - Analysis

- Scoring System for the Walkability Audit
 - Using the 1 to 5 rating for most questions
 - Using a weighted scoring system
 - High impact – x3
 - Medium impact – x2
 - Low impact – x1
- Final scores for a block determined as a percentage
- Walk score determined by averaging scores for each block
 - Weighted zone scores

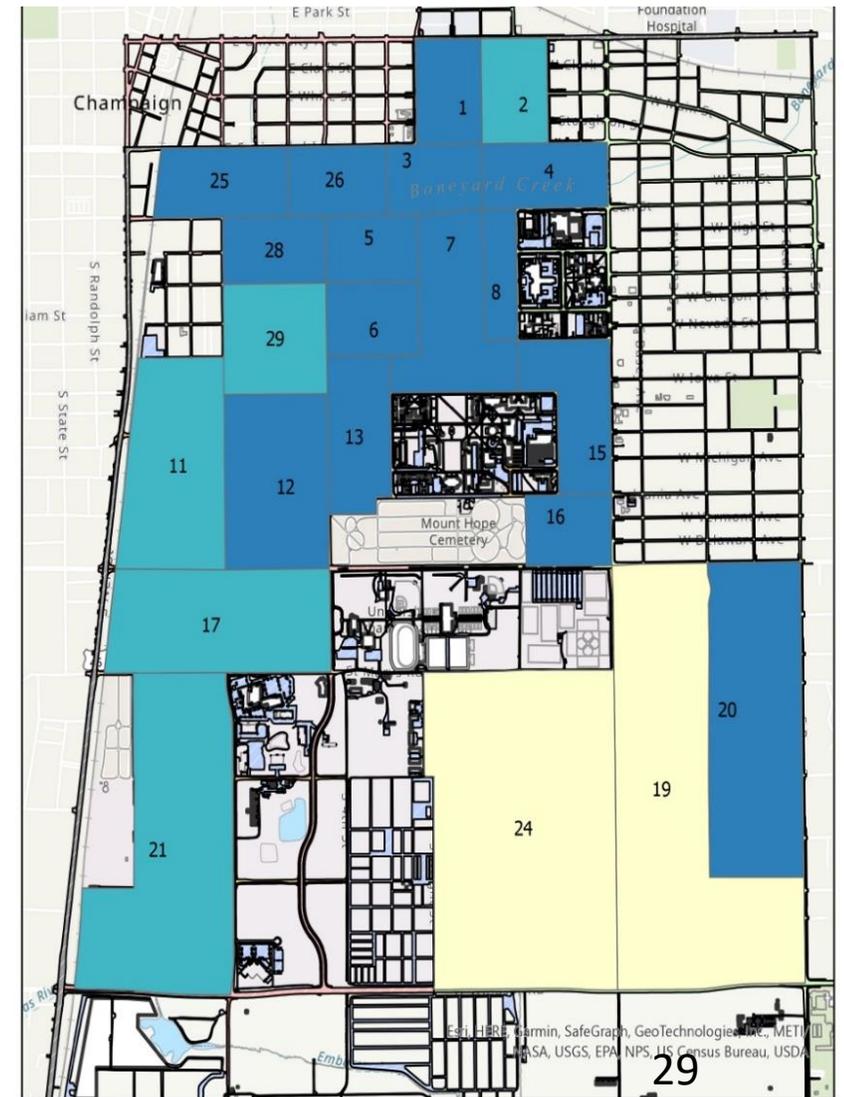


Preliminary Results

MAP BLOCK #	AVERAGE SCORE	MAP BLOCK #	AVERAGE SCORE
1	86.71	16	73.97
2	67.66	17	55.38
3	81.03	18	
4	75.6	19	33.26
5	75.33	20	74.87
6	75.34	21	67.01
7	83.96	22	
8	76.87	23	
9		24	44.57
10		25	76.81
11	67.52	26	79.74
12	80.83	27	
13	86.92	28	78.82
14		29	67.85
15	81.79		

AVERAGE WEIGHTED SCORES

- Poor Walkability 0-24
- Average walkability 25-49
- Somewhat Walkable 50-69
- Very Walkable 70-89
- Walkers' Paradise 90-100



Results – Average score per question

MAP BLOCKS	PEDESTRIAN FACILITIES AND DESIGN						PEDESTRIAN AND VEHICULAR CONFLICTS	CROSSWALKS			UNIVERSAL ACCESSIBILITY						TRANSIT AREAS		SAFETY				WALK APPEAL				AVERAGE
	Sidewalk Presence	Pedestrian Walking surface	Sidewalk Alternative	Sidewalk width	Sidewalk Capacity	Sidewalk Lighting	Conflicts	Crosswalk condition	Detectable Warning Details	Wheelchair access	Curb cut presence	Texture Differences	ADA ramps	Building entrances	Sidewalk Connectivity	Transit stop distance	Parking connectivity to walkways	Eyes on the street	Perceived safety	Pedestrian visibility along sidewalks	Pedestrian visibility along crosswalks	Landscaping	Shade	Aesthetics	Walk Appeal		
1	5.0	4.6	4.3	4.7	4.3	4.7	3.2	3.9	4.7	4.0	4.7	2.8	4.3	4.8	5.0	4.7	5.0	4.8	4.8	5.0	5.0	4.8	4.8	4.8	4.9	4.5	
2	5.0	3.1	3.6	3.4	3.3	3.5	3.1	3.2	4.6	2.5	4.1	3.4	3.3	3.5	4.6	4.6	5.0	2.6	3.7	4.1	4.6	2.5	3.6	3.4	3.5	3.7	
3	4.9	3.5	4.5	4.1	4.2	4.6	1.7	4.3	5.0	3.1	4.2	3.9	4.4	4.8	5.0	4.9	4.5	5.0	4.8	5.0	4.9	4.3	4.1	4.5	4.7	4.4	
4	5.0	2.8	5.0	3.7	3.0	3.5	2.7	3.7	5.0	2.0	4.7	3.7	4.2	4.2	4.7	5.0	5.0	3.5	4.0	5.0	4.7	4.0	3.7	3.7	4.2	4.0	
5	5.0	3.4	3.5	4.5	3.8	4.1	2.8	3.5	4.7	3.0	4.7	4.5	4.4	4.4	5.0	4.2	4.4	4.5	4.2	5.0	4.8	3.5	3.2	3.3	3.9	4.1	
6	5.0	3.3	2.5	4.0	2.7	5.0	4.2	3.5	4.3	3.0	4.3	4.3	4.0	4.0	5.0	4.3	5.0	4.0	4.2	5.0	5.0	3.3	3.3	3.7	3.7	4.0	
7	5.0	4.1	4.1	4.9	4.9	3.9	2.9	4.2	4.4	4.0	4.6	3.1	4.4	4.6	5.0	4.4	4.4	4.9	4.9	4.9	5.0	4.1	4.4	4.2	4.6	4.4	
8	4.2	3.4	5.0	3.8	3.0	4.6	1.8	4.2	5.0	3.4	5.0	4.6	3.8	3.6	4.6	4.6	5.0	2.4	4.2	4.2	4.6	2.6	4.2	3.8	4.0	4.0	
9																											
10																											
11	2.7	2.7	2.1	3.4	4.0	3.6	3.4	2.8	4.6	2.4	4.2	2.8	3.3	3.1	3.6	4.4	4.2	3.0	3.7	4.6	4.4	3.6	3.0	3.5	3.6	3.5	
12	4.5	4.5	4.3	4.5	4.5	4.0	2.5	4.5	5.0	3.5	5.0	3.5	4.3	4.3	5.0	4.8	5.0	3.8	4.5	4.5	5.0	4.0	4.0	4.0	3.8	4.3	
13	5.0	5.0	5.0	5.0	5.0	5.0	3.0	4.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	4.0	3.0	5.0	5.0	5.0	4.0	4.0	4.6	
14																											
15	5.0	3.0	5.0	5.0	5.0	3.0	3.0	3.0	5.0	3.0	1.0	3.0	4.0	4.0	5.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.2	
16	4.0	4.5	5.0	4.0	4.0	3.0	4.0	3.0	5.0	3.0	4.0	5.0	4.0	5.0	5.0	5.0	5.0	4.0	4.0	3.0	3.0	5.0	5.0	4.0	3.5	4.2	
17	3.0	2.0	1.7	5.0	3.0	3.0	3.0	2.3	5.0	2.3	5.0	3.0	4.3	4.0	2.3	4.3	5.0	0.0	2.0	3.0	3.0	3.0	3.0	1.7	1.7	3.0	
18																											
19	2.0	2.0	2.0	3.0	3.4	0.0	3.0	2.4	1.0	1.0	1.0	1.0	1.0	1.4	3.0	4.0	5.0	2.0	0.0	1.0	1.8	3.8	5.0	1.0	1.0	2.1	
20	5.0	4.0	5.0	3.0	3.0	3.0	3.0	4.0	5.0	3.0	5.0	3.0	4.0	4.0	5.0	4.0	5.0	3.0	4.0	5.0	5.0	3.0	3.0	4.0	4.0	4.0	
21	2.0	2.0	2.0	3.0	3.7	4.3	3.0	2.0	2.3	3.0	5.0	1.0	5.0	4.0	3.0	4.3	5.0	2.0	3.3	5.0	5.0	3.0	3.7	4.0	4.3	3.4	
22																											
23																											
24	0.8	1.2	2.0	1.0	3.0	1.0	2.3	2.0	1.7	1.7	2.0	1.3	2.5	2.7	2.3	4.3	3.7	2.5	1.7	4.0	3.7	3.0	2.3	2.2	1.5	2.3	
25	5.0	4.3	5.0	3.4	4.6	3.3	2.7	2.9	5.0	3.2	4.8	3.9	3.9	4.1	5.0	3.7	5.0	3.0	4.3	5.0	4.6	4.1	3.7	3.7	3.8	4.1	
26	5.0	3.2	5.0	3.8	3.8	4.5	2.7	4.3	5.0	2.7	4.8	3.7	3.8	4.3	5.0	4.3	5.0	4.5	4.8	5.0	4.8	4.5	3.3	4.2	4.3	4.3	
27																											
28	5.0	3.3	5.0	2.3	4.3	5.0	3.0	2.3	5.0	3.0	4.3	1.7	4.3	5.0	5.0	4.3	5.0	3.7	4.3	5.0	5.0	3.7	3.0	4.3	4.3	4.1	
29	4.6	3.2	4.2	3.2	3.4	3.6	3.4	3.3	4.6	2.2	4.4	3.6	3.0	3.9	4.2	4.1	3.8	2.5	3.5	4.4	4.2	3.4	3.6	3.2	3.7	3.6	
	4.2	3.3	3.9	3.8	3.8	3.6	2.9	3.3	4.4	2.9	4.2	3.3	3.8	4.0	4.4	4.4	4.8	3.4	3.8	4.3	4.5	3.8	3.8	3.6	3.7	3.8	

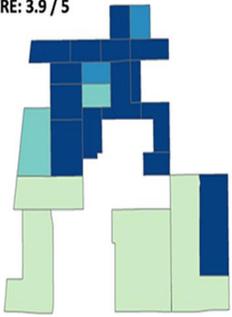


Results – Graph for each question



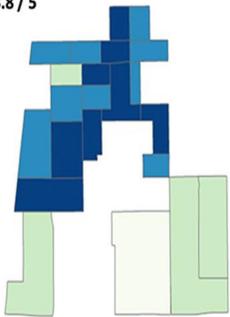
SIDEWALK ALTERNATE

SCORE: 3.9 / 5



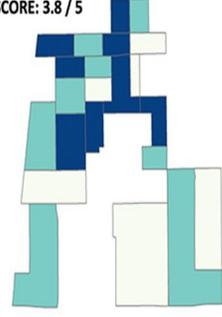
SIDEWALK WIDTH

SCORE: 3.8 / 5



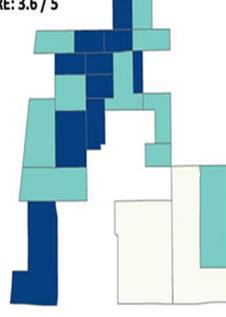
SIDEWALK CAPACITY

SCORE: 3.8 / 5



SIDEWALK LIGHTING

SCORE: 3.6 / 5



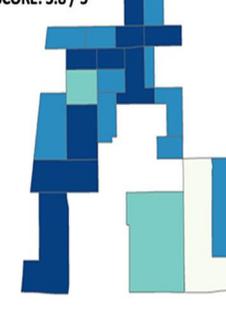
TEXTURE DIFFERENCES

SCORE: 3.3 / 5



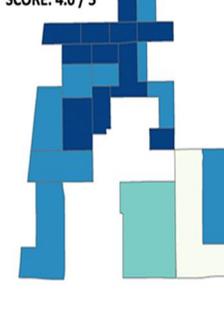
ADA TRAMPS

SCORE: 3.8 / 5



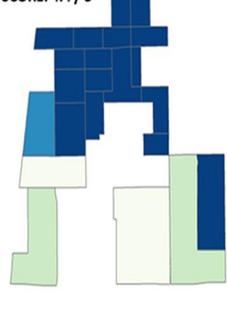
BUILDING ENTRANCES

SCORE: 4.0 / 5



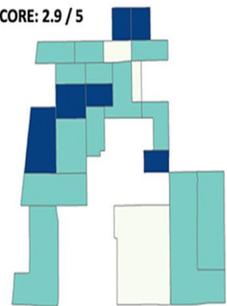
SIDEWALK CONNECTIVITY

SCORE: 4.4 / 5



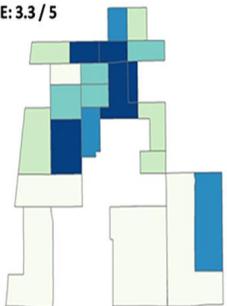
PEDESTRIAN AND VEHICULAR CONFLICTS

SCORE: 2.9 / 5



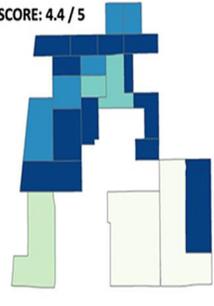
CROSSWALK CONDITION

SCORE: 3.3 / 5



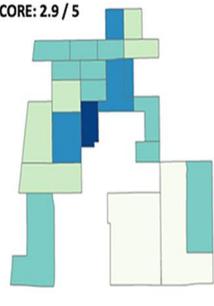
DETECTABLE WARNING DETAILS

SCORE: 4.4 / 5



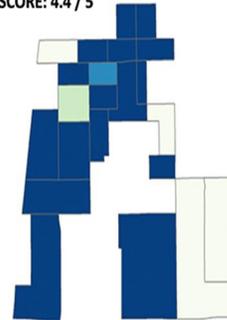
WHEELCHAIR ACCESS

SCORE: 2.9 / 5



TRANSIT STOP DISTANCE

SCORE: 4.4 / 5



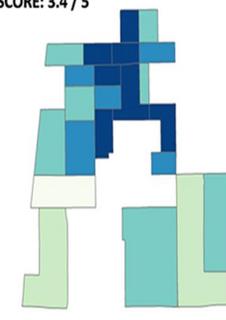
PARKING CONNECTIVITY TO WALKWAYS

SCORE: 4.8 / 5



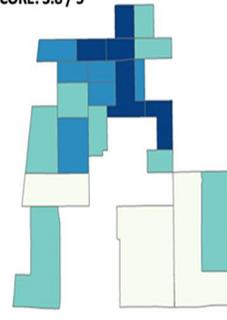
EYES ON THE STREET

SCORE: 3.4 / 5

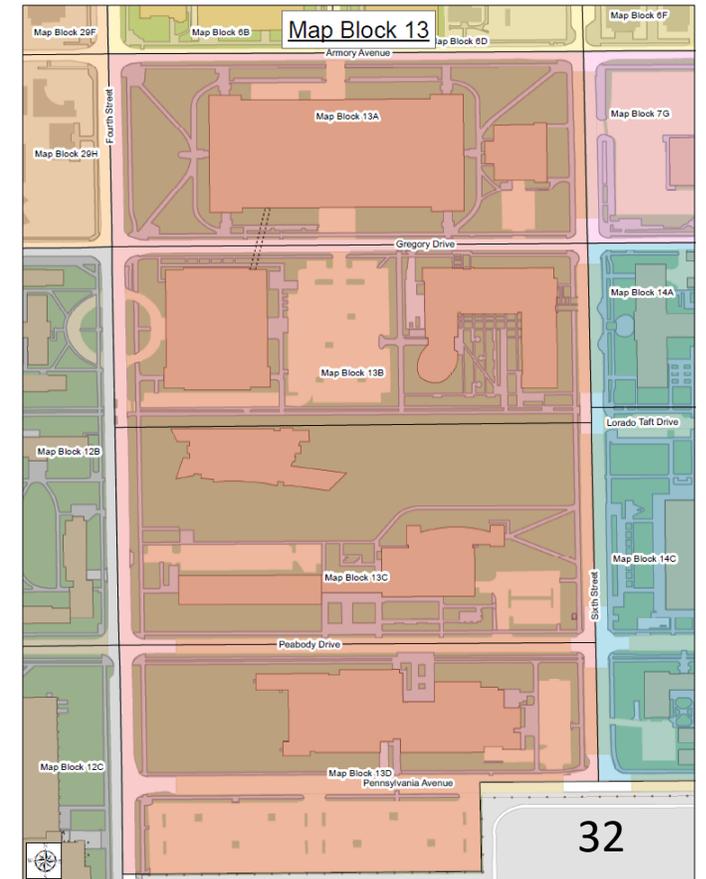
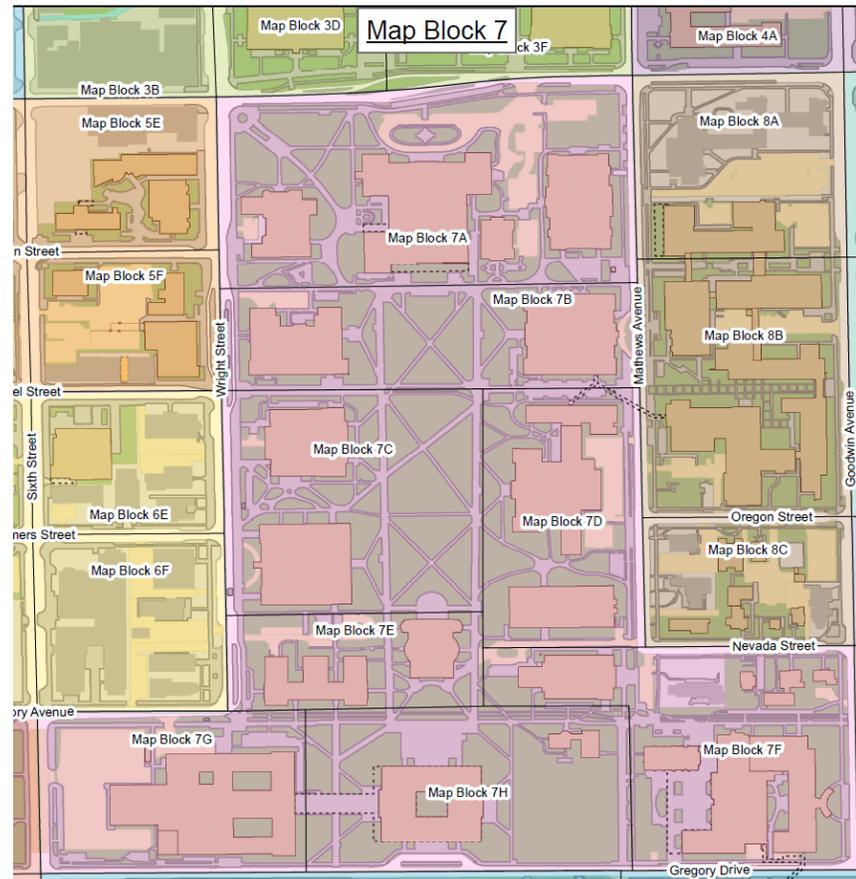
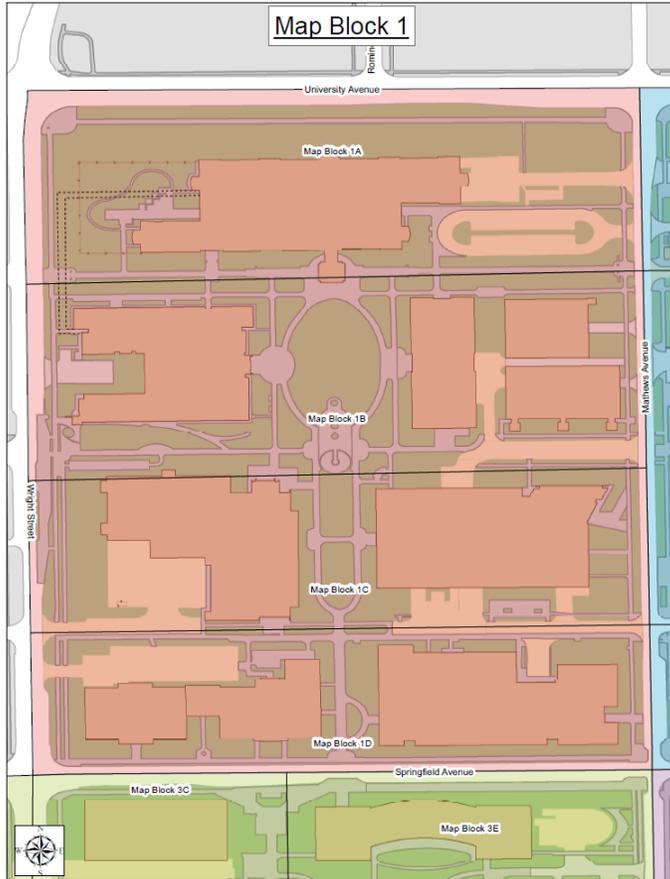


PERCEIVED SAFETY

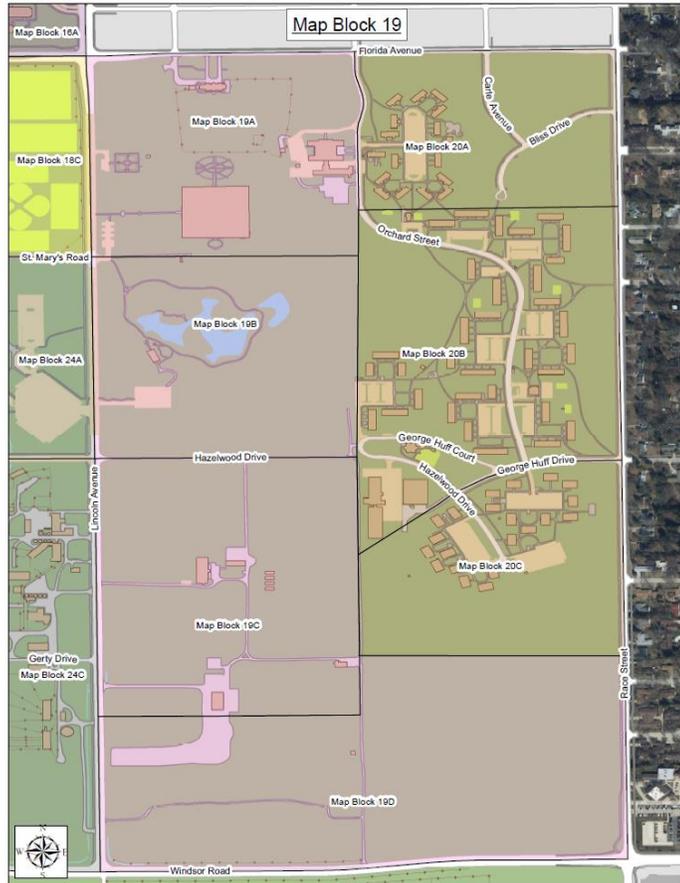
SCORE: 3.8 / 5



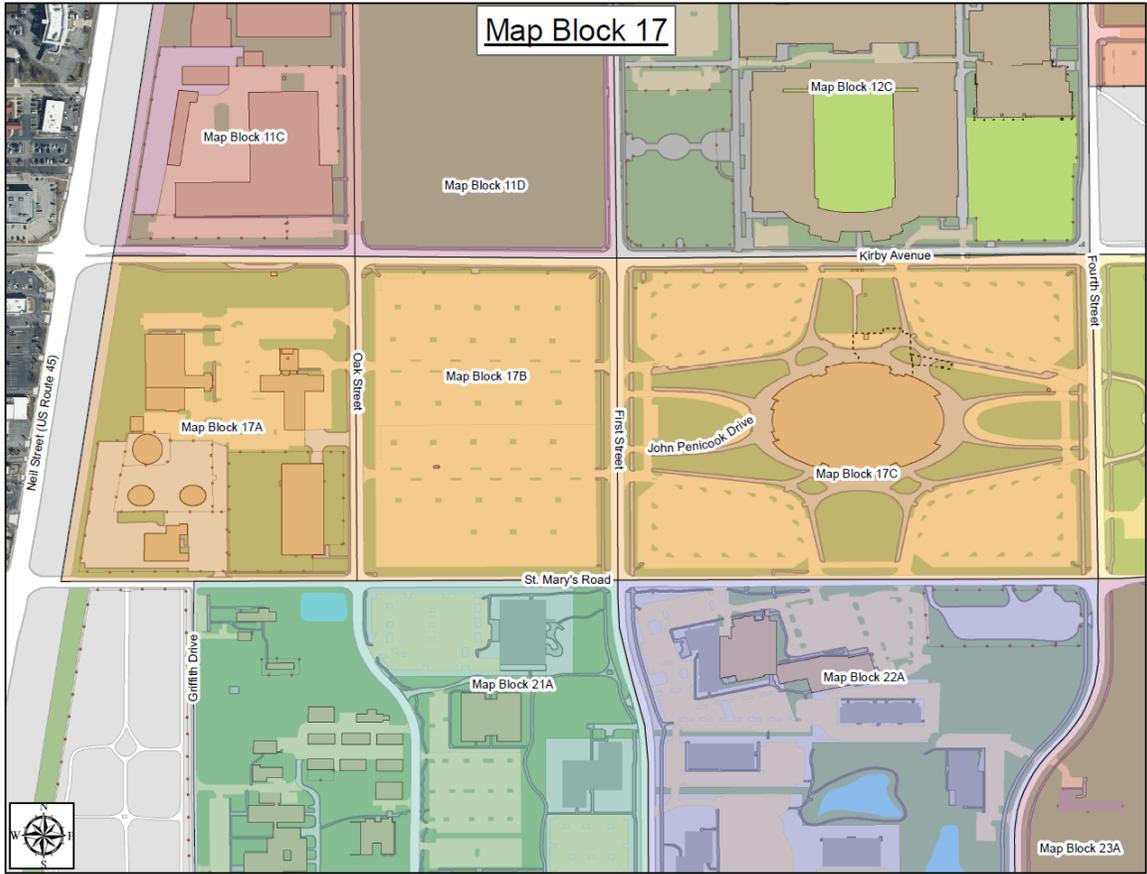
Highest Scoring blocks – Blocks 1, 7, and 13



Lowest Scoring blocks - Blocks 19, 17 and 24



Lowest Scoring blocks - Blocks 19, 17 and 24



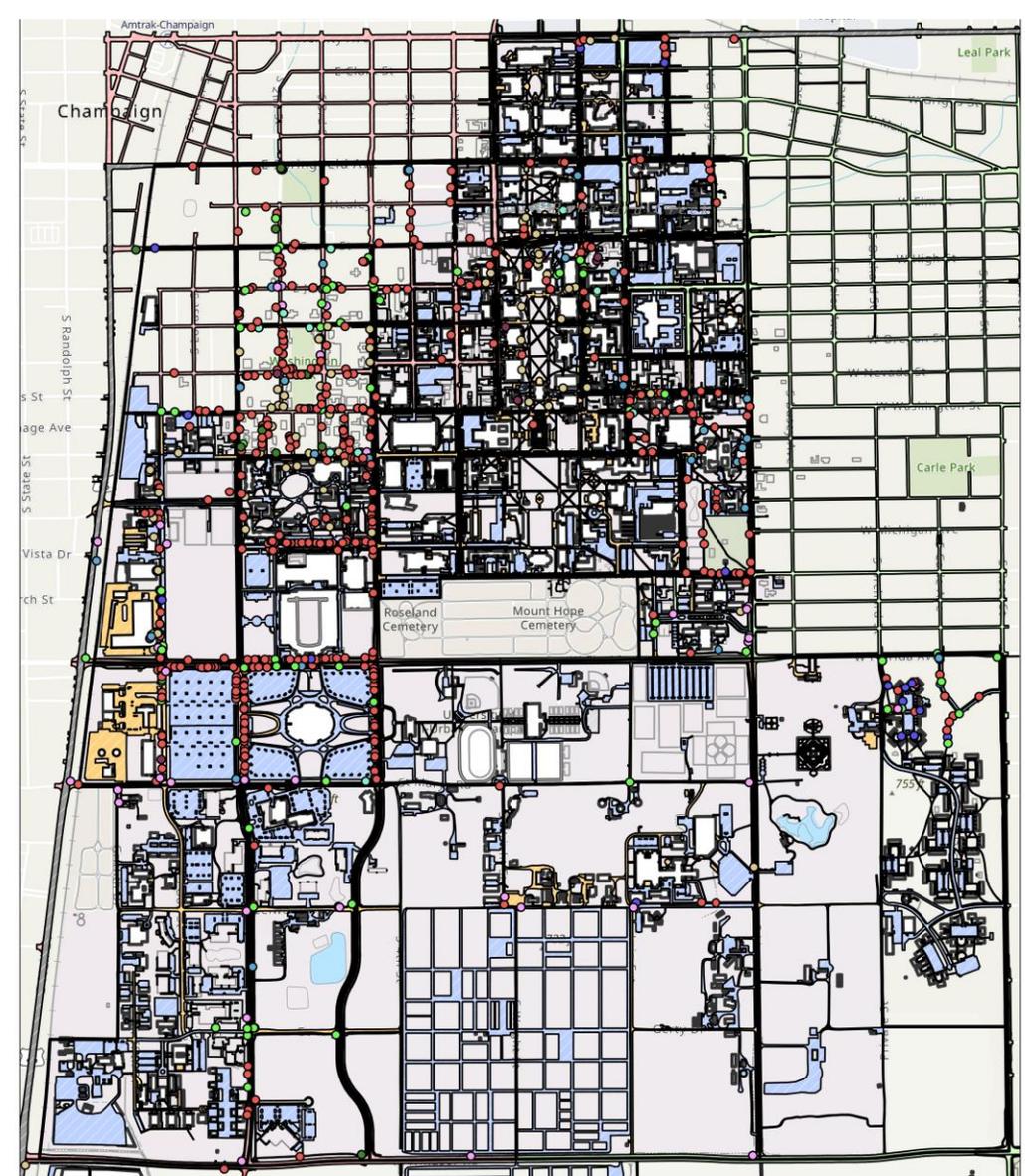
Deficiency Reporting

FS_WalkabilityAudit Deficiency Category

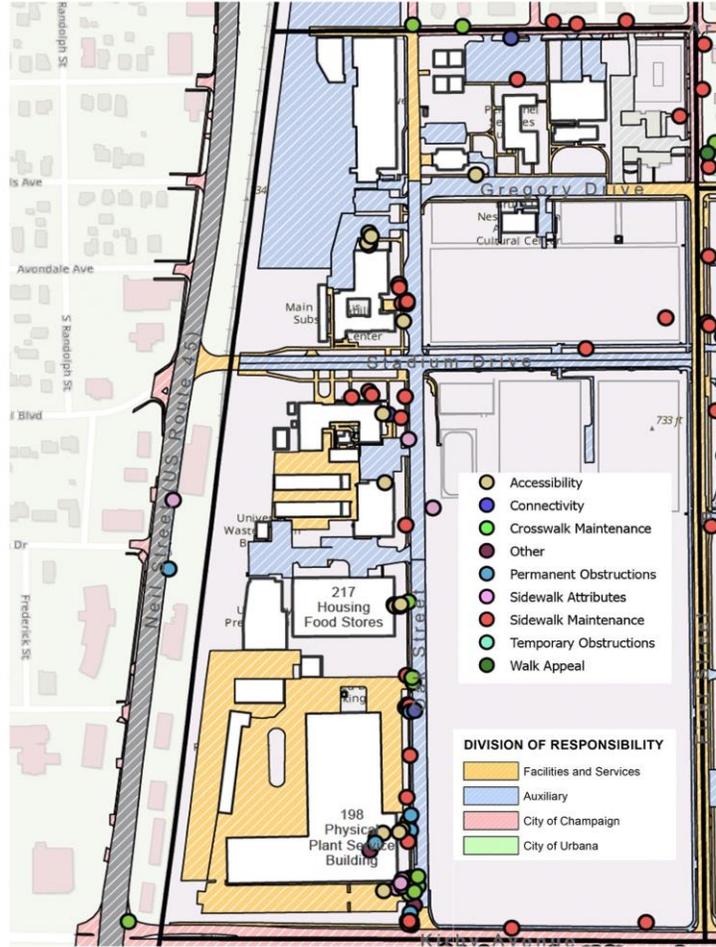
-  A. Sidewalk attributes
-  B. Temporary obstructions
-  C. Permanent obstructions
-  D. Sidewalk maintenance
-  E. Crosswalk maintenance
-  F. Accessibility
-  G. Connectivity
-  H. Walk Appeal
-  I. Other

FS Division of Responsibility DIVISION OF RESPONSIBILITY

-  Facilities and Services
-  Auxiliary
-  City of Champaign
-  City of Urbana
-  Village of Savoy
-  Champaign County
-  IDOT
-  Private



DEFICIENCY REPORTING SAMPLE



MAP BLOCK 11

Deficiency Reporting- Sample Block 11

FS_WalkabilityAudit

Deficiency Category

- A. Sidewalk attributes
- B. Temporary obstructions
- C. Permanent obstructions
- D. Sidewalk maintenance
- E. Crosswalk maintenance
- F. Accessibility
- G. Connectivity
- H. Walk Appeal
- I. Other



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Inspiration • Innovation • Leadership • Perseverance • Agility

Next Steps

- Complete the data collection and analysis thereof
- Calculate the walk score for the campus
 - Share the results with collaborating units
 - Publish the Walkability Audit results
- Share and vet the results for Deficiency Reporting with the collaborating departments
- Use the results to create a Campus Walking Master Plan to preserve, maintain, and improve the walkway network on-campus



Questions?



Agenda

- Introduction – Morgan White
- Old Business
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 - Commuter Program – Sarthak Prasad
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 - Zipcar – Stacey DeLorenzo
- Community Updates – Morgan White or Stacey DeLorenzo

39



Mode Choice Survey



Background

Facilities & Services (F&S) Transportation Demand Management (TDM) is conducting the [Mode Choice Survey](#) for our university students, faculty, and staff.

The main purpose of this survey is to assess our students' and employees' preferred mode of transportation. This project directly relates to the Illinois Climate Action Plan (iCAP) 2020.

This survey is available until April 30th, 2022.

Please share this survey with your friends and classmates too!

go.illinois.edu/ModeChoiceSurvey



Communication sources used

- E-week
- GradLINKS
- Sample of 5000 UG emails
- Departmental contacts
- Digital Signage
- Other Newsletters



Preliminary Results

306 people have responded, as of April 4, 2022

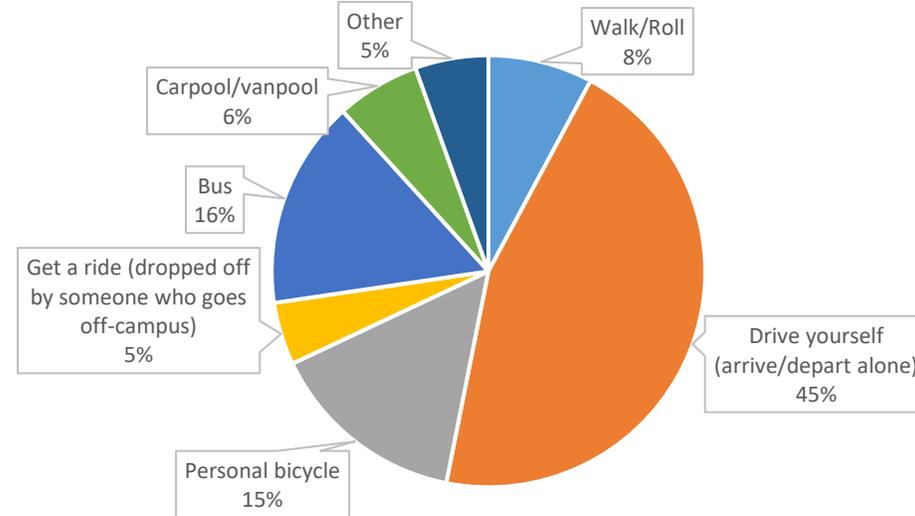
128 Faculty and Staff

178 Students

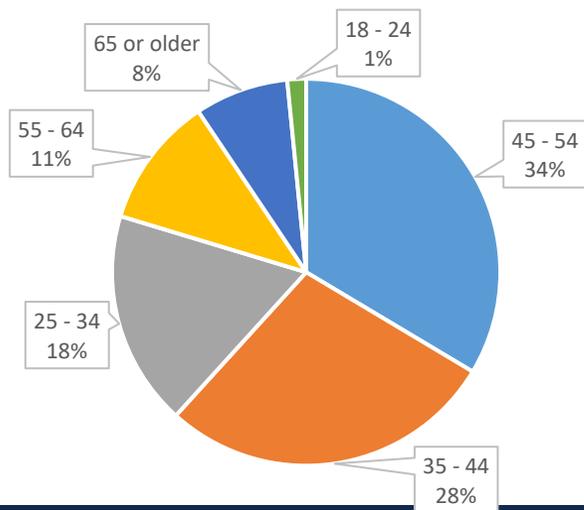


Preliminary results – Faculty/Staff

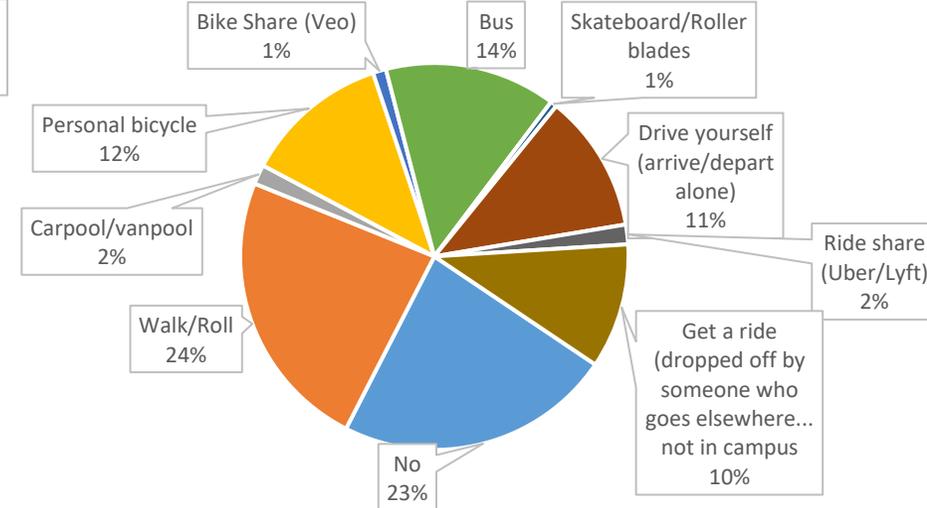
Q10: What is your primary means of transportation from your place of residence to your first campus destination on a typical weekday?



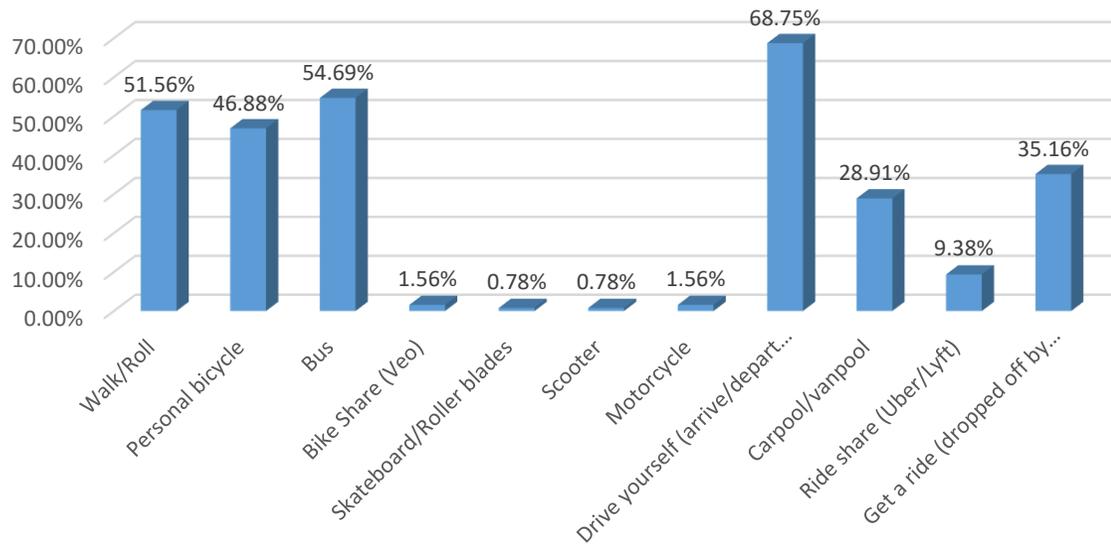
Q2: How old are you?



Q11: Do you supplement your travel?

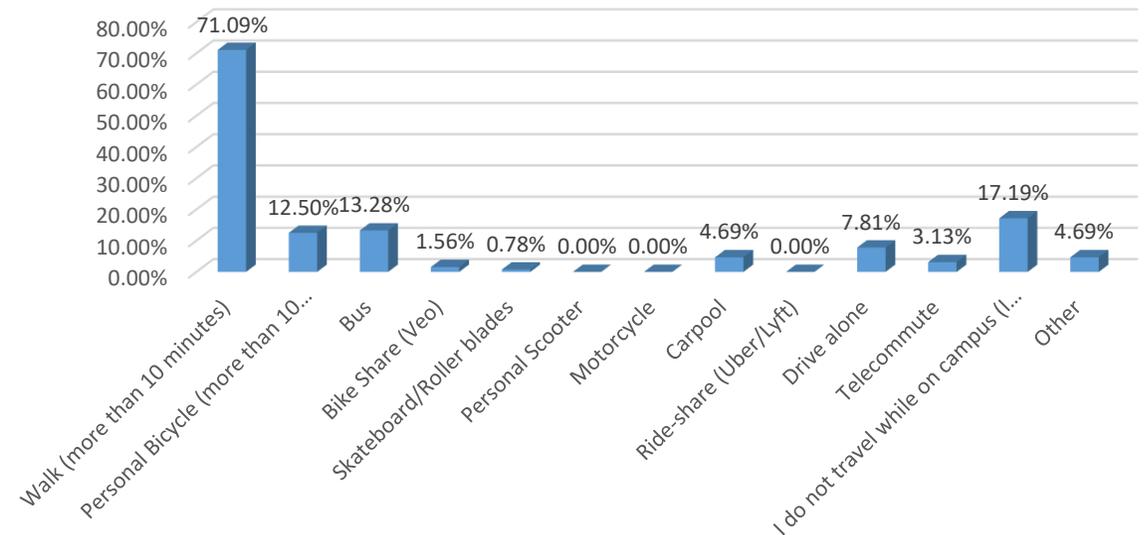


Q12: Faculty/Staff Top 3 preference



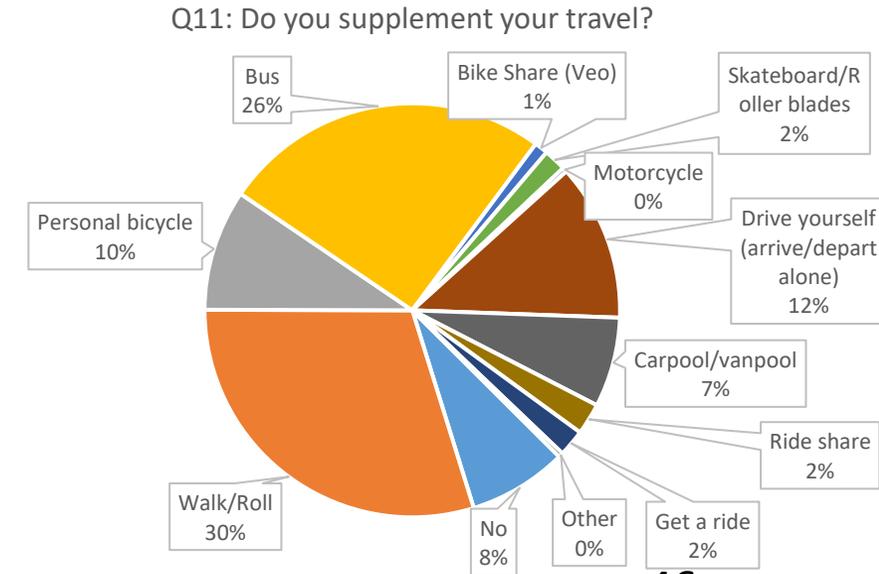
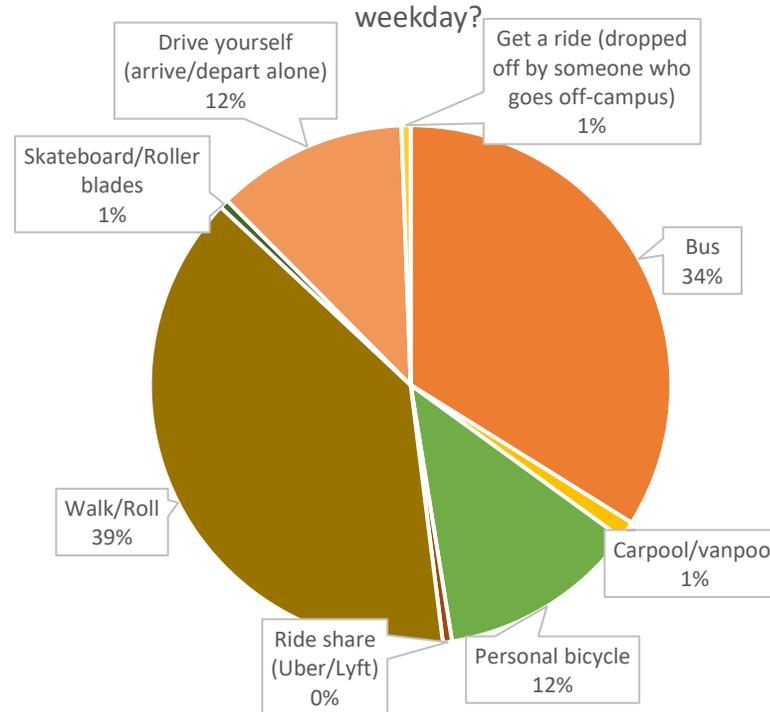
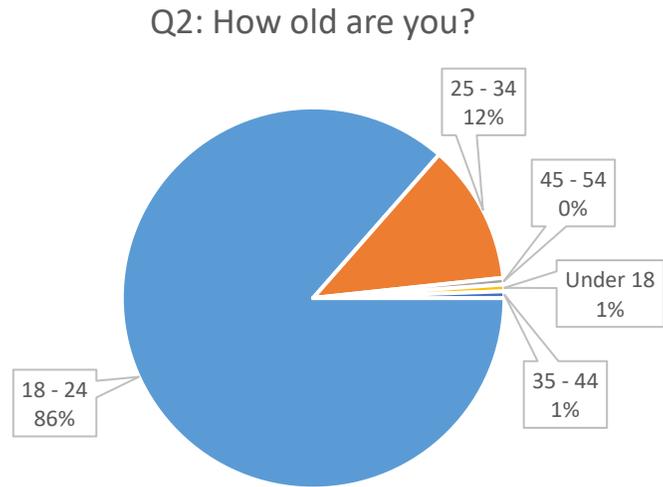
- 21% of the respondents own a bicycle on-campus
- 91% of the respondents own a car
- 12.50% of the respondents own an electric/hybrid car
- 44.50% of the respondents have a campus parking permit

Q13: How do you travel while on-campus?



Preliminary results – Students

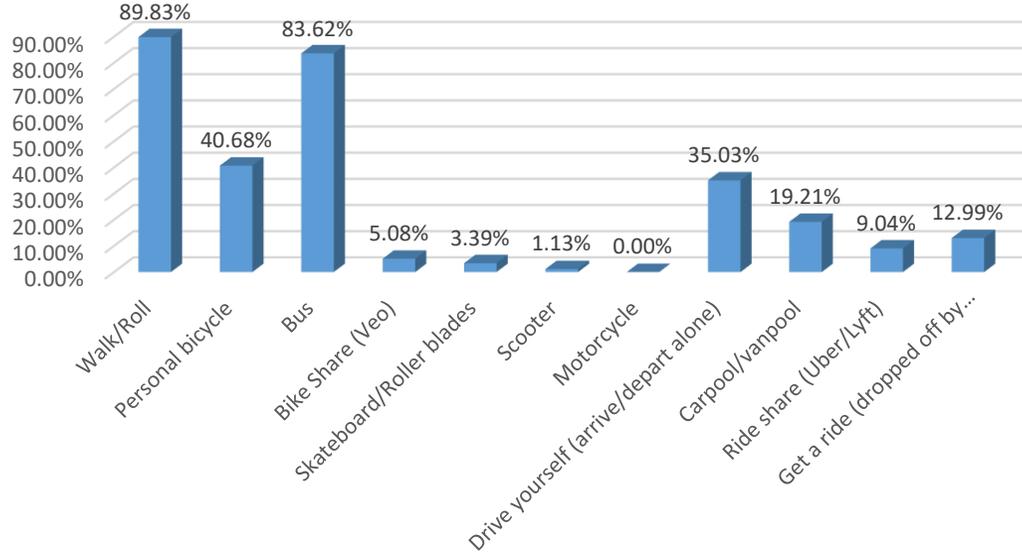
Count of Q10: What is your primary means of transportation from your place of residence to your first campus destination on a typical weekday?



46

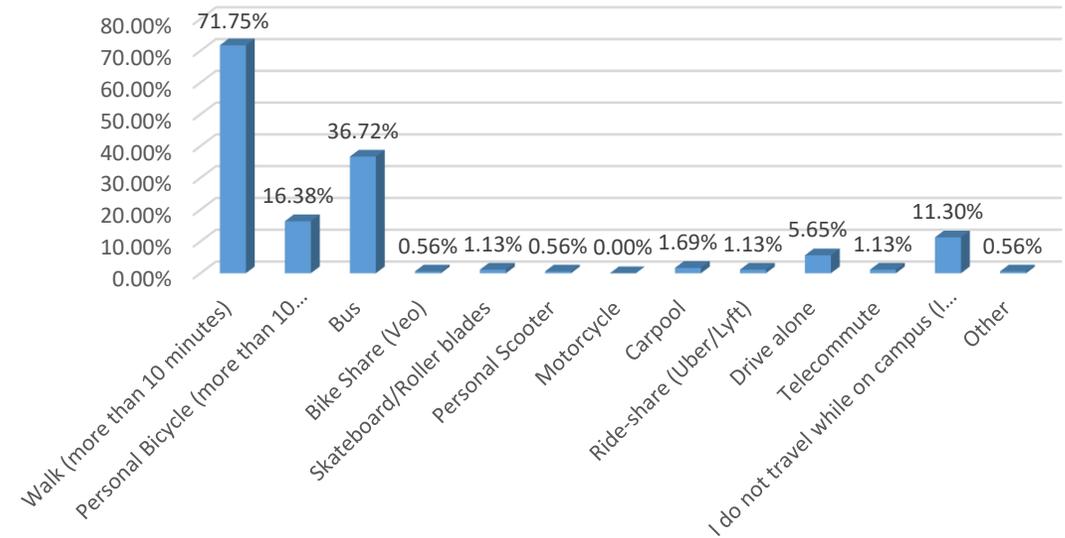


Q12: Top 3 preference



- 33% of the respondents own a bicycle on-campus
- 41% of the respondents own a car
- 4.50% of the respondents own an electric/hybrid car
- 8.50% of the respondents have a campus parking permit

Q13: How do you travel while on-campus?



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48



Commuter Program – Bus, Bike, and Hike!



We are working on the Bus, Bike, and Hike Commuter Program, which will be available to the University of Illinois Urbana-Champaign faculty and staff.

We will provide more updates on this topic at a later stage. Please reach out to us at fandscampustdm@illinois.edu for questions and more information.



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51





Veo Cosmo

Unity



Veo Cosmo-e

- Veo Cosmo-e discussion – separate document provides additional information



COSMO-E (VBE3)

- Class-2 Customized Built Shared Ebike
- Integrated Wheels
- Advanced controlled system
- Accurate Geofencing & GPS

53



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54



EV Task Force



Agenda

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56





ZipCar



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ZipCars

Why does the Zipcar company believe that there is not a contract that includes MTD, Champaign or Urbana?



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59



Community Updates

