

INTERMODAL TRANSPORTATION HUBS FOR COLLEGES AND UNIVERSITIES

Directional Workshop
April 14, 2022

N NELSON
NYGAARD

ATG
ALLIANCE
TRANSPORTATION GROUP

CAMBRIDGE
SYSTEMATICS

M
MOSAIC
STRATEGY PARTNERS



North Central Texas
Council of Governments

Agenda

- **WELCOME** 10:00-10:10
- **LEVEL SETTING: HISTORY AND OPPORTUNITIES** 10:10-10:15
- **MOBILITY HUBS IN THE CONTEXT OF CAMPUSES** 10:15-10:25
- **BREAK OUT SESSION: VISIONING & PROBLEM IDENTIFICATION** 10:25-11:15
- **BREAK** 11:15-11:20
- **SWOT/RISK IDENTIFICATION EXERCISE** 11:20-12:00
- **CLOSING AND NEXT STEPS**

Workshop Objectives

- Identify short-term and long-term **project goals**
- Discuss **success metrics** for mobility hub implementation
- Identify broader campus and community **connectivity goals** towards which mobility hubs can be a tool
- Discuss potential **risk factors**

Project Objectives

Getting to Regional Mobility Hub Guidance for Campuses

- Provide **planning and implementation guidance** that responds to the diversity of hub environments at campuses
- Use UNT as an **indicator campus**
- Identify opportunities for mobility and “town and gown” **partnership**
- Provide guidance that is sensitive to factors such as **equity, accessibility, and regional concerns**
- Provide a range of **implementation factors** to accommodate all campus types

The Team

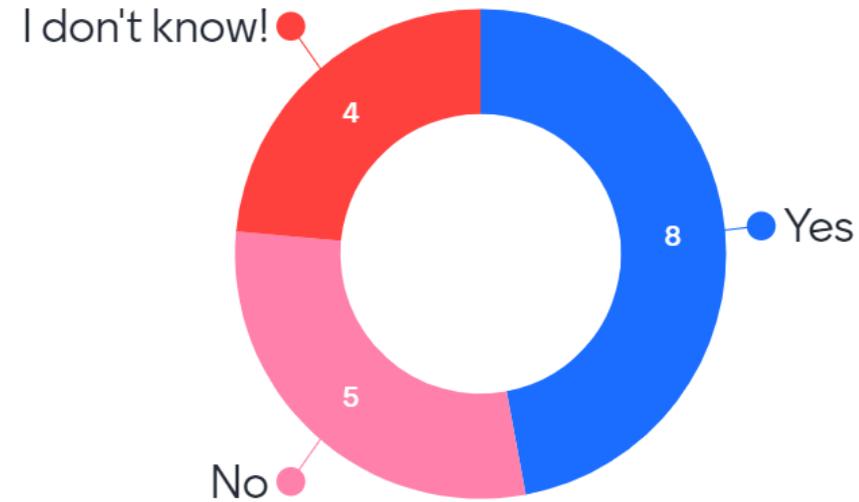


INTRODUCTIONS



- Name
- Organization/Role
- Menti Icebreaker

Does your campus or municipality have a mobility hub?



One component every campus mobility hub should have?



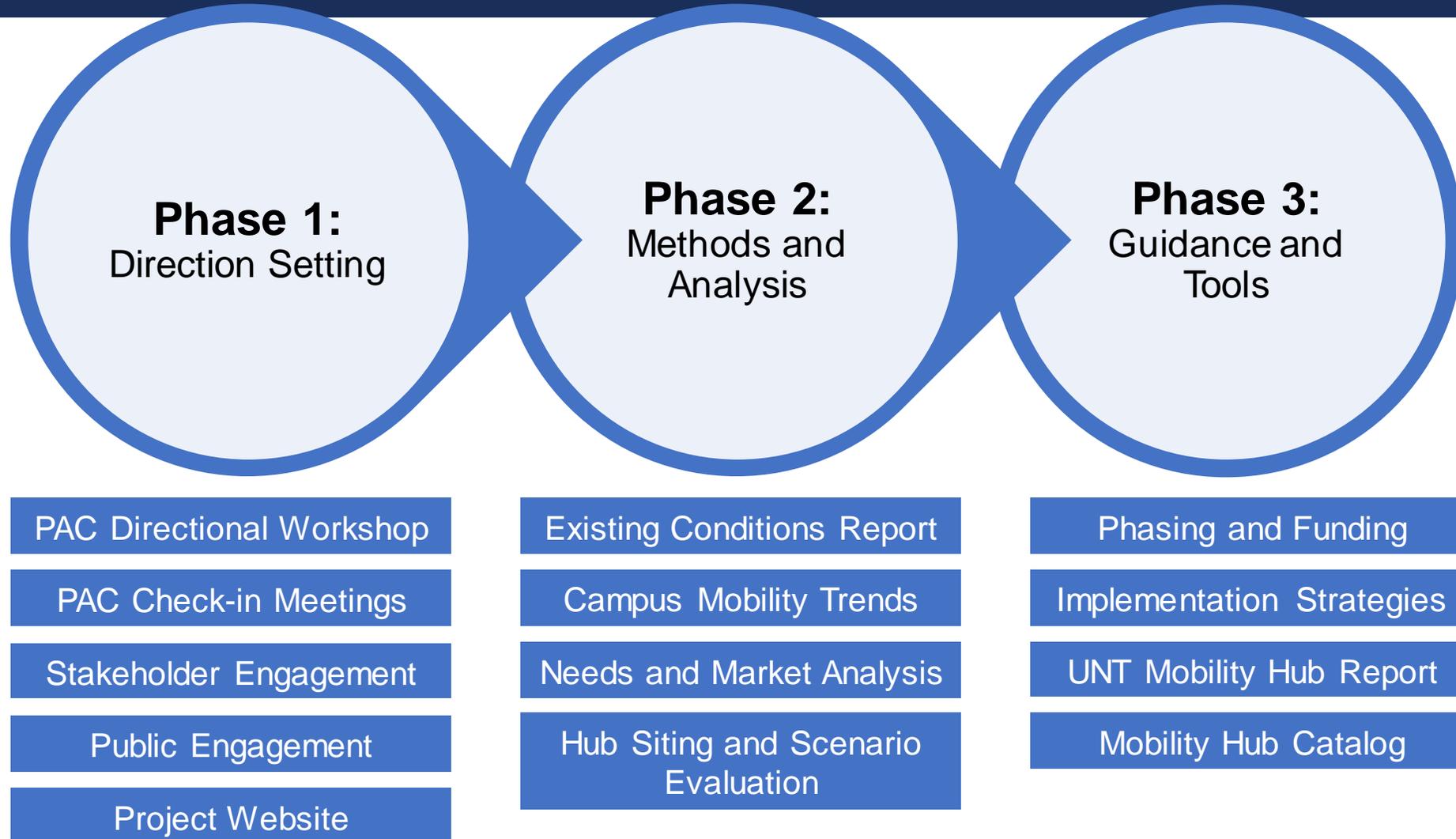
LEVEL SETTING



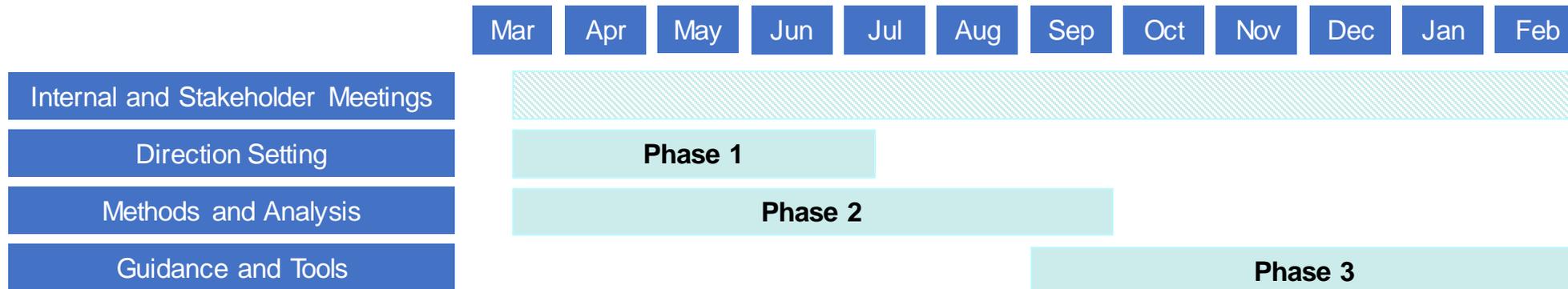
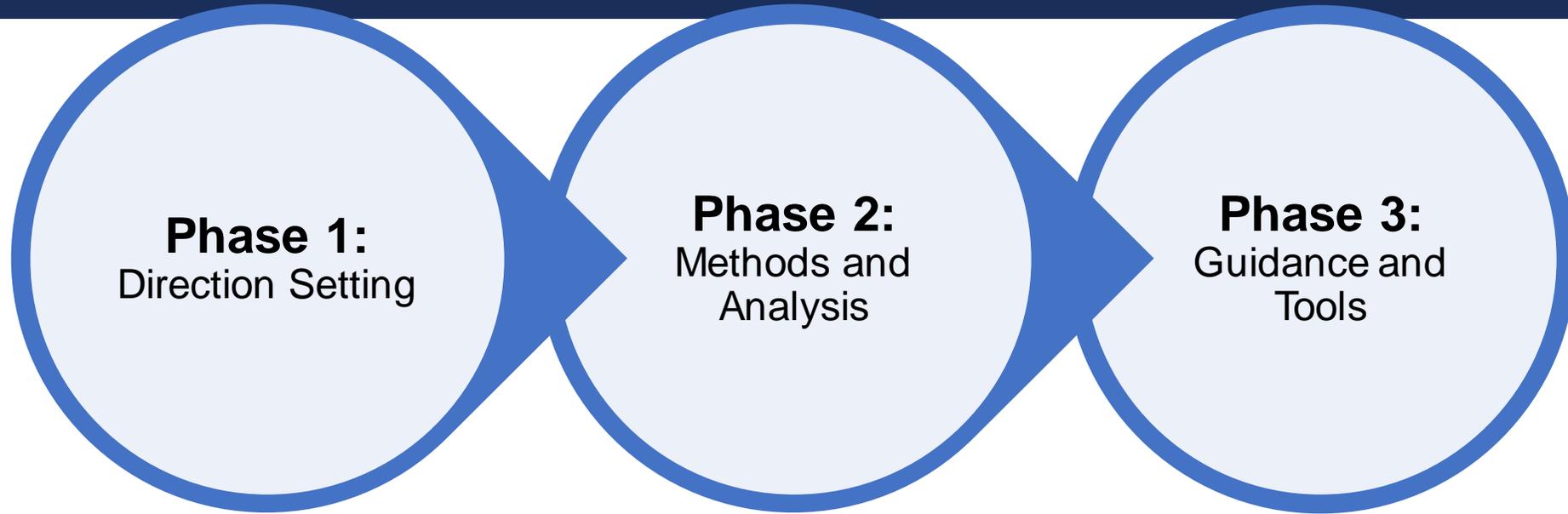
How Did We Get Here?

- Need for mobility hubs identified in NCTCOG FY2020-2021 work program
- Project initially came through request from DCTA and UNT in 2019
- Project delayed due to COVID-19
- In interim, NCTCOG decided to expand the project beyond UNT
- Role of Mobility 2045 and 2022 update in shared mobility and mobility hubs more generally

Overview of Project Phases



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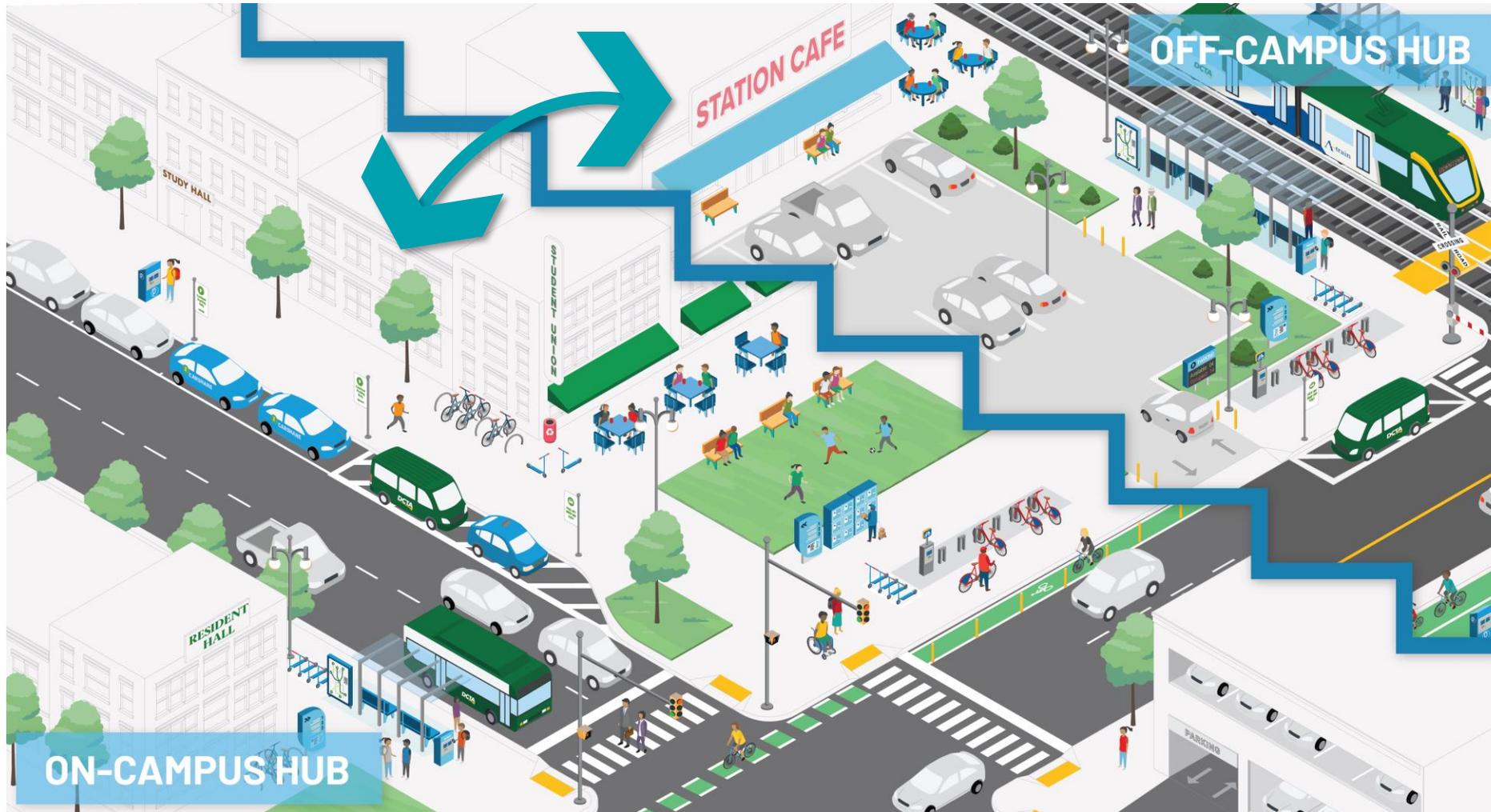
Who should we be meeting with?

Campus stakeholders, students, etc.

MOBILITY HUBS IN THE CAMPUS CONTEXT



What are Mobility Hubs?

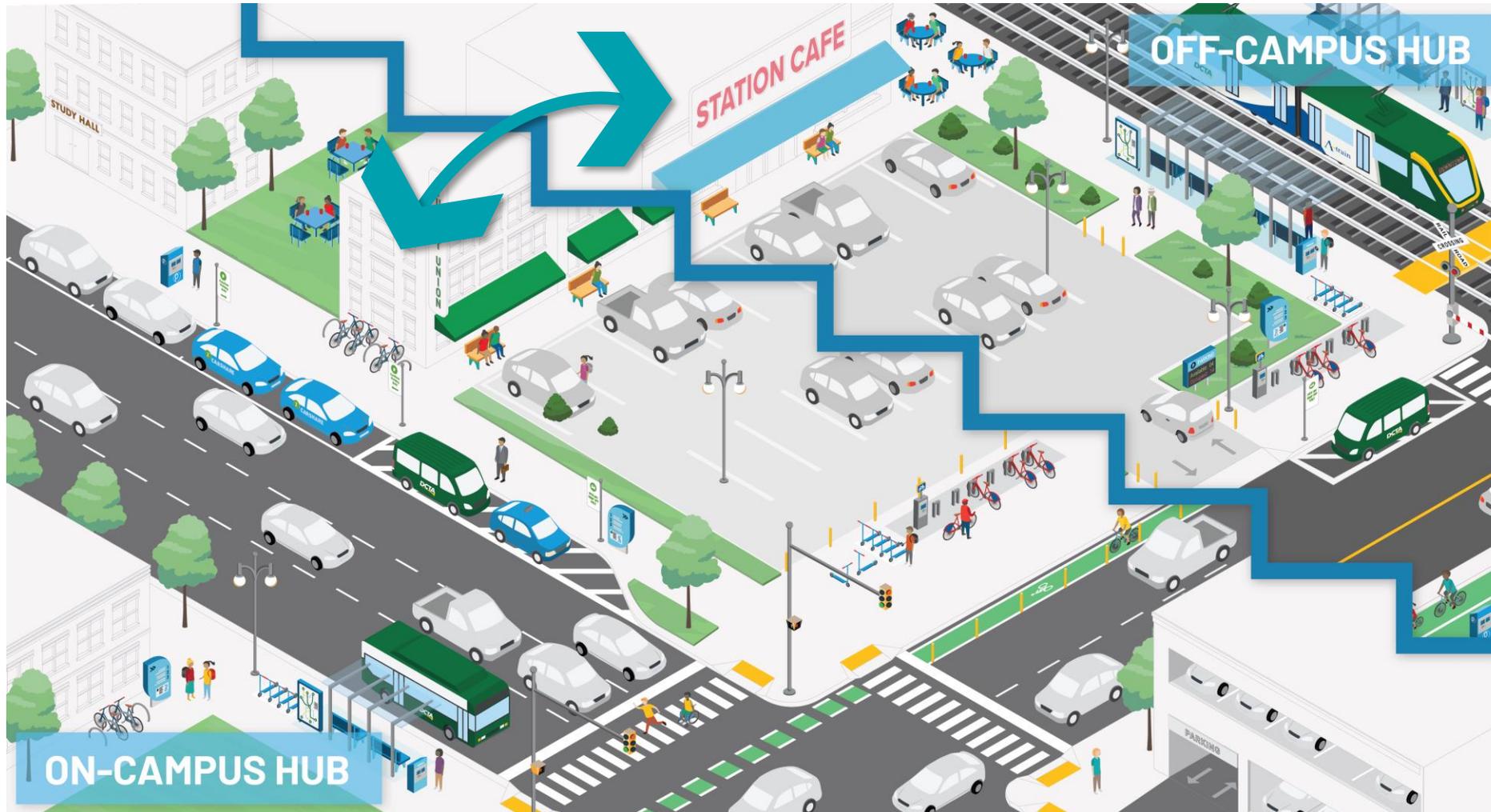


The intersection of mobility options, campus life, and information.

At a concentrated point or spread across several blocks.

Dependent on context and use case.

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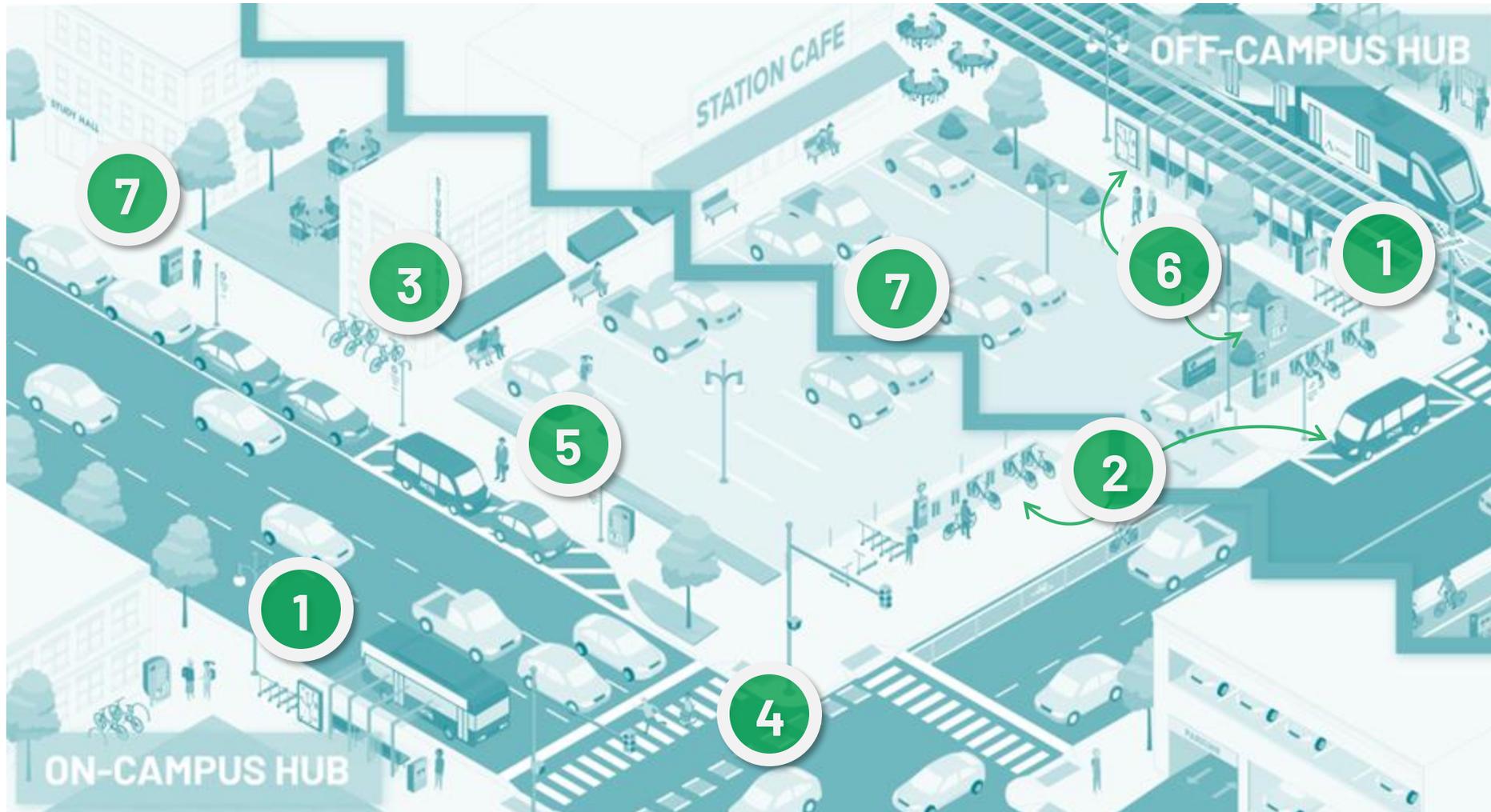


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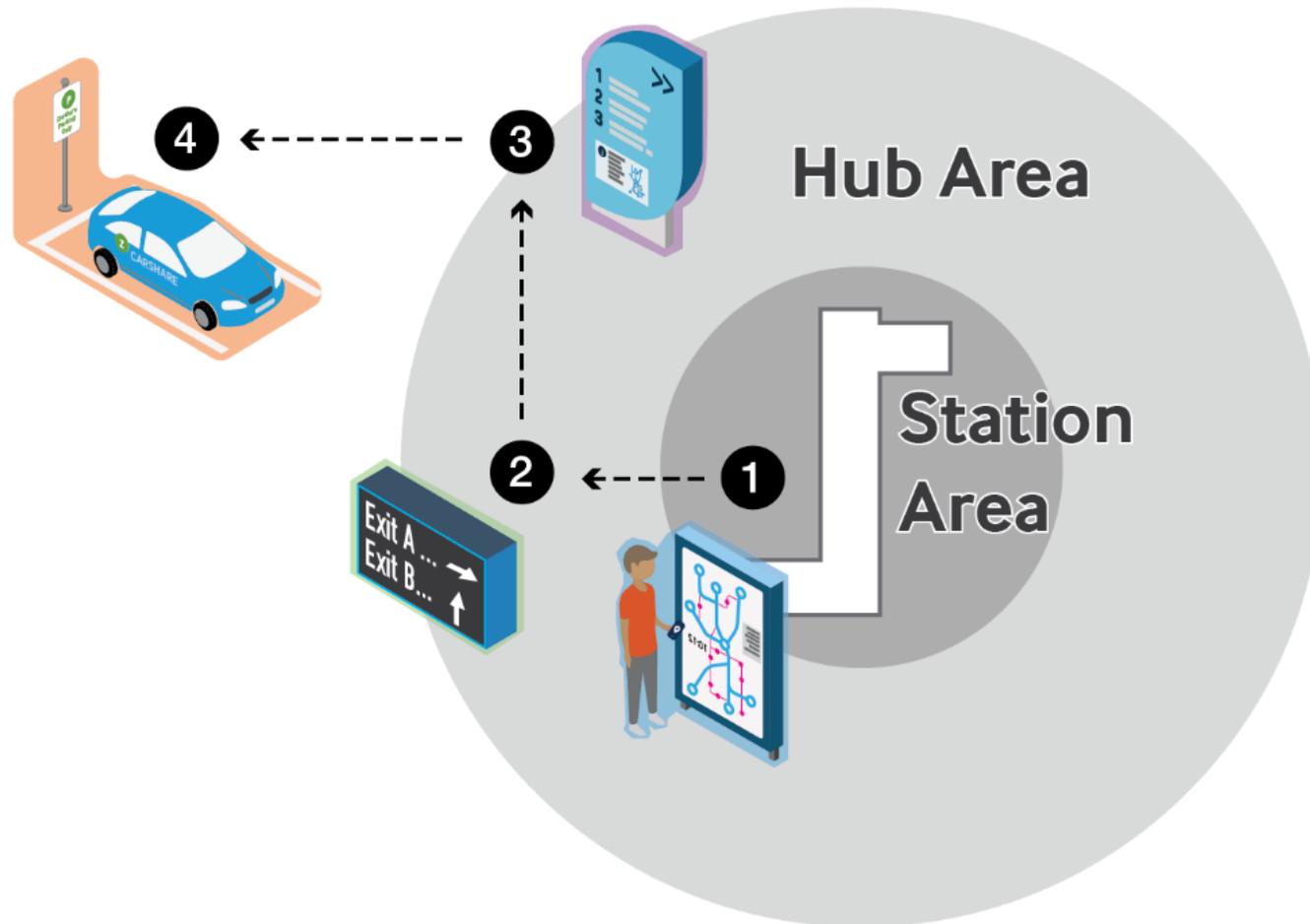
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Mobility Hub Key Components



- 1 Transit (bus/rail) as a core component
- 2 Shared mobility: microtransit, micromobility services, car share
- 3 Bicycle parking, preferable covered
- 4 Pedestrian-supportive infrastructure: sidewalks, human-scale lighting, curb ramps, etc.
- 5 Loading zones
- 6 Information kiosks and retail
- 7 Optional: Parking and delivery hubs

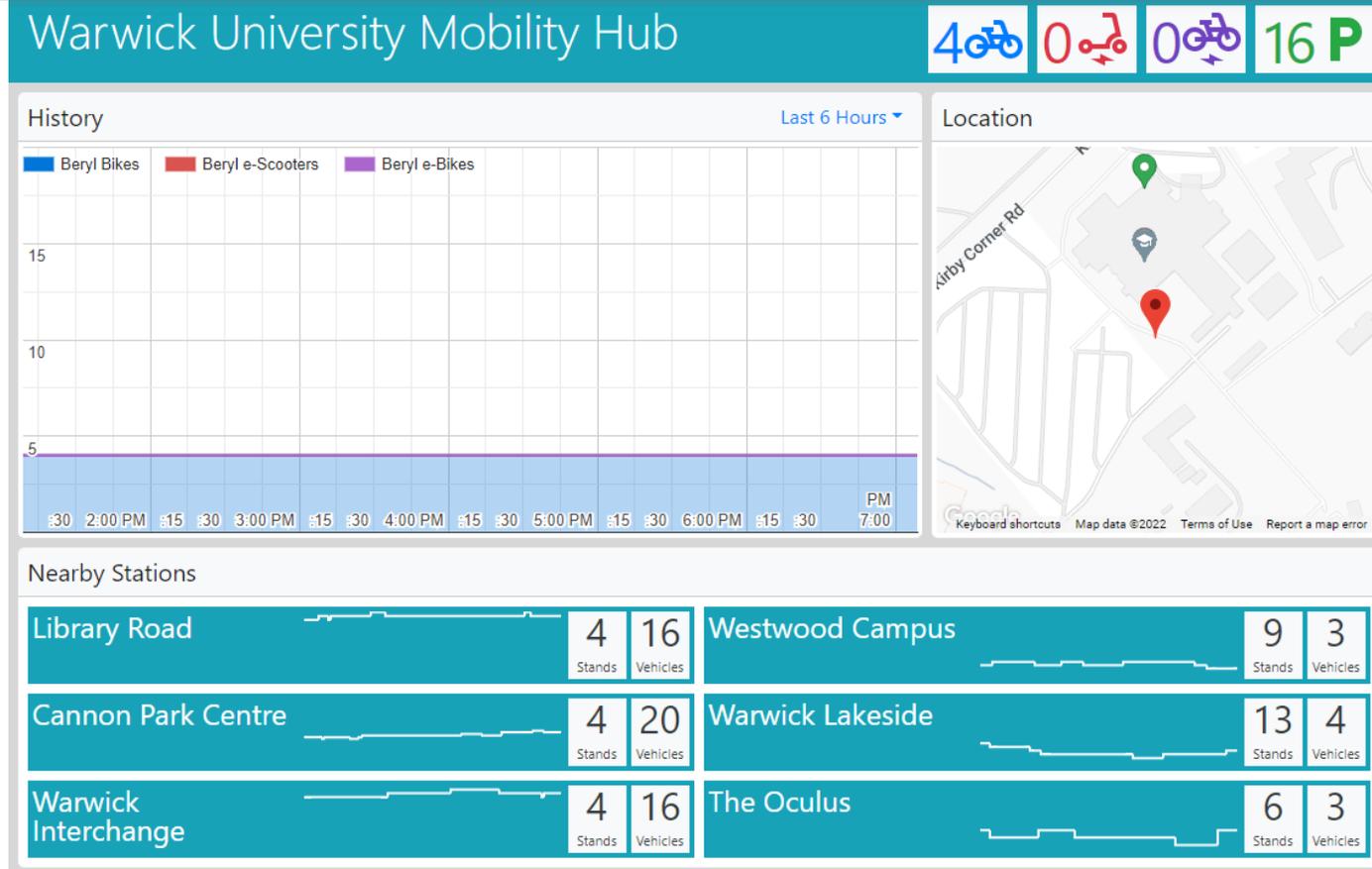
Mobility Hub Connections



Opportunities for quality connections are crucial for mobility hubs to be effective.

Campus Mobility Hubs

- **Warwick University Mobility Hub**
- Virginia Commonwealth University: Monroe Park Mobility Hub
- University of Utah: Health Sciences Campus Mobility Hub
- Cal Poly Pomona: Bronco Mobility Hub (in development)



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DFW–Area Mobility Hubs

SMU/Mockingbird Station

- **DART Rail:** 3 commuter lines
- **DART Bus:** 7 bus routes
- **On-Demand:** 2 GoLink Zones
- **Protected bicycle parking:** 8 “Bike Lids”
- **Carshare:** 3 ZipCar parking spots
- **Park and Ride:** 712 parking spaces



DFW–Area Mobility Hubs

Addison Transit Center

- **DART Bus:** 12 bus routes
- **On-Demand:** 2 GoLink Zones
- **Park and Ride:** 300 parking spaces
- **Paratransit Bay**
- **Bicycle Parking**
- **Pedestrian crosswalks**



VISIONING & PROBLEM IDENTIFICATION



40-45 Minute Break Out

What are we solving for?

- What are the critical problems and gaps in campus mobility today?
 - How does this differ between commuter vs residential campuses?
- What is the role of campus mobility hubs in solving these problems?
- When thinking about scale, what are the minimum components that all campus mobility hubs should have?
- What are some of the unique campus mobility challenges of affiliates that are low-income, BIPOC, and/or navigating disabilities?

Connecting to Users

- Who are the groups who would benefit the most from campus mobility hubs?
Who would benefit the least?
- How might we make campus mobility hubs appealing to those who exclusively drive?
- What are some of the levers that can impact user behavior?

Mobility Hub Vision

- What should the campus mobility hub experience look and feel like? How might it differ from campus to campus?
- How does the vision differ between peripheral campus hubs and hubs embedded within campus?
- How might we tailor the campus mobility hub to best complement the campus experience?

Success Metrics

- What are some metrics that would best measure the success of campus mobility hubs?
- How would these metrics be used?

BREAK

5 MINUTES



SWOT / RISK ID EXERCISE



SWOT Analysis Exercise

Strengths

Weaknesses

Opportunities

Threats

**Policy/Plan
Alignment**

Politics

Funding

COVID

Equity

Implementation

Partnerships

SWOT Analysis Exercise

- NCTCOG capacity, resources, board and staff buy-in; students are engaged
- COG has learned from past experiences of lack of transit investment
- Existing transit studies can help fill in gaps for expected future service
- Supporting and leveraging UNT/DCTA relationship
- Multiple resources/partners to draw from – transit agencies,
- Transit providers and other mode providers don't compete – complementary, creates additive effect
- Data tracking through transit providers, others
 - Ability to modify on-demand service based on usage, flexibility, response
- Desire to create multimodal environments
- Buy-in can be created through technology co-opting at hubs (esp. for Gen Z)
- **What else?**

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- Integration with multiple ongoing efforts and resources:
 - MTP update, microtransit launches, highspeed rail studies, Denton County Regional Transit Study, Infrastructure Investment and Jobs Act (IIJA), etc.
- Population growth generates demand for new mobility solutions
- Integrated payment system for ease of transfers
- Opportunity for agency partnership/collaboration well into the future
 - Look to twin cities area
- Density, or lack thereof at some campuses
 - More land means more transformation opportunities
 - TCU has used available land to satisfy needs like housing, amenities, etc.
- Outward focus: go to where students are (ambassador groups, reps, tabling, events, town halls, etc.) – help generate public understanding
- Opportunity to combine services from agencies where possible
 - Universities have funded Via, other options – scale this or expand

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- MTP update alignment timing
- Lack of public familiarity with mobility hubs
 - And difficulty in educating about hubs (info overload for students)
- Spatial challenges:
 - Metroplex size, lack of walkable access to high frequency transit, only half of population within current transit service areas
- Overabundance of transit providers
- Regional connectivity between modes can be confusing to users
- Funding! There's never enough
- Auto domination in the region – land use is central to this
- Density, or lack thereof at some campuses
- **What else?**

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- Ongoing COVID-19 impacts
- Transit leadership vacuums
- Parking: some local parking regulations induce car preference, some universities may depend on parking revenues
- Lack of interest from smaller cities, hostility towards micromobility from larger cities
- Don't overdo approach when creating multimodal environments – can hinder success
- Trying to serve everybody can lead to failure – be intentional and acknowledge patrons, start with what's most viable, understand users' needs
 - Will differ across populations, across campuses
- Growth -> less parking -> failing to consider this will have greater impact as growth continues
- What will college campuses look like in the future re: switch to virtual, etc.?

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CLOSING AND NEXT STEPS



Next Steps

- Workshop summary
- Campus Mobility Survey [we need your help!]
- Campus interviews
- Focus groups
- Campus Mobility Trends: Existing Conditions/Market Analysis
- Later: PAC check-in workshops

**Parting
thoughts?**

THANK YOU!



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