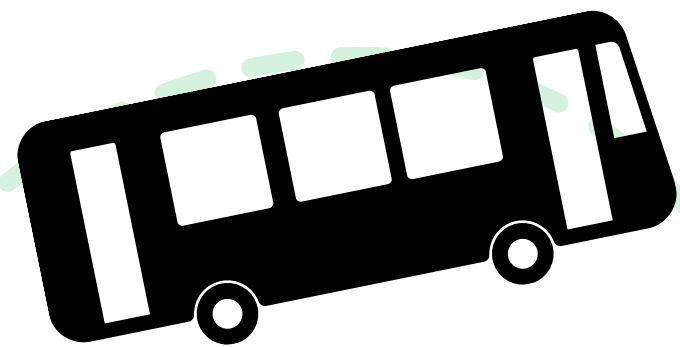
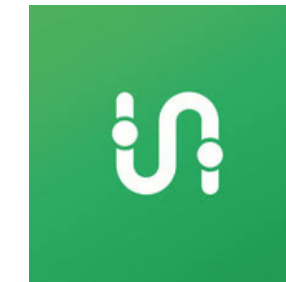
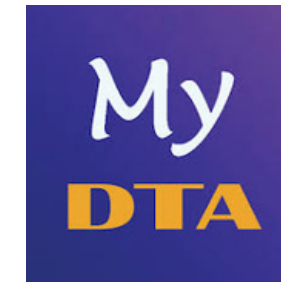


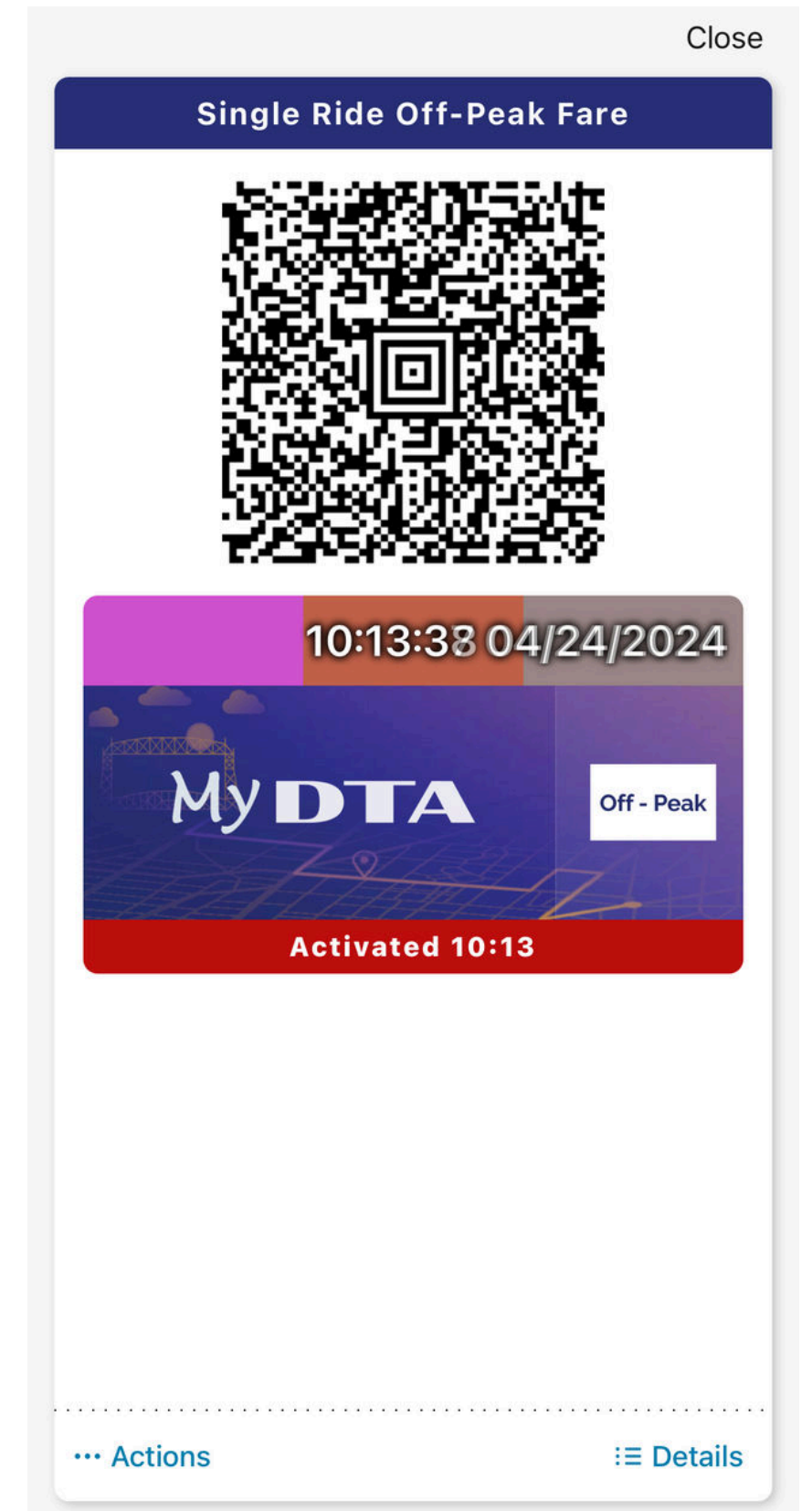
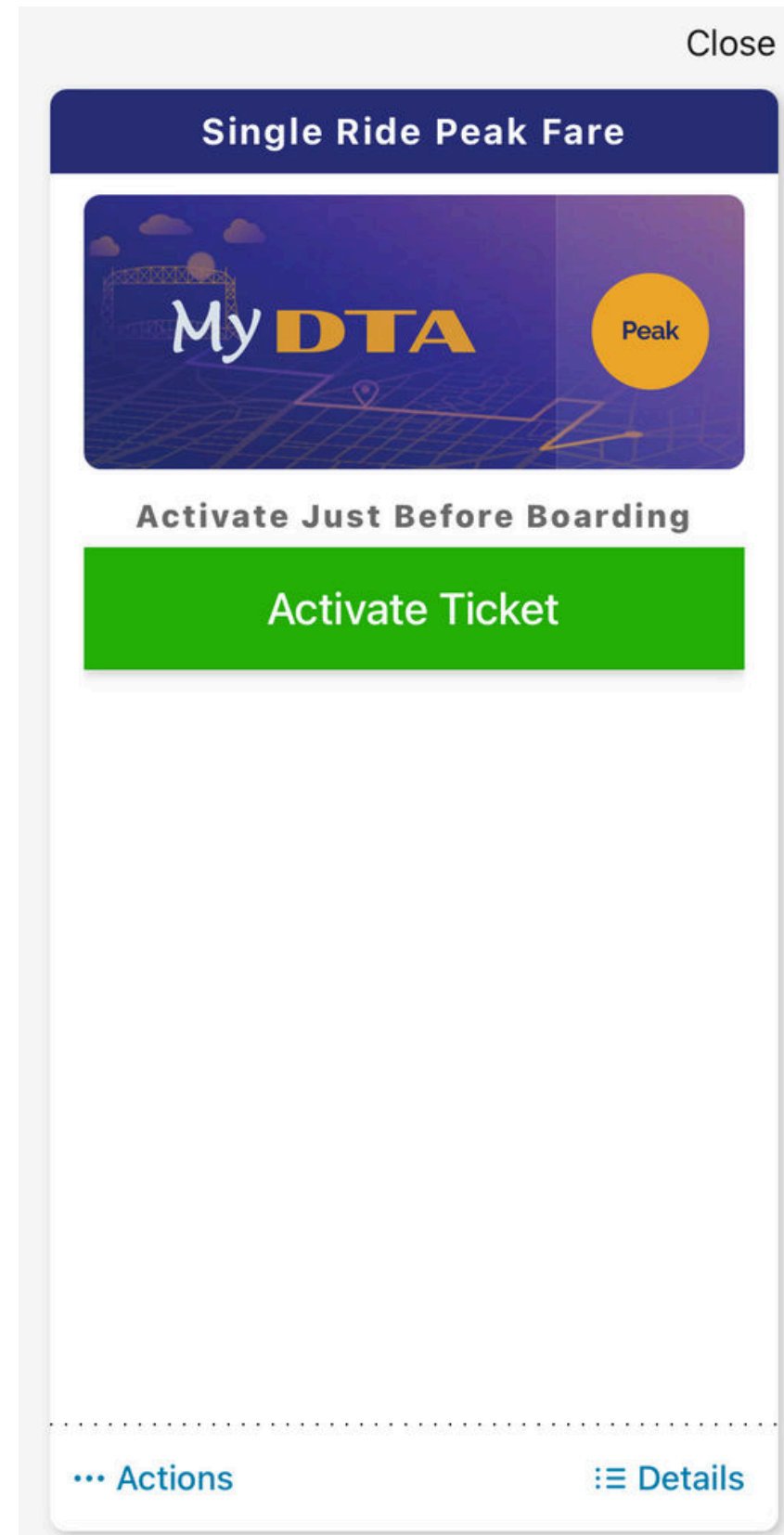
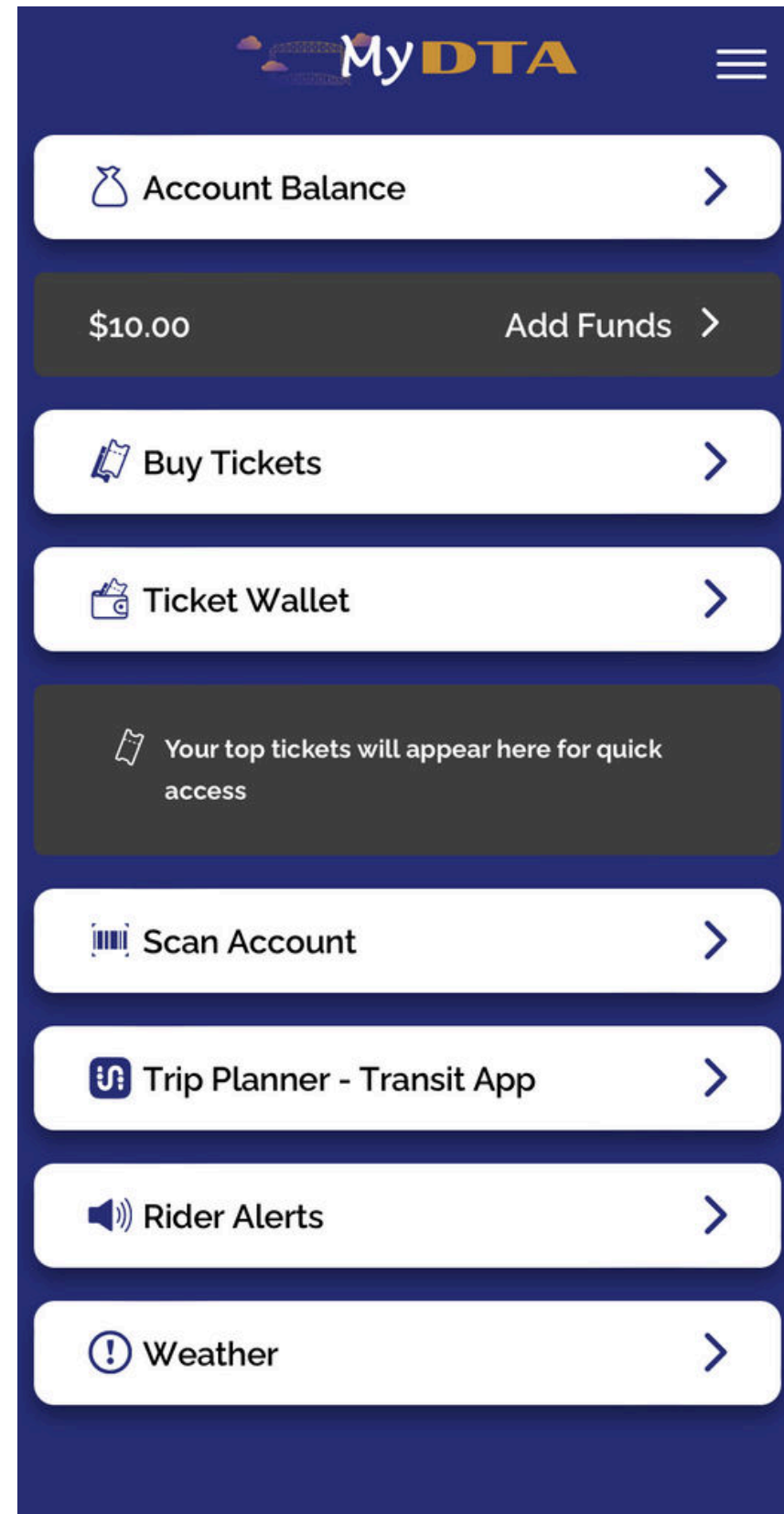
# Planning Multimodal Trips in Duluth-Superior





# My DTA App

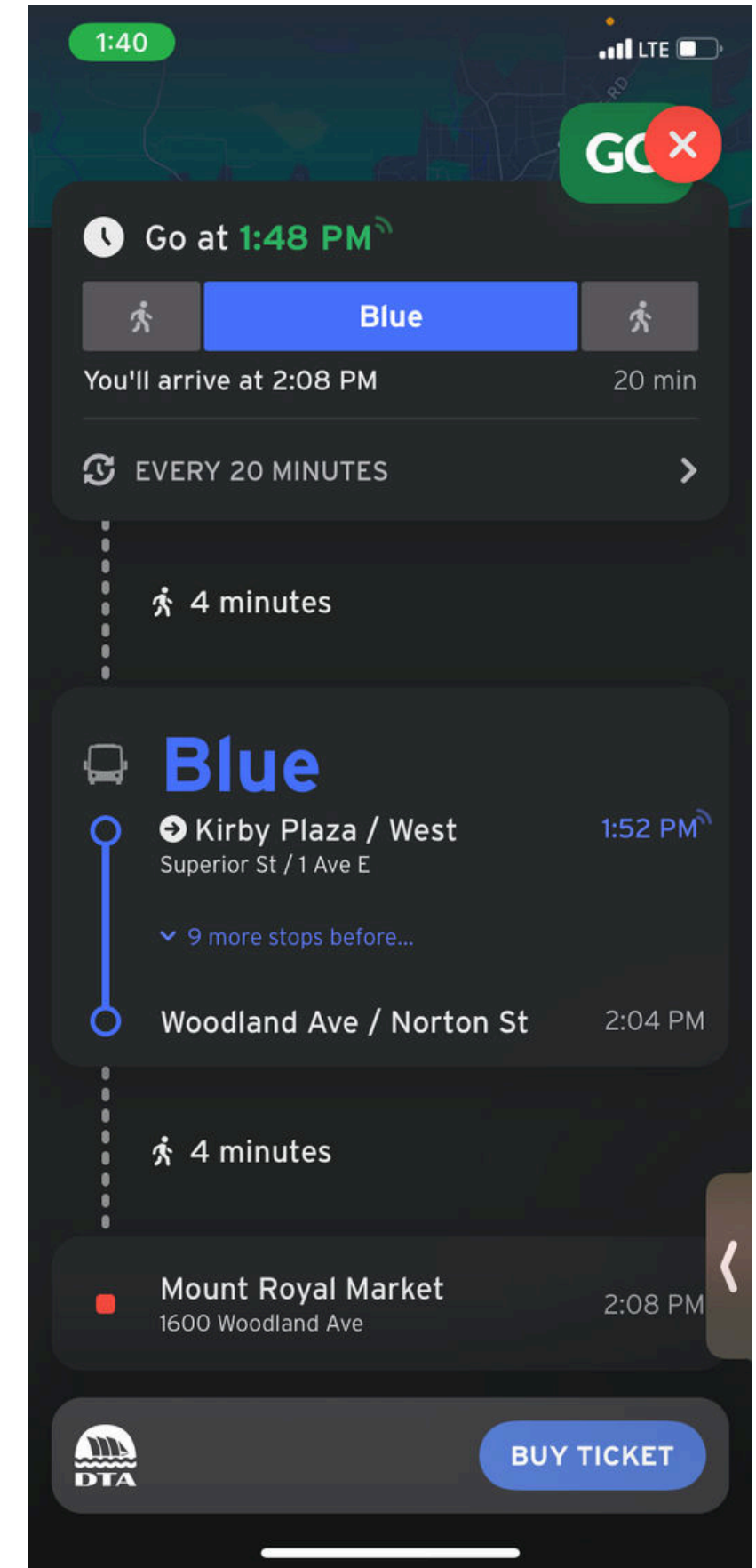
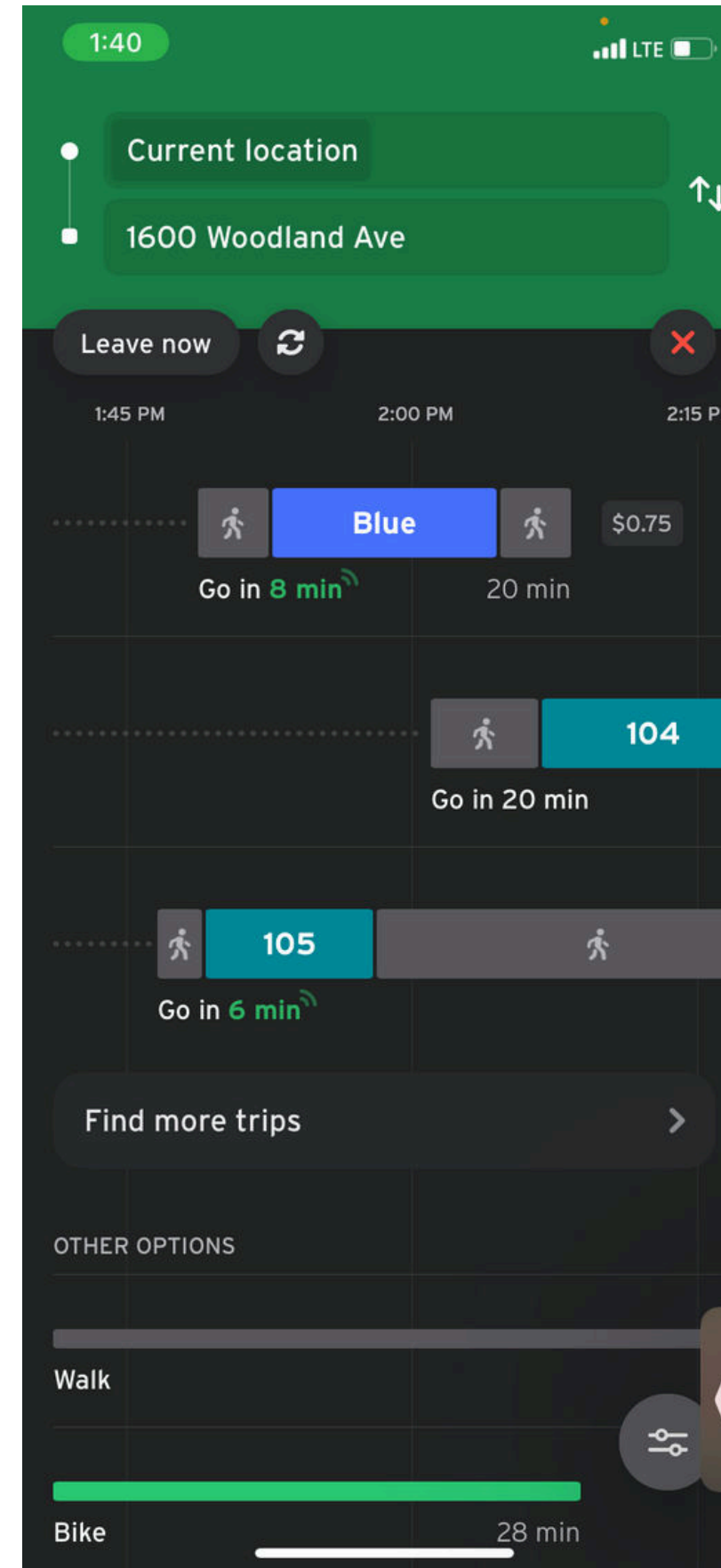
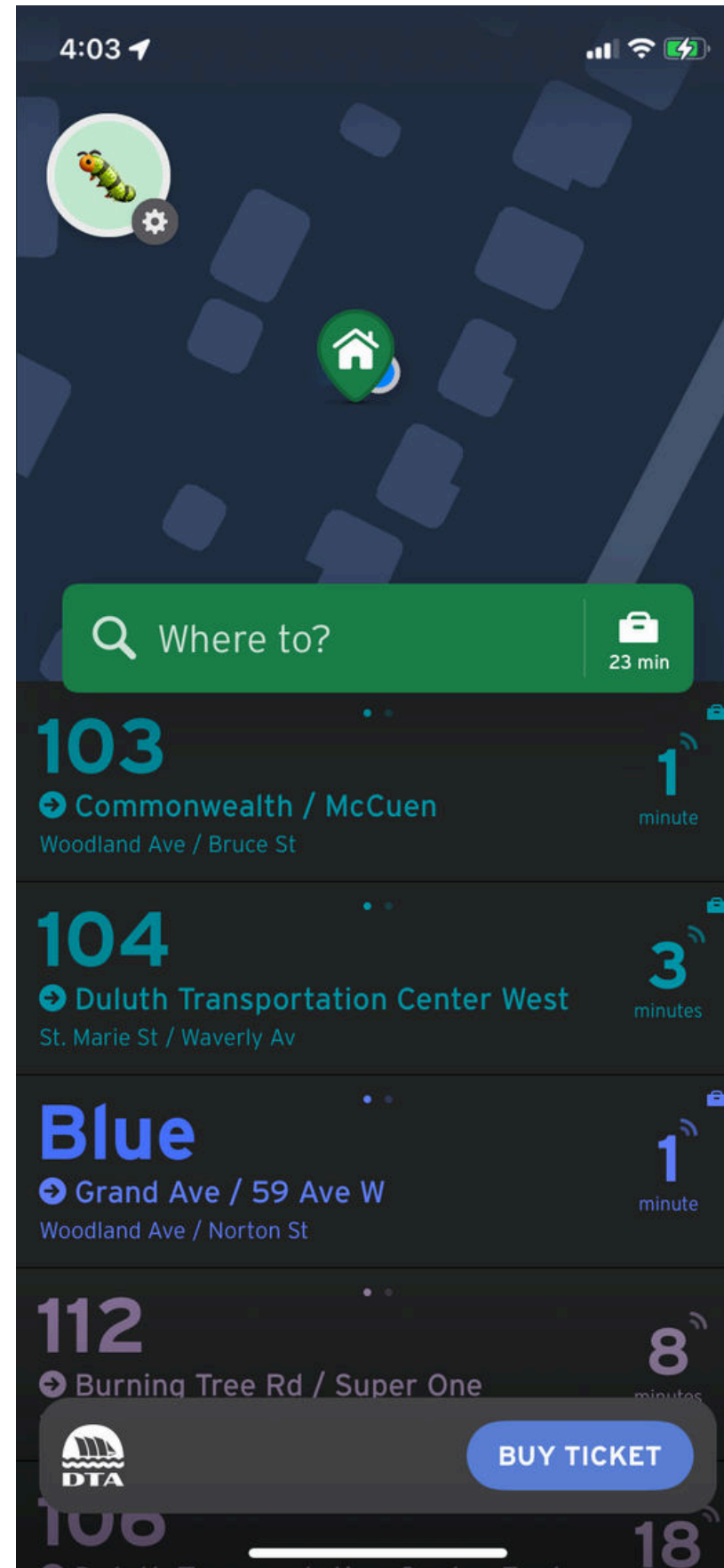
digital bus ticket  
wallet





# Transit App

real-time bus  
updates










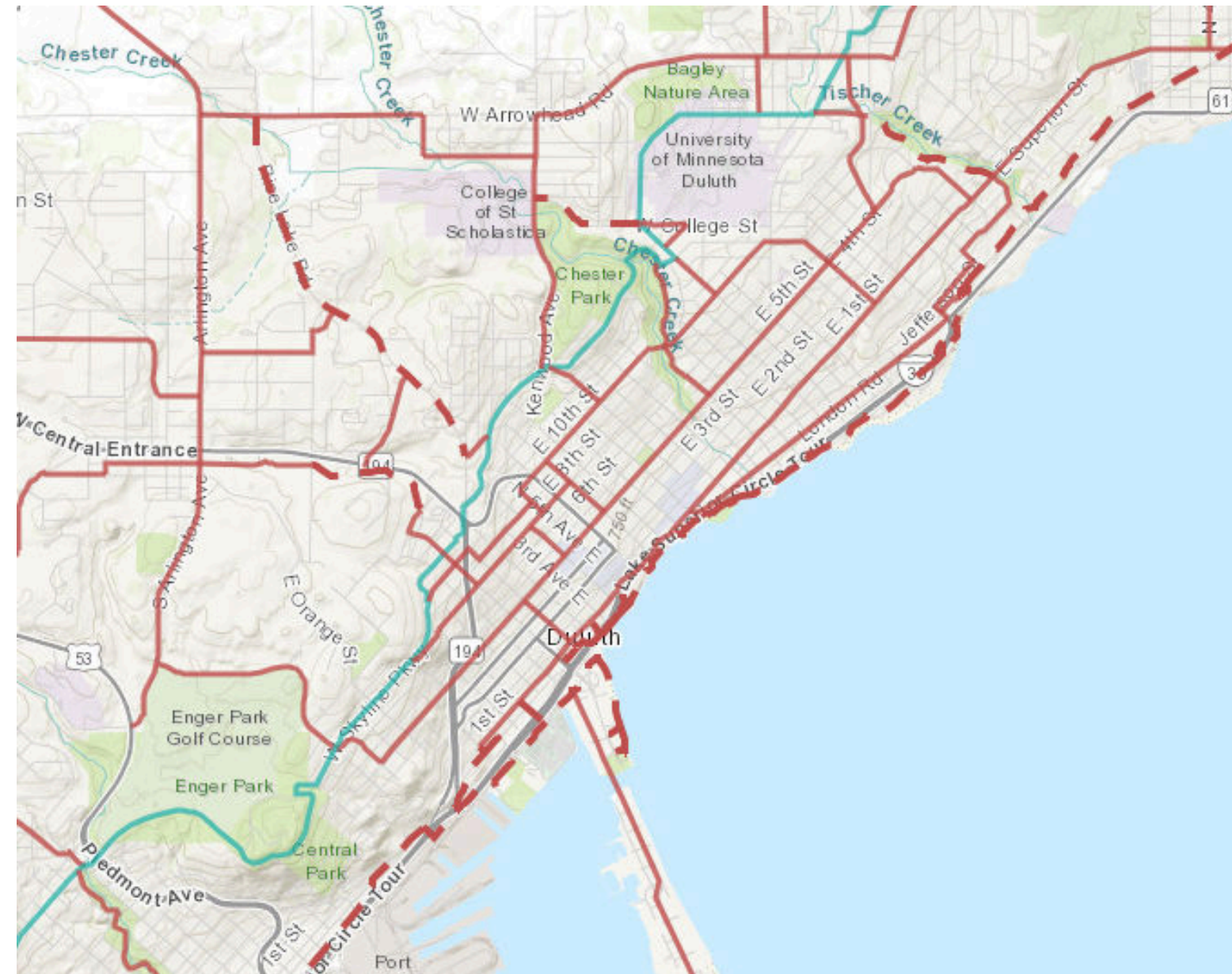
# Duluth Bikeways Map

[i About](#) [Content](#) [Legend](#)

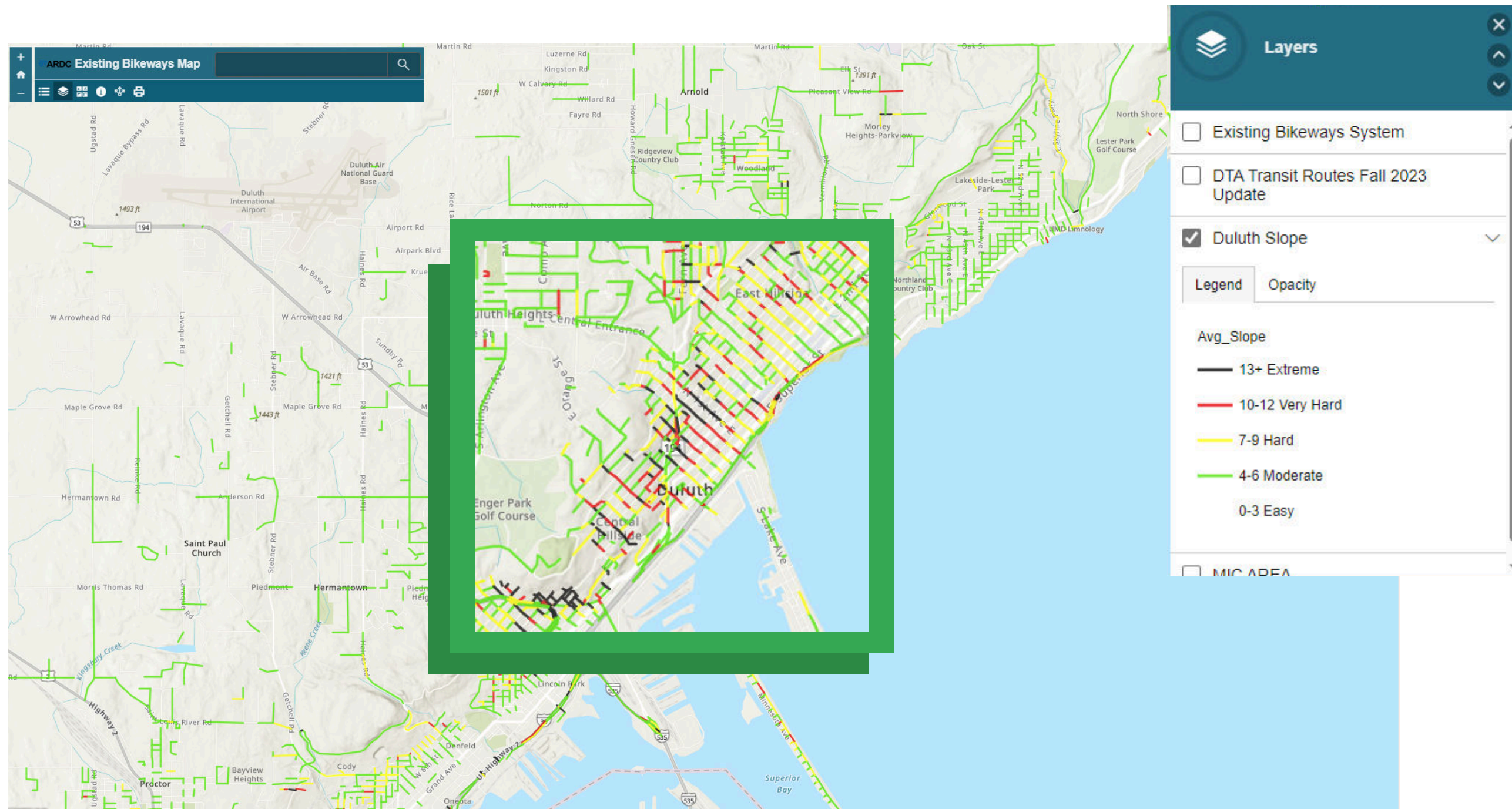
## Legend

### Duluth - Superior Bike Routes

-  Paved Off-Road Multi-Use Path
-  Designated On-Street Bike Route
-  Scenic Skyline Parkway
-  Gravel/Dirt Off-Road Multi-Use Path
-  Other



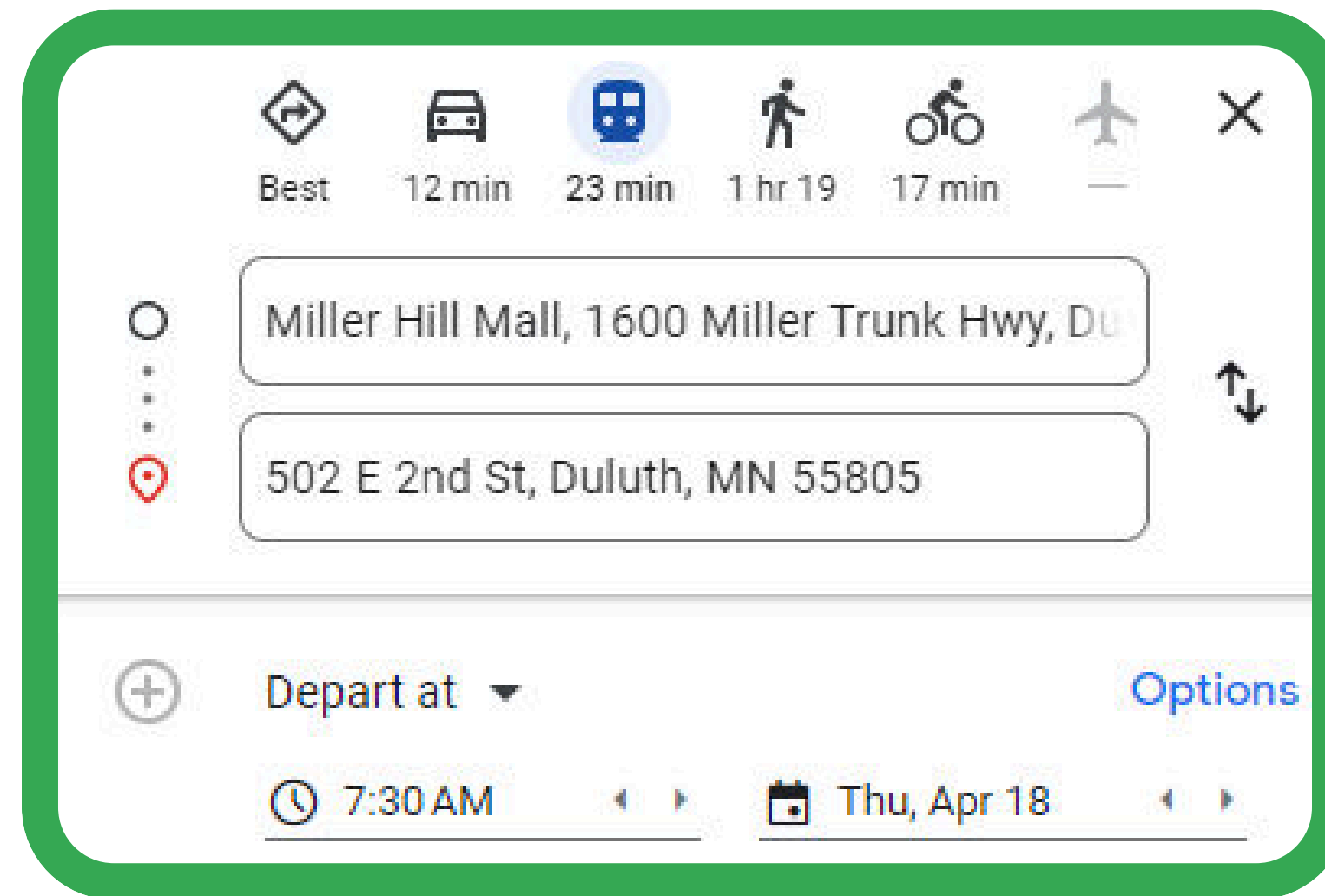
# Twin Ports Bikeways and Slope Analysis







# Google Maps

A screenshot of the Google Maps search interface, enclosed in a green rounded rectangle. At the top, there is a row of icons for different travel modes: a house icon for 'Best', a car icon for '12 min', a train icon for '23 min', a person icon for '1 hr 19', a bicycle icon for '17 min', and an airplane icon for '—'. Below this is a search bar with two input fields. The first field contains the text 'Miller Hill Mall, 1600 Miller Trunk Hwy, Du' and the second field contains '502 E 2nd St, Duluth, MN 55805'. To the left of the search bar is a vertical stack of three dots and a red location pin icon. To the right is a double-headed vertical arrow icon. Below the search bar is a section for departure time and date. It includes a plus sign icon, the text 'Depart at' with a dropdown arrow, and the word 'Options' in blue. At the bottom, there is a clock icon followed by '7:30 AM' and a calendar icon followed by 'Thu, Apr 18', both with left and right navigation arrows.

# Planning Bicycle Trips in the Duluth-Superior Region

# Foundations of a Good Trip

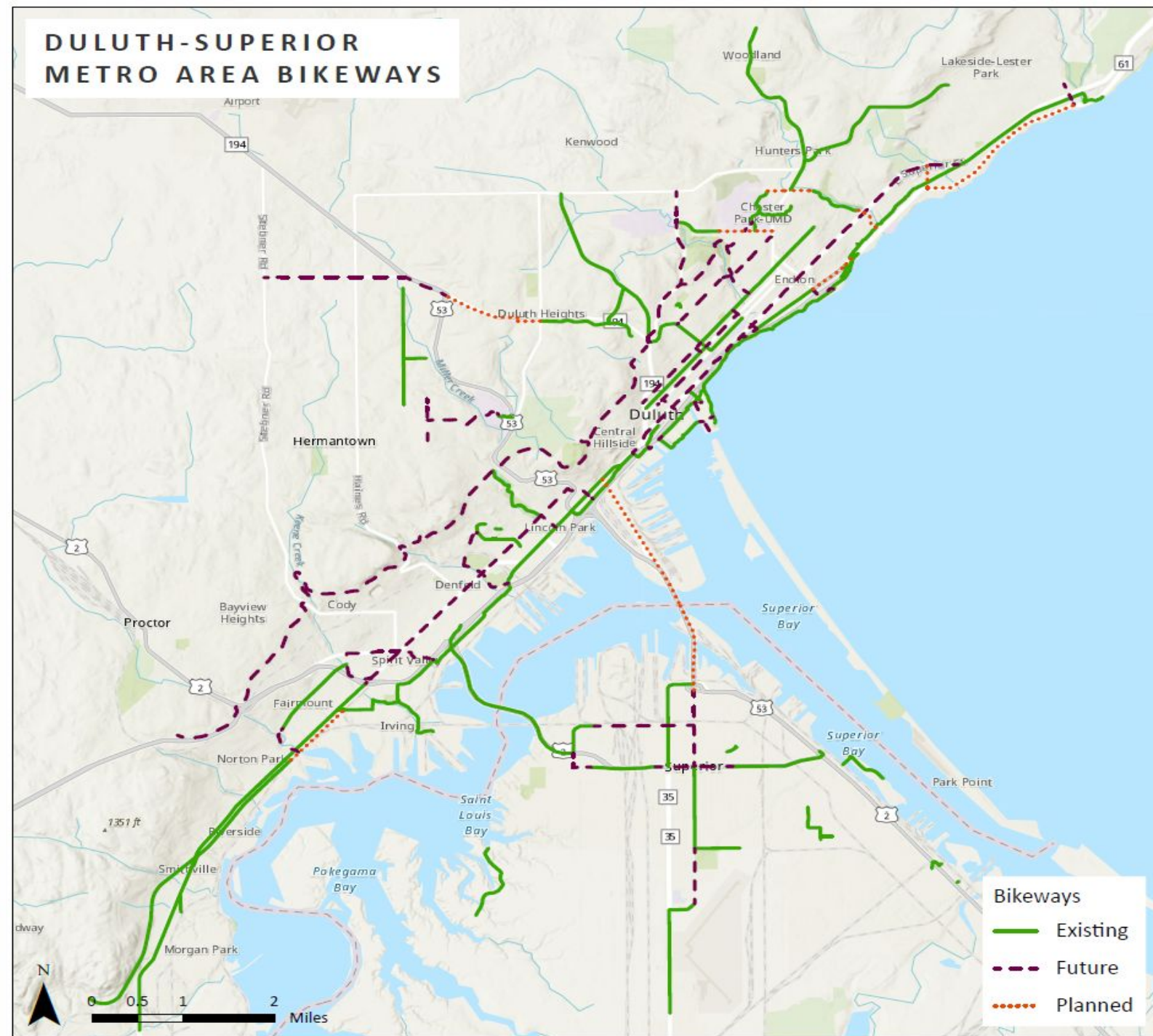
- Bicycles are versatile but require investment for safety
- Infrastructure is most important part of a safe and reliable trip
  - Spaces on and off-road that separate bicycles/micro mobility users from cars and pedestrians
  - Bicycle parking at key areas and destinations
  - Infrastructure is multi-modal, can be used for bicycles, scooters, and other micro-mobility devices
- Good infrastructure is for all
  - It's safe and reliable for all ages and abilities





# Current and Future Network

- Current network allows for travel across city
  - Map shows all types of routes including painted lanes, separate multi-use paths
  - Cross city trail/lake walk ensures separate multiuse path for entire length of city
  - Some routes are mostly year round, many are not
- Some expansion have been planned and funded
  - “Planned” expansions will definitely happen in coming years
- Issues with connections between neighborhoods within the city
  - Future routes are in planning stage/waiting for approval/ funding
  - Will happen in the near term



# Bike Parking

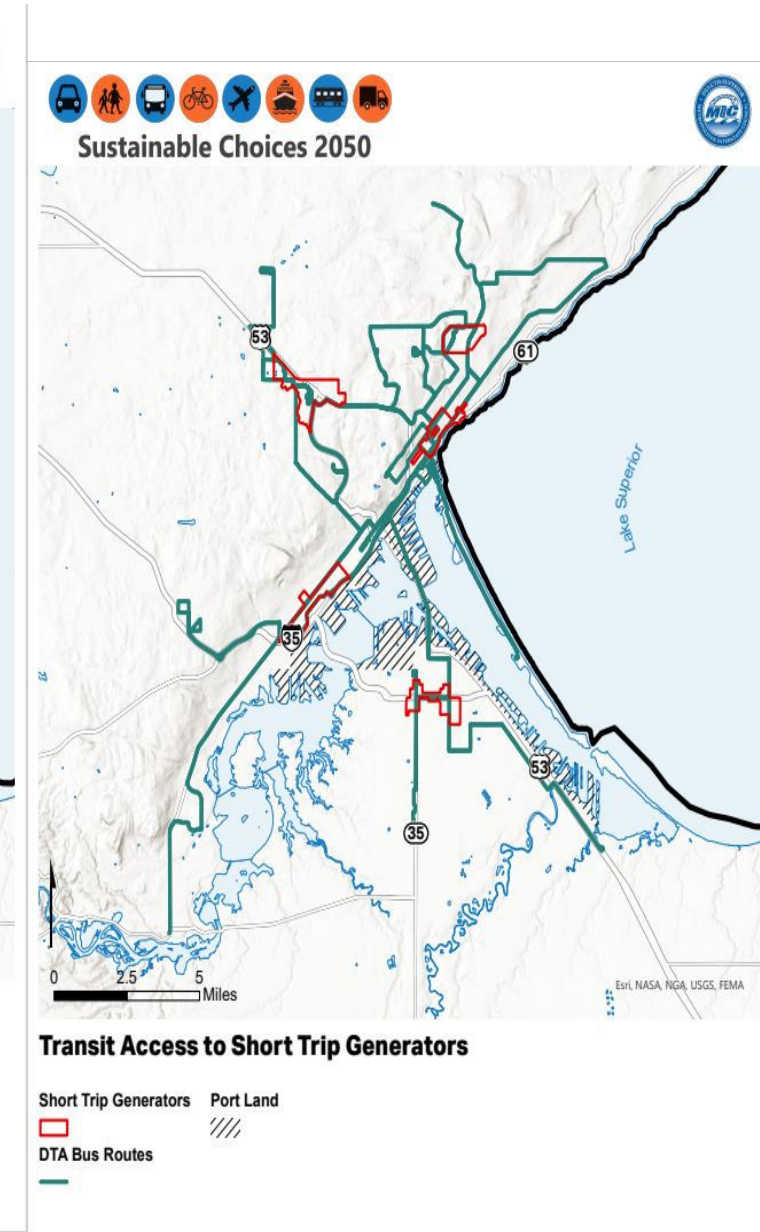
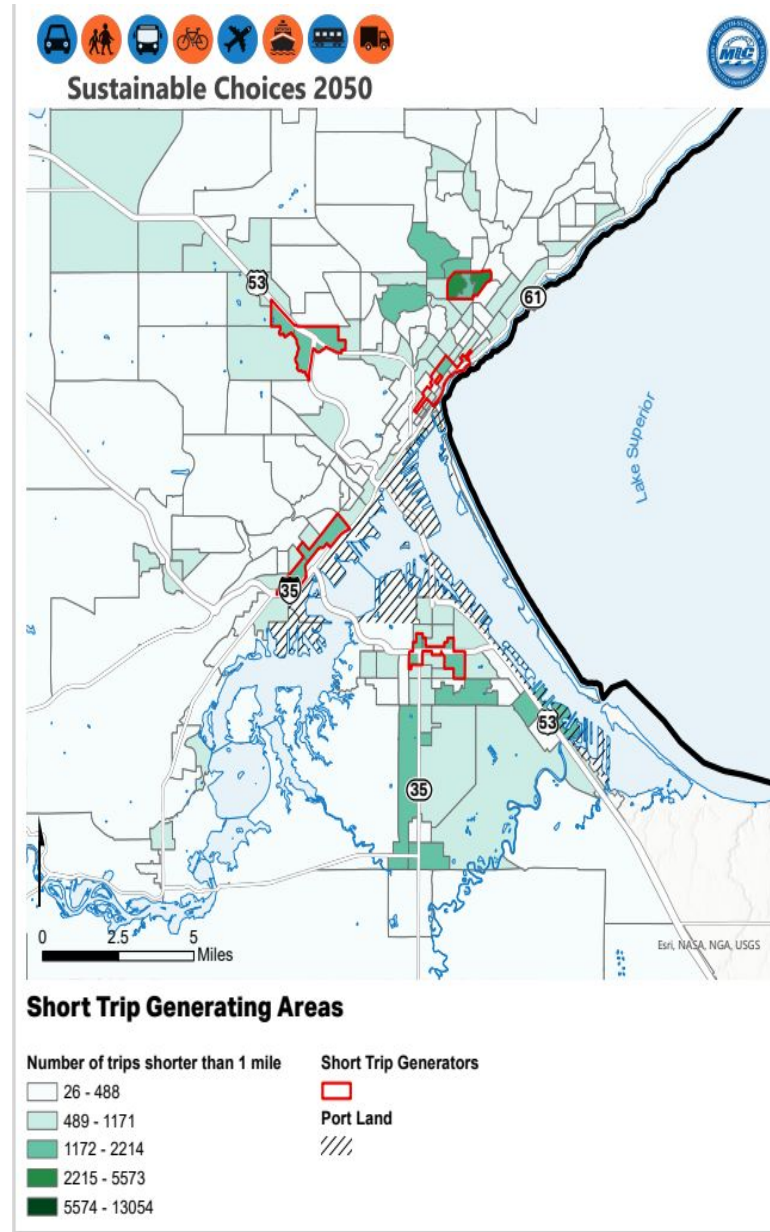
- Bike racks/parking are essential for a trip
- City and private businesses have been installing bike racks through major areas
- Emphasis is on durable and easy to use racks
- City has used large grants/projects to install new and permanent racks
  - In particular upcoming W Superior St project and racks for 4<sup>th</sup> St business
  - This infrastructure is being placed in major business areas, and historically disadvantaged neighborhoods
- City, Zeitgeist, and partnering groups are working on mapping bike racks throughout city





# Long Distances and Last Mile Connection

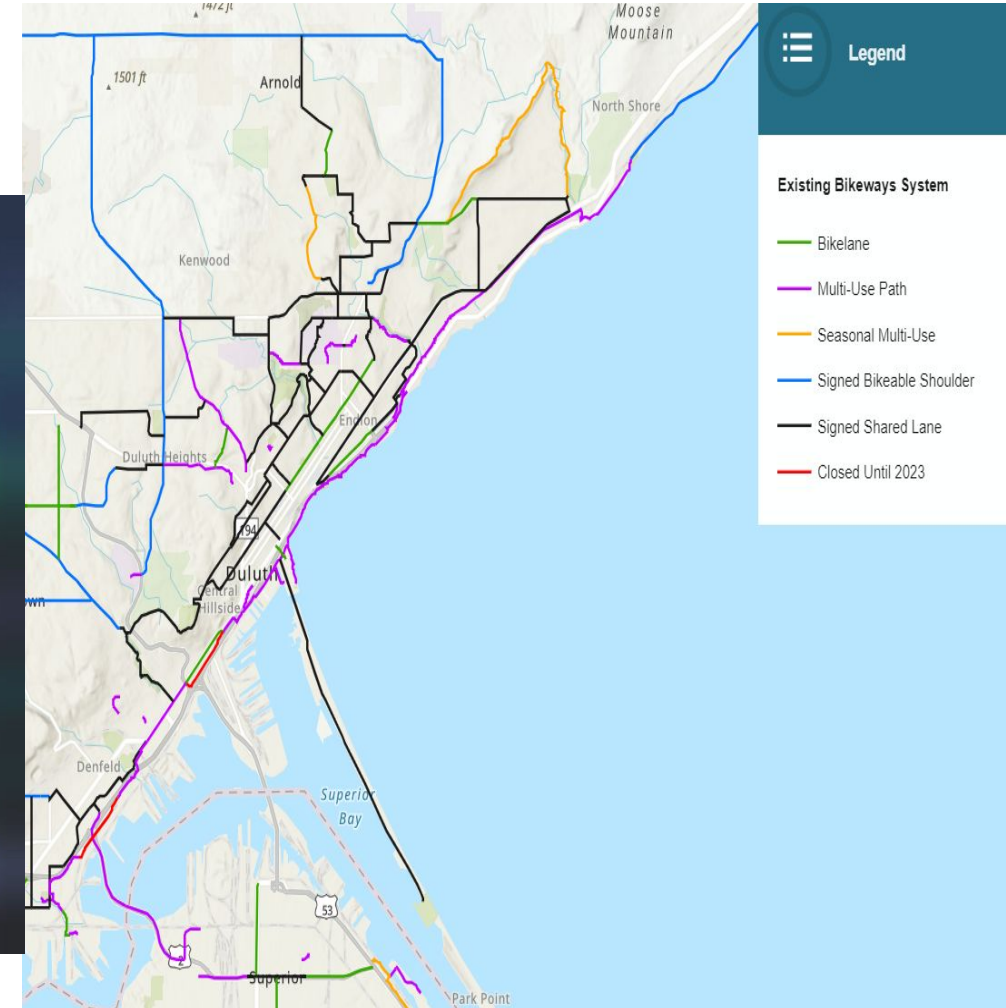
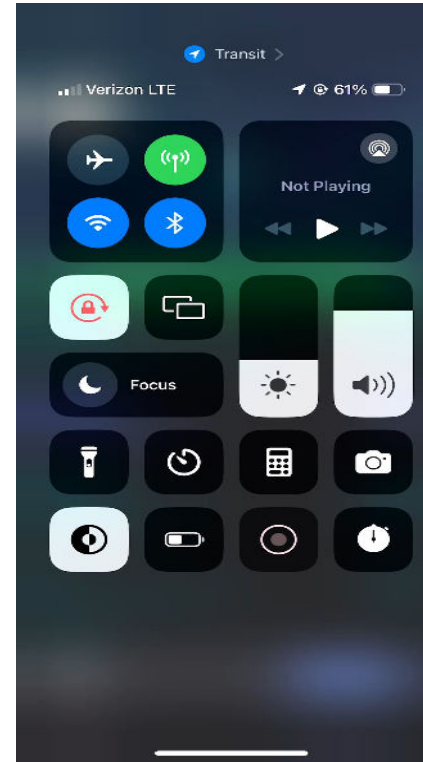
- Bicycle trips are best for 1-3 mile range, takes 15-20 minutes to reach destination
- Boosting connectivity and infrastructure for short distance trips is key
  - MIC (Metropolitan Interstate Council) long range planning is focused on studying areas that can be easily connected
- Work with the bus network – long distance journeys and last mile connections
  - Busses take people farther distances in shorter time
  - Bicycles can reach destinations that bus networks don't cover – last mile
  - Most bicycles can fit on bus bike racks, DTA looking at upgrades to fit E-bikes





# Resources for Trip Planning

- Updated route maps, specifying types of routes, can be found on the MIC website
  - Duluth Superior Metropolitan Interstate Council – 2019 Bikeways plan – Existing Bike Network map
- For specific trip planning use Transit App
  - Transit app chooses routes based on speed and safety, prioritizing protected lanes/paths
  - Can incorporate multiple modes of transport (including busses) in trip planning
  - Google maps and Apple maps have not yet been updated




# Future Planning and Input


- Current and future expansions are based off of planning done by the MIC in the 5 year bikeway plan
  - Plan shows potential new routes
  - It also proposes new policies for bicycles including parking, and maintenance of routes
  - This year plan is undergoing 5 year update
- If there are routes you would like to see or changes to bicycle policy let us know
  - Public survey sponsored by Zeitgeist
  - We want to know what would make you feel more comfortable to bicycle

**HOW COULD BICYCLING SUPPORT YOU?  
AND WHAT'S IN THE WAY?**


**LET US KNOW**  
what changes are needed to create an inclusive bike culture in the Twin Ports region



Information gathered will be used to assess local cycling needs and develop ways to improve the safety and viability of biking for all uses and users, regardless of race, age, gender, ability, or background.

 **CONTINENTAL**  
SKI + BIKE

 **zeitgeist**  
COMMUNITY

 **Walk**  
Duluth