



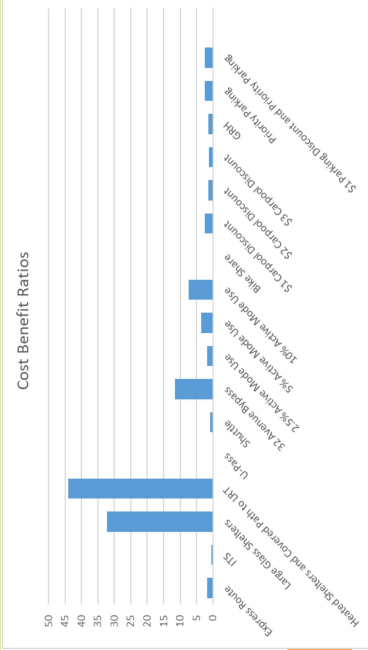
Designing Integrated Public Mobility in and around University of Calgary

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Established in 1966, the University of Calgary serves over 33,000 students and 5,000 staff [2]. The main campus is in the northwestern quadrant of the city and covers an area of over 200 hectares. With new developments on campus and in surrounding communities, ever changing demographics, technologies, and socio-economic factors affecting the way people travel to and around the university of Calgary, it is important to anticipate the needed infrastructure improvements to better serve the whole community.

The purpose of this project is to create a public mobility plan for the University of Calgary area that will integrate multiple transportation modes and emerging technologies to shift from car dependent travel options towards more sustainable, efficient alternatives to get to and around the study area. A cost-benefit analysis was conducted to guide the decision-making process for the final design. The proposed integrated public mobility plan will provide; shorter travel times, increased user comfort, improved accessibility for all users, reduced environmental impacts, and will be able to accommodate current and future demand.



Express Routes

- Along corridors where the difference between car and transit travel time was significant

User Comfort

- Heated bus shelters to minimize reduced ridership due to adverse climate.

Offering U-Pass to Non-Students

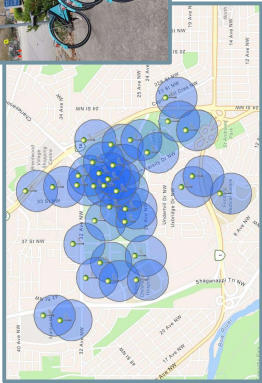
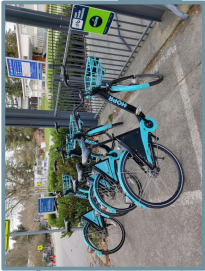
- Extend the compulsory U-Pass to U of C faculty members and staff.

Intelligent Transportation Systems (ITS)

- Bus priority at [location] to reduce bus wait times and improve transit reliability.

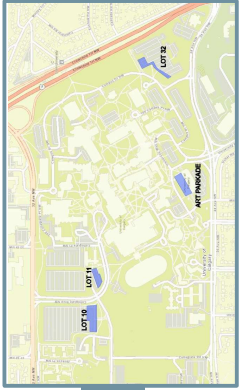
Bike Share

- Provide an increased "catchment area" for key transit stops and enable multimodal trips.
- Designate parking areas across the main campus and surrounding area located at entrances to popular destinations and transit stops/stations.
- Provide students with access to shared bicycles as part of the U-Pass program.



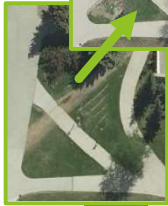
Carpool Program

- Incentivize carpooling (2+ passengers per vehicle) trips with a \$1 Parking discount for registered carpool trips, which can be partially subsidized by increasing the regular parking cost by \$0.50.
- Provide a total of 367 designated carpool only parking stalls in Lots 10, 11, 32 and the Art Parkade.
- App to register carpools, apply discount, and aid in enforcement



Paving Desired Paths

- Implementation in high-volume pathways across campus including near the Olympic Oval, ICT building, and Science Theatres.



24 Avenue NW Improvements

- Converting the curb lanes to "wheeling lanes"
- Initially quick-build bike lanes, which could be later converted to protected separated lanes.



Widening of High-Volume Pathways

- Addition of new concrete panels on either side of the existing pathway leading to the University LRT Station.



Intersection Improvements

- Addition of elephant feet crosswalk markings and bike push button at 24 Ave NW at University Gate and 32 Ave NW and 37 St NW

References
[1] City of Calgary, Calgary Imagery, 2023, [Online]. Available: <https://maps.calgary.ca/CalgaryImagery/>.
[2] "Facts and Figures – UCalgary by the numbers", University of Calgary, <https://ucalgary.ca/about/our-organization/facts-and-figures/> (accessed Mar. 22, 2023).