

## Background

- Global warming is a huge problem. Transportation accounts for more than 30% of greenhouse gas emissions.
- US is a car dependent country. In order to address this problem, college campuses work hard to move toward sustainability.
- Thus, improvement of sustainable transportation is important to understand.

## Research Questions

How can colleges in America improve sustainable transportation?

## Internship and Methods

- Interned at Common Caws for Sustainability Podcast-This organization’s mission is to spread awareness of sustainability.
- My partner and I worked together to produce podcasts to spread ideas to campuses particular UW.
- The podcast was consisted of the following topic of sustainable transportation (Fig 1): biking, buses and light rails, and clean air vehicles.
- Literature reviews and surveys (UW transportation) related to sustainable transportation on campuses were researched in order to find improvements for sustainable transportation in colleges.



Fig 1 Biking and buses are two of the most important sustainable transportation on college campuses

## Results

- Time of days available and availability of seats need to be improved. (Fig 2)
- However, roadway improvements like greenway routes (recreational and environmental protection use) still needed in order to provide better commute experiences. (Fig 3)
- Secure bike parking locations should be expanded. (Fig 3)
- More bike pavement signs are needed. (Fig3)

	Frequency of service	Numbers of services transfers required	Travel time	Cost	Reliability (on time)	Perception of safety	Seats availability	Time of day available
Exceeds needs and expectations	7%	9%	2%	29%	8%	14%	9%	9%
Meets needs and expectations	60%	55%	44%	60%	59%	69%	64%	56%
Does not meet needs and expectations	33%	36%	53%	11%	33%	17%	27%	35%

Fig 2 Transit Satisfaction Rating UW Seattle. Satisfaction of transit system is high, but there are still rooms for improvements.

## Implications

- Communication and planning will continue to make sustainable transportation become more accessible to more people in terms of factors such as prices and expansion of transits around campuses.
- Campaigning about the importance of sustainable transportation at campus communities is quite helpful.
- Helpful programs maximize efficiencies should continue to be implemented in order to have great commute experiences to campuses.
- With these ideas in mind, sustainable transportation on college campuses effectiveness will be hugely improved.

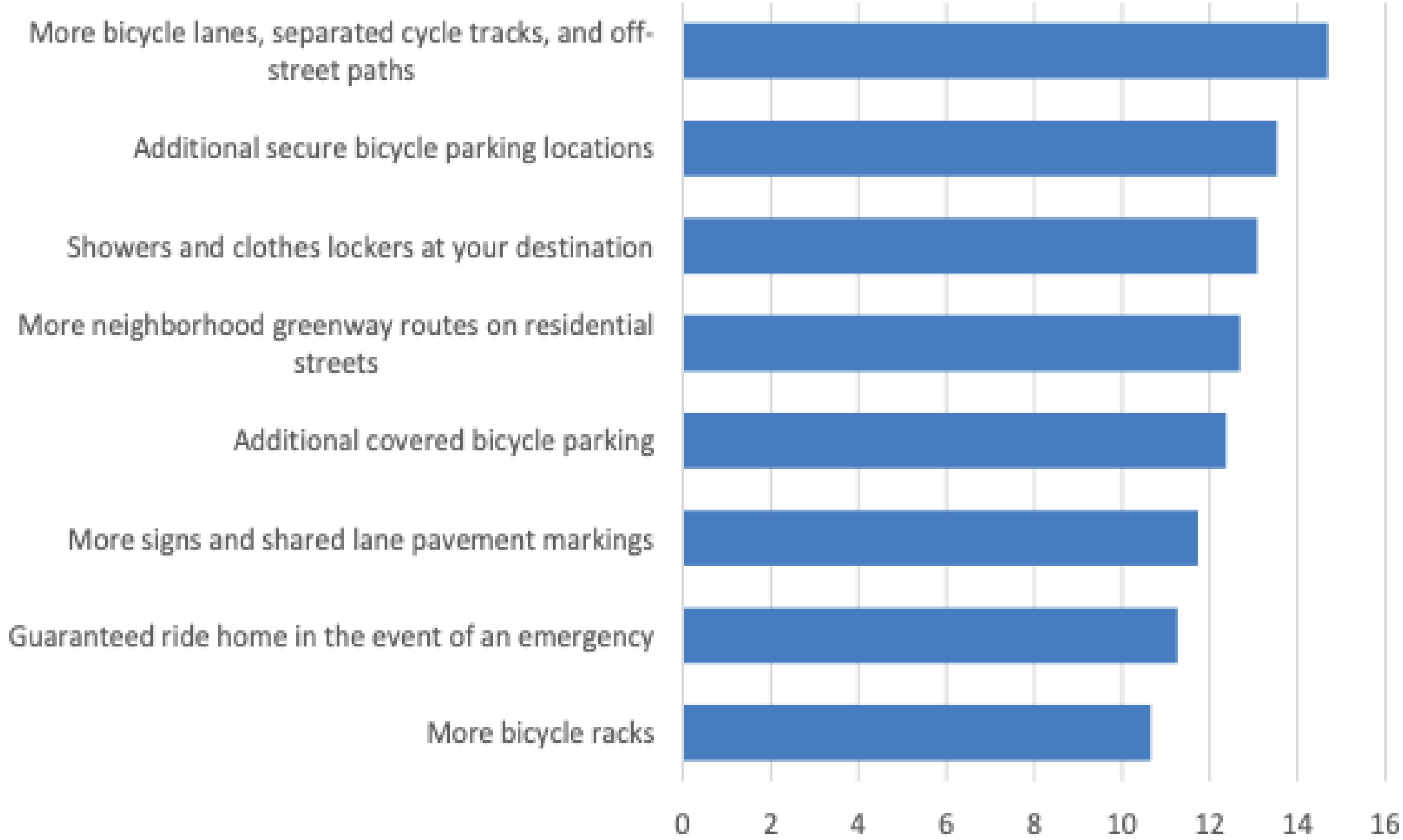


Fig 3 What Impact More People to Bike, UW Seattle

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