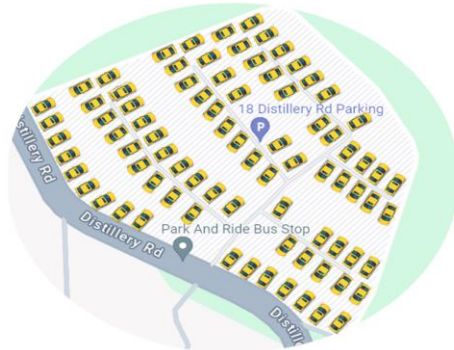


Introduction

Galway is a city notorious for its traffic problems. Students are often late or miss classes because of traffic. Our proposal is for a bus link service that connects students to campus and transport hubs in Galway. This aims to reduce congestion on roads in and around Galway city to aid with its traffic problem. We plan on repurposing a carpark located in the heart of the University of Galway campus to act as a depot for various bus routes. These busses will connect students with the two largest student complexes in the city. There will also be a route connecting the university campus with Galway's train and coach station.



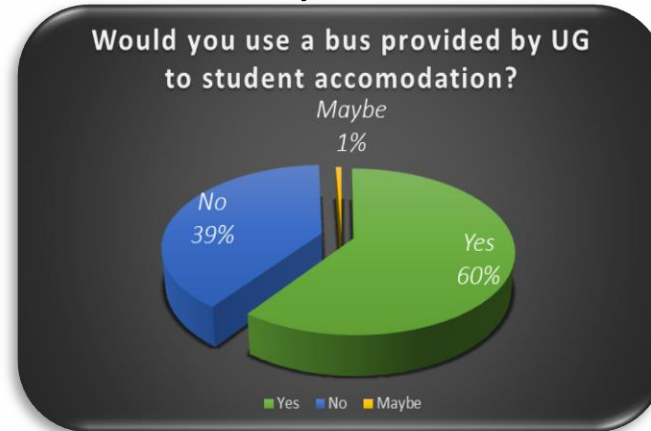
- Here is a photo of the car Park currently.
- The Car park has approximately 96 vehicles parked when full.
- Cars looking for parking here causes congestion.

Technology



The Bus service will be carried out by an EV Higer bus, which is already in use on campus, the Higer bus has a range of 375km and only takes 2 hours to charge. The use of the EV bus will reduce emissions and increase the air quality in Galway City. Noise congestion will be reduced, providing a more comfortable journey for the passengers. The EV bus will have lower running costs and maintenance costs than a regular diesel bus.

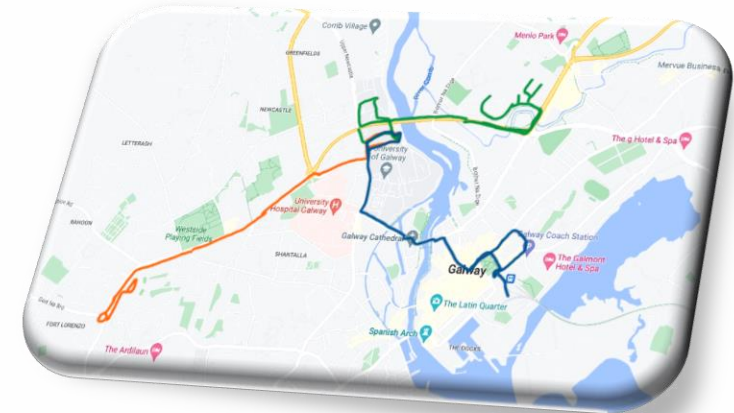
Survey



Solution

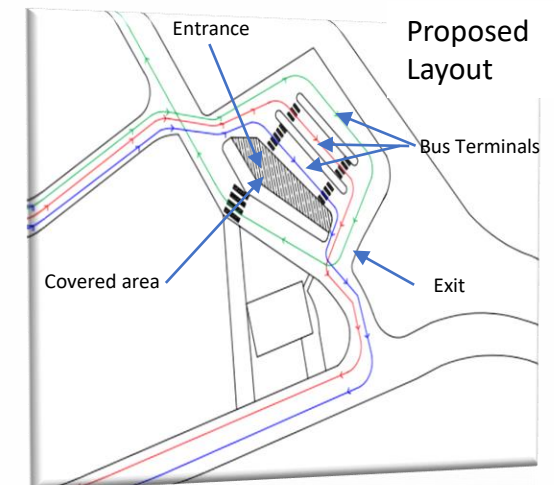
The carpark will be repurposed as a bus stop for the three proposed routes. Each route will have its own designated bay to ease any confusion. A large, covered area will be constructed to keep users sheltered from any adverse weather conditions. In this covered area there will be an area reserved for food/beverage trailers to trade during the day. Power and water services will be installed to allow businesses to remain open throughout the day. There will be bins located around compound to reduce any litter.

Routes



This is a map of Galway City with proposed bus routes to/from student accommodations, the train/bus station and other communities around the college campus area. The proposed routes are broken into 3 colours, which is a large catchment area for students from the University of Galway.

- **Orange:** The bus route heads towards westside and Dunaras student accommodation.
- **Blue:** The bus route heads towards Eyre Square and the Ceannt Train Station.
- **Green:** The bus route heads towards Hubble, Gort na Coiribe student accommodations and Dun na Coiribe housing estate.



NTA Transport project – Poster Summary

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For our data source we surveyed the students at University of Galway on Microsoft Forms as we felt as though the students would be using our Bus service the most. There are approximately 96 parking spaces in the 18 Distillery Road Carpark, we believe by re-purposing this car park to a bus drops off/collection area for all, we will reduce the carbon footprint of the college and address the colleges ongoing transportation issues. Thorough analysis of local traffic patterns, population density highlight why the Bus stop is beneficial for student/staff/community and reduces the impacts of global warming. Key Performance Indicators like community feedback, reduced traffic congestion and ridership will tell us how successful our proposal is. In summary, our Bus stop is a sufficient and cost-efficient approach to support sustainable commuting to campus.