

Navora

Offer beverages, cap recycling, and artist reminders, creating a comfortable and sustainable User waiting space.



Project Type

Industrial Project

Tools



Date

February 2020 – May 2020

Background Research



Interviewees



Taxi Driver

Over 15 years in the field.

Pain Points

- Communication difficulties with international passengers

"We often encounter language barriers with foreign travelers, so I usually use Google Translate on my phone for real-time translation. Sometimes, I just look at the address of their accommodation on their phone. Most of them are heading to Ximending, since there are more budget hotels in that area."

Interview Agency

Taxi Stand at Taipei MRT Beimen Station

Located near Taipei Main Station and Airport MRT A1, the Beimen taxi stand serves as a key transfer point for commuters and travelers. With a steady flow of local and international passengers, the site often faces issues such as language barriers and unclear taxi information—making it ideal for smart mobility solutions.

- When there are more passengers, I just follow the instructions given by the staff at the taxi stand.

"The busiest time for passengers is usually early in the morning, around 8 a.m. That's when office workers are heading to work, and travelers are also arriving. When it gets crowded, I follow the instructions given by the staff at the taxi stand. Most people are pretty orderly—probably because they're all adults."

Design Concept

How to solve the driver's problem and make customers' waiting more valuable?

Smart Multilingual Mobility Service

This design integrates a multilingual self-service taxi kiosk with AI navigation to help foreign travelers in Taiwan ride taxis more easily and confidently. It supports route previews, real-time translation, and links to flight and hotel info for smart recommendations. The in-car touchscreen offers address confirmation and tourist guides, bridging communication between drivers and travelers for a more seamless and culturally rich experience.

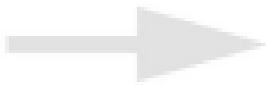


Immersive Self-Service Waiting Lounge

This design creates a smart waiting zone near MRT stations and taxi lanes, combining a self-service drink bar, interactive art, and eco-friendly recycling. Travelers can enjoy tea, coffee, or juice while engaging with light-based or AI art installations. The space promotes sustainability with reusable cups and recycling units, and offers branding opportunities through local collaborations. It transforms waiting into a relaxing, engaging, and culturally immersive experience.

Sketch

Concept Sketches



The initial solution left several user pain points unresolved and lacked full alignment with actual needs.



Explore user needs through spatial planning strategies.

Sketch

Ten Sketches

Extend the idea from the selected concept sketch



Three Extended Sketches



Layered materials create visual depth and define semi-open and open seating zones.



Inspired by flowing water and mist, semi-transparent partitions define open and semi-open seating zones.



Inspired by mountains, the space lets travelers relax on green seating while waiting.

Rough Model



3D Modeling





Self-Service Drink Machine

Vehicle Reminders

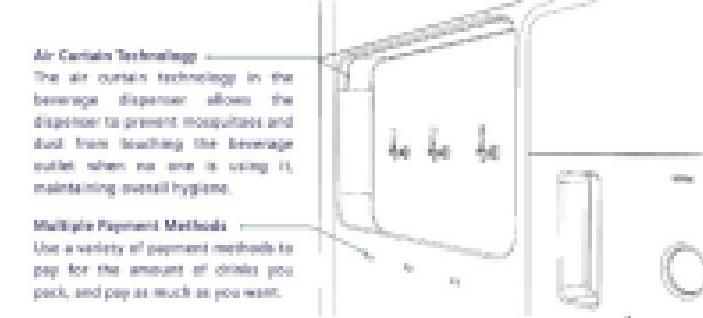
Above the dispenser is an Uber arrival time reminder, allowing passengers to check the arrival time of the vehicle at any time.

Air Curtain Technology

The air curtain technology in the beverage dispenser allows the dispenser to prevent mosquitoes and dust from reaching the beverage outlet when no one is using it, maintaining overall hygiene.

Multiple Payment Methods

Use a variety of payment methods to pay for the amount of drinks you pack, and pay as much as you want.



Circulating Caps Removed

The design of the beverage machine combined with the recycling cap recycling can reduce the use of disposable straws and achieve sustainable circulation.

Self-service Liquor

The way to serve the drink is like a self-service liquor, and you can mix and choose freely.

Speaker

Vibrate Reminder

Light



Vehicle Reminder Pillar

Raminder pillars allow passengers to keep aware by based the bus according to the color of the lights, cameras on the pillars monitor the time the vehicle stops and tell the driver where to stop, and a screen on the parking pillar allows passengers to know information about driving, vehicle and arrival time.

Ripple

Ripple features flowing curves that allow passengers to choose their ideal waiting posture. Ambient lighting and built-in speakers create a calm, pleasant space with music and reminder reminders. A vibration alert gently notifies passengers when their Uber or taxi arrives. The seat also includes convenient spots for placing drinks and phones, ensuring a fully relaxed and connected waiting experience.