



The **Volt** scooter is an **e-scooter** designed for **food delivery workers** in urban areas.



PROJECT DRIVERS

A growth of 25% is predicted for the e-scooter market by 2025 [Mobilityforesights, 2020].

There is a 10% turnover rate for restaurants with delivery services. [BeamBox,2019]

There has been a 39% percent of food delivery within the past 3 years. [beamBox.com,2019].

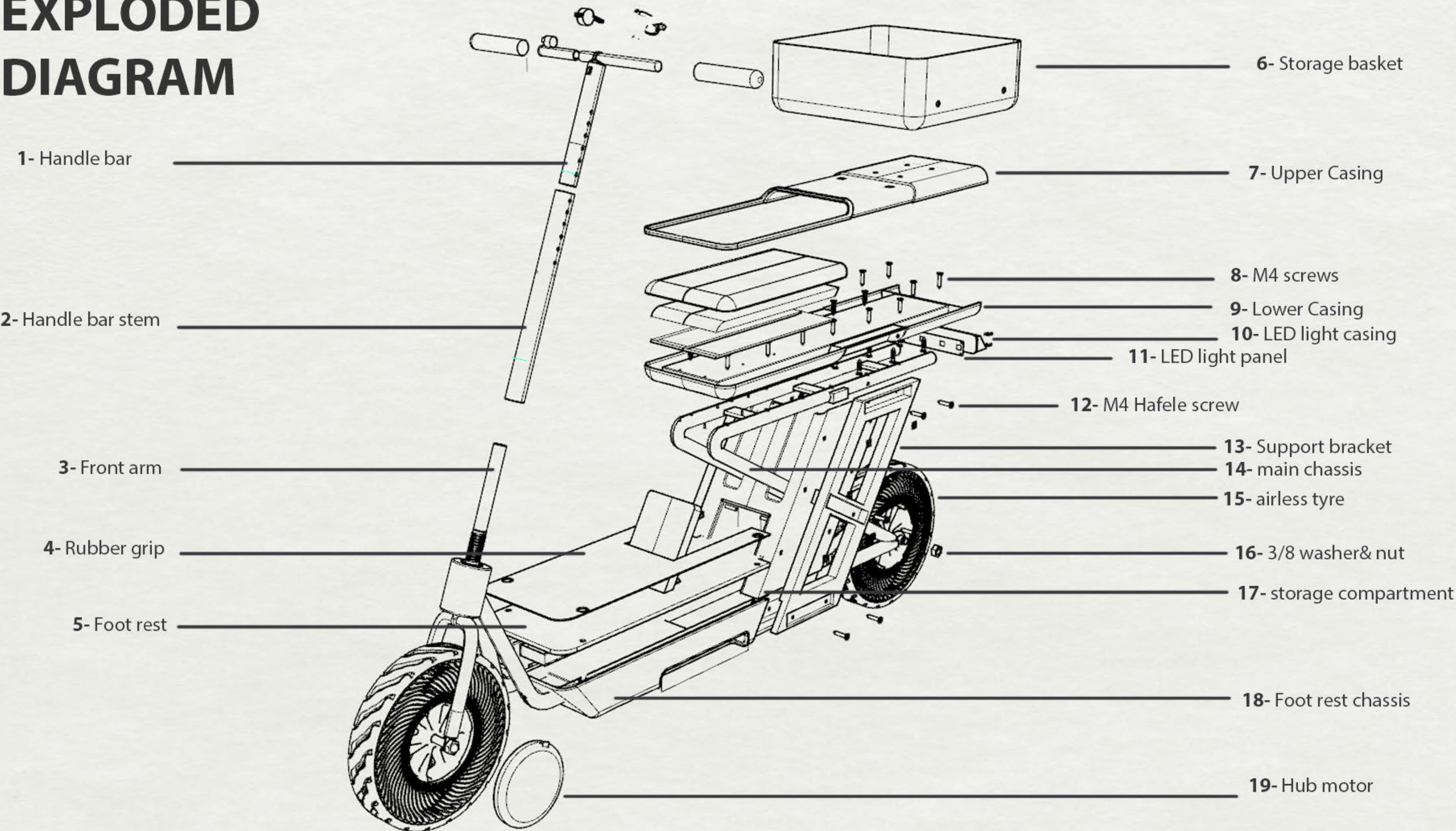
THE ISSUE

As the **demand** for food delivery has **increased** over the years in cities, it has become increasingly difficult for delivery workers to carry out their deliveries due to **traffic, parking bays, and parking prices**. As the government are pushing towards an **electric future** they are starting to phase out the use of a traditional combustion engine.

THE SOLUTION

To create an **e-scooter** for **delivery workers** that allows them to avoid the pitfalls of a vehicle such as parking prices, petrol costs, and traffic.

EXPLODED DIAGRAM



USAGE SCENARIO



The user arrives at their place of work and unlocks the scooter .



The bag is placed on to the back of the e-scooter



The user uses the VOLT app to enter the delivery address.



The user rides to the destination



The user arrives at the destination and hands the food to the customer.

Benefits of a VOLT e-scooter over conventional scooters:

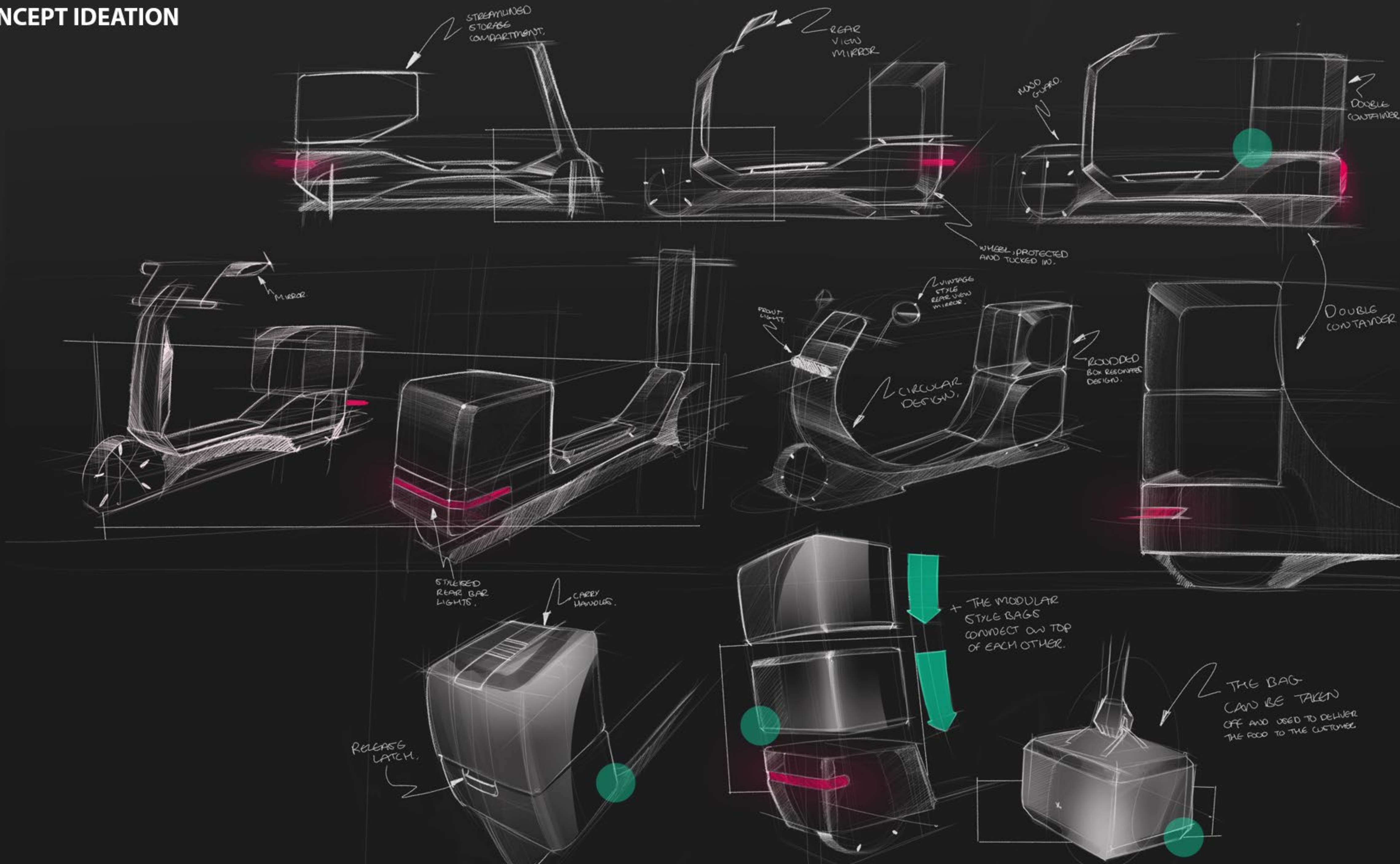
-The VOLT e-scooter has a dedicated seat to sit on while riding.

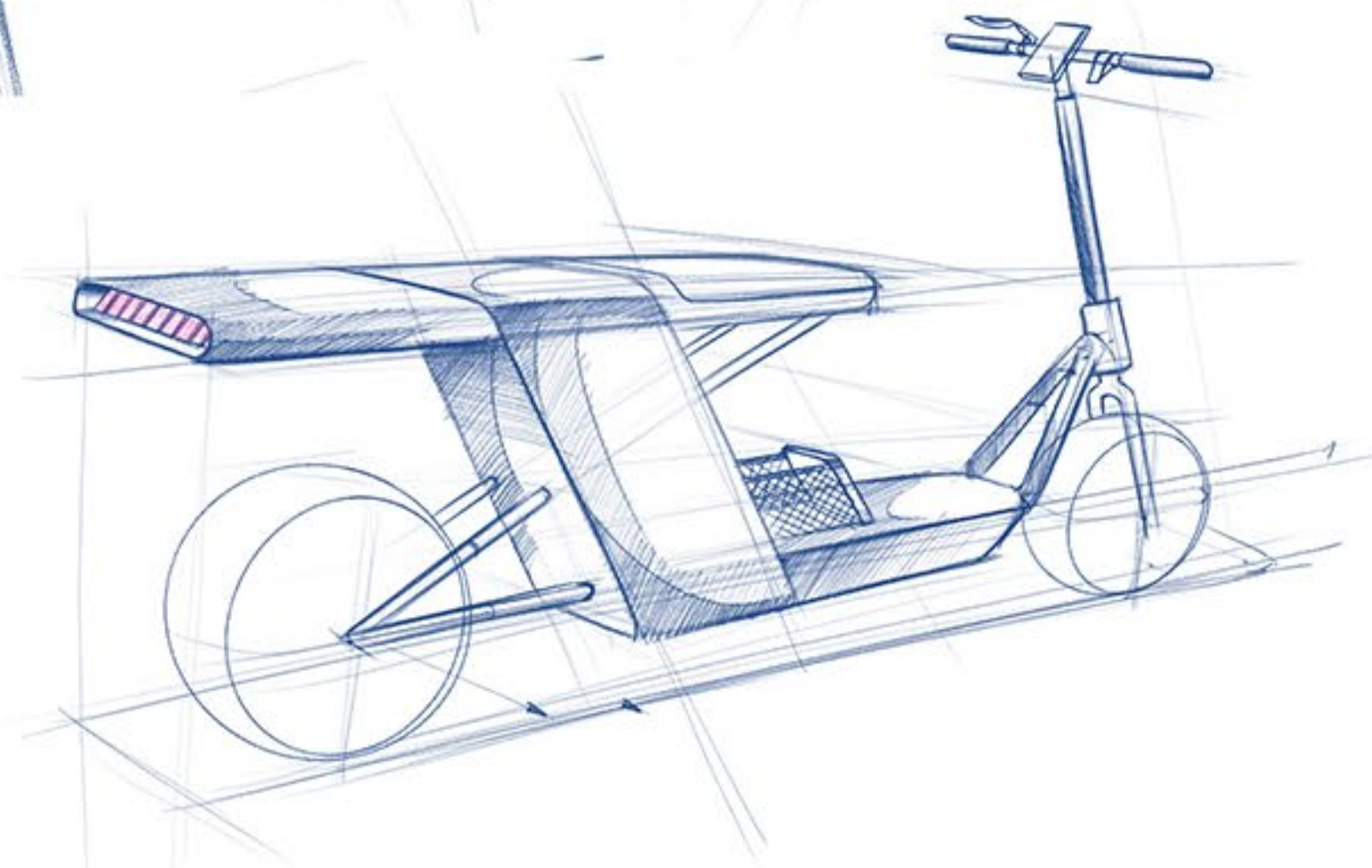
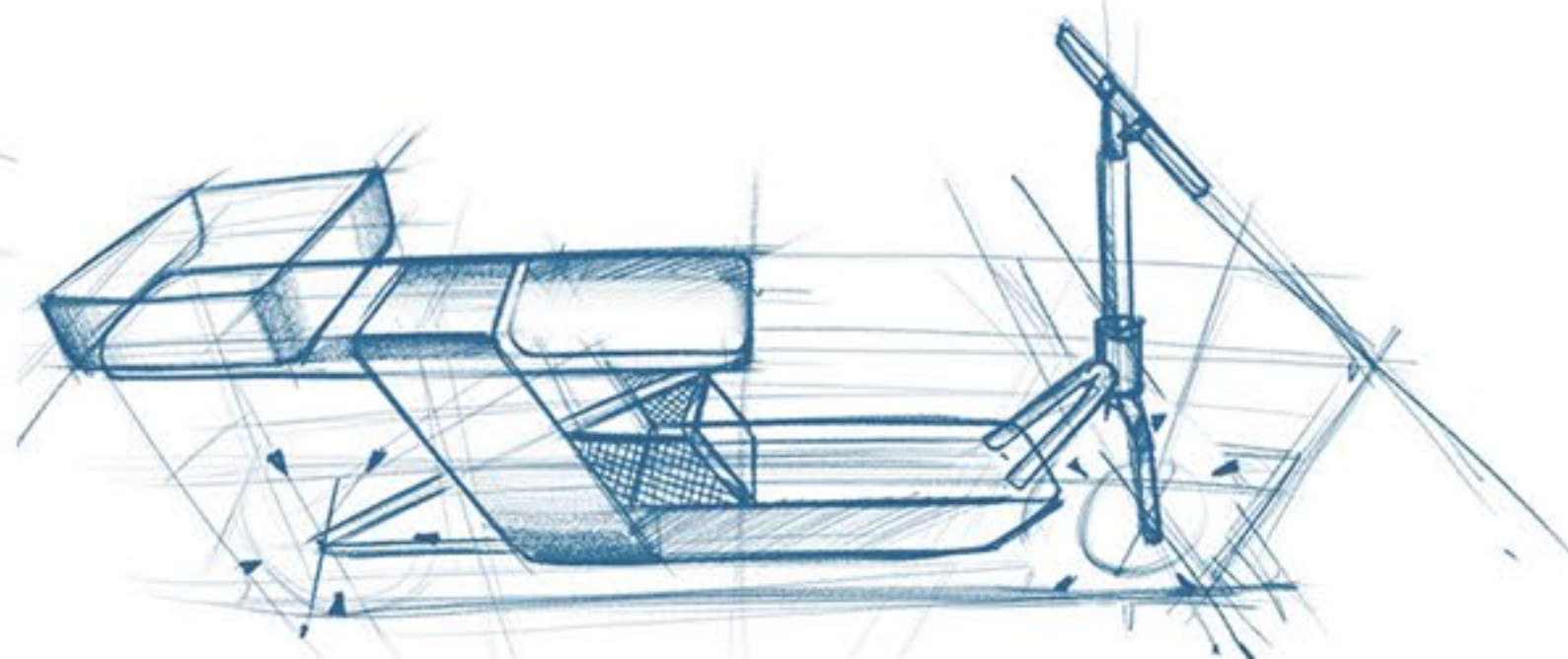
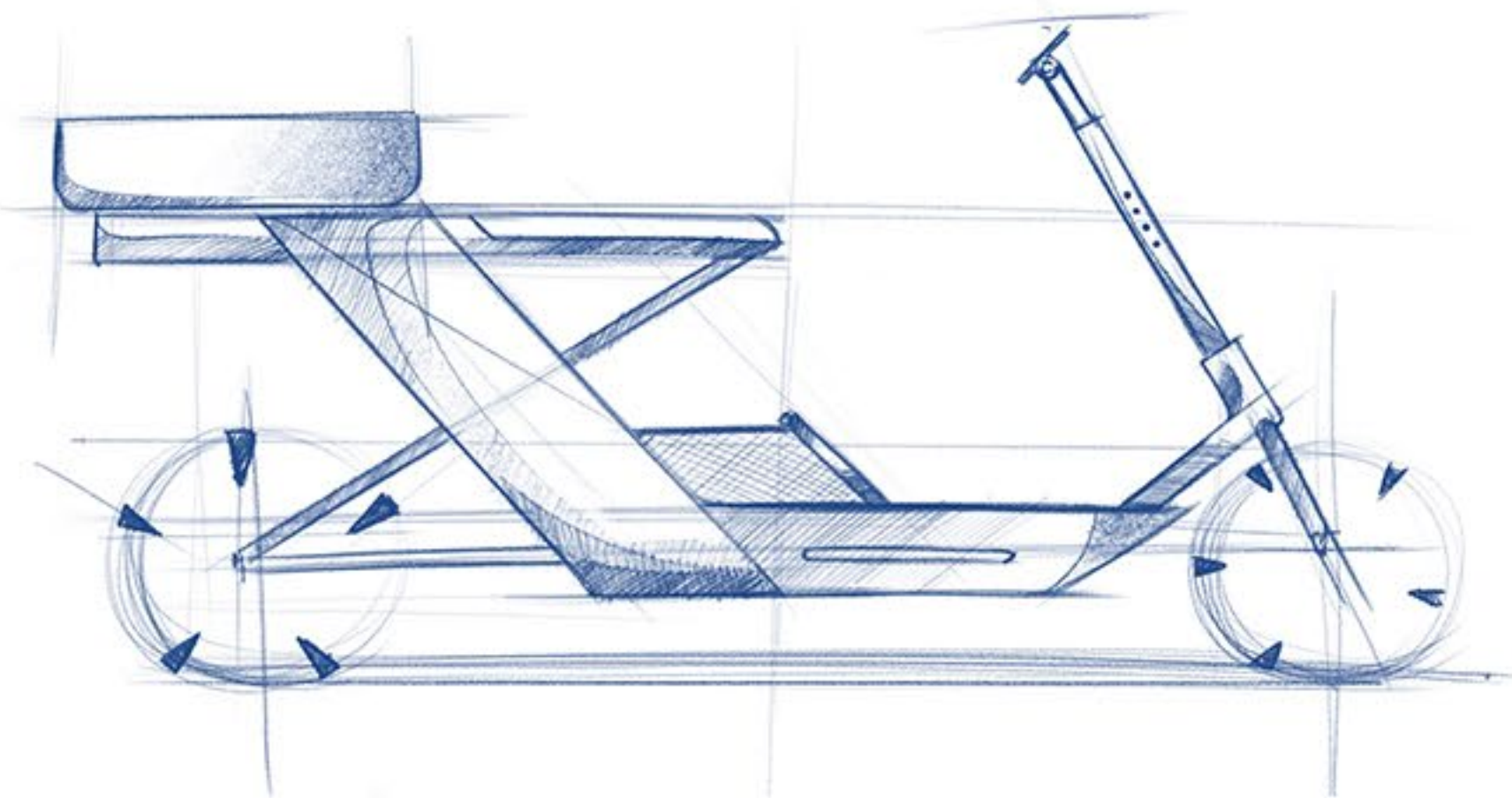
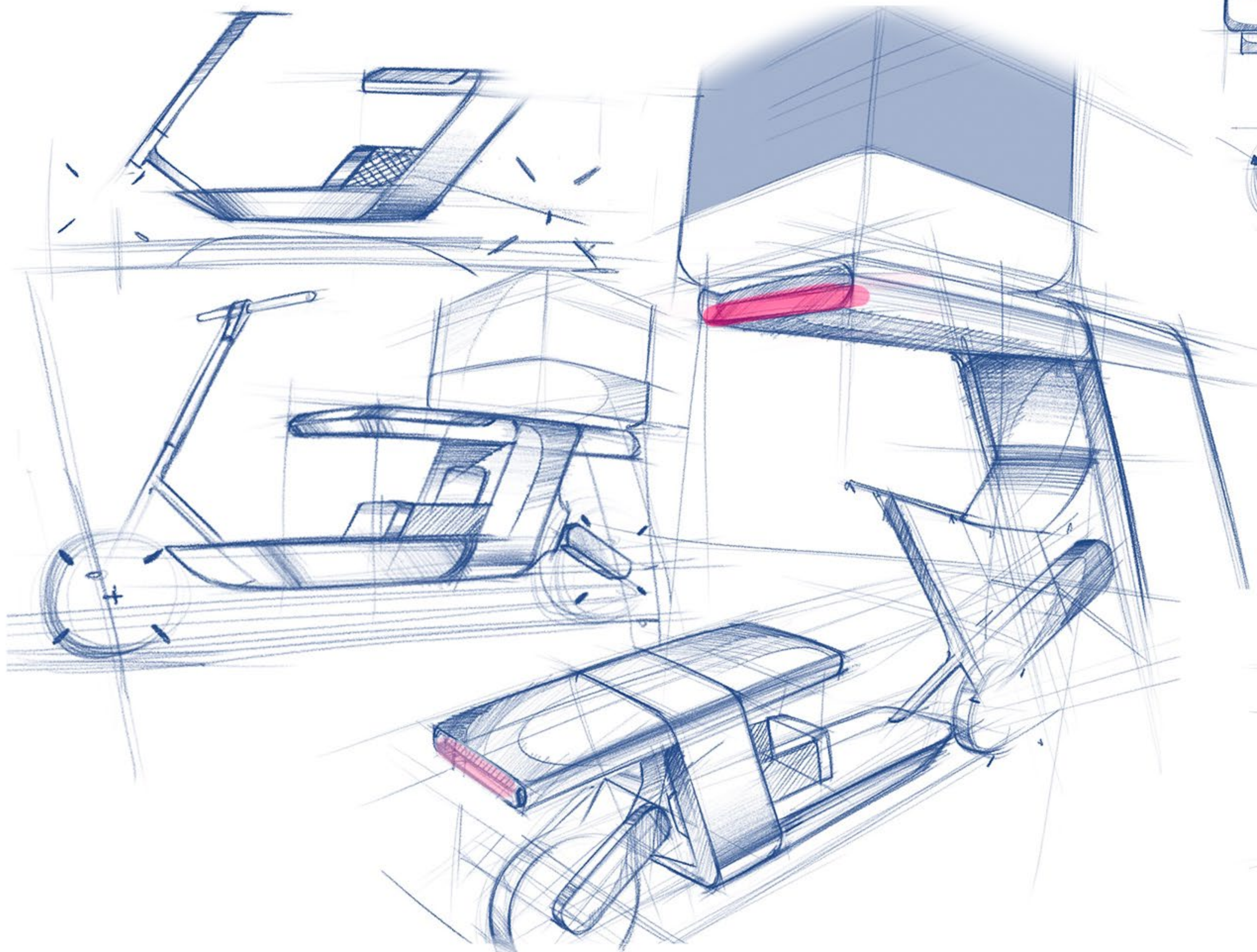
-Has dedicated storage for a delivery bag instead of having to wear the bag on your back.

-The rear brake light and reflective strips make it more visible compared to conventional scooters.

-The option to rent the scooter with a 12 month plan makes this far more attainable compared to scooters that are bought out right.

CONCEPT IDEATION







FEATURES

A highlight of all the main product point of interests.



The rear LED light illuminates when the user presses the brake handle. This allows pedestrians and vehicles behind the scooter to be aware that it is slowing down.



The storage compartment below the seat allows the rider to put their items inside it or place any smaller delivery bags underneath.

FEATURES

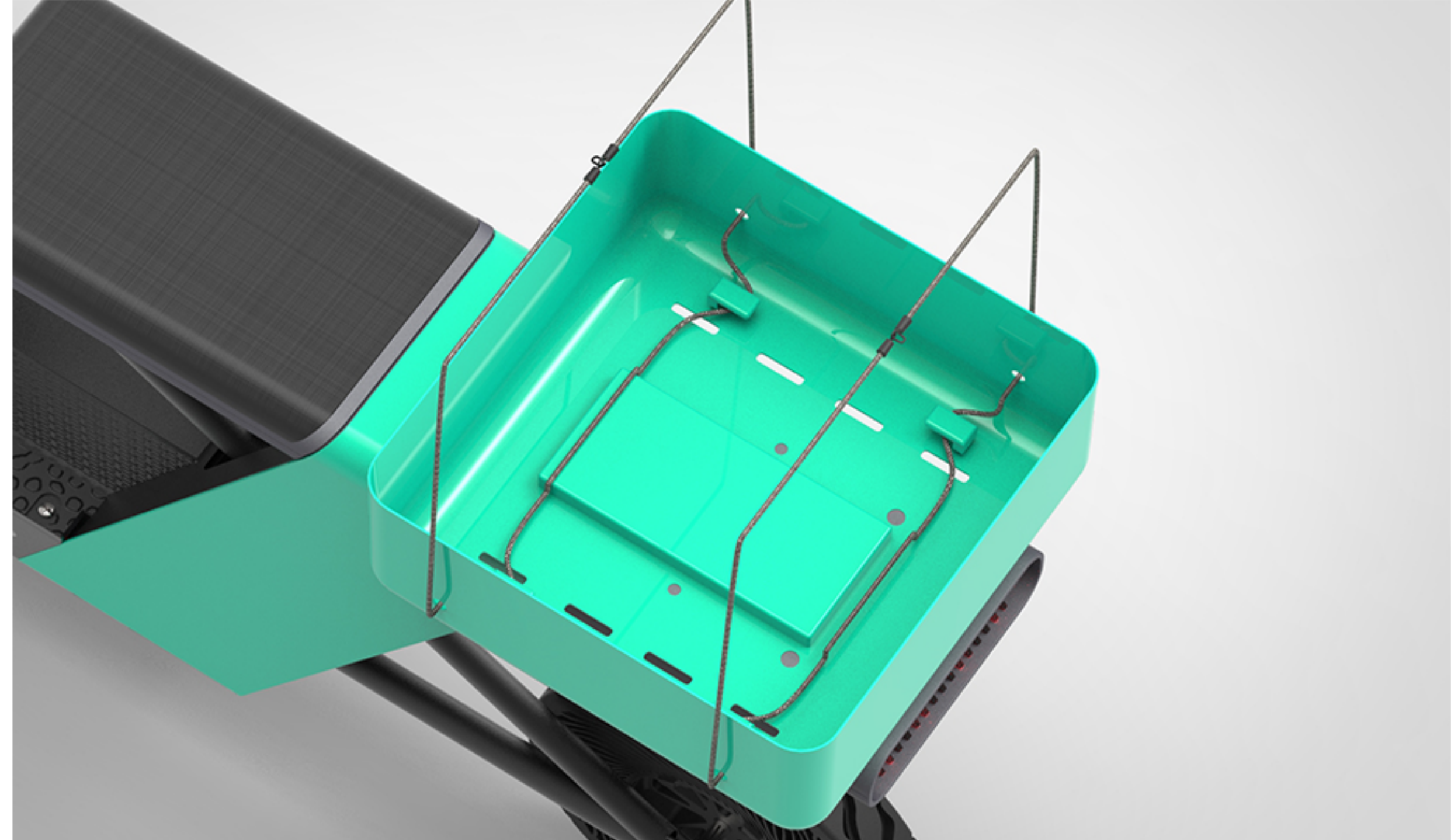
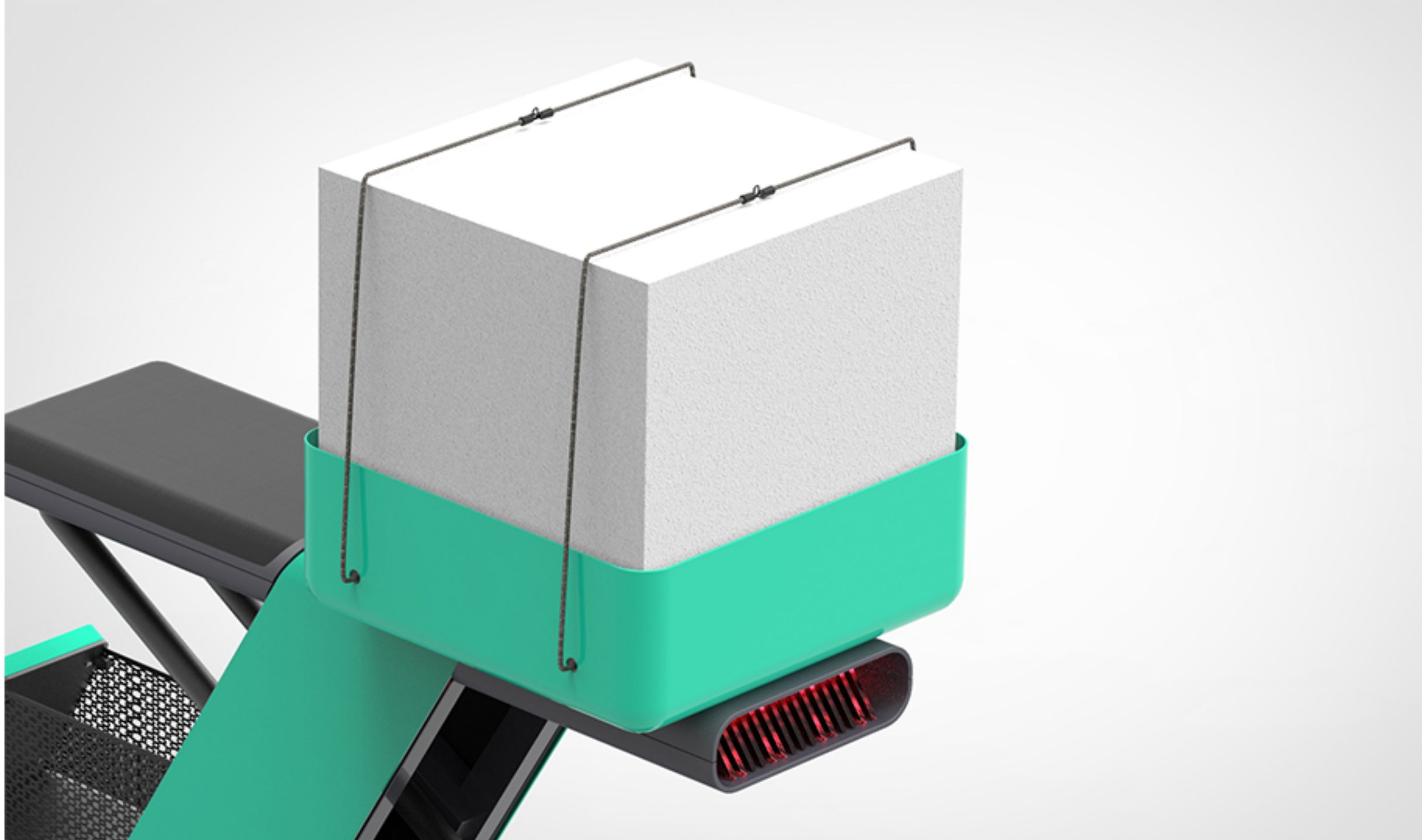


Rubber on the foot rest provides grip for the user, especially in rainy weather.



An exploded view displaying how the foot rest comes together.

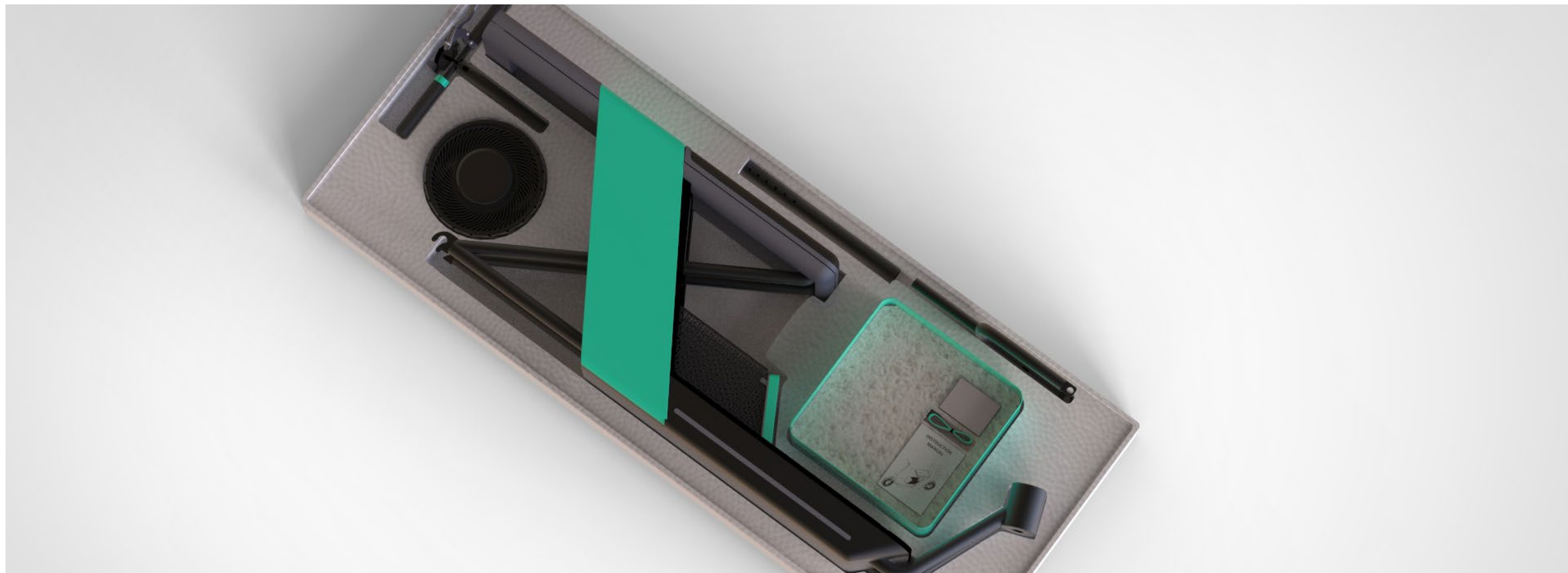
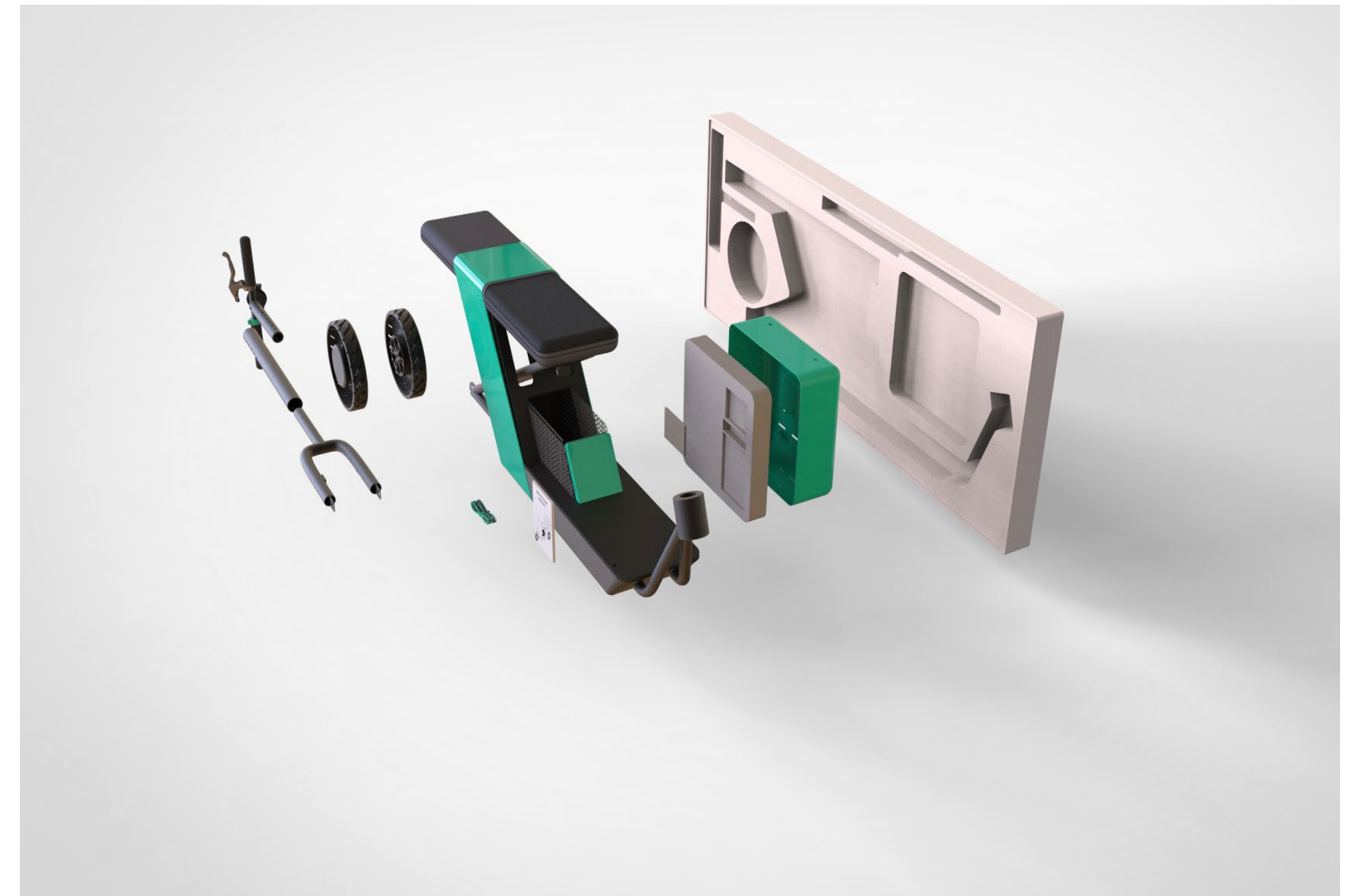
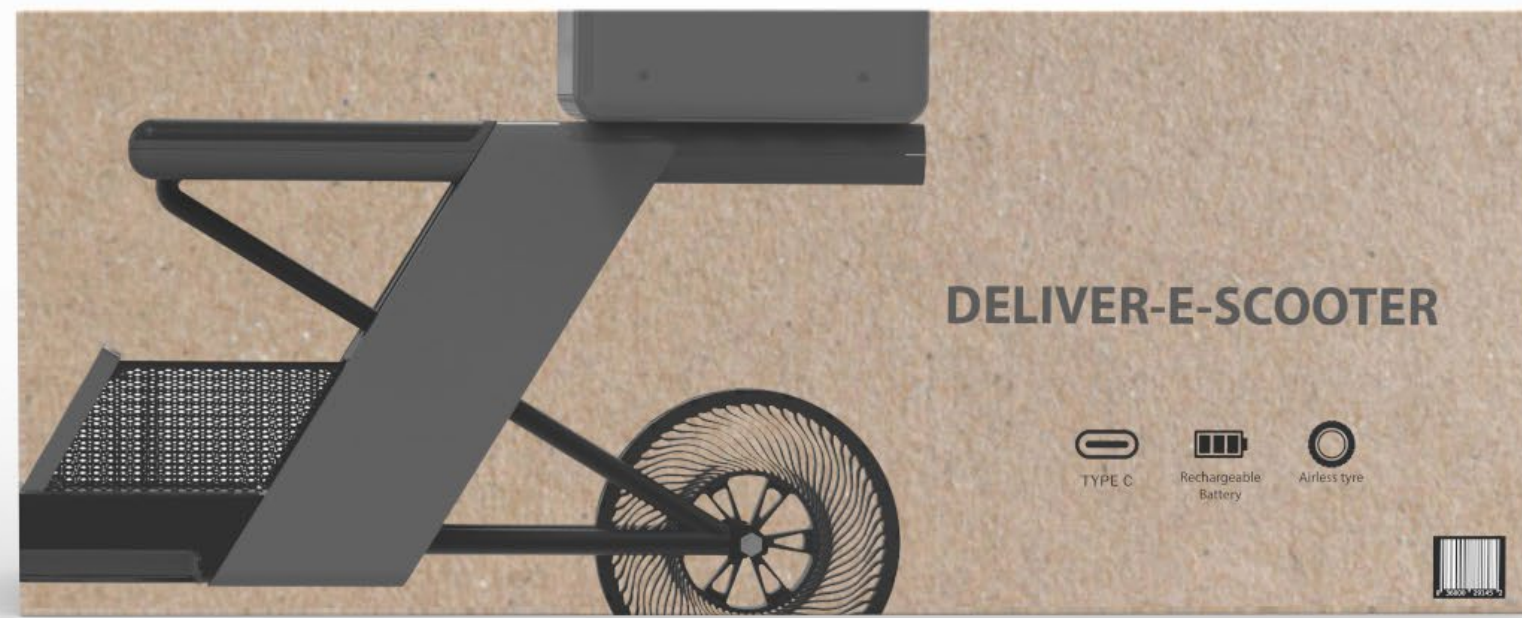
FEATURES

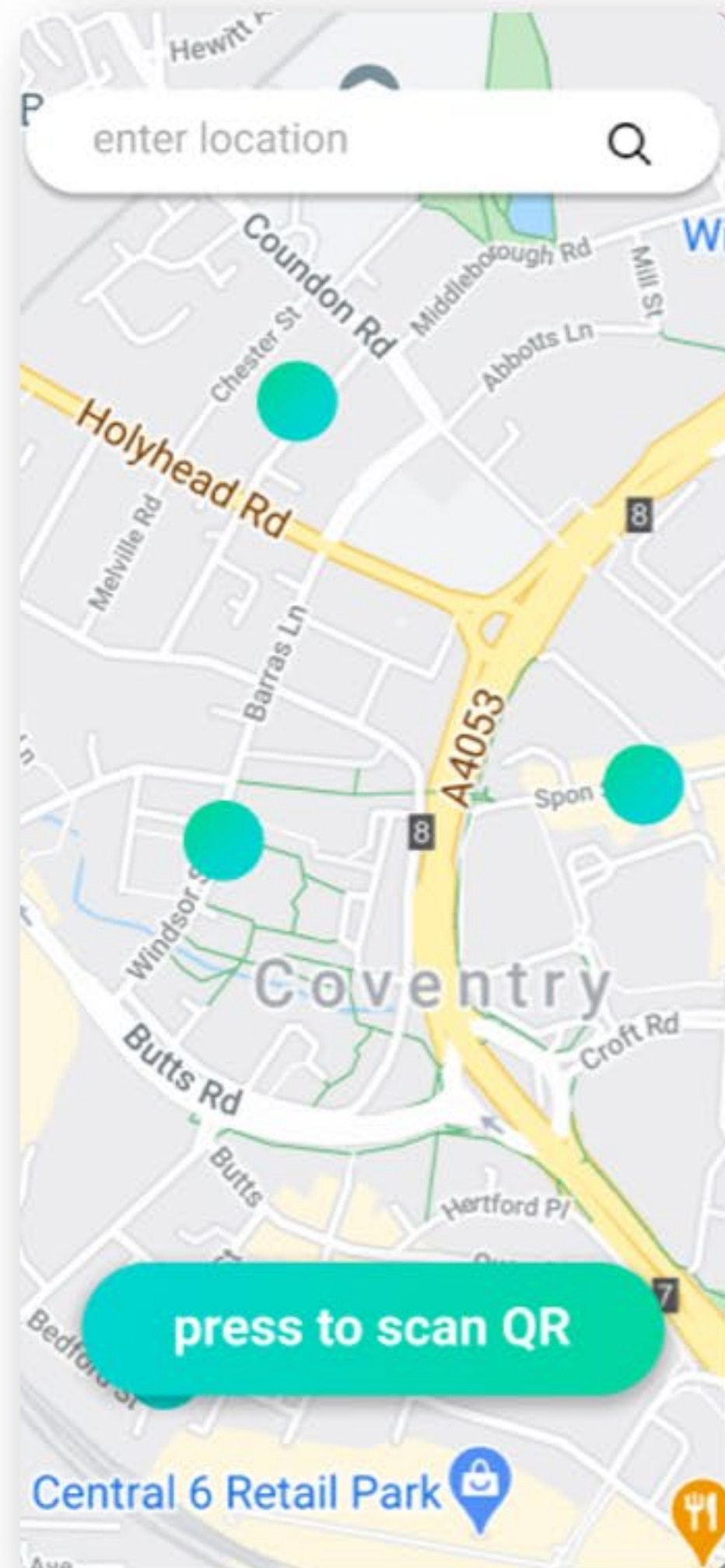


On the left picture you can see how the bungees would keep the bag strapped down in place. The right picture shows how the bungees would stay in place.

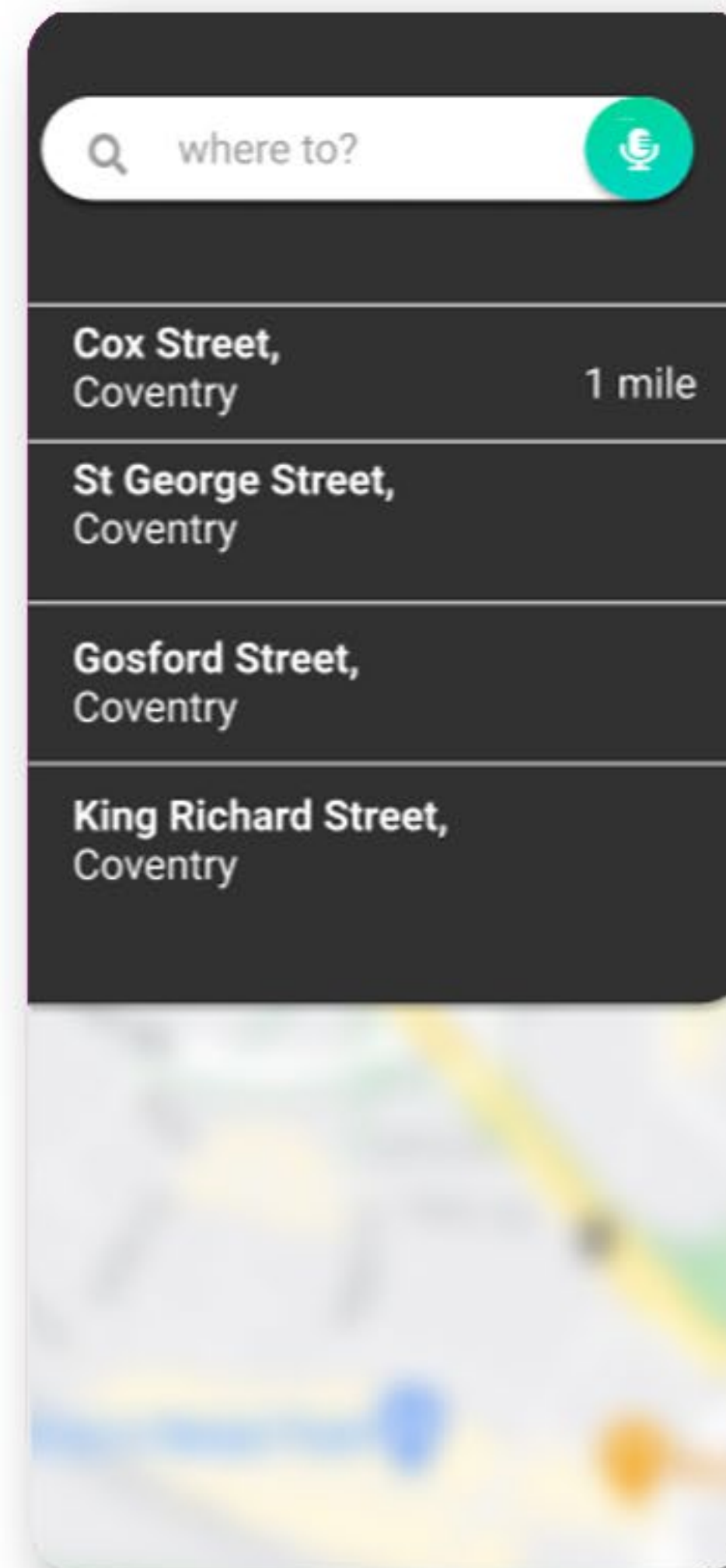
Restaurants can request a custom interchangeable basket with their own branding as well as a custom outer casing and storage face for a fee.



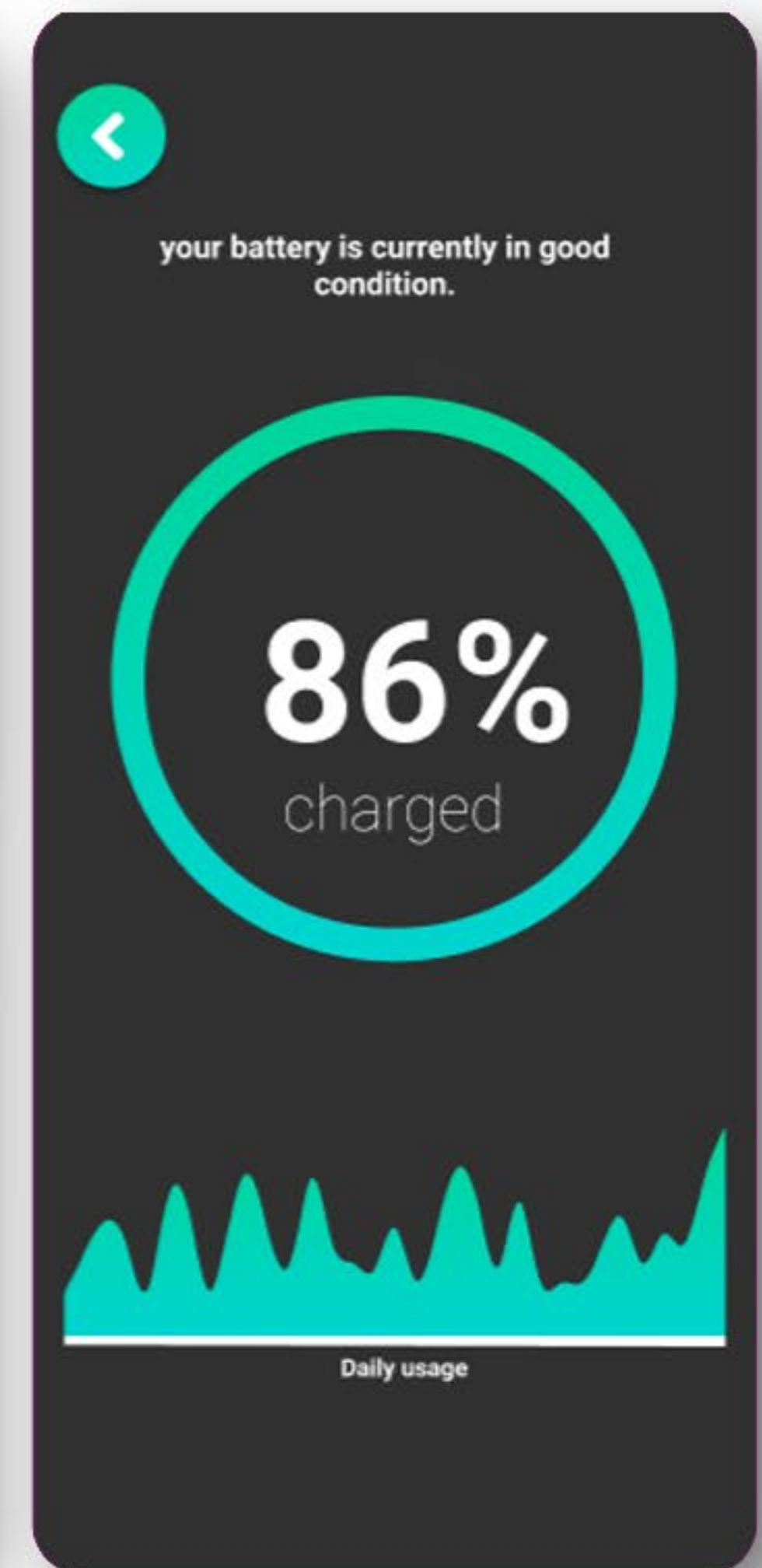




Scooter Search screen

Scooter unlock
screen

Destination search screen



Diagnostics screen

McDonald's



