Azura

Electric Mobility Vehicles

PITCH DECK

Compact and easy to carry micro-mobility solution.

i4C

TechNovuus
Synergizing Technology & Innovation

ARAI®
Progress through Research

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PROBLEM STATEMENT

Develop collapsible/ portable last-mile electric mobility solutions that are viable on Indian roads. Showcase micro-mobility solution using design software and engineering methodology, ensuring it is a safe, stable, and cost-effective solution.

OUR SOLUTION

We team Azura have developed a product that can achieve this above mentioned by making a electric scooter that is small, collapsible and fold-able.

OUR TEAM

Ashish P.

Anish C.

Abhinav R.

Pranjali P.

SOFTWARE

We have designed and developed the product using Autodesk Fusion 360 where we have executed Surface, Mesh and Form modelling.

MANUFACTURING

We will be using CNC and FDM Manufacturing process to fabricate various parts of our product.

MATERIALS

We are using certain Manufacturing Grade Aluminum, Steel, Composites, Silicone, Rubber, Carbon Metal Oxide coating, etc.

AUTOMATION

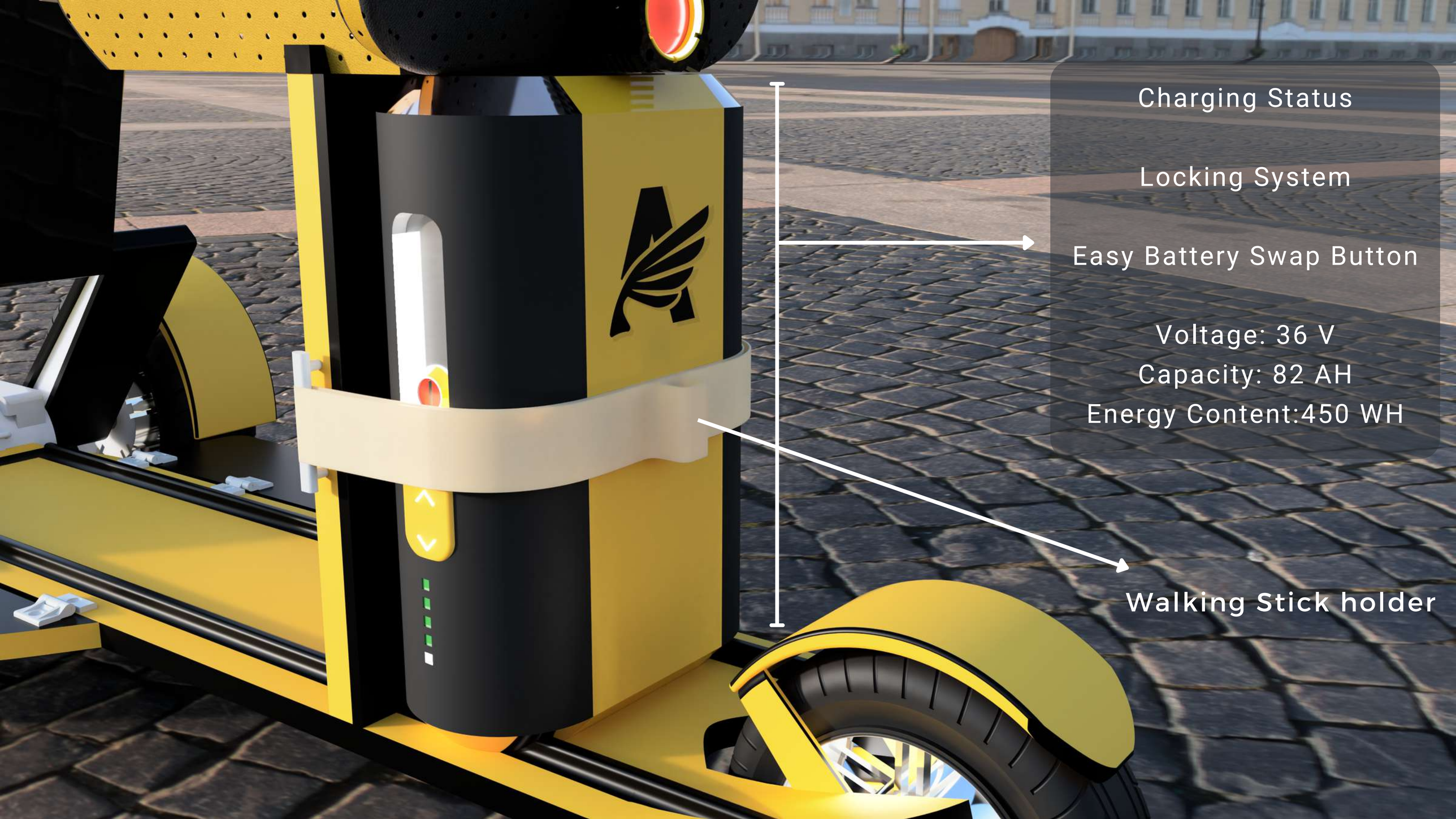
Integrated Software and Sensors for detecting, speed, range and battery optimization.

PRODUCT DETAILS

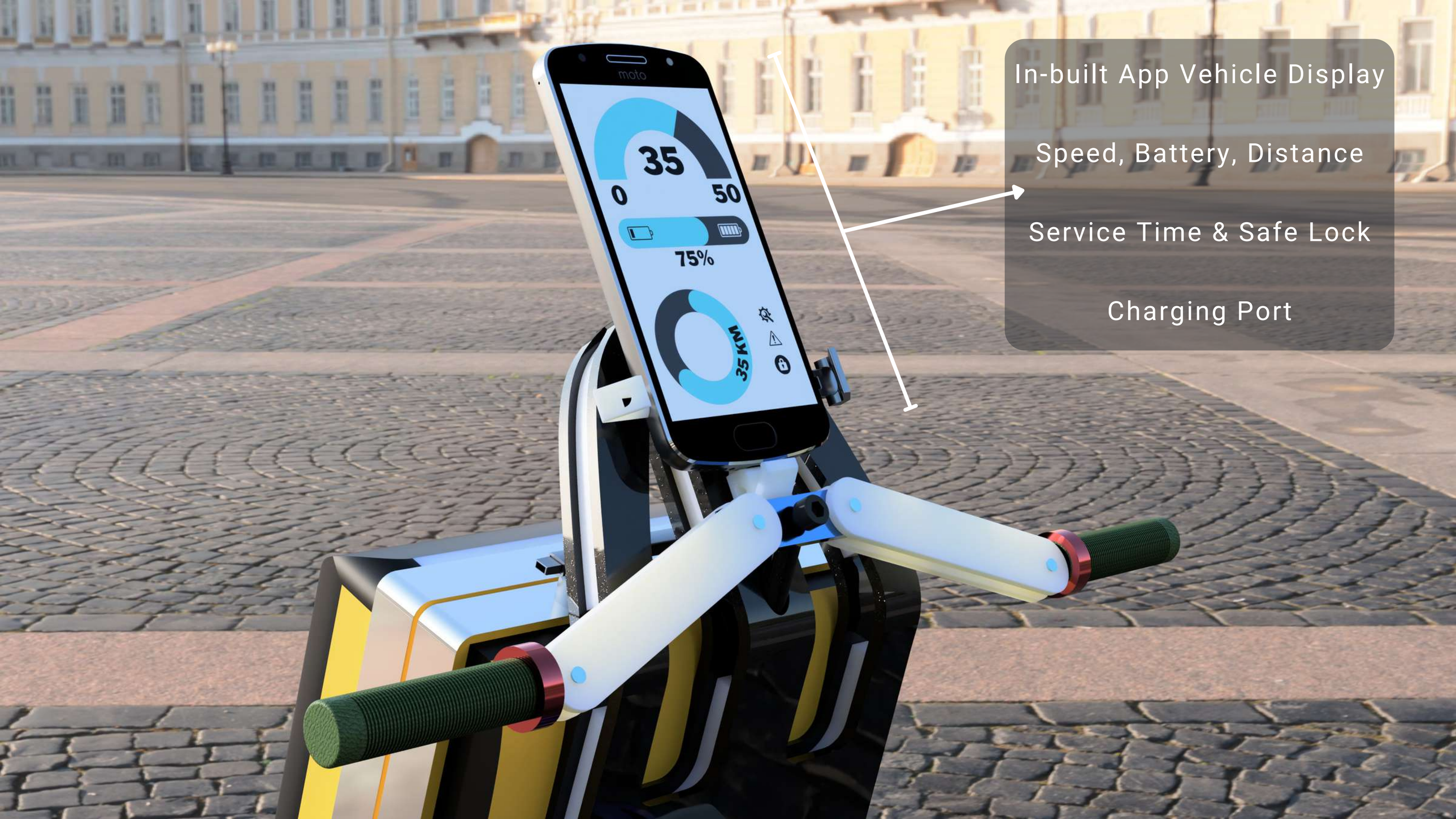

Max Load: 95 Kg
Top speed: 30 Km/h
Range/charge: 80 Km
Frame Weight: 18 Kg


510 mm
1050 mm
1170 mm


Performance & Compact
WheelHub Engine
Electric Brakes
Tubeless Tires


Charging Status
Locking System
Easy Battery Swap Button
Voltage: 36 V
Capacity: 82 AH
Energy Content:450 WH
Walking Stick holder


BLDC Motor
Torque: 30 Nm
Wheel Hub Engine
700 rpm, 83% Efficiency



In-built App Vehicle Display

Speed, Battery, Distance

Service Time & Safe Lock

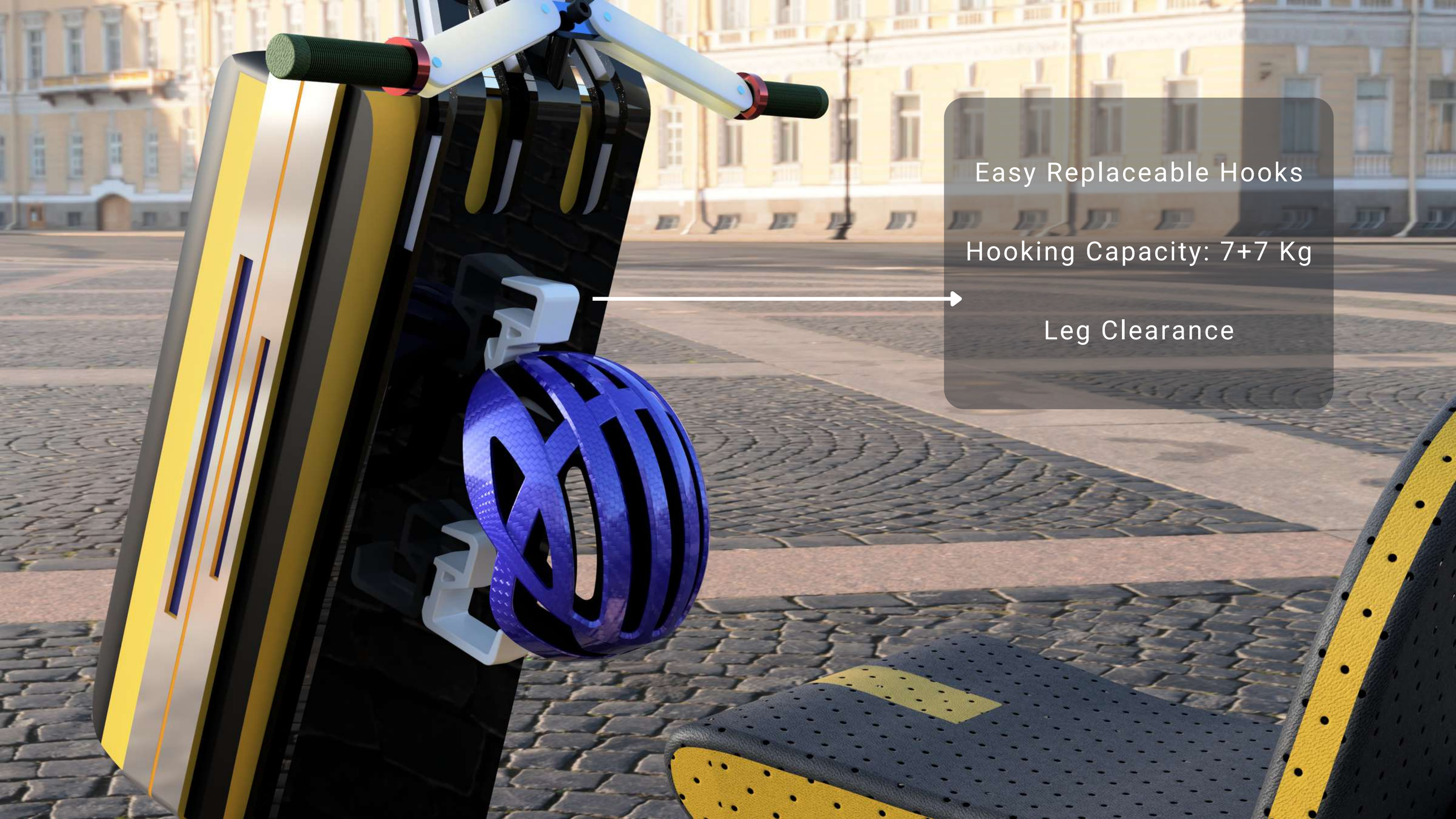
Charging Port

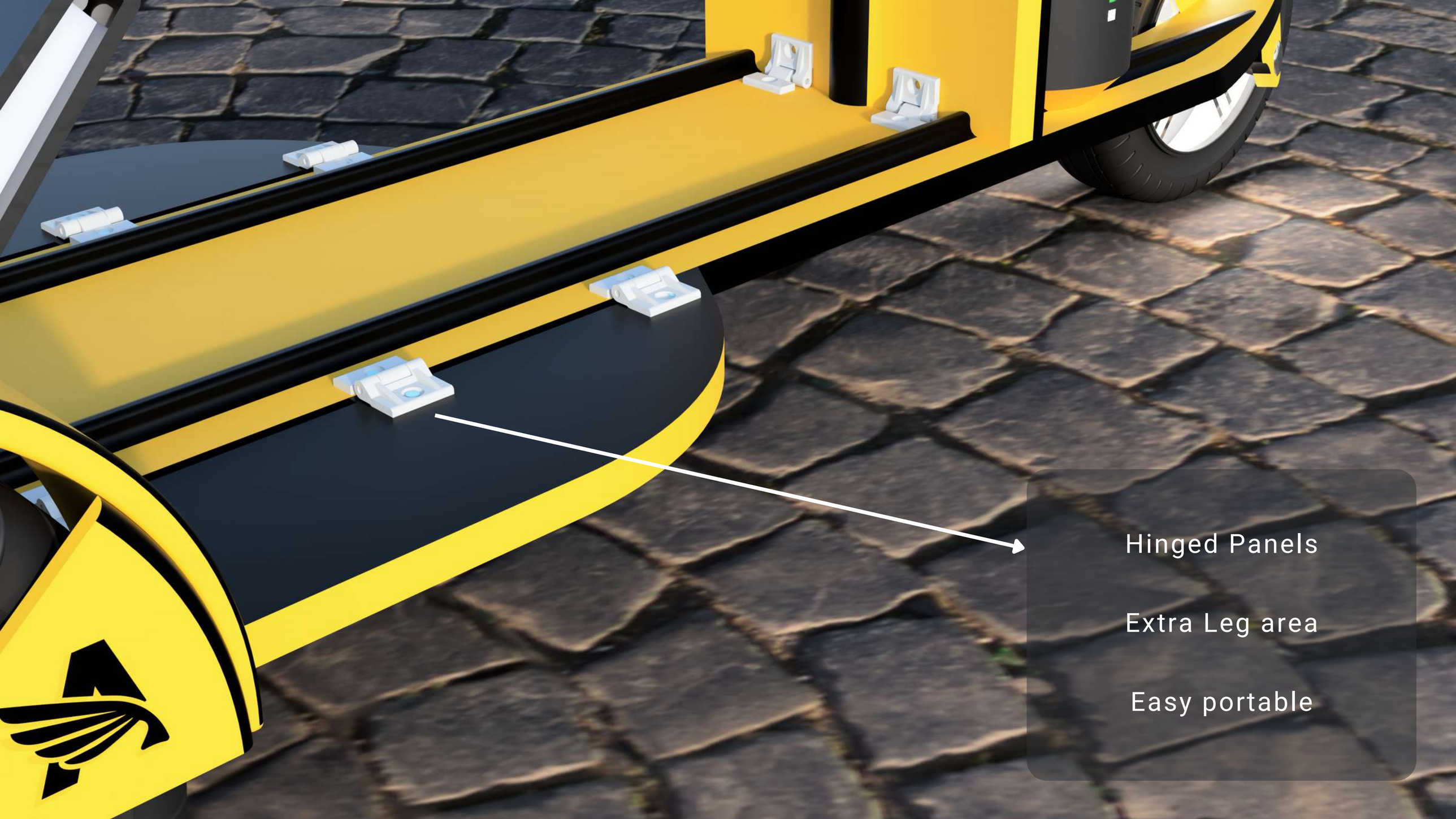
Suitcase for storage

Weight: 2 Kg

Docking, Aluminum Frame

Water Resistant Fabric


Easy Replaceable Hooks
Hooking Capacity: 7+7 Kg
Leg Clearance


Hinged Panels
Extra Leg area
Easy portable


Portable
Lightweight
Easy Handling
Durable

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INR 40K PROTOTYPING COST

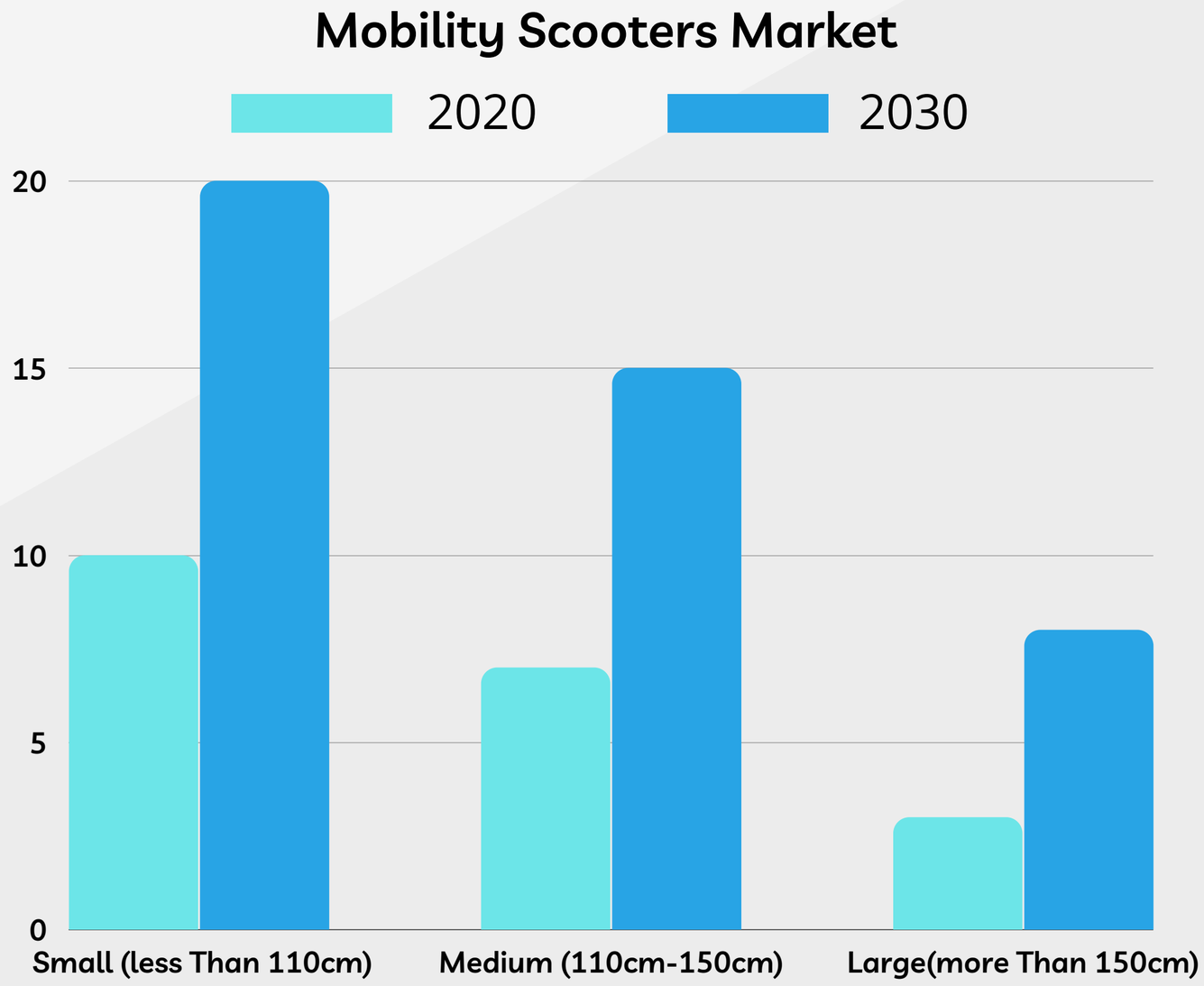
INR 20K MANUFACTURING COST

300 UNITS PRODUCED PER MONTH

INR 35K SELLING PRICE

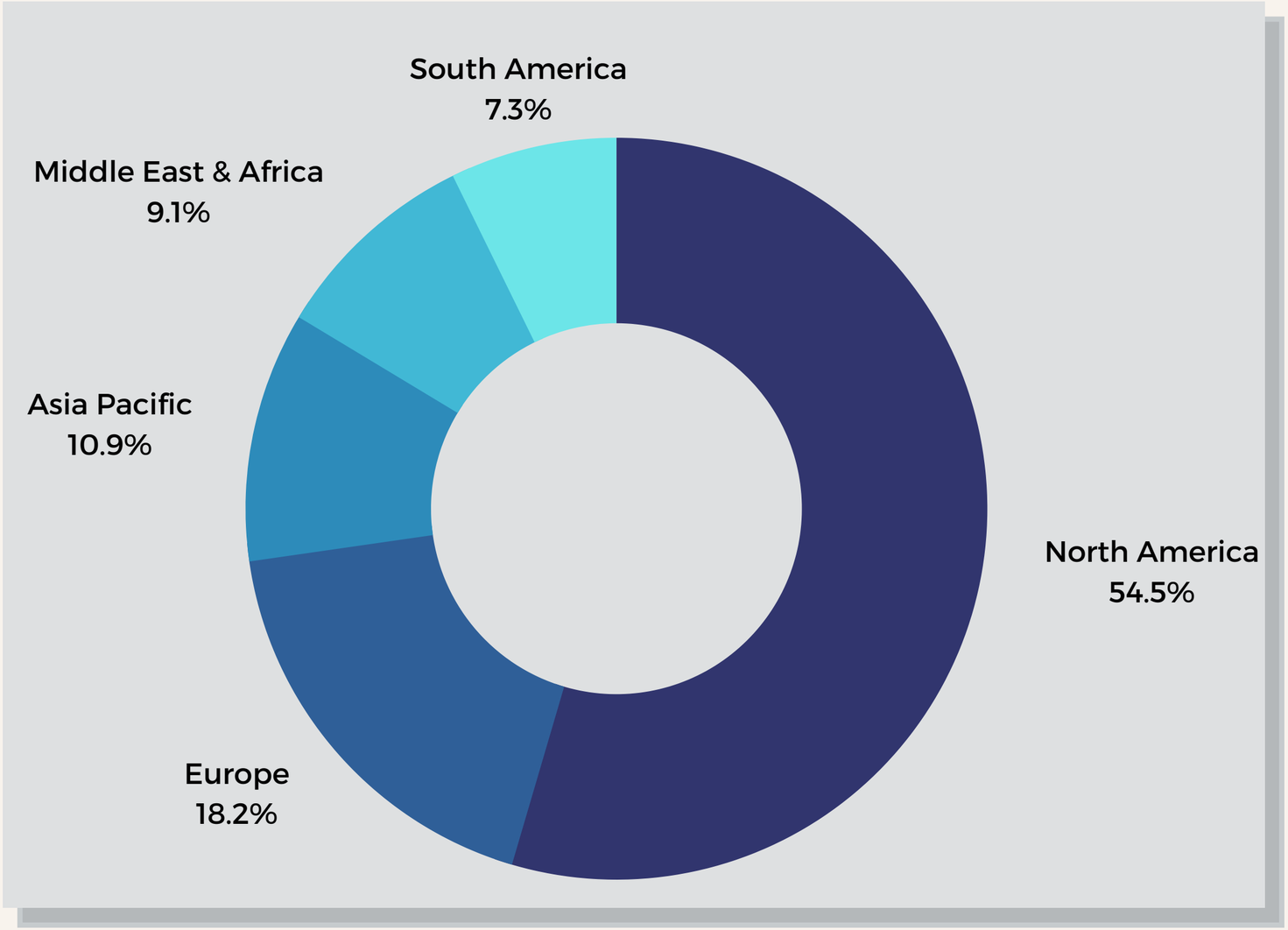
MARKET ANALYSIS

The global mobility scooters market was valued at **$1.72 billion** in 2020, and is projected to reach **$3.20 billion** by 2030, registering a CAGR of **6.5%** from 2021 to 2030.



Large(More than 150cm) is projected as the most lucrative segments

Market Size


South America
7.3%
Middle East & Africa
9.1%
Asia Pacific
10.9%
Europe
18.2%
North America
54.5%

COMPETITION LANDSCAPE

Key players operating in the global mobility scooter market include:

- Afikim Electric Vehicles
- Amigo Mobility International Inc.
- Drive Medical Design and Manufacturing EV Rider LLC.
- Excel Mobility
- Golden Technologies Inc.
- Hoveround Corp.

Future Roadmap

STEP 1

DESIGN

Create Industrial ready design

STEP 2

ANALYZE

Make analysis, testing and iteration

STEP 3

USER FEEDBACK

Take necessary user feedback and make decisions

STEP 4

TARGET COST

Create Target Market and Cost

STEP 5

MVP

Create Minimum Viable Prototype

Compact and easy to carry micro-mobility solution.

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