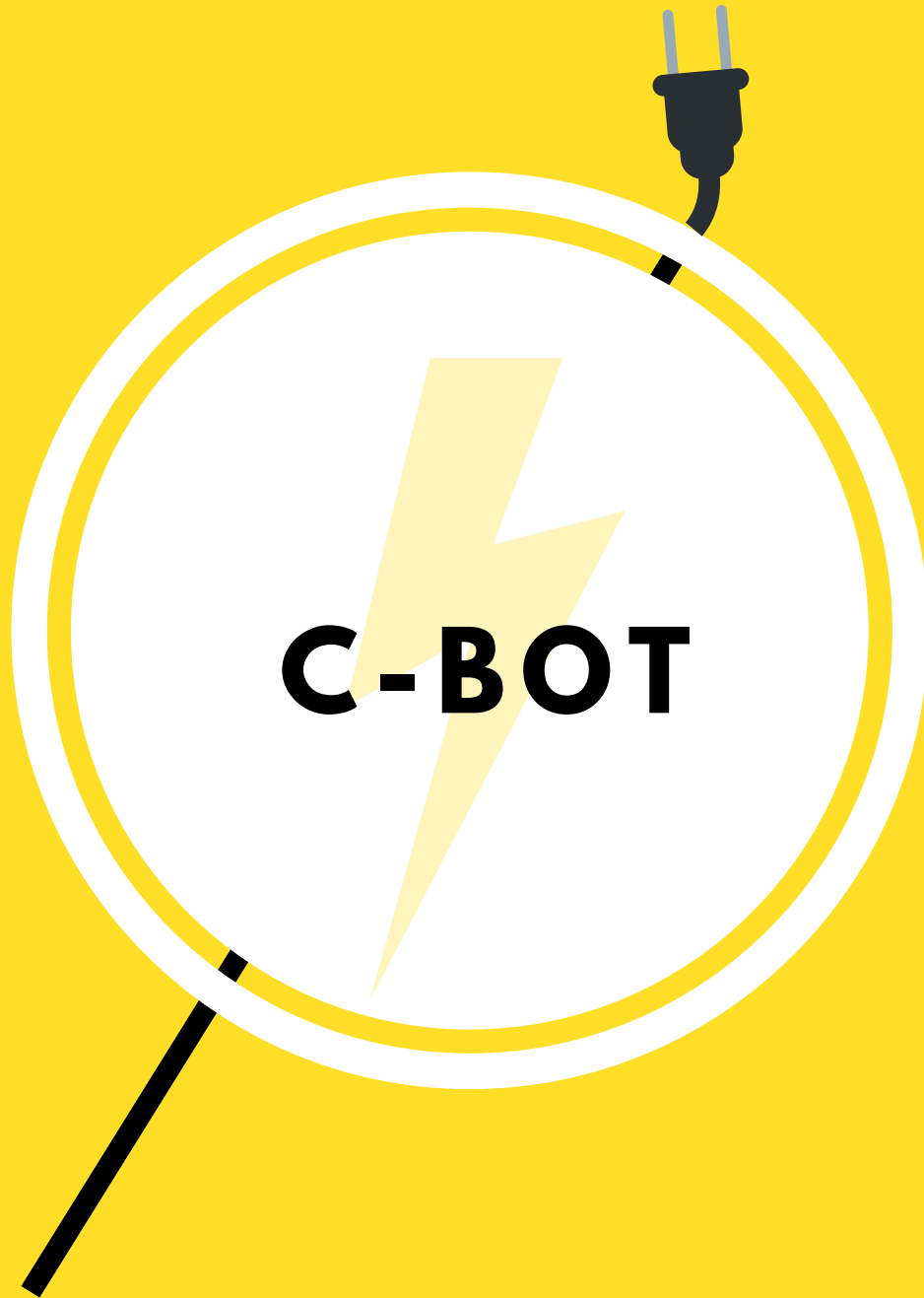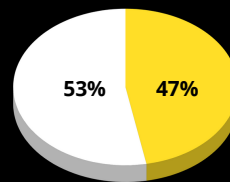# CHARGING INTO THE FUTURE

C-BOT

A PROPOSAL BY:

EMILY, SUBHAM, CARRIE, JEFFREY

OUR MISSION

C-Bot's goal is to empower electric vehicle owners with the convenience and accessibility to charge their cars at any location to support the transition towards a sustainable, energy savvy future
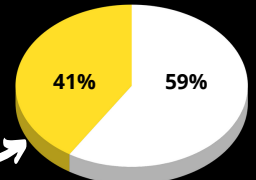
THE PROBLEM

Charging an electric vehicle is **inaccessible** and **time consuming**.
But it doesn't need to be!

53% 47%
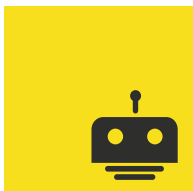
Drivers Concerned with Accessibility of Charging Ports for EV

Drivers Concerned with Time Consumption of Charging for EV

41% 59%

OUR SOLUTION

step 1
With a touch of a button, order the C-bot to come charge your electric vehicle for $2 + $0.05 per kWh through our app.

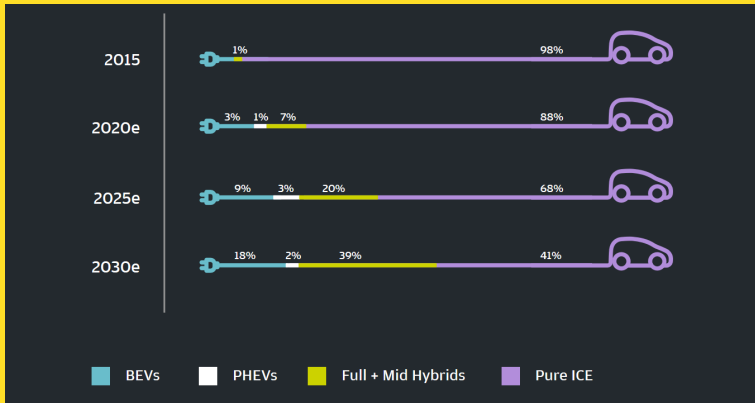Our robot is notified via app and makes its way to your car to plug itself into your vehicle.
step 2

step 3
As your vehicle charges, you can go about your day! Our bot will take care of all of your charging needs.

Projected Growth of Global Electric Vehicle Market

2015	1%		98%
2020e	3% 1% 7%		88%
2025e	9% 3% 20%		68%
2030e	18% 2% 39%		41%

■ BEVs □ PHEVs ■ Full + Mid Hybrids ■ Pure ICE

With governments increasing involvement in tackling fuel emissions, electric vehicles is expected to account for an **estimated 30% of all vehicle sales** by 2025.

8.4 Million plug in electric vehicles sold by 2025

Target Market

1 in 5 drivers in America are going electric

⚡ **MEET C-BOT** ⚡

Flexible Arm
six degrees of freedom arm trained to locate a charging port and plug into a vehicle
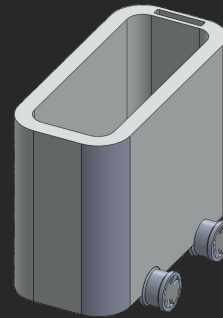
Compact Design
sized to fit behind car without impeding traffic flow

ARM

BODY

Artificially Intelligent
Autonomous, able to navigate itself and avoid accidents

Superior Storage
0.455 m^3 of battery storage

Visible Mechanics
1.5 meters tall, can be seen by all drivers

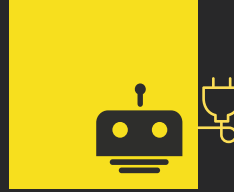### Maximum Charge
delivers 80kW

Tesla   Volkswagen

Competition

PROJECTED REVENUE

Full Charge for Electric Vehicle
45kWh

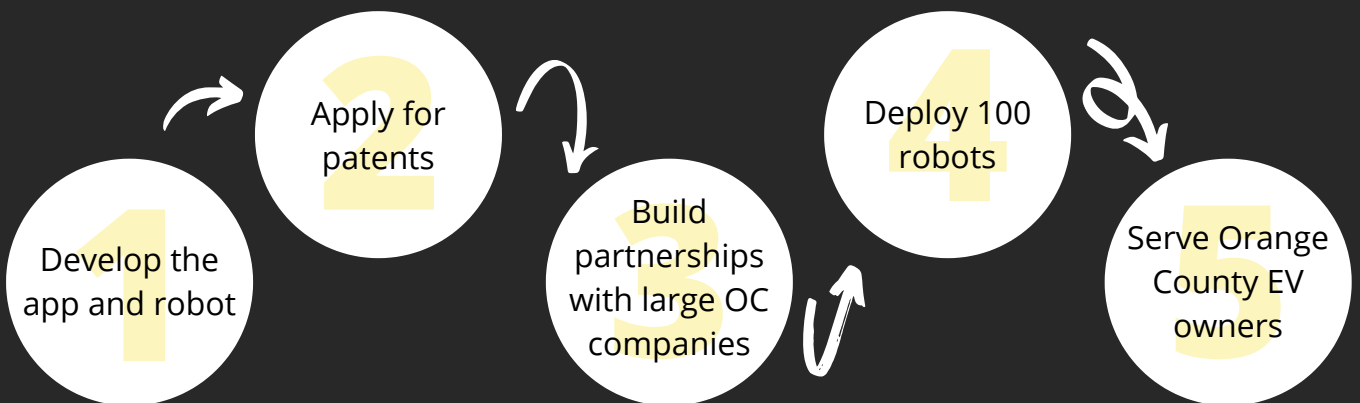Each robot can do **5836 full charges** of cars

$ Estimated Cost of Robot*:* **$18000**

Our Service Charge: **$2 service fee + $0.05 per kWh**

Projected Profit: **$58000/robot** ROI: **33%**

Charging 5 Years Forward

1 Develop the app and robot

2 Apply for patents

3 Build partnerships with large OC companies

4 Deploy 100 robots

5 Serve Orange County EV owners

Our Forward Charging Family

SUBHAM

Software Ninjaneer

Computer Science Engineering '21

EMILY

Money Maestro

Business Economics & Public Health Policy '21

CARRIE

Robot Whisperer

Mechanical Engineering '21

JEFFREY

Data Overlord

Computer Science Engineering '21