EV HUB

Revolutionizing Sustainable EV Repairs

About us

EV Hub is a Norwegian technology company that provides a Sustainable Electric Vehicle Service Platform & Remanufactured Components for B2B automotive industry players

Introduction

Some facts...

Cars wrecked on scrapyard

- 70% Petrol
- 30% Diesel (approx.)
- 0.1% Electric (approx.)

- Fossil: Average age 18.1 years
- Electric: Average age 6.4 years(*)

This shows EVs are getting wrecked because of lack of sustainable repairs

Source: OFV

EVs don't have sustainable repairs on high-voltage components today

- Instead of repairing old components, new HV components are used

- Insurance calculations becomes difficult; thus cars are getting wrecked

New Battery prices

Car	Year	Price(*)
Volvo XC40	2021	18 700 EUR
Tesla Model S	2013-2018	20 000 EUR
Audi e-tron	2021	48 500 EUR
Nissan Leaf	2021	6 300 EUR
Hyundai Kona	2020	31 000 EUR
Mercedes-Benz EQC	2021	34 000 EUR
Xpeng G3	2021	27 000 EUR

Exclude taxes and labor.
Source: TV2 (11.09.23)

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World Largest EV Markets by 2023

Top Global amount of EVs by Country (2023)
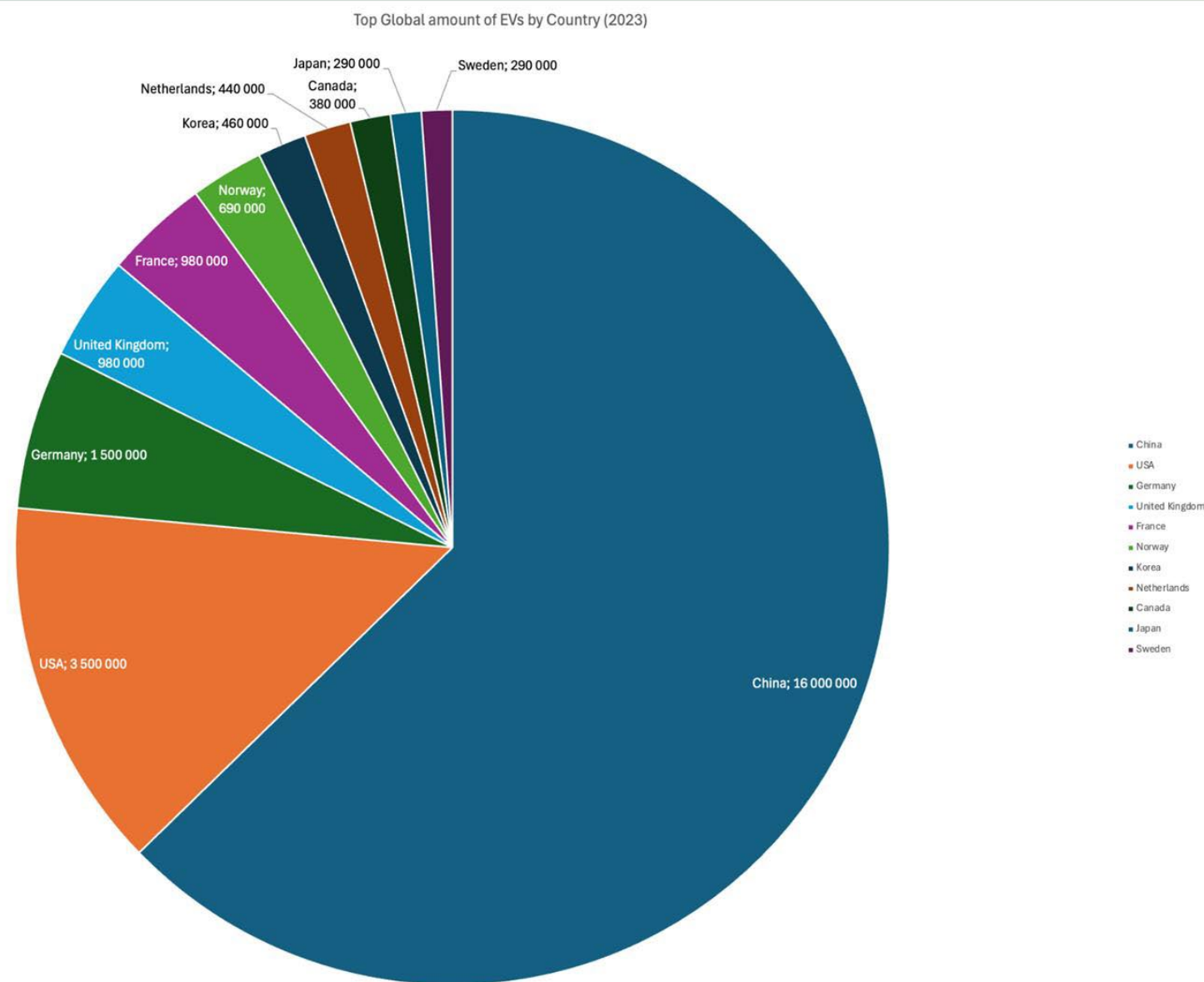
Rank #	Country	Amount of EVs
1	China	16 000 000
2	USA	3 500 000
3	Germany	1 500 000
4	United Kingdom	980 000
5	France	980 000
6	Norway	690 000
7	Korea	460 000
8	Netherlands	440 000
9	Canada	380 000
10	Japan	290 000
11	Sweden	290 000
Total	All markets combined	28M

Source: https://www.iea.org/reports/global-ev-outlook-2024

What we do:

EV solution
for the garage
chains

Our Mission

SUSTAINABLE ELECTRIC VEHICLE SERVICE PLATFORM
& REMANUFACTURED COMPONENTS

"MAKING TRIPLE LIFE CYCLE POSSIBLE"

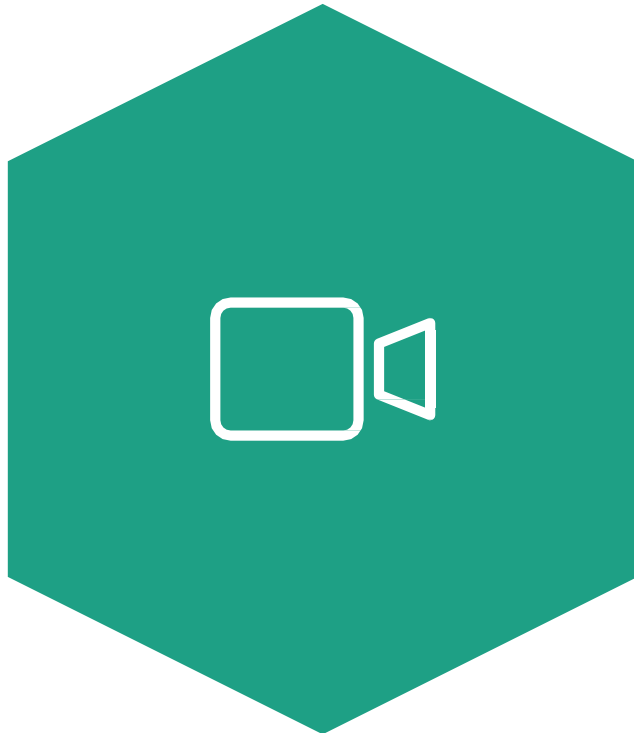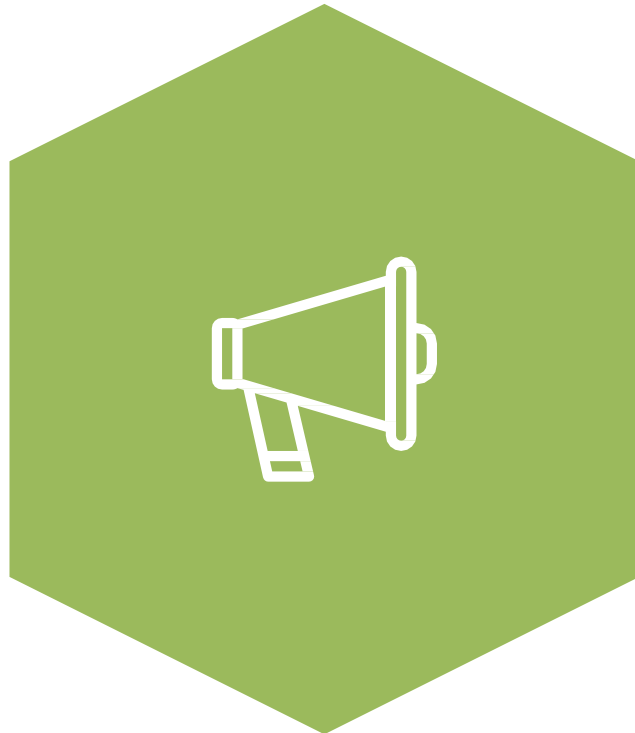**SUSTAINABILITY**

TRIPLE LIFE CYCLE

REDUCE CO2 EMISSION

GO GREEN

EV HUB

What we do?

ELECTRIC VEHICLE (EV)
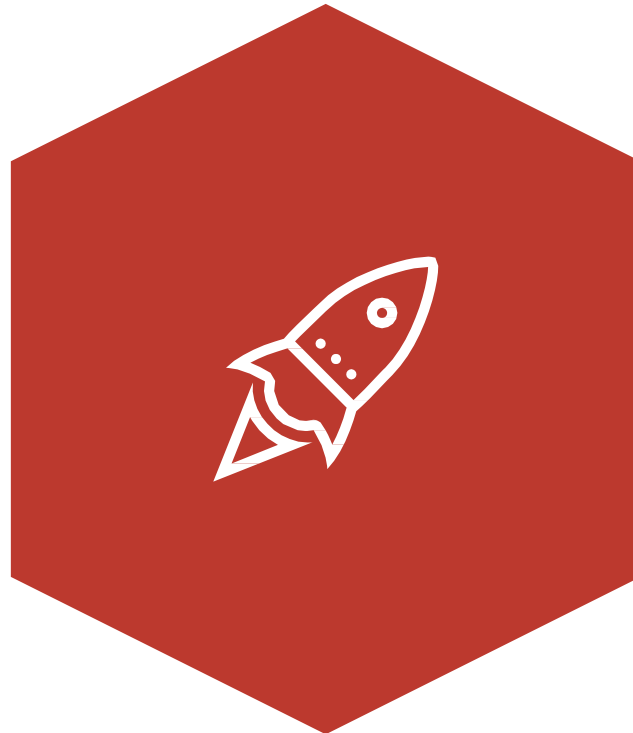## CERTIFICATION OF GARAGES

EVHUB
Certified
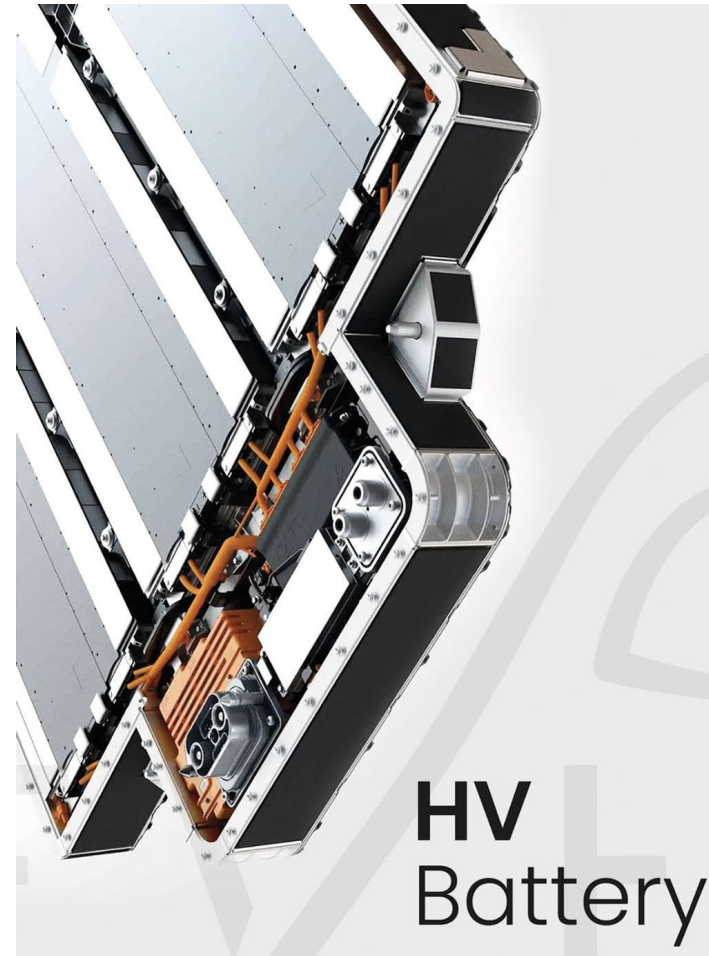
EDUCATION & TRAINING

PROVIDE TOOLS

REPAIRED EV PARTS

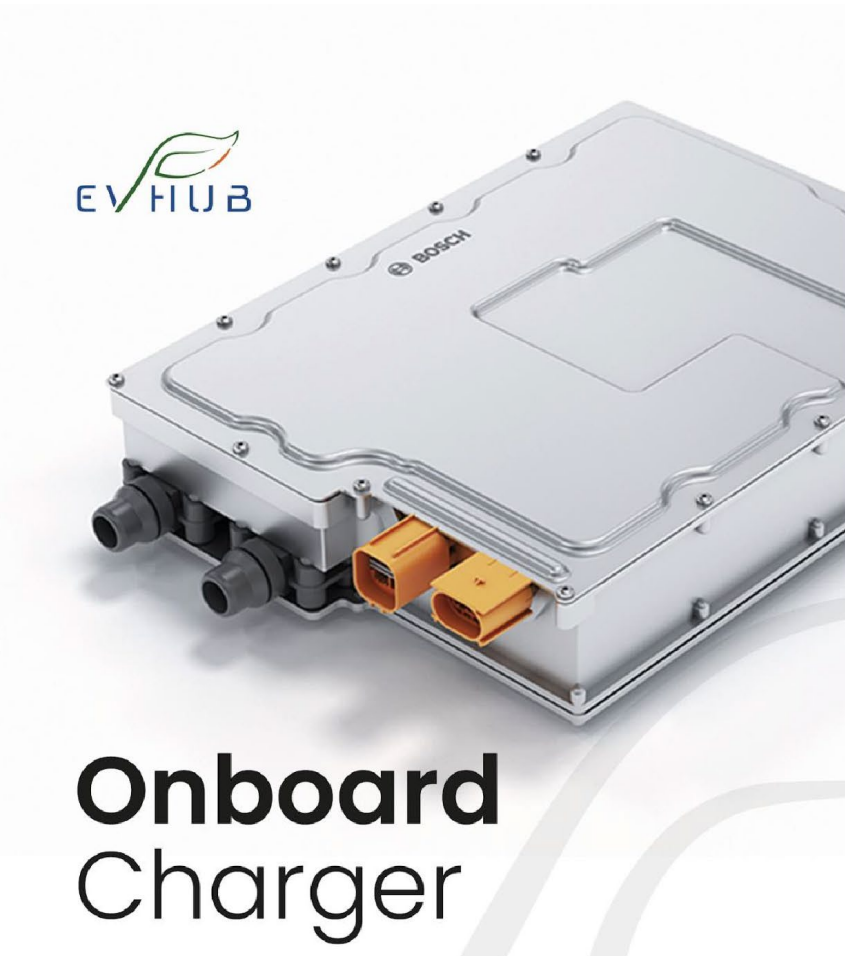**SUPPORT**

What HV components

REMANUFACTORING OF USED PARTS

HV Battery

Drive Unit

Onboard Charger

PTC Heater

DC DC Converter

EV Health Condition Report Platform

EV HUB's EV Health Condition Report (EVHR) is a comprehensive Cloud based platform tool for assessing the health of EVs. Our report covers mechanical, low voltage, and high voltage components, providing a complete picture of the EV's condition.

This information is presented in an easy-to-understand format that benefits consumers, car dealers, insurance companies and garage chains alike.

EV Health Condition Report Platform

OVERVIEW

EV HUB App
Connects to OBD2 and uploads CAN bus data to Cloud, supports more than 2500 CAN bus fields for Tesla

Inspection Report
130 check points

Cloud Backoffice
As a garage owner, create and share inspection reports with customers

Health Condition Report Kit

ANDROID TABLET
Android based tablet
with EV HUB app

OBD2 ADAPTER
Customized OBD2
adapter for fast read-outs

CAN BUS CABLES
Various cable adapters
and connectors for CAN
bus and diagnostics

Android
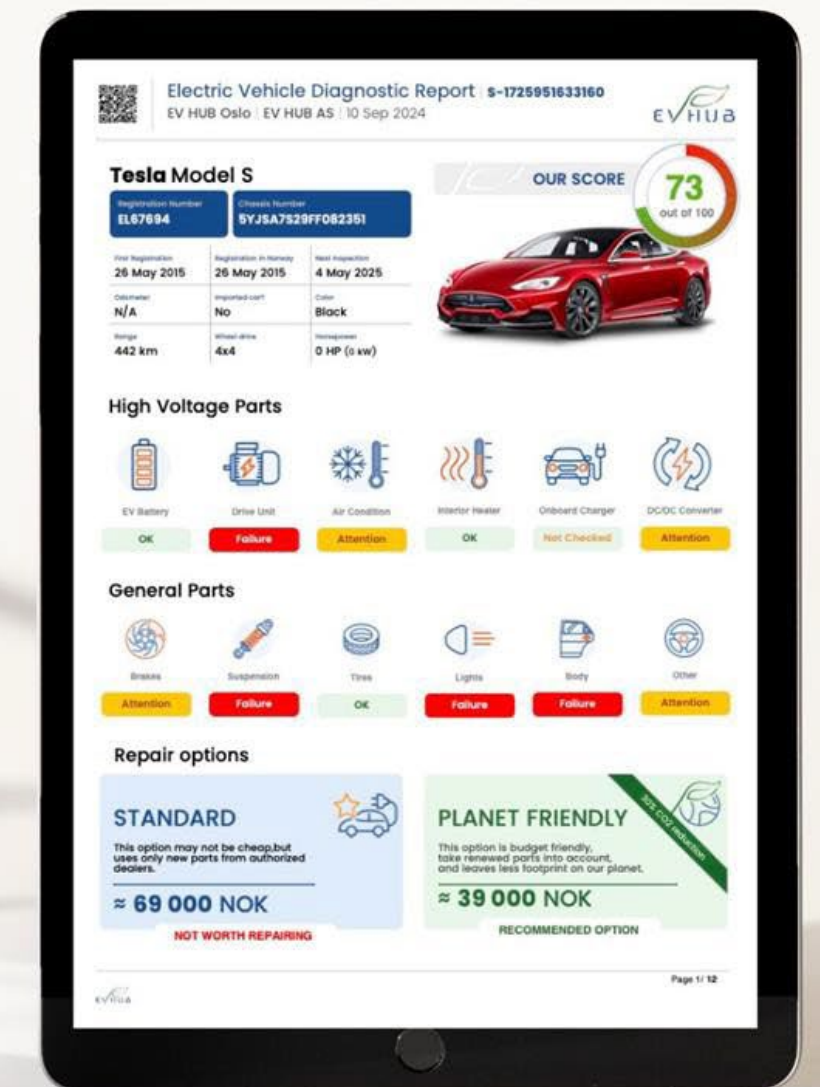
Health Condition Report Summary

Electric Vehicle Diagnostic report
S-1683096893808 | 03rd May 2023

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Tesla Model S 75D

OUR SCORE

59 out of 100

Registration Number	Chassis Number
EL92767	5YJSA7E25GF125919

First Registration	Registration in Norway	Next inspection
08th Jun 2016	08th Jun 2016	16th Jun 2024

Odometer	Imported car?	Color
91460	No	Black

Range	Wheel drive	Horsepower
490km	4X4	0 HP (0 kw)

High Voltage Parts

EV Battery	Drive Unit	Air Condition	Interior Heater	Onboard Charger	DC/DC Converter
OK	Failure	OK	OK	OK	OK

General Parts

Brakes	Suspension	Tires	Lights	Body	Other
Attention	OK	OK	OK	OK	OK

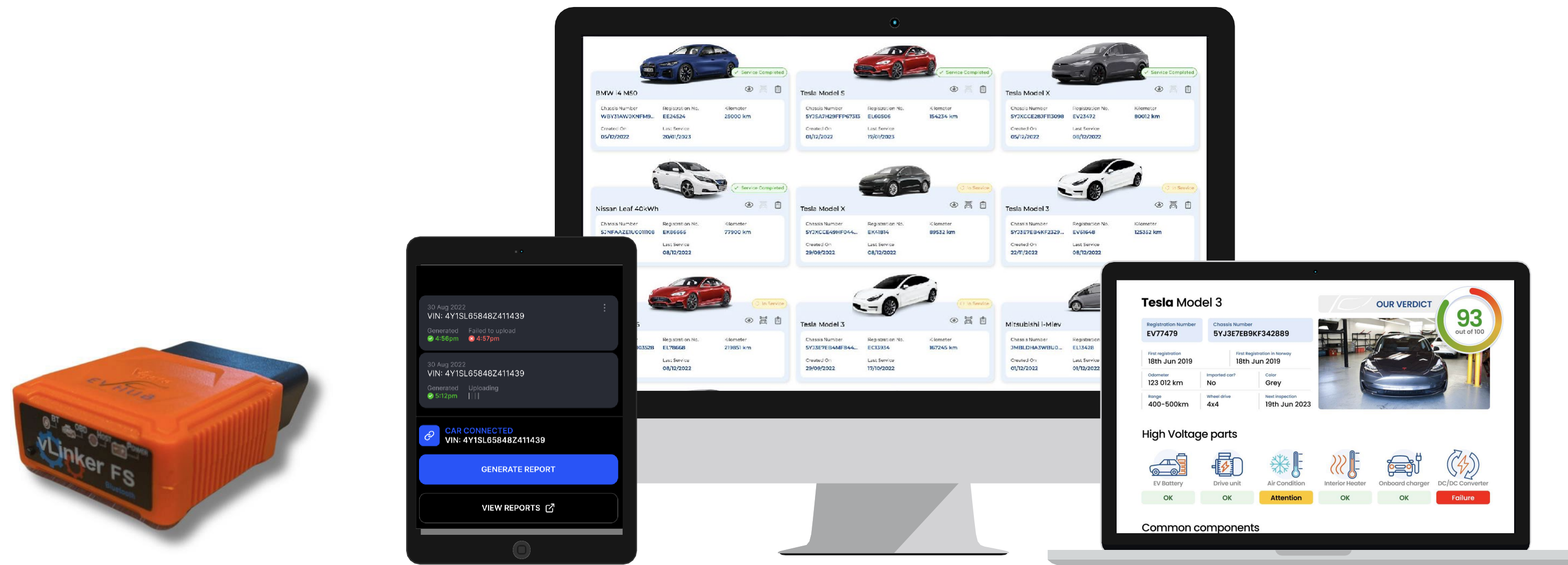### Repair options

STANDARD

This option may not be cheap, but uses only new parts from authorized dealers

≈ **71 000** NOK

NOT WORTH REPAIRING

PLANET FRIENDLY

30% CO2 reduction

This option is budget friendly, take renewed parts into account, and leaves less footprint on our planet.

≈ **39 000** NOK

RECOMMENDED OPTION

EVHUB

Failure - Pictures is key

3.11 Horn Sound Signal	Not Checked
3.12 Error Messages On Lights	OK
3.13 Reflex	OK
3.14 Headlight Washers	OK

4. Drive Unit ↓

4.1 Overall Condition	OK

4.2 Noise	OK

4.3 Leakage	Failure

Result
Estimated Repair Cost Standard
71000

4.4 Oil	OK

4.5 Coolant Liquid	OK

4.6 Bearing	OK

5. Drive Belt/Gear ↓

5.1 Drive Shafts	OK

5.2 Gear Exchange	OK

6. Electrical components ↓

6.1 12V Battery	OK
6.2 Visual Inspection Of High Voltage Cables	OK
6.3 Visual Inspection Of The All Batteries	OK
6.4 Charging Speed	OK
6.5 Charging Port	OK
6.6 Charging Cable Test	OK
6.7 Air Nozzles	OK
6.8 Heater	OK
6.9 Pollen filter	OK
6.10 Air Conditioning Compressor	OK
6.11 Capacitor	OK
6.12 Ac Pipes	OK
6.13 Central Lock Door Lock	OK
6.14 Airbag	OK
6.15 Instrument Lighting	OK
6.16 Heated Seats Cooling	OK
6.17 Heated Windows	OK
6.18 Cabin Fan Low High	OK

EV HUB App

EV HUB App – Introduction

Cloud-Powered Insights:

- Utilizes CAN bus to scan EVs and uploads data to the cloud
- Parses high voltage values to generate detailed inspection reports for mechanics

Real-Time Dashboard:

- Provides mechanics with live CAN bus data, offering instant access to various high voltage values
- Ideal for troubleshooting and assessing the condition of high voltage components

Comprehensive HV Support:

- Currently supports battery data, drive-unit, PTC Heater, and HVAC data
- Ensures a thorough analysis of crucial EV components.
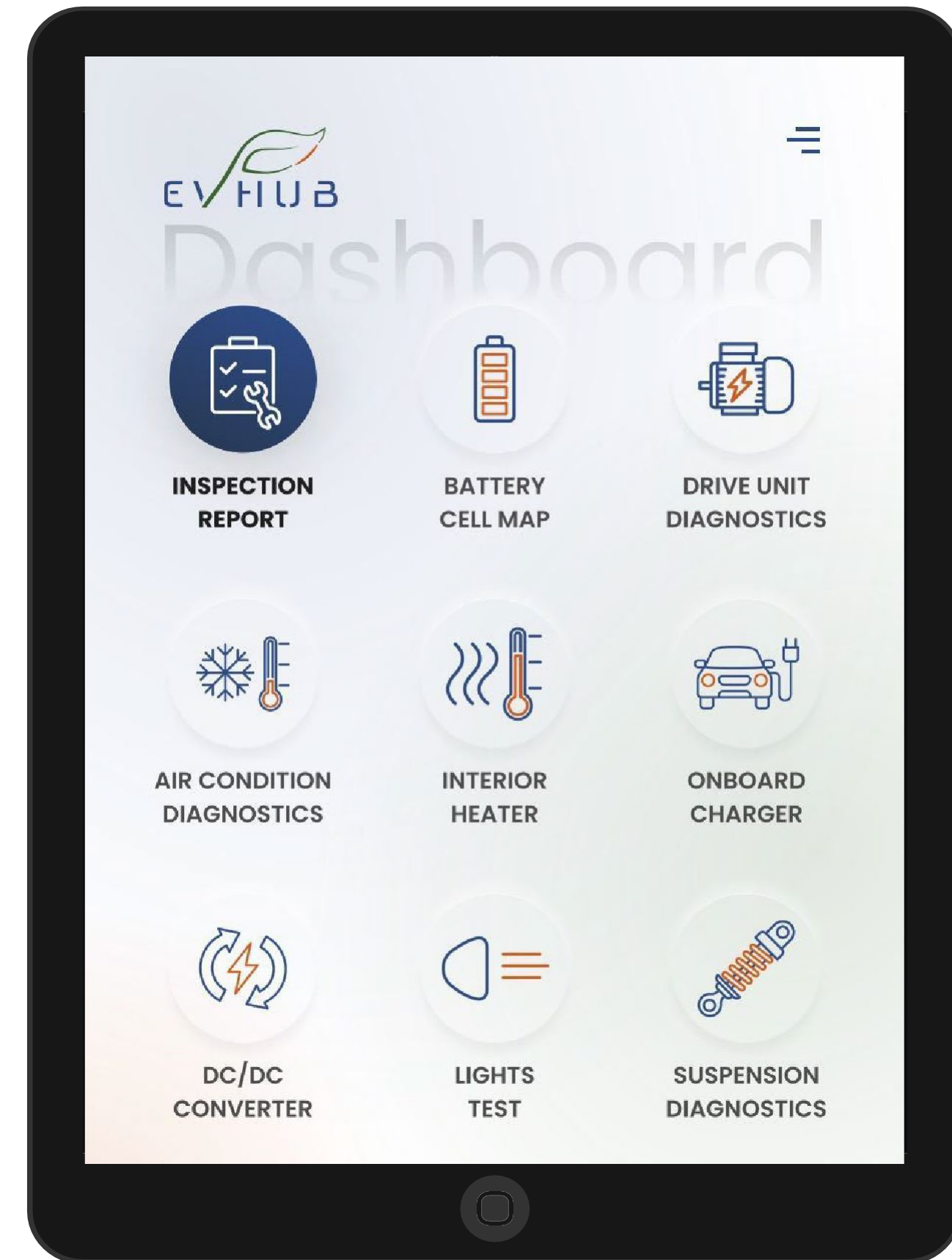
EV HUB App – Scan HV battery

1. Install "EV HUB App" on your Android tablet
2. Use OBD2 dongle from EV HUB
3. Use OBD2 adapter cable from EV HUB
4. Connect OBD2 adapter cable to car diagnostic port
5. Pair your phone with your OBD2 adapter
6. Start "EV HUB App"
7. Go to "Battery" section to see battery values
8. Go to BMS to see cell map (cell voltages)

Android

▼ Cell map

Cell temp max	Cell temp min	Cell temp avg
14.5 C	12.5 C	13.5 C
Cell volt max	Cell volt min	Cell imbalance
3.714 V	3.704 V	10.00 mV
CAC min	CAC avg	CAC max
210 Ah	211 Ah	213 Ah
CAC imbalance	CAC min brick id	CAC max brick id
3.50 Ah	1.00	1.00
Module 1		
3.708 V	3.708 V	3.708 V
3.708 V	3.708 V	3.708 V
Module 2		
3.710 V	3.710 V	3.710 V
3.711 V	3.710 V	3.710 V
Module 3		
3.710 V	3.710 V	3.710 V
3.711 V	3.710 V	3.710 V
Module 4		
3.704 V	3.704 V	3.703 V
3.703 V	3.704 V	3.704 V
Module 5		
3.702 V	3.700 V	3.701 V
3.702 V	3.702 V	3.701 V
Module 6		
3.703 V	3.702 V	3.703 V
3.703 V	3.704 V	3.704 V
Module 7		
3.705 V	3.704 V	3.704 V
3.705 V	3.705 V	3.705 V
Module 8		

REAL LIFE PROBLEM (RLP) COURSE

Real Life Problem (RLP) Course

WHAT IS IT?

EV Hub provides a Real Life Problem (RLP) course for Electric Vehicles.

The course provides both theoretical and practical knowledge about how to perform diagnostic and repairs on the most **relevant** EV models from the local market.

The goal is to educate and certify garages about understanding and inspecting EVs, including high voltage issues and solutions

Thank you!

You can reach us on

contact@evhub.no

Morten Zakariassen

CHAIRMAN