# E-JEEPNEY PROJECT

N.I.

A project backed by Arowana, Tembo, and Sarao Motors June 2025 – Asia Clean Energy Forum

# 1. TEMBO OVERVIEW

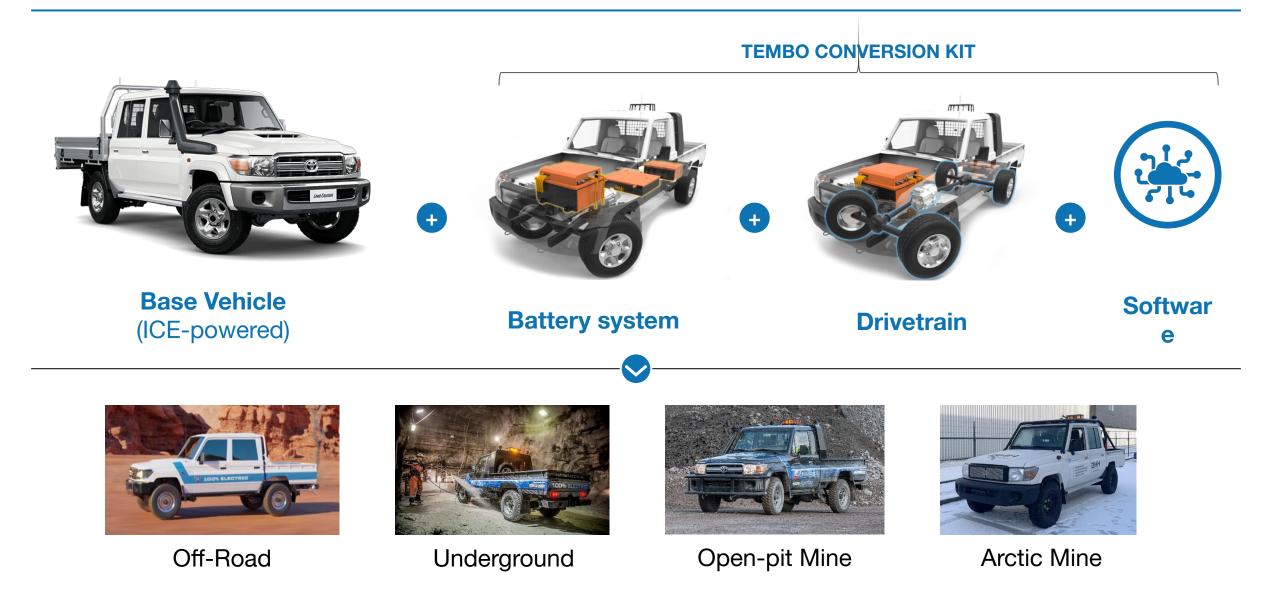
EMBO

LE

0%

ECTRIC

### We provide EV conversion kits to off-road vehicle fleet operators



### We have assembled a team of global EV experts and business leaders



## 2. JEEPNEY INDUSTRY

OC TRAFFIC ENFORCER

-

YW-700

I I I A PATE

#### The Philippine Jeepney: From a war relic to a top cultural icon



Surplus Willys Jeeps Retrofitted by Filipinos



Affordable public transport Urban and rural terrain



Creative expression Symbol of Filipino culture

>200k units on the road **>60m** 

regular passengers

~40% of public transportation

## Retrofitting is in the Jeepney's DNA, with most built from salvaged parts





#### **Labour-Intensive Building**

- Manually built body and chassis
- Off-the-shelf truck components

#### **Used Components Supply Chain**

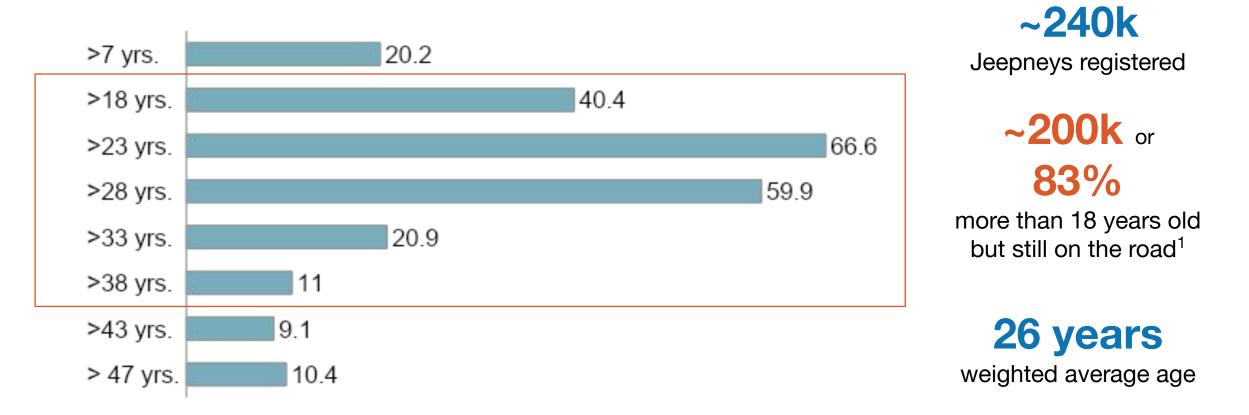
Aftermarket supply chain hubMost components are from Japan





## Jeepneys are very durable, with a national fleet averaging 26 years old

#### Jeepneys in the Philippines by age ('000 units)



Source(s): University of the Philippines – National Centre for Transportation Studies 1) Based on interviews with jeepney drivers and operators/transport cooperatives

## The durability of Jeepneys comes with emission problems





- Powered by old second-hand diesel engines
- Contribute up to 94% of PM 2.5 in urban areas
- Adverse respiratory and cardiovascular effects







#### **Government Modernisation Mandate**

- Replacement of units older than 15 years
  - Required: Euro-4-compliant or Electric



# 3. UNIQUE MODEL



## **Beyond Technology: A Cultural and Social Responsibility**

#### **Cultural Heritage**

Drivers Passengers Builders Mechanics

#### **Livelihood Preservation**



#### **Modernisation**









#### Sarao and Tembo: Blending Culture and Innovation



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