



Solutions+ Webinar: Valeo powertrain



SMART TECHNOLOGY FOR SMARTER MOBILITY

Agenda

1. Valeo SVA powertrain solutions
2. Demo city - 2020 status
3. Perspective

48V Offer



Proof of Concept

In development

Serial production

Markets

e-Drive system assembly

Micro urban electric mobility

up to 1kw continuous



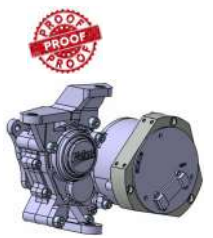
Small urban electric mobility

up to 6.5kw continuous

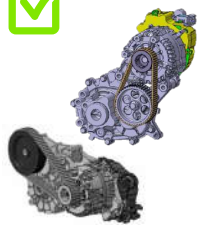


Light urban electric mobility

up to 14.3kw continuous



e-Bike4U



e-Access
Compatible with iBSG



e-Ride4U
Compatible with iBSG



e-Drive light
Compatible with DMG



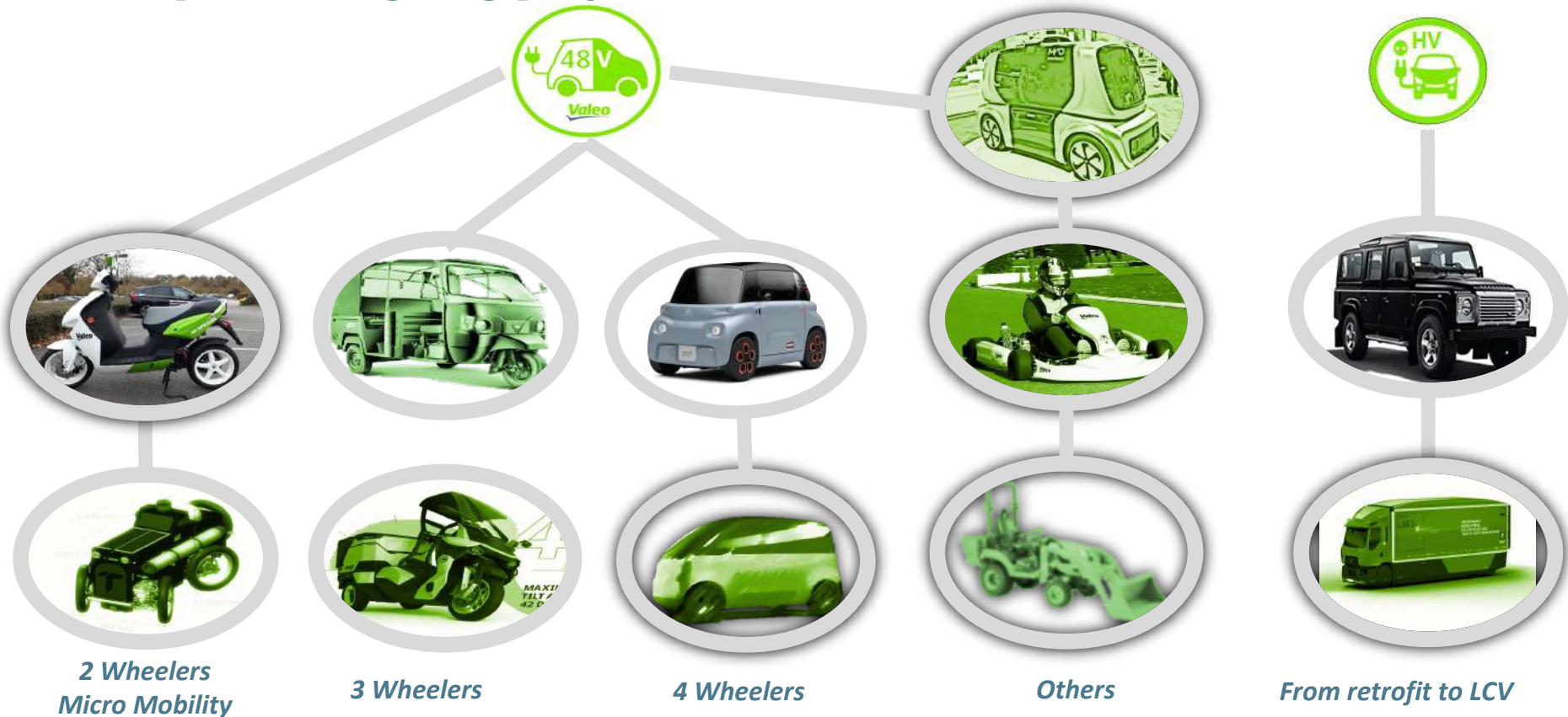
48V DC/DC Converter
1.8kW output



PCU



Example of on-going project



SVA for solutions+



From **ICE** public transport/delivery/shuttle

To adapted **EV** solutions



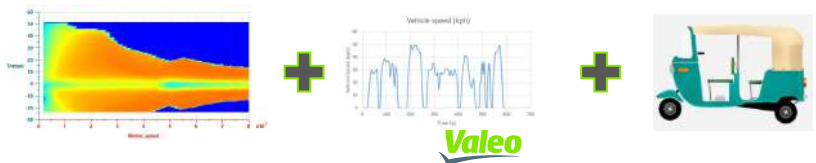
Experience in **retrofit** application and **system analysis**

Dedicated offer of **powertrain** well adapted to urban **small mobility**

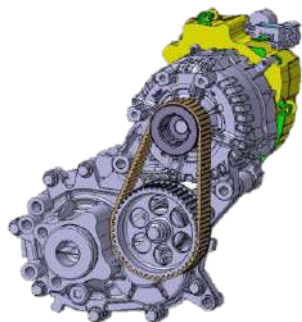
City needs

City	Vehicle type	Application	Characteristics
Kathmandu	e-tuktuk	Public transport	Max speed: 65kph Gross weight: 600kg Gradiability: 20%
Pasig	e-quad	Multipurpose small utility van	Max speed: 40kph Gross weight: 400kg Gradiability: 10%
Quito	e-quadricycle	Last mile freight	Max speed: 45kph Gross weight: 330kg Gradiability: 15%
Montevideo	e-3wheelers cargo	Urban logistics fleet	Max speed: 65kph Gross weight: 435kg Gradiability: 10%
	e-tricycle	Urban logistics fleet	Max speed: 65kph Gross weight: 680kg Gradiability: 12%

System simulations performed to choose the perfect fit solution in SVA portfolio



Requirements lead to one solution: **Valeo eAccess powertrain**

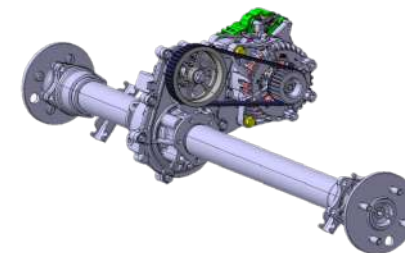


48V – Belt eDrive

Motor Compatibility	iBSG
Gear ratio	10 - 21: 1
Weight (kg)	22
feature	Open differential
Optional features	<ul style="list-style-type: none"> Locker system Rigid rear axle
Status	Mass production

Powertrain performance (air cooled)

Peak Output torque (Nm)	550 - 1100
Continuous Output torque (Nm)	160 - 350
Continuous power output (kW)	Up to 6.5
Peak power output (kW)	Up to 12.5
Oil quantity (cc)	300
Lifetime (hr)	>10 000
Maintenance (hr)	3500



Powertrains and user guides delivered to 3 city teams.
Next ⇒ Q/A live session with local teams

2021 planning

Demo extension to:

- Dar Es Salam
- Nairobi
- Kigali



Shipment of 3 additional powertrains

Montevideo (x2)

Dar Es Salam

2 wheelers powertrain study

Study integration of off the shelf solution in city needs

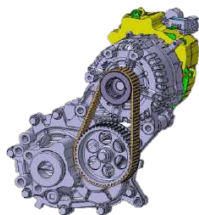


eTuk Tuk delivery

Deliver a few operational vehicle to start demo in the concerned cities

2 wheelers powertrain delivery

+ User-guides and learning





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