

DONGSHIN MOTECH

THE RELIABLE AUTO BIW PARTS & BATTERY PACKAGES SUPPLIER
AND MICRO MOBILITY MAKER



1. OVERVIEW - HISTORY

History

1995. Company founded as name of Dongshin Industry Co., Ltd.

**1996. Registered Tier 2 of Hyundai Motors
Registered to Samsung Techwin**

1999. KSA/ISO 9002 certified by KPC

1995~



Beginning Period

2000~

**2001. Registered Tier 1 of Renault Samsung Motors
Acquired QS 9000 System (KPC)**

**2002. Changed to 'Dongshin Motech Co., Ltd.
Established 2nd Plant at Jinrae, Gimhae**

2005. Established R&D Technical Center

2006. Acquired TS 16949 (SAI Global)

2007. Established Dongshin India in Pune, India

2008. Established 3rd Plant at Jinyoung, Gimhae

2009. Dongshin India Opening Ceremony

2005~



Growing Period



Take-off Period

2010~

**2010. GM Supplier of the Year 2010 & 2011 Award,
two times in succession**

Renault SM Supplier Quality Award 2010

Renault Supplier Quality Award 2010

**2011. Established Dongshin Motech Haman Plant
at Gaya, Haman**

Renault Alliance Quality Award 2011

2013. Battery Pack Case Development of LG Chem.

2016. LFD production (Mar.), HZG production (Sept.)

Established Dongshin in Nanjing, China

2017. Renault Samsung Motors 2016 Supplier of the Year

Under the establishment Dongshin in Wroclaw, Poland

2019. Renault TWIZY OEM Business

Renault Alliance Quality Award

2020. Dongshin Poland Opening Ceremony

CARVER BR1 Business

1. OVERVIEW – AFFILIATE STRUCTURE

AFFILIATE COMPANIES

Automotive



Doshin Motech
Doshin NT

Micro Mobility



Busan Factory

Factory Automation



DS ONE

Battery Pack



Dongshin Electric Vehicle

Haman factory
Poland SP.Z.O.O
China Nanjing



BSP Solution
(23년 2월)

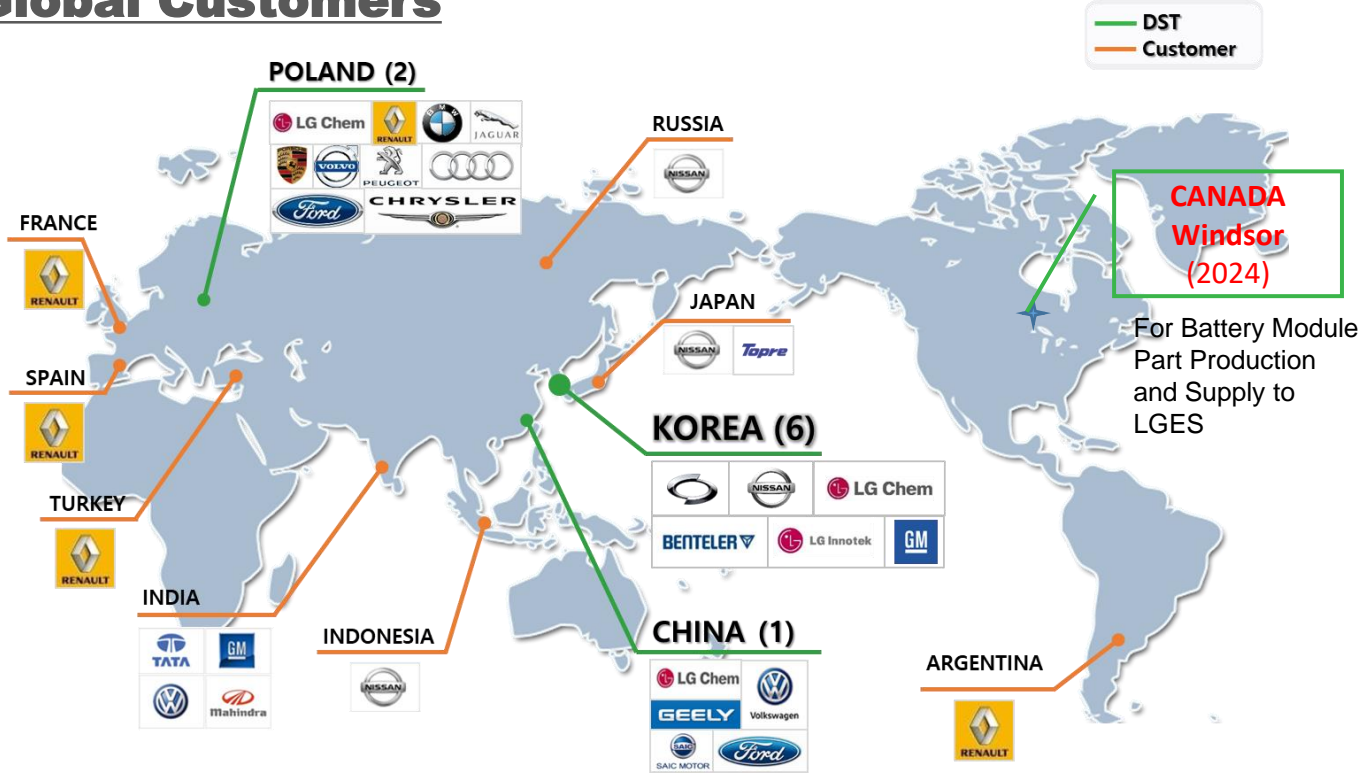
Information Technology



BSP Solution
(21년 9월)

1. OVERVIEW – CUSTOMERS & GLOBAL PLANTS

Global Customers




BUSAN PLANT
 Ground area : 11,102 m²
 Total floor area : 11,102 m²
 Location : Noksan, Busan
 Products : Electric vehicle



2nd PLANT
 Ground area : 9,212 m²
 Total floor area : 3,999 m²
 Location : Jinrae, Gimhae
 Products : Automotive body parts, Heavy machinery parts



3rd PLANT
 Ground area : 4,741 m²
 Total floor area : 5,604 m²
 Location : Jinyoung, Gimhae
 Products : Automotive body parts



MIRYANG PLANT
 Ground area : 9,500 m²
 Total floor area : 3,430 m²
 Location : Bubuck myun, Milyang
 Products : Automotive body parts



DONGSHIN MOTECH NANJING, CHINA
 Ground area : 17,224 m²
 Total floor area : 5,167 m²
 Location : Nanjing, China
 Products : Automotive body parts, Automotive battery packages



HEAD QUARTER & MAIN PLANT
 Ground area : 12,371 m² | Location : Jinyoung, Gimhae
 Total floor area : 9,935 m² | Products : Automotive body parts



DONGSHIN MOTECH HAMAN
 Ground area : 20,499 m² | Location : Haman, Gyeongnam
 Total floor area : 7,504 m² | Products : Automotive battery packages



DONGSHIN MOTECH TUŁOWICE, POLAND
 Ground area : 13,000 m²
 Total floor area : 2,200 m²
 Location : Tułowice, Poland
 Products : Automotive body parts, Automotive battery packages



DONGSHIN MOTECH WROCLAW, POLAND
 Ground area : 18,980 m²
 Total floor area : 13,344 m²
 Location : Wrocław, Poland
 Products : Automotive body parts, Automotive battery packages

Body In White



2. PRODUCTS - AUTOMOTIVE BATTERY PACK HOUSING PARTS

Automotive Battery Pack Pars

Battery Case

"P" company HY PHEV



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Pack2 Top Cover Assy
	Volume	31,000 Vehicle / year
	Size	1,148mm x 398mm x 208mm
	Weight	9.0kg
	Remark	"P" company C-SUV Battery Package

PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Lower Case Assy
	Volume	PACK1 : 13,000 Vehicle / year PACK2 : 31,000 Vehicle / year
	Size	1,148mm x 426mm x 134mm
	Weight	19.5kg
	Remark	"P" company D-Sedan & C-SUV Battery Package

"P" company HY PHEV



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Pack1 Top Cover Assy
	Volume	13,000 Vehicle / year
	Size	1,148mm x 398mm x 147mm
	Weight	7.5kg
	Remark	"P" company D-Sedan Battery Package

PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Lower Case Assy
	Volume	PACK1 : 13,000 Vehicle / year PACK2 : 31,000 Vehicle / year
	Size	1,148mm x 426mm x 134mm
	Weight	19.5kg
	Remark	"P" company D-Sedan & C-SUV Battery Package

"V" company 517H



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Enclosure ASM
	Volume	39,000 Vehicle / year
	Size	1,403mm x 328mm x 369mm
	Weight	11.7kg
	Remark	"V" company XC90 Battery Package Deep Drawing

PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Tray ASM
	Volume	39,000 Vehicle / year
	Size	1,479mm x 449mm x 340mm
	Weight	14.1kg
	Remark	"V" company XC90 Battery Package

"V" company HORIZON



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Enclosure ASM
	Volume	12,000 Vehicle / year
	Size	1,116mm x 1,188mm x 338mm
	Weight	23kg
	Remark	"L" company Battery Package

PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Tray ASM
	Volume	12,000 Vehicle / year
	Size	1,174mm x 1,250mm x 98mm
	Weight	49kg
	Remark	"L" company Battery Package

"S" company BP34



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Pack Tray Assy
	Volume	20,000 Vehicle / year
	Size	1,165mm x 1,006mm x 58mm
	Weight	23.3kg
	Remark	"S" company ROEWE950 Battery Package

U-Frame, Cell Cover

"R" company EV



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	U-frame & Top plate
	Volume	1,500,000 Module / year
	Remark	

"R" company Cell cover



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Cell cover Upper / Lower
	Volume	3,400,000 set / year
	Remark	

Etc (Cooling Pin, End Plate)

"R" company Battery



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	End plate, Cooling fin, etc.
	Volume	16,000 Vehicle / year
	Remark	

"P" company 12V



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	End Plate & Lower plate, Strap
	Volume	90,000 Vehicle / year
	Remark	

"C" company RU



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	End plate, BMS Case
	Volume	30,000 Vehicle / year
	Remark	

"B" company 48V



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	End Plate Assy & Cooling fin
	Volume	300,000 Module / year
	Remark	

"B" company 12V



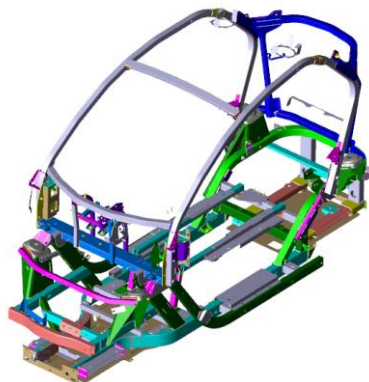
PRODUCT IMAGE	DIVISION	SPEC
	Part Name	End Plate Assy
	Volume	300,000 Module / year
	Remark	

"F" company 48V



PRODUCT IMAGE	DIVISION	SPEC
	Part Name	Mounting brace
	Volume	120,000 Vehicle / year
	Remark	

X09 – RENAULT TWIZY



2 kind of Top Speed: 80km/h (Europe & Korea) & 45km/h (Europe)

Item	Specification
Length (mm)	2,340
Height (mm)	1,455
Width (mm)	1,230
Weight (kg)	540
Charging time (220V)	80% : 3.0Hr 100% : 3.5Hr
Top speed	80 km/h
Range	55 km
Battery type (6.4Kw)	Li-PB
Motor (capacity)	12.6KW
Volume (passenger)	75 L

BR1 – CARVER (NLD)



**3 kind of Top Speed: 80km/h & 45km/h (Europe)
60km/h (Korea)**

Item	Specification
Length (mm)	2,890
Height (mm)	1,490
Width (mm)	980
Weight (kg)	330
Charging time (220V)	80% : 2.5Hr 100% : 3.5Hr
Top speed	80 km/h
Range	120 km
Battery type (7.1Kw)	Li Ion Cylindrical
Motor (capacity)	2 HUB Motors (3KW)
Volume (passenger)	75 L
Volume (cargo)	500L (80 kg)

X09 – RENAULT TWIZY ASSEMBLY LINE (BUSAN PLANT)

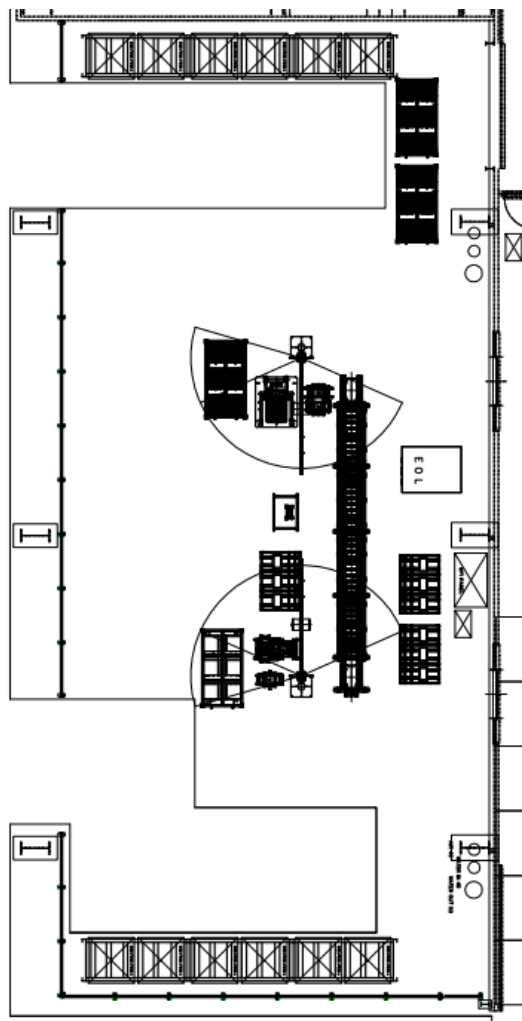


Production Capacity: 5,000 Veh/Year

CARVER ASSEMBLY LINE (KIMHAE PLANT)



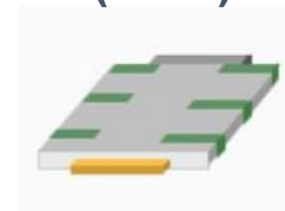
Production Capacity: 3,000 Veh/Year



**X09 – RENAULT TWIZY
BATTERY
(BUSAN PLANT)**



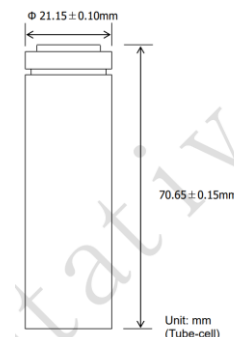
**POUCH CELL
(LGES)**



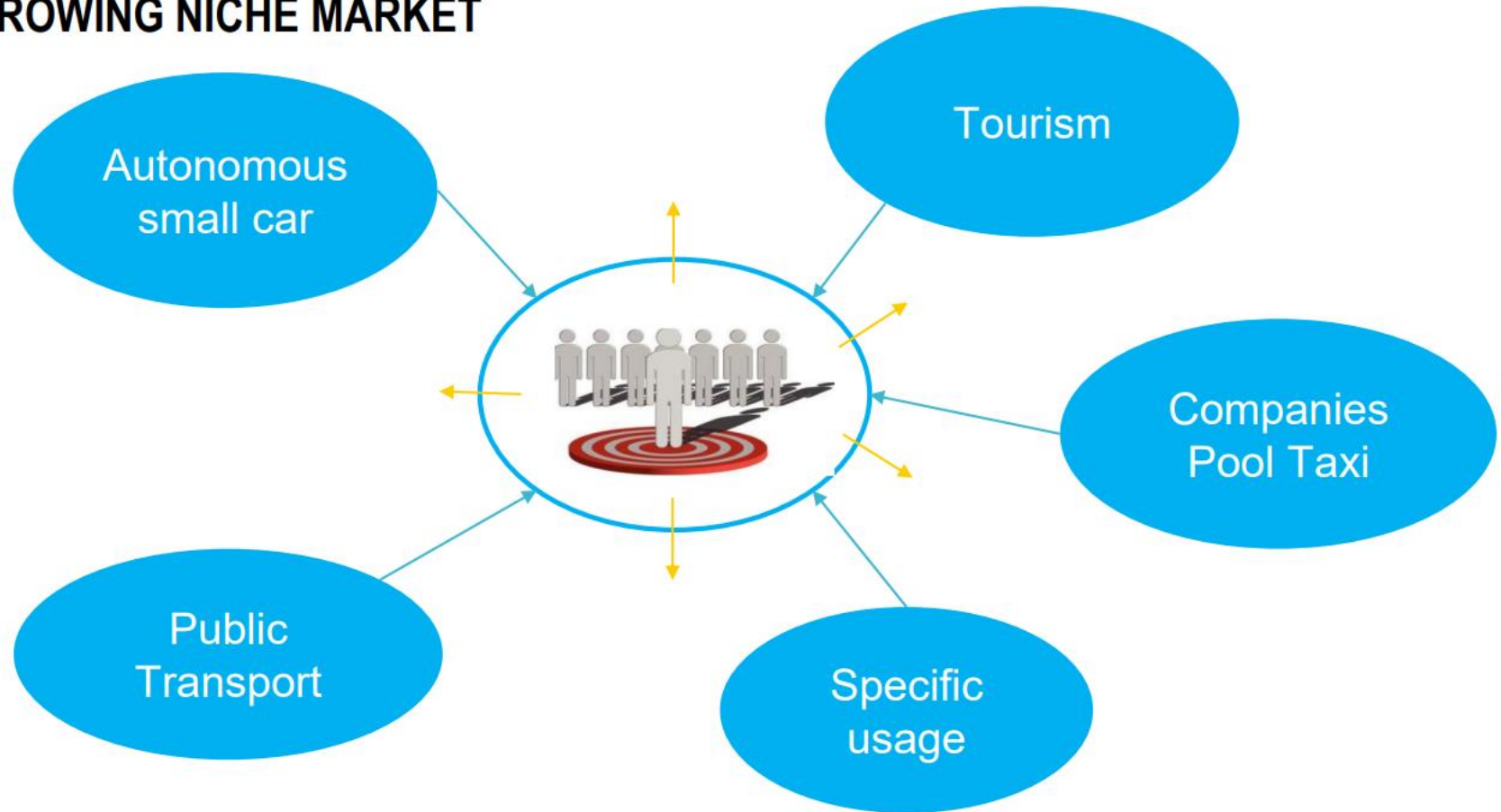
**CARVER BATTERY
(KIMHAE PLANT)**



**CYLINDRICAL CELL
(LGES & SDI)**



A GROWING NICHE MARKET

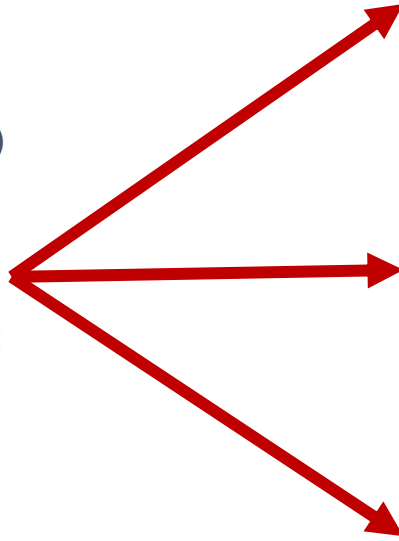


3. NEW BUSINESS – PLATFORM BUSINESS FOR MICRO MOBILITY

Confidential

Customer Needs (Developed by customer)

TWIZY Platform (Produced by DST)



Positive opinion expected from Renault to make platform business from end of production of TWIZY (in 2023)

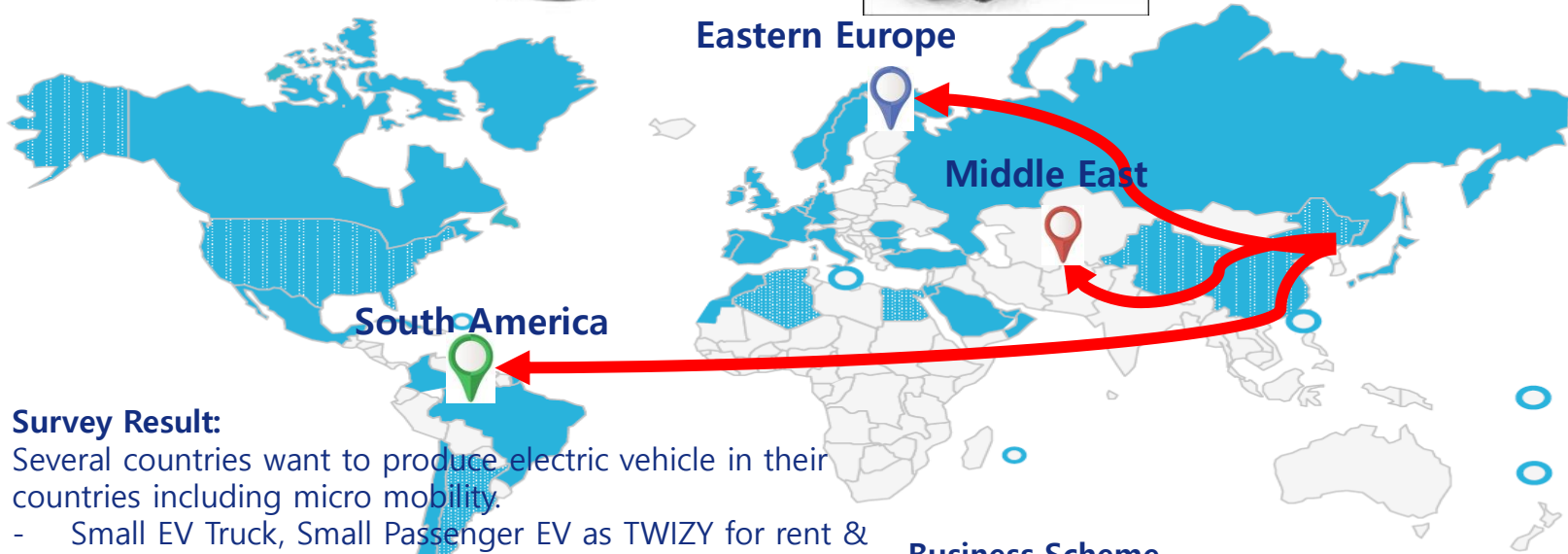
- **Scheme: Production of Platform (Under-body) by DST**
Development of Upper-body and assembly by customers

3. NEW BUSINESS – PLATFORM BUSINESS FOR MICRO MOBILITY

Confidential

➤ TWIZY POM Business Scheme (without Renault Badge)

- Export of Platform and sub components to interesting countries for micro mobility production in their countries
- Target schedule: 2025 years (after taking agreement from Renault)



Survey Result:

Several countries want to produce electric vehicle in their countries including micro mobility.

- Small EV Truck, Small Passenger EV as TWIZY for rent & leisure, Courier Car

➔ Interesting countries:

- Bulgaria, Pakistan, UAE, Brazil
- **Under survey** at Asia countries as Singapore, Indonesia, Vietnam, Malaysia

Business Scheme

- ✓ DST set up the final vehicle assembly line at each countries
- ✓ Platform and sub assembly components are exporting to each countries as CKD / SKD
- ✓ Upper body will be designed by themselves

PRODUCT BY MOBILIZE RENAULT IN MOROCO (2024)



Positive opinion expected from Renault to assemble in Korea at current TWIZY assembly line

- **Scheme: OEM Production by DST (2025)**

**THANK
YOU**