

# *China Practice on EV Supervision*

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01

*Electric Vehicles ( EVs )*

02

*Policy/Regulation*

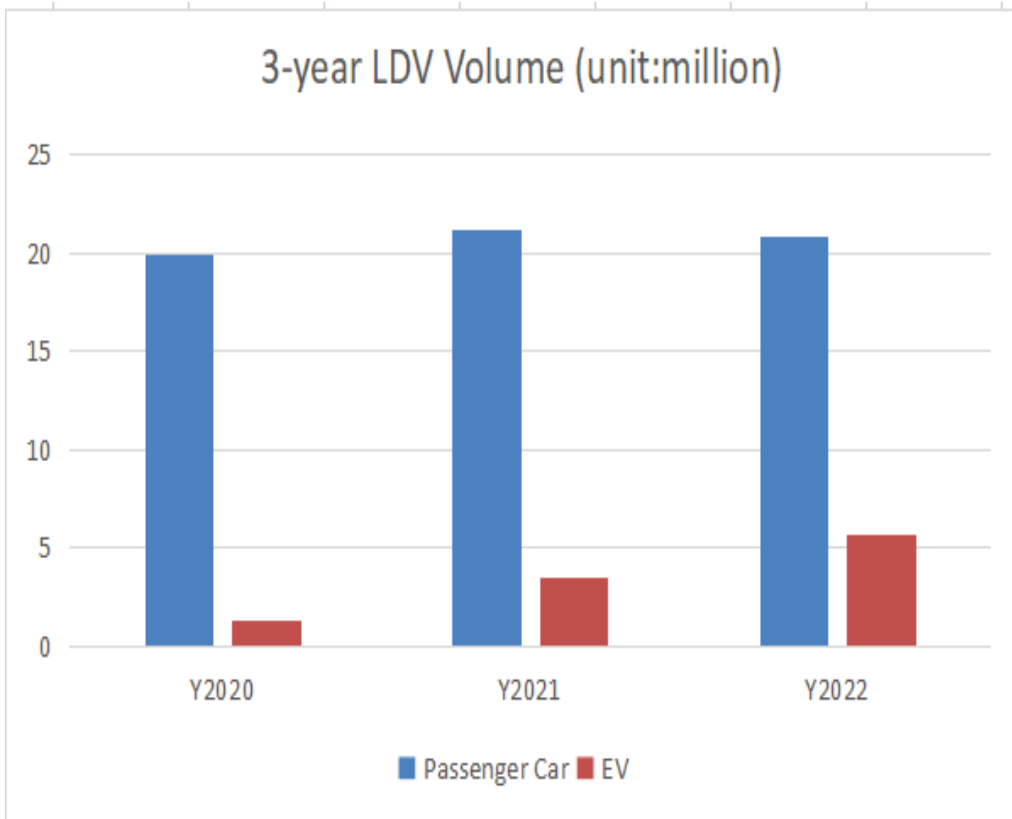
03

*PTI for EVs*

04

*Cosber Solutions for EV PTI*

# Electric Vehicles ( EVs )



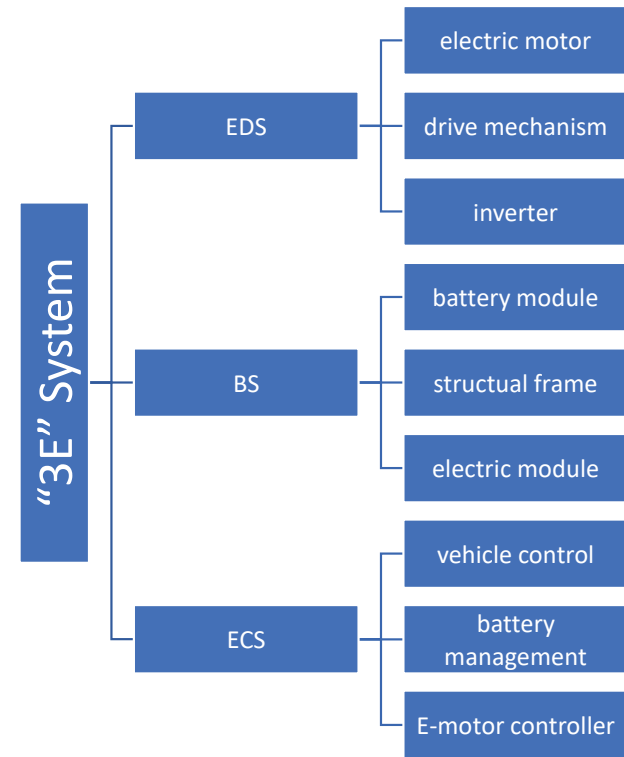
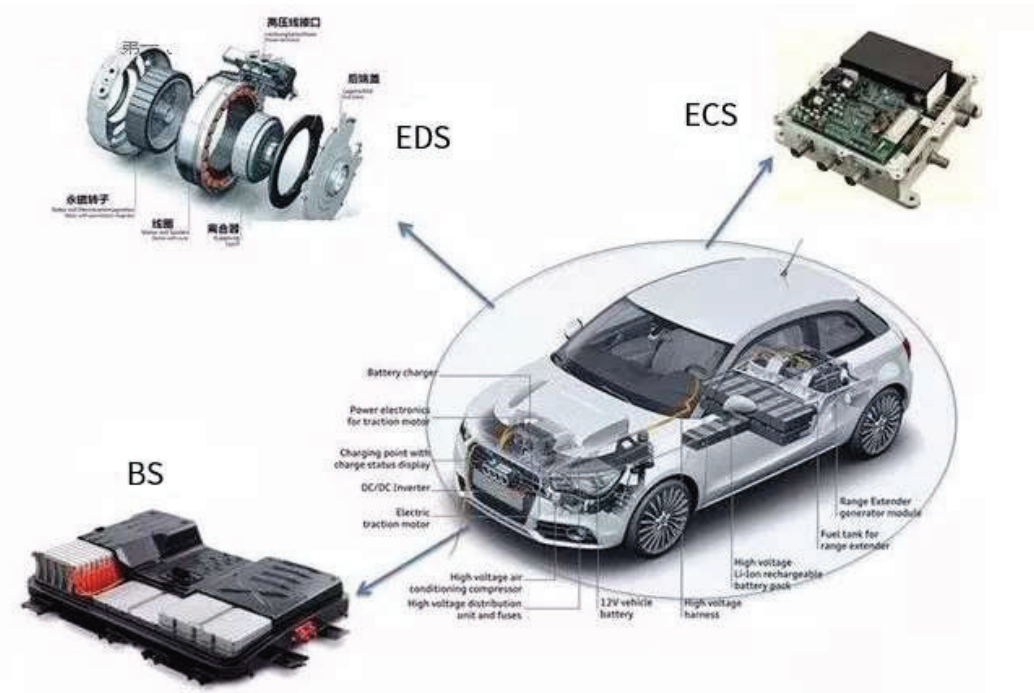
- New-energy vehicle: 16+ million
- Pure EV: 12+ million,



# Electric Vehicles ( EVs )



3E system moduel of EV: E-drive system(EDS), E-control system(ECS) and battery system (BS)



## R&D

3E-module Test



Complete Vehicle  
Test

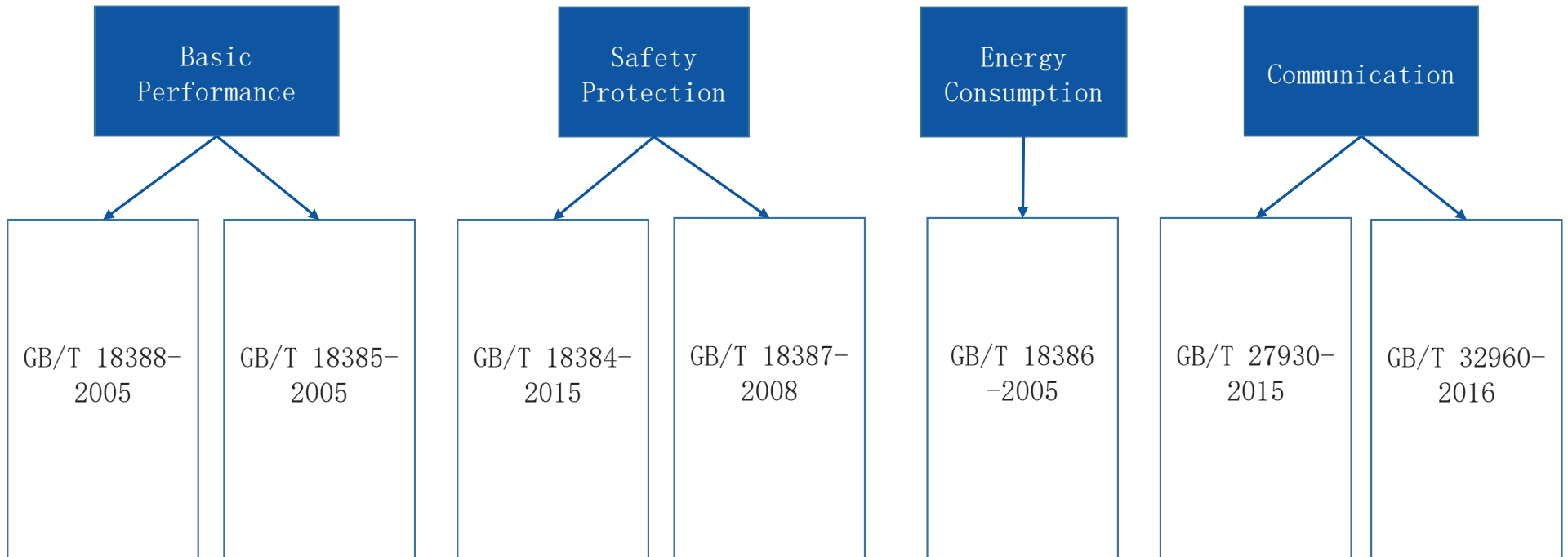
## In-use

All-life On-line  
Supervision

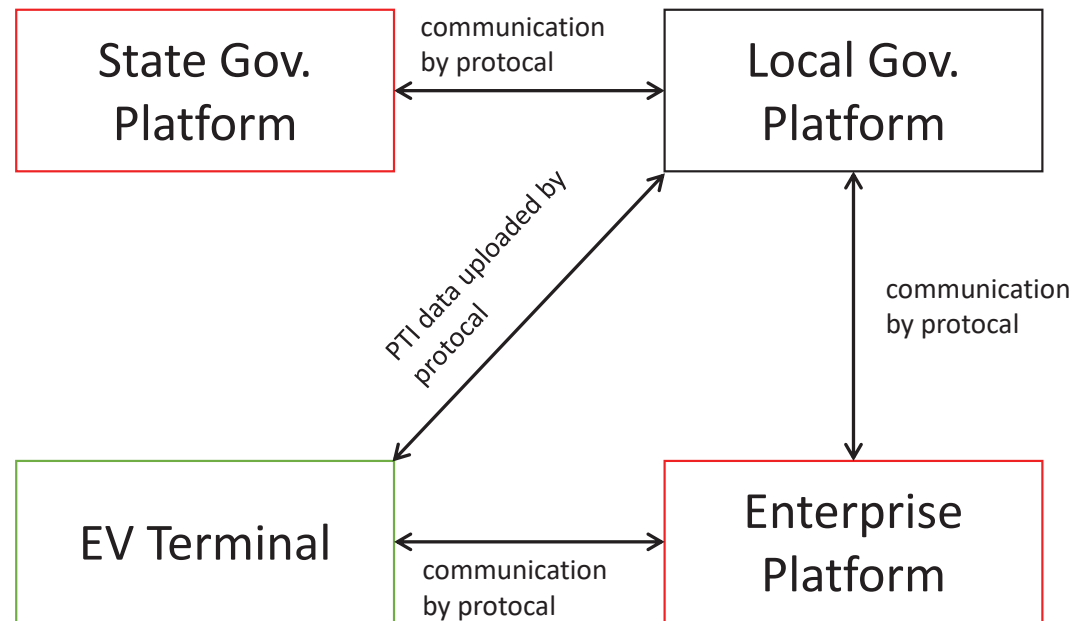


Off-line PTI

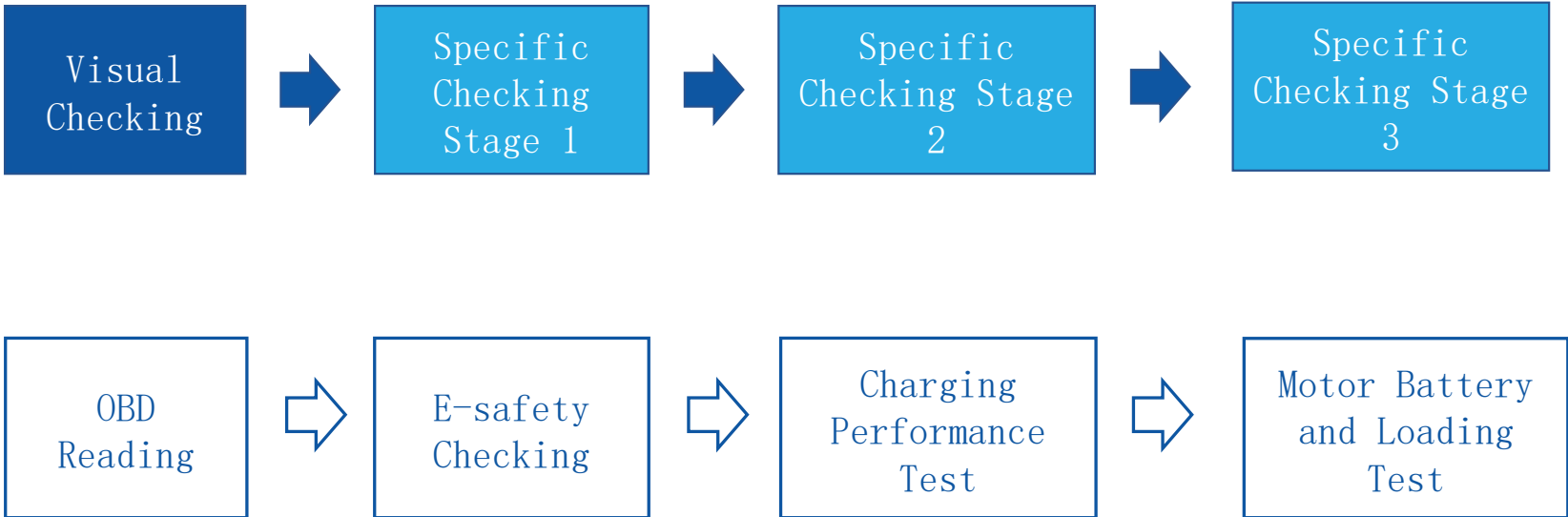
Besides routine active/passive safety, sound and chassis test, the compulsory homologation test on EV also include complete set test regulated by the specific standard:



To enhance the safety supervision on EV, China has introduced state-local-enterprise system also named 3-level system architecture since 2016 , and the enterprise is the primary responder in this system.



Besides the routine PTI rule, based on Online-Offline mode, the risky vehicle selected by the big-data platform is required to accept inspection in PTI station including **electricity safety, charging, motor battery and loading test.**



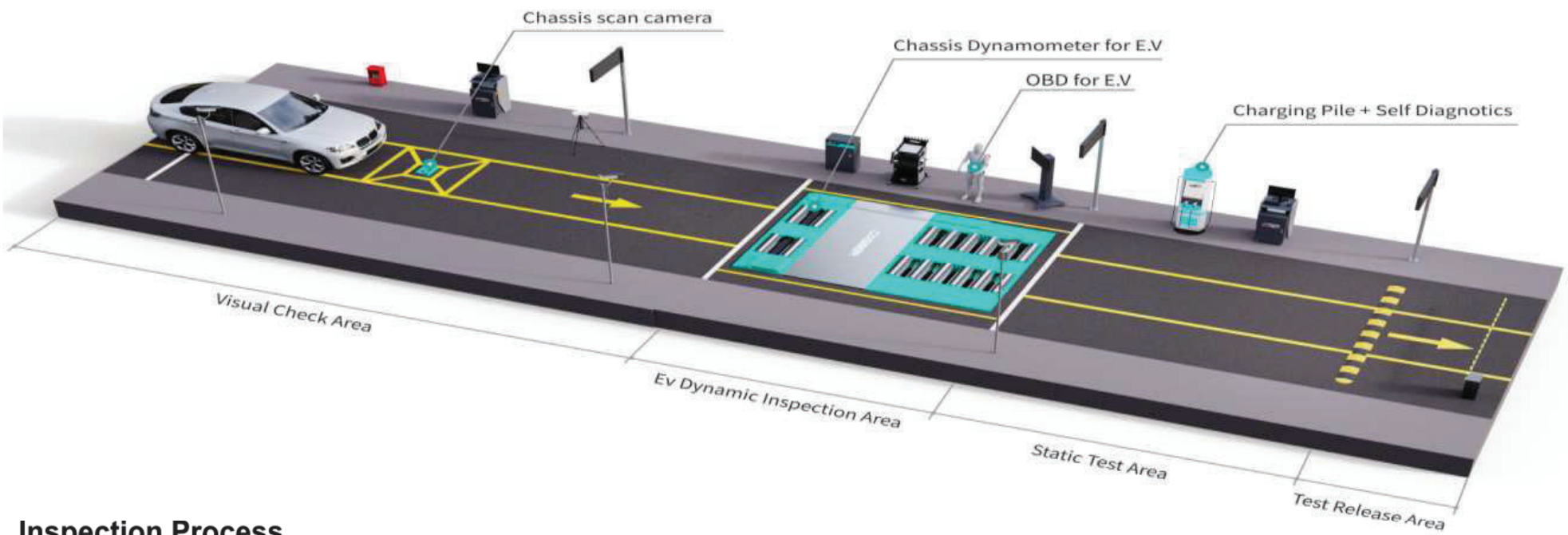


No.	Inspection Item		Suitable for the Vehicle Type			
			Passenger Vehicle		Truck (not include 3-wheel motorcycle), Specific-use vehicle	
			Seats no.<9	Other type		
1	BS Safety	Charging	Max. Temp.	●	●	●
			Max. Voltage of Single Cell	●	●	●
			Pole Voltage Gap of Single Cell	●	●	●
			Indication Accuracy of BMS Total Voltage	●	●	●
	Discharging	Max. Temp.	○	●	●	
		Min. Voltage of Single Cell	○	●	●	
	Capacity Retention Rate	○	○	○		
2	EDS Safety	Driving Motor Temp.	○	○	○	
		Motor Controller Temp.	○	○	○	
3	ECS Safety	DC/DC Inverter Temp.	○	○	○	
4	Electric Safety	Charging Socket Insulation Resistance	●	●	●	
		Potential Equalization	●	●	●	
Remark 1: “ ● ” is a must, “ ○ ” is optional. Remark 2: Charging of BS safety and Potential Equalization(between shell) is not applicable to vehicle without DC charging pole.						

◆ Declared for public discussion and feedback before official releasing.

No.	Inspection Item	Equipment&Device	Remark
1	BS Safety	Charging Performance Tester + EV Chassis Dynamometer + OBD Reader	Dynamometer is a must for discharging test
2	EDS Safety	EV Chassis Dynamometer + OBD Reader	
3	ECS Safety		
4	Eletric Safety	Megohm Meter, Milliohm Meter	or other device with the required function

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## Inspection Process



## ◆ Charging Performance Tester



## ◆ EV Chassis Dynamometer





# Thank you for your Attention!

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