

Decade of change in automotive business

Electric Vehicle

The next Episode of Thai automotive Industry

ยานยนต์ไฟฟ้า ก้าวต่อไปของอุตสาหกรรมยานยนต์ไทย

Presented by Industrial Research Division

นำเสนอโดย แผนกวิจัยอุตสาหกรรม

Next Generation Vehicle Research Center | ศูนย์วิจัยอุตสาหกรรมยานยนต์สมัยใหม่

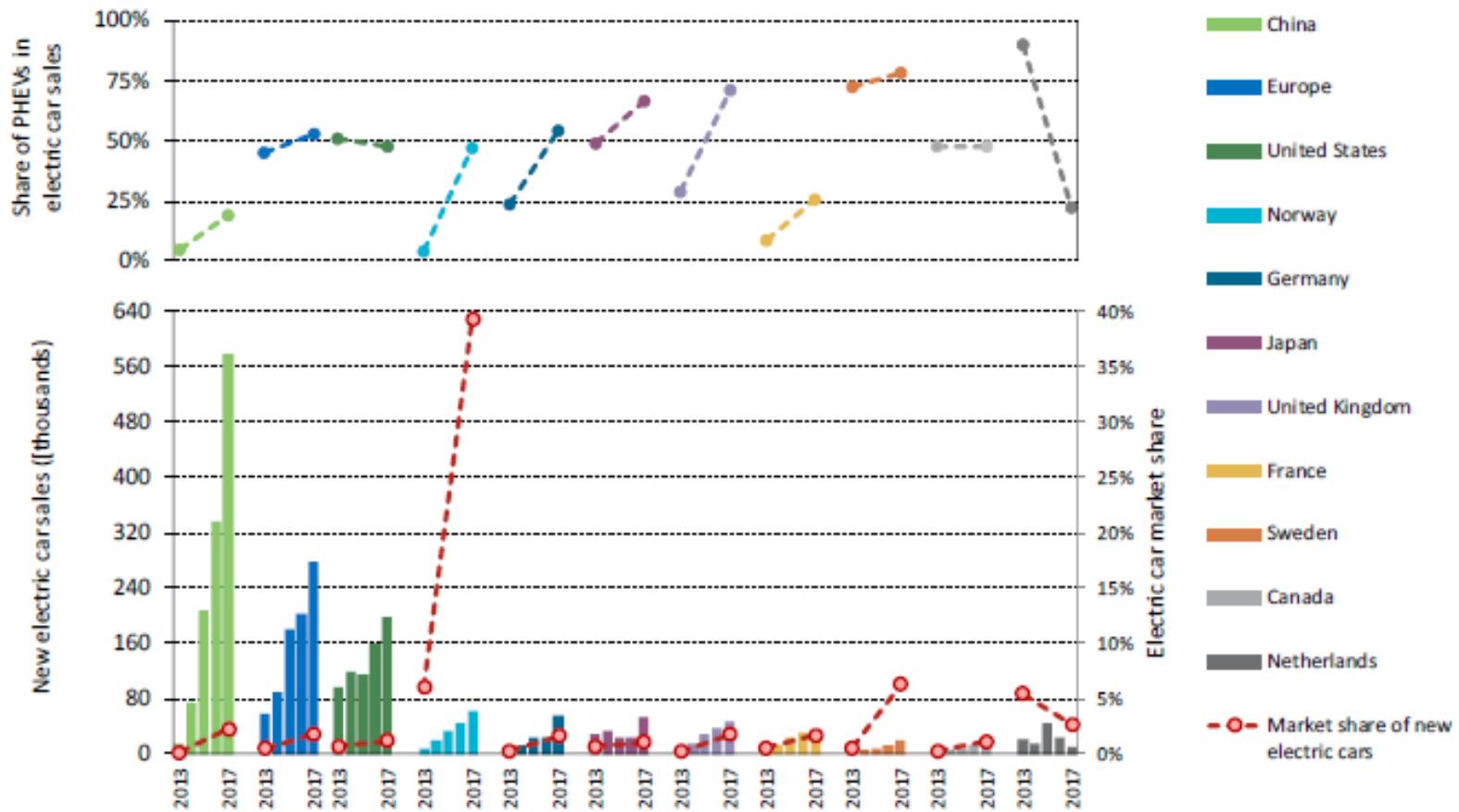
Automotive Think Tank



Impact of electric vehicle on Thai automotive supply chain

1. EV promoting policy in Selected countries

EV (PHEV, BEV) car sales and market share



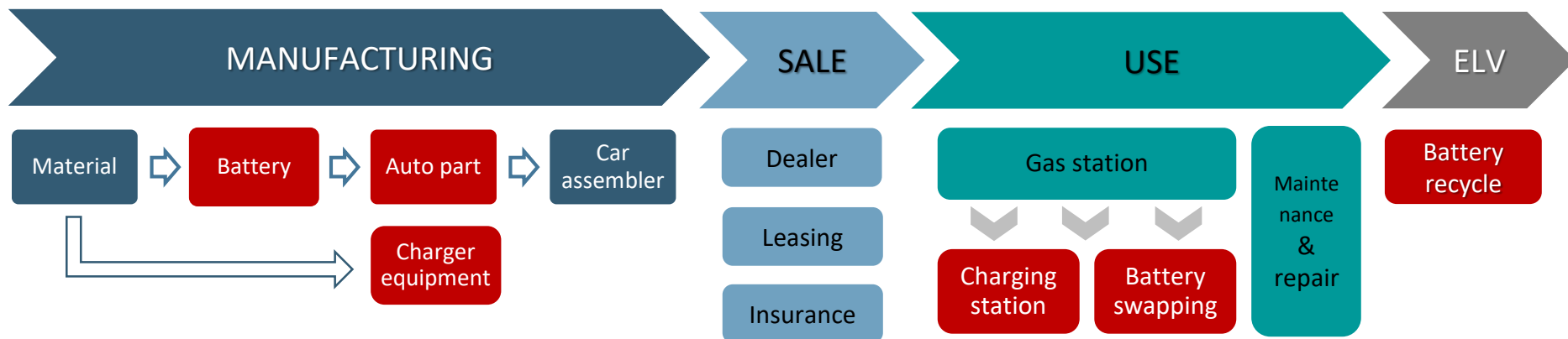
1. EV promoting policy in Selected countries (Continued)

EV key policies

		Monetary measures	Non-monetary measures
Demand	Vehicle	<ul style="list-style-type: none"> - Tax exemptions - Purchasing price subsidy 	Special privilege Ex. Special lane, toll fee exemption, EV parking lots
	Charging	<ul style="list-style-type: none"> - Free of charge in charging costs 	<ul style="list-style-type: none"> - Charger installation - Mobile application and services - Charging installation mandatory in new building
Supply	R&D	R&D funds	R&D consortium
	Human Resource Development		Vocational and Education curriculum
	Manufacturing	Soft loan	
	Awareness		Pilot project& Pilot city

2. EVs and the impact on Thai automotive value chain

Thai automotive value chain

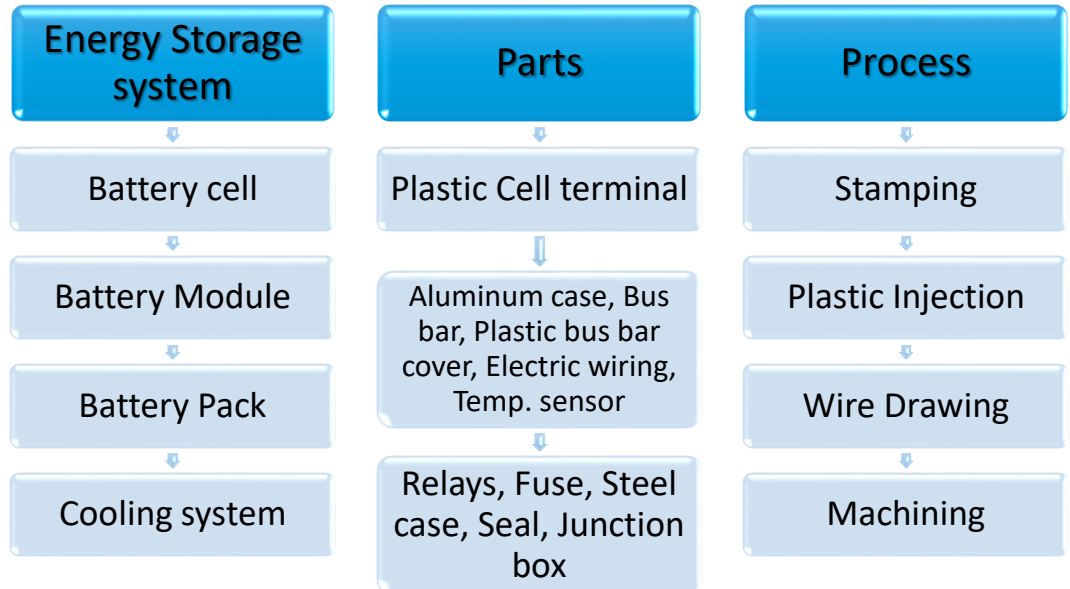


3. EV trends: Auto parts maker modification

Process		Common	Transform			
			Motor	Battery	Lightweight	Internet of Things
Assembly		x	x	x	x	
Metal process	Forging	x	x			
	Machining	x	x	x	x	
	Stamping	x	x	x	x	
	Welding	x			x	
	Casting	x			x	
	Heat treatment	x	x	x	x	
	Surface treatment	x	x	x		
Painting & EDP		x				
Plastic process		x			x	
Rubber process		x			x	
Textile process		x			x	
Electronic component fabrication						x

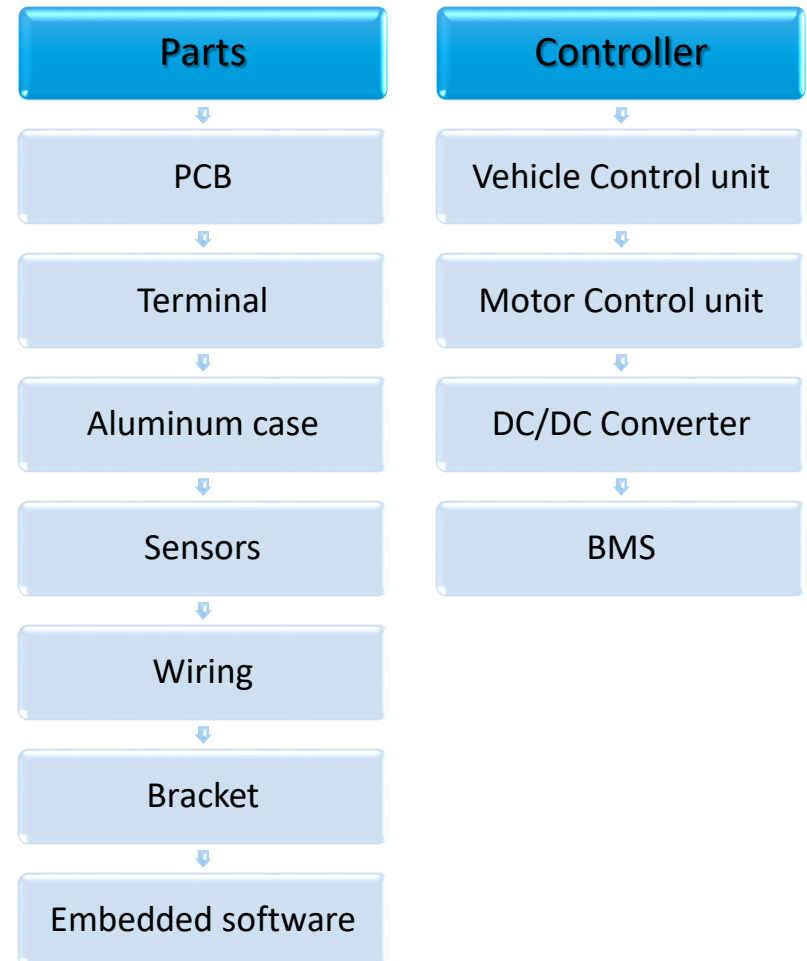
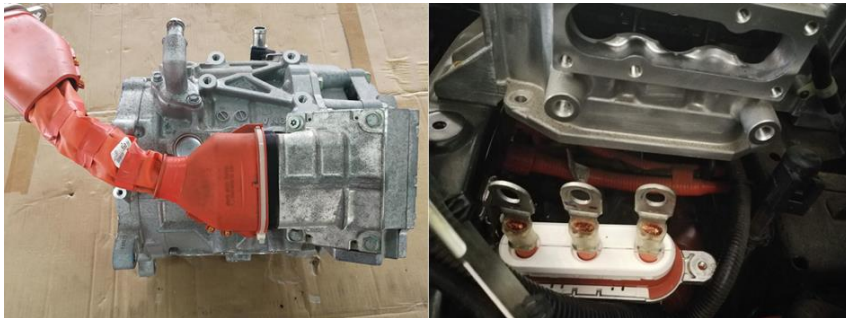
4. The rising opportunity of automotive transformation

Battery Pack



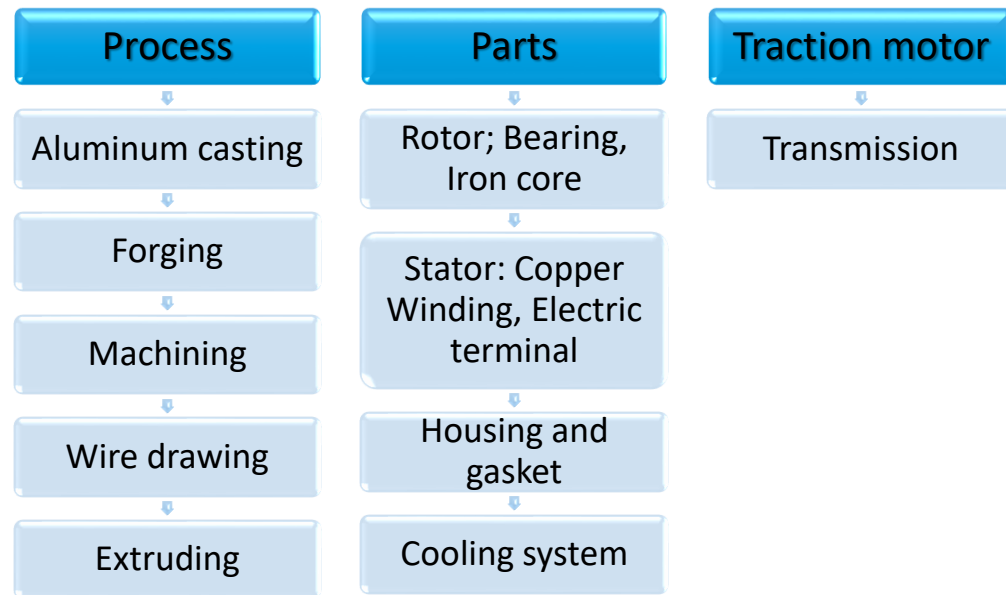
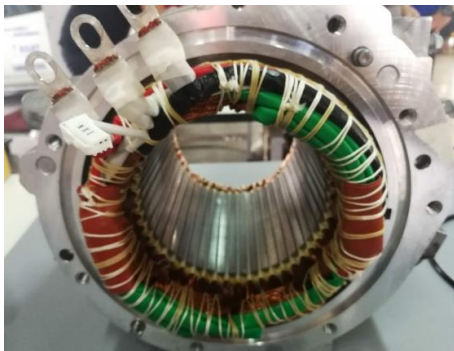
4. The rising opportunity of automotive transformation *(continued)*

Inverter and Connectors

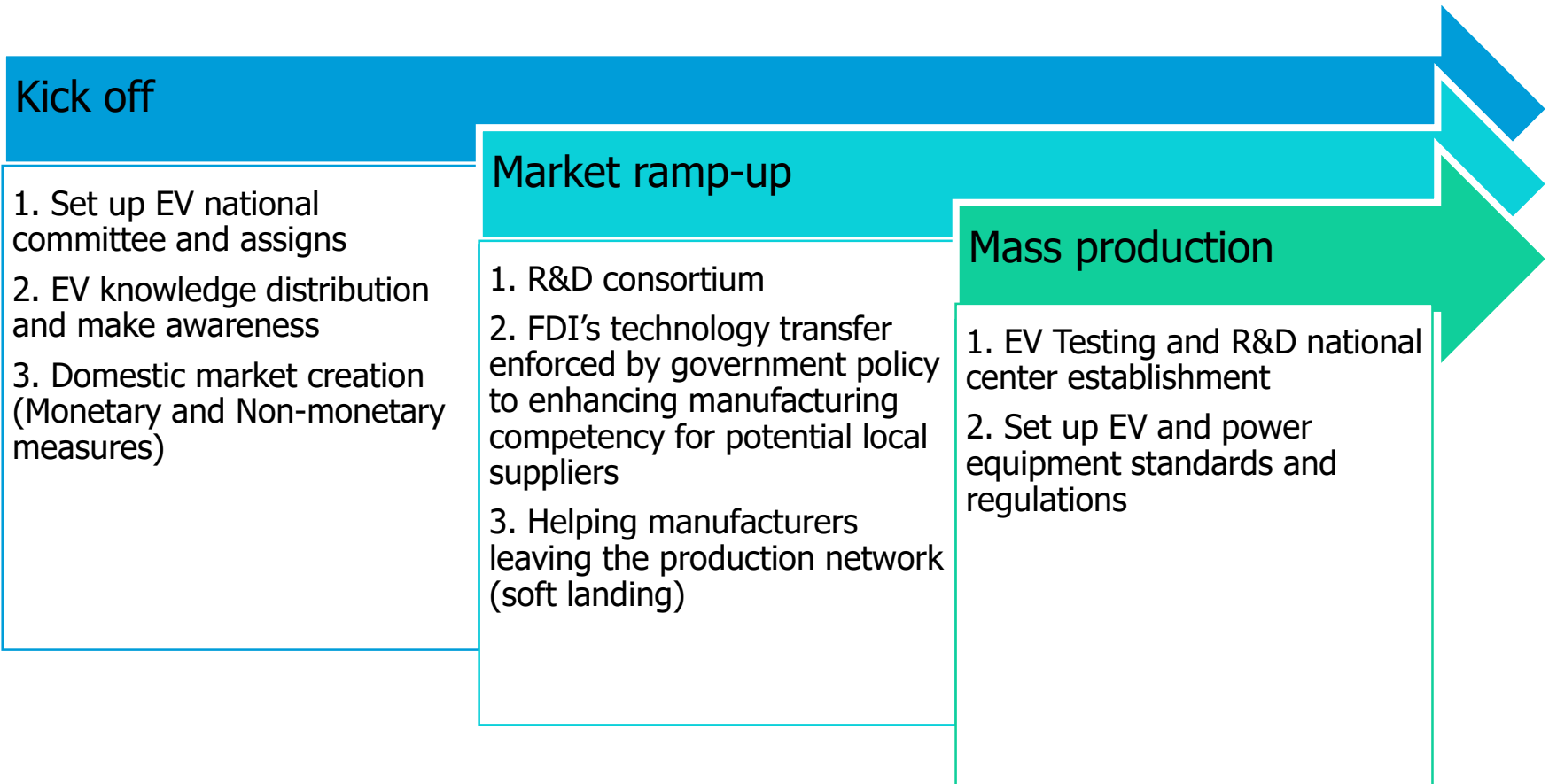


4. The rising opportunity of automotive transformation *(continued)*

Electric Motor



5. Possibilities of EV policy implementations



6. Next generation vehicle industry readiness roadmap



Vision and Master plan of National automotive Industry

Activities	Oct-Dec'18	Jan-Mar'19	Apr-Jun'19	Jul-Sep'19
Technology foresight	★	★		
Public hearing			★	
Master plan launched				★

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CHANGE FOR GROWTH

