

22-23 JUNE 2016

BITEC • BANGKOK
THAILAND

AUTOMOTIVE **SUMMIT 2016**

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Co-organized by:





ETAS

Thanawai Srisompong

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Content	
1	Introduction to ETAS
2	ECU development
3	EV ECU
4	Tools for EV testing

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Content

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Leading Provider of Solutions and Services for Embedded Systems

- ETAS with over 850 associates is part of the Bosch Group
- ETAS is truly international – with 23 offices in 13 countries around the world
- ETAS subsidiary ESCRYPT is a specialist for embedded systems security

ETAS Customers and Domains

Trusted by OEMs, tier one and ECU suppliers, as well as engineering service providers:

Commercial Vehicles

Automotive Heavy Duty Engines

Railway Powertrain

Construction Machines

Consumer Electronics

Off-Highway

ESCRYPT Customers and Domains

The ESCRYPT customer base includes:

Automotive

Mobile Machines & Transportation

Energy

Consumer Electronics Mobile Devices

Industrial Automation

Financial & Government Logistics

Health Care

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**Software
Engineering**

**Test and
Validation**

**Measurement,
Calibration,
Diagnostics**

**Embedded
Security**

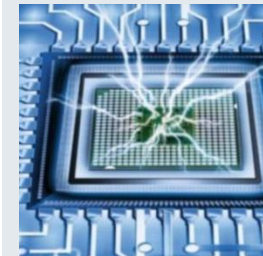
**Real Time
Applications**

escrypt
Embedded Security by ETAS

ETAS Products

Consulting and Engineering Services

Virtualization Technology



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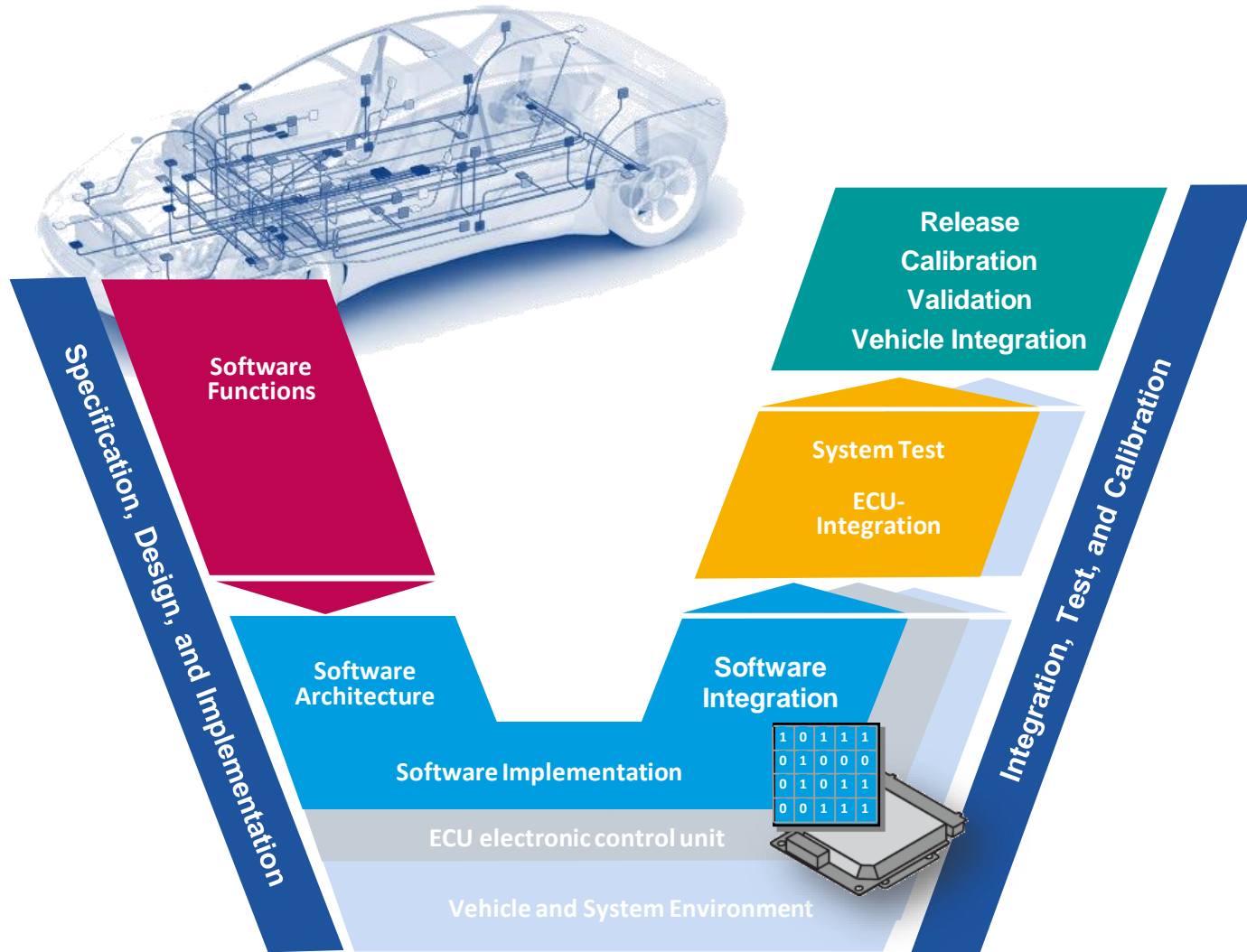


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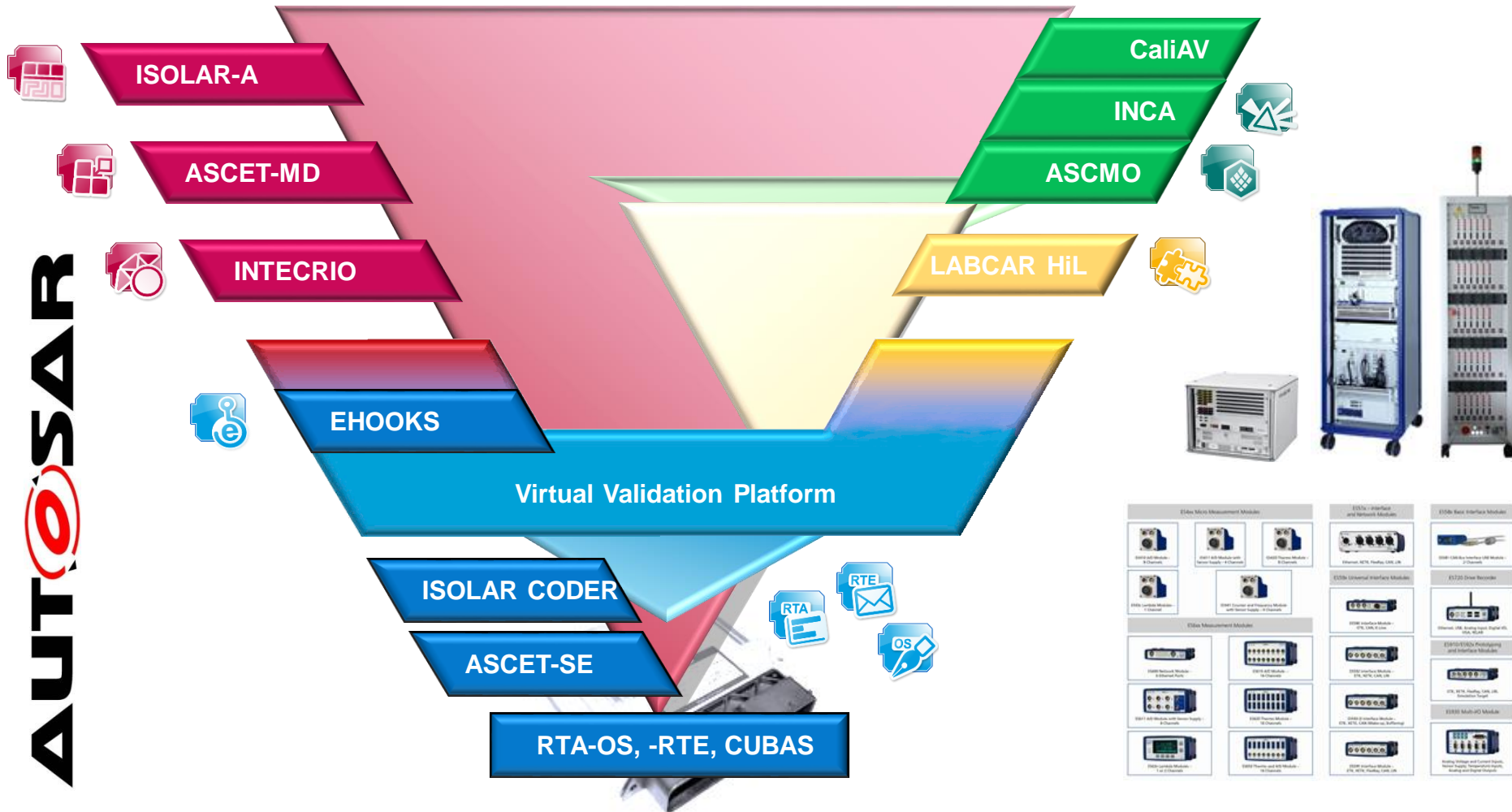


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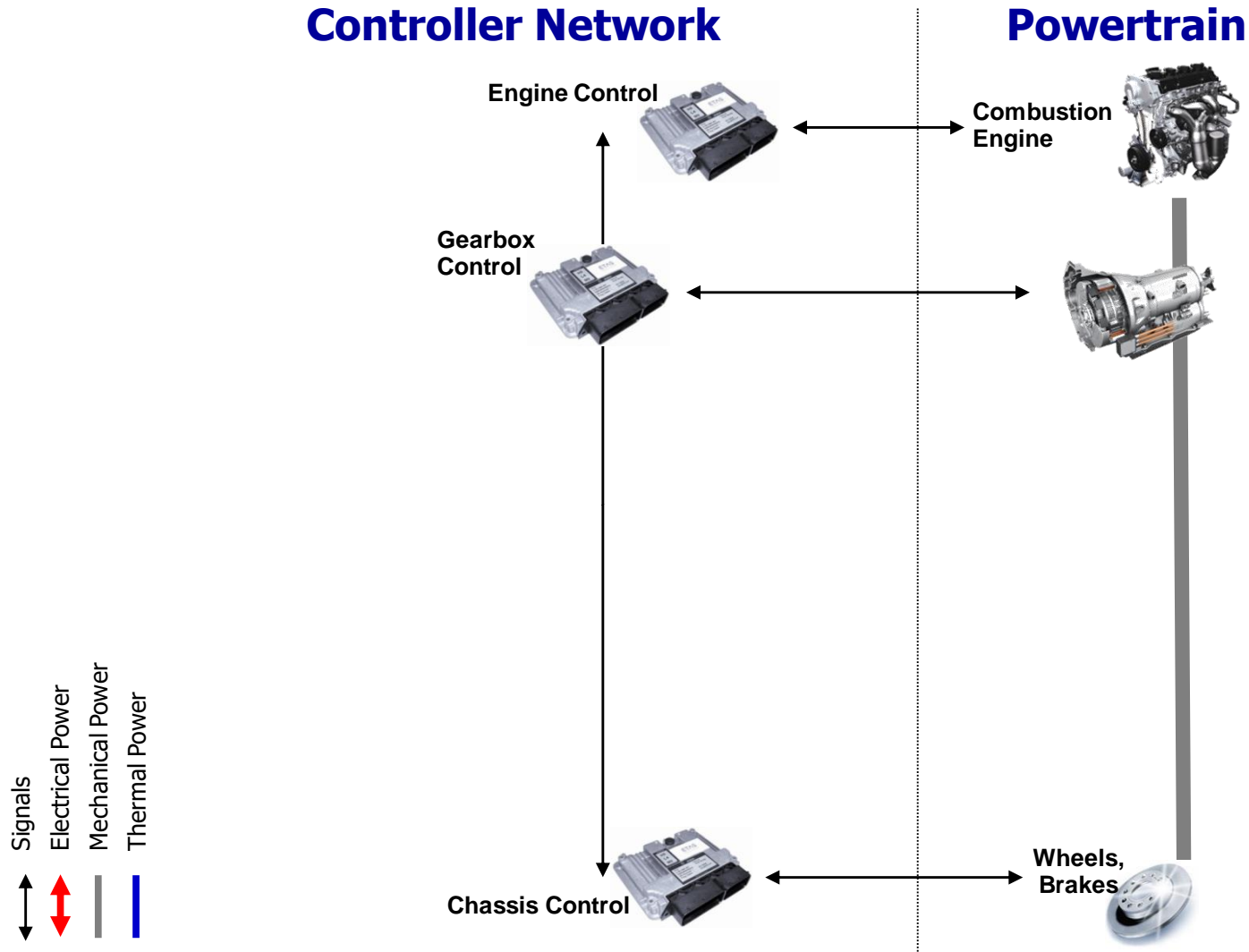


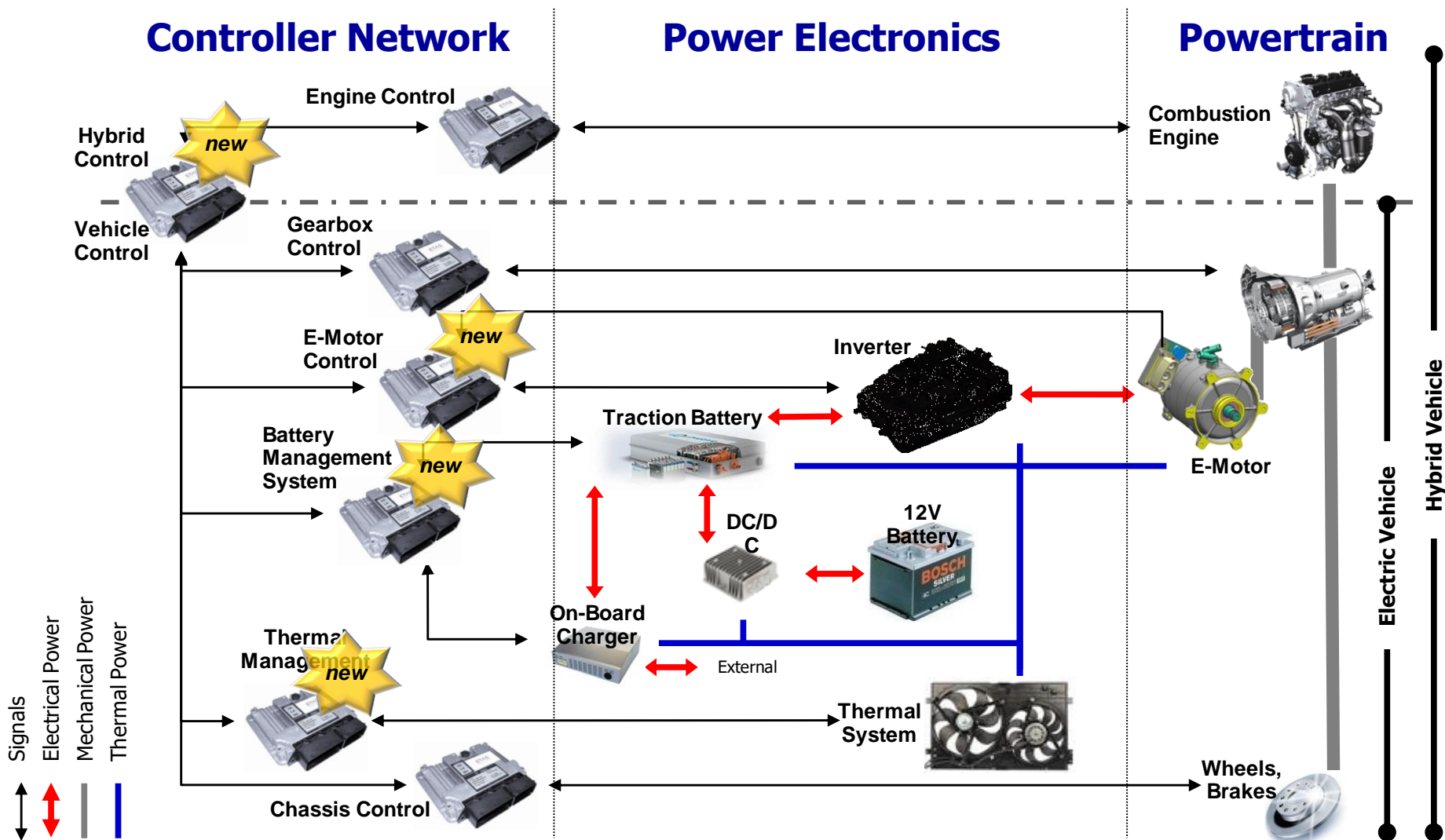
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Source: Toyota, Daimler, Bosch

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- | | |
|----------|-----------------------------|
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Tools for EV testing

- E-Motor Simulator
- Battery Cell Simulator
- High Voltage/Current Measurement Module



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ME **MANUFACTURING**
EXPO 2016

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Reed Tradex

Tools for EV testing

- E-Motor Simulator

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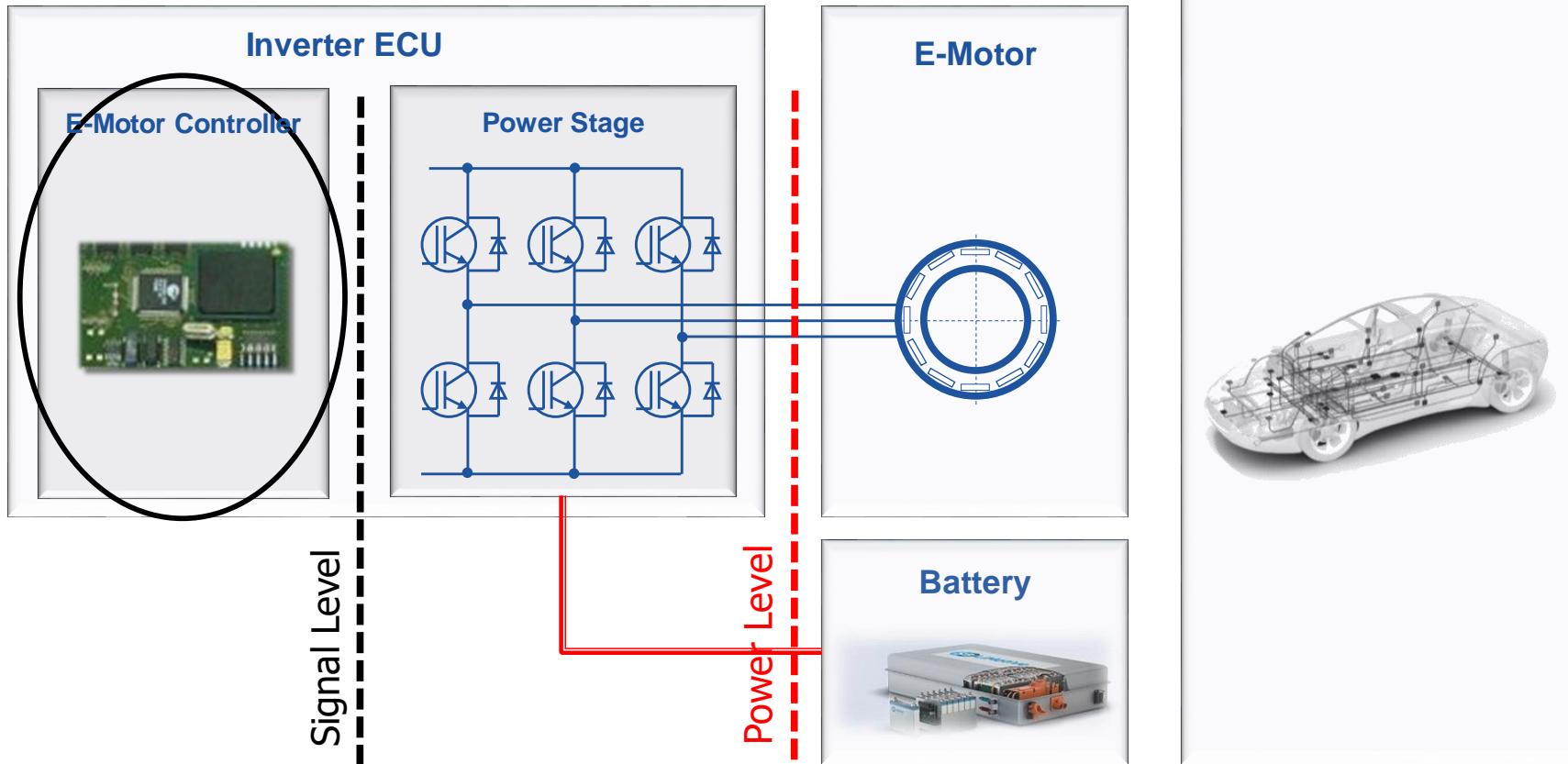
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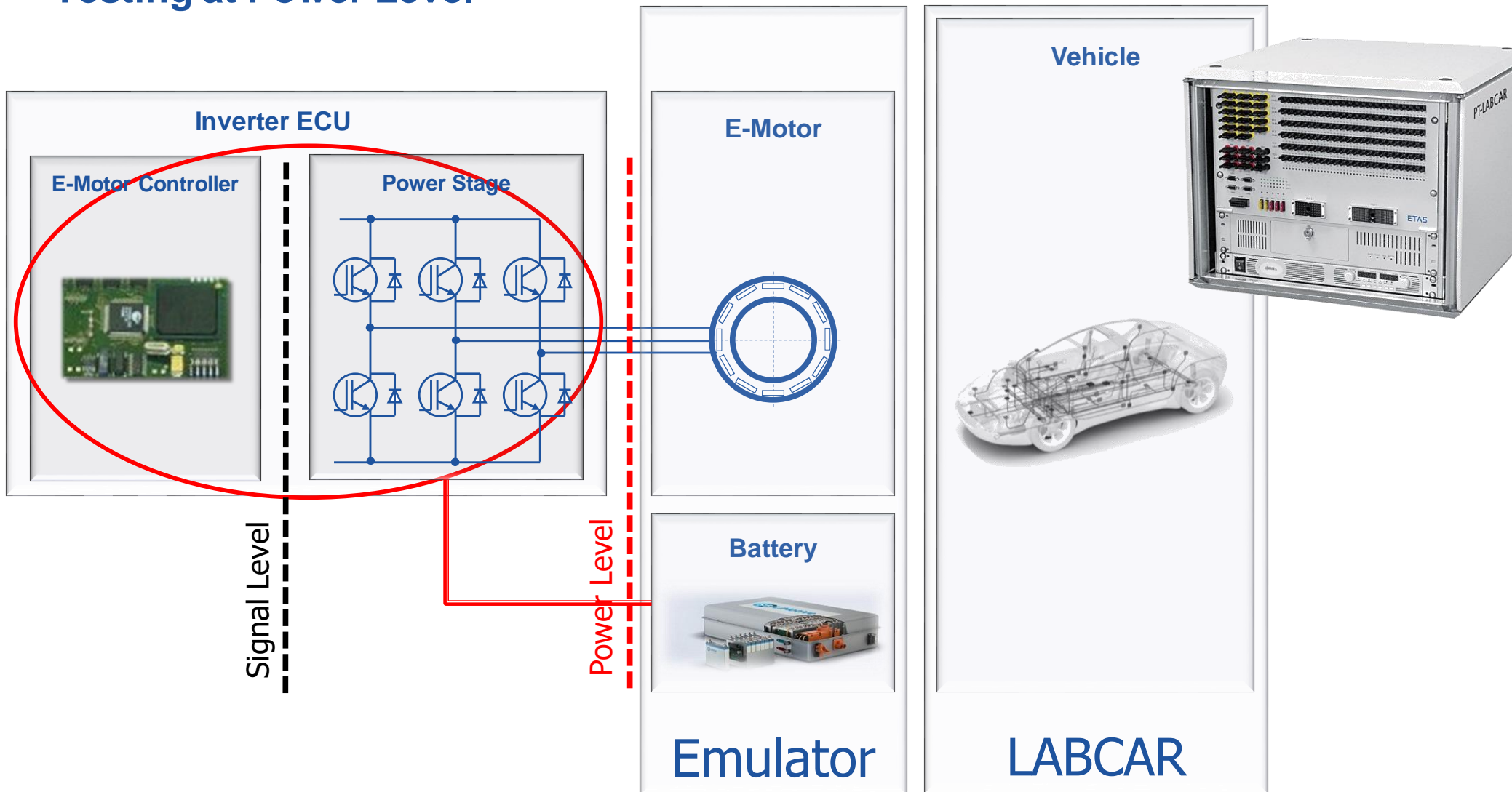
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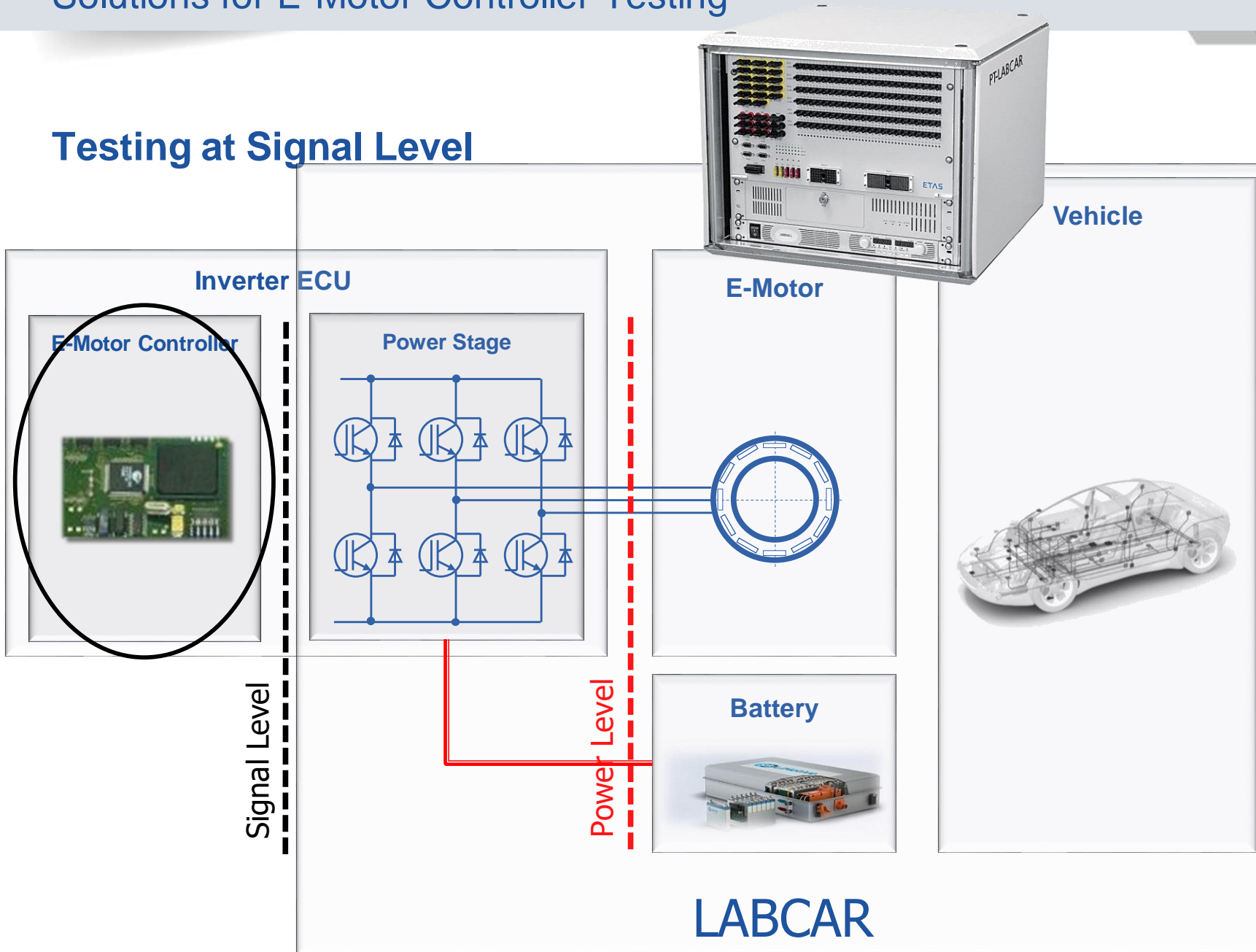
Testing at Signal Level & Power Level



Testing at Power Level

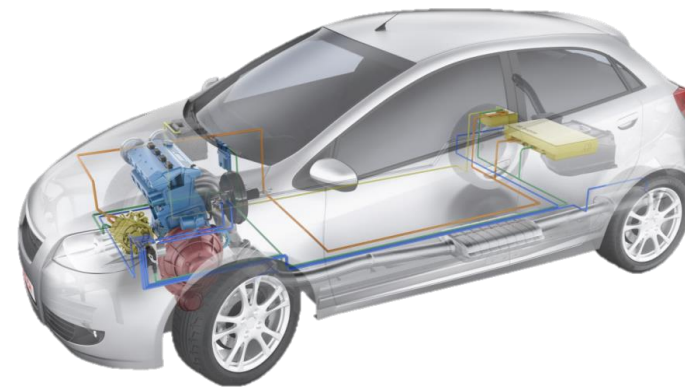
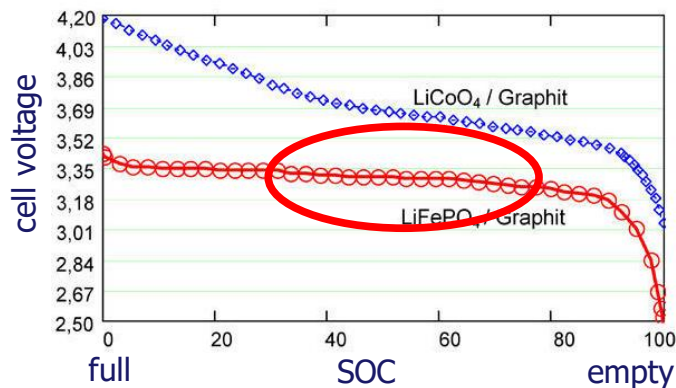
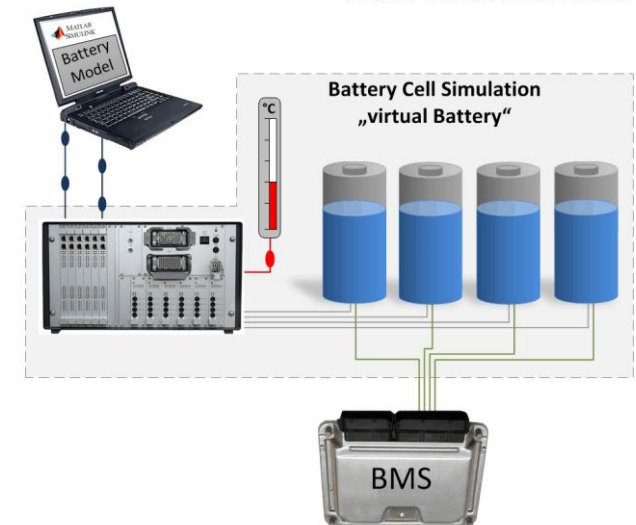


Testing at Signal Level



Tools for EV testing

- **Battery Cell Simulator**
 - “State-of-Charge” Estimation
 - Cell Balance Function
 - Safety Function



Tools for EV testing

- High Voltage/Current Measurement Module



ES41x Enable to measure high Voltage/Current

- High Voltage Cable +/- 840 V
- High Current +/- 1000 A



Thank you

Q & A

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