## AUTOMOTIVE STRATEGY

MARCH 3, 2021 AUTOMOTIVE BUSINESS SOLUTION UNIT RENESAS ELECTRONICS CORPORATION

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## AUTOMOTIVE MARKET



## **COVID-19 IMPACT – AUTOMOTIVE MARKET TREND**

### Pre COVID-19













# **COVID-19 IMPACT – AUTOMOTIVE MARKET TREND**







## **COVID-19 IMPACT – SYSTEM DEMAND**





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# **COVID-19 IMPACT – SEMICONDUCTOR DEMAND**



Source: Strategy Analytics data

## **RENESAS DIRECTION & SOLUTION**



### LIVE AND LET LIVE AUTOMOTIVE SOC STRATEGY



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# ENGAGEMENT MODEL WITH VERTICAL PLATFORMERS

Renesas simulation tools help to free OEMs/Tier-1s from physical constraints



## SOLUTION FOR POST COVID-19 – SOFTWARE PLATFORM FOR SERVICE



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# **TRACK RECORD – WINNING COMBO**



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# 2020 D-IN RESULT OF WINNING COMBO: ANALOG SPECIFIC



Accelerated Growth and Diversified Product Portfolio

**Good Acceptance from the Emerging Markets** 



## **RENESAS EV STRATEGY**



# **xEV STRATEGY**

#### **Existing** assets

- MCU market share, integrated RDC
- Engagement with major xEV makers
- IGBT & MOSFET

#### **New** assets

- Inductive Position Sensor
- Sensor Signal Conditioner
- Battery Management IC





# **IMPROVING OUR PENETRATION IN GROWING XEV MARKET**

#### **Overall market\***

- Semi TAM=\$7.5B in 2025
- CAGR=21% (2019 2025)

#### **Differentiators**

- Performance MCU
- Accurate sensing: BMIC, IPS & SSC
- Low loss IGBT & MOSFET

### **Solution for emerging market**

- Easy-to-Start
- Winning Combinations



GDU: Gate Driver Unit IPS: Inductive Position Sensor PMIC: Power Management IC SSC: Sensor Signal Conditioner

BMIC: Battery Management IC



\* Source: Strategy Analytics, 2021

# CONTRIBUTION FOR ELECTRIFICATION (HIGH POWER, HIGH DENSITY)

### Renesas provides solutions for different integration levels of xEV powertrain



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