AUTOMOTIVE STRATEGY

MARCH 3, 2021 AUTOMOTIVE BUSINESS SOLUTION UNIT RENESAS ELECTRONICS CORPORATION

BIG IDEAS FOR EVERY SPACE RENESAS

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AUTOMOTIVE MARKET



COVID-19 IMPACT – AUTOMOTIVE MARKET TREND

Pre COVID-19





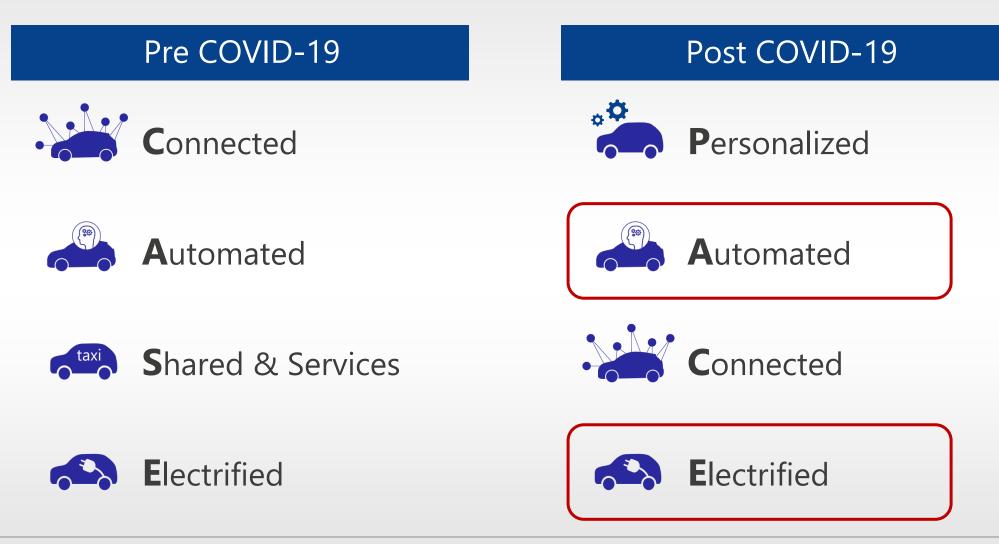








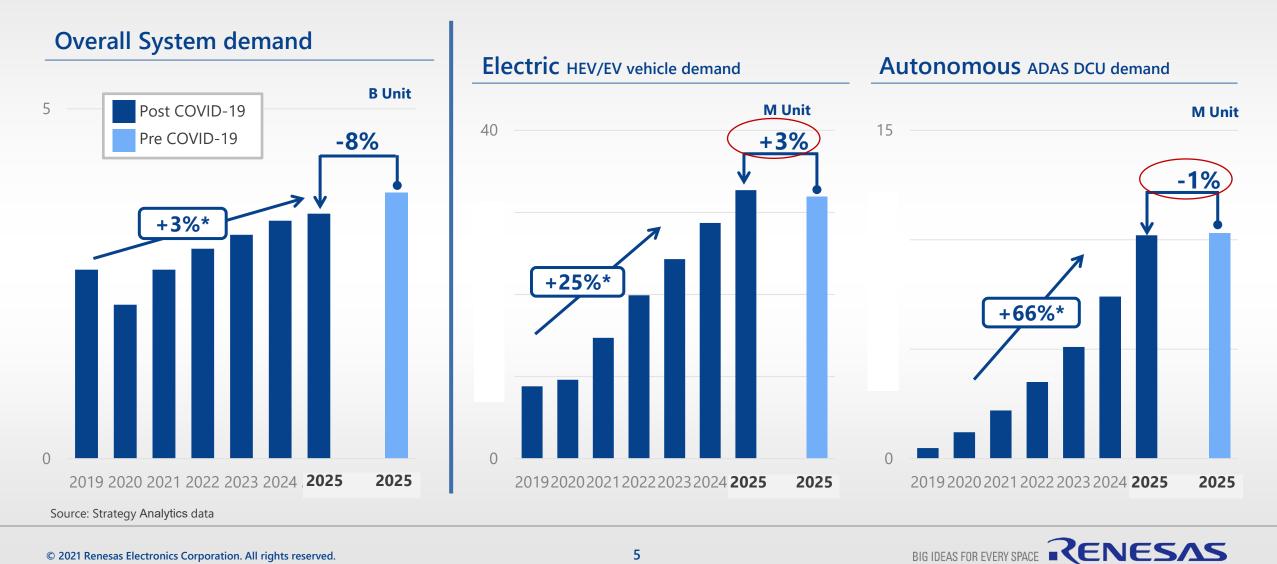
COVID-19 IMPACT – AUTOMOTIVE MARKET TREND







COVID-19 IMPACT – SYSTEM DEMAND

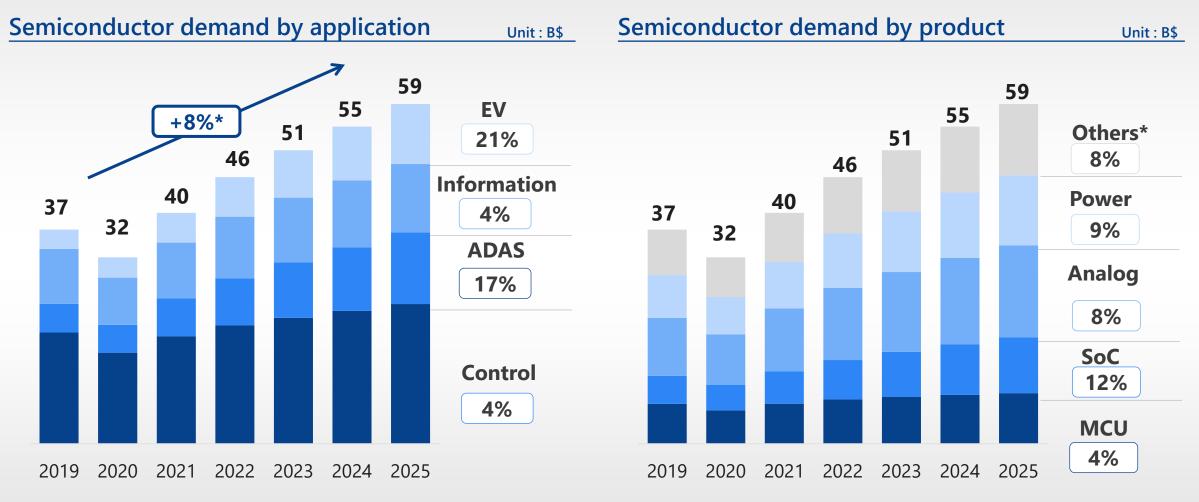




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COVID-19 IMPACT – SEMICONDUCTOR DEMAND

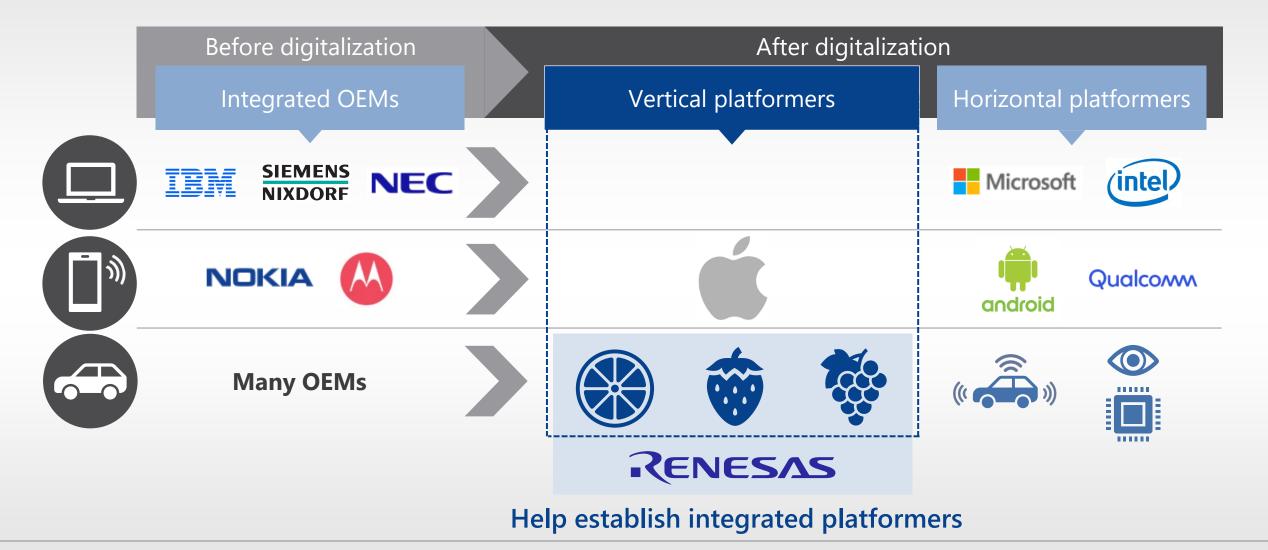


Source: Strategy Analytics data

RENESAS DIRECTION & SOLUTION



LIVE AND LET LIVE AUTOMOTIVE SOC STRATEGY

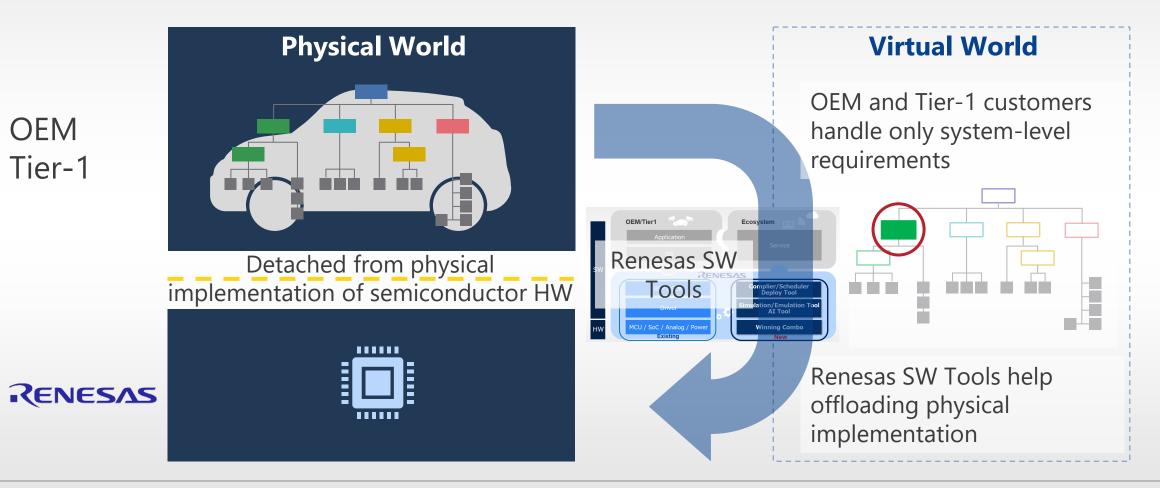


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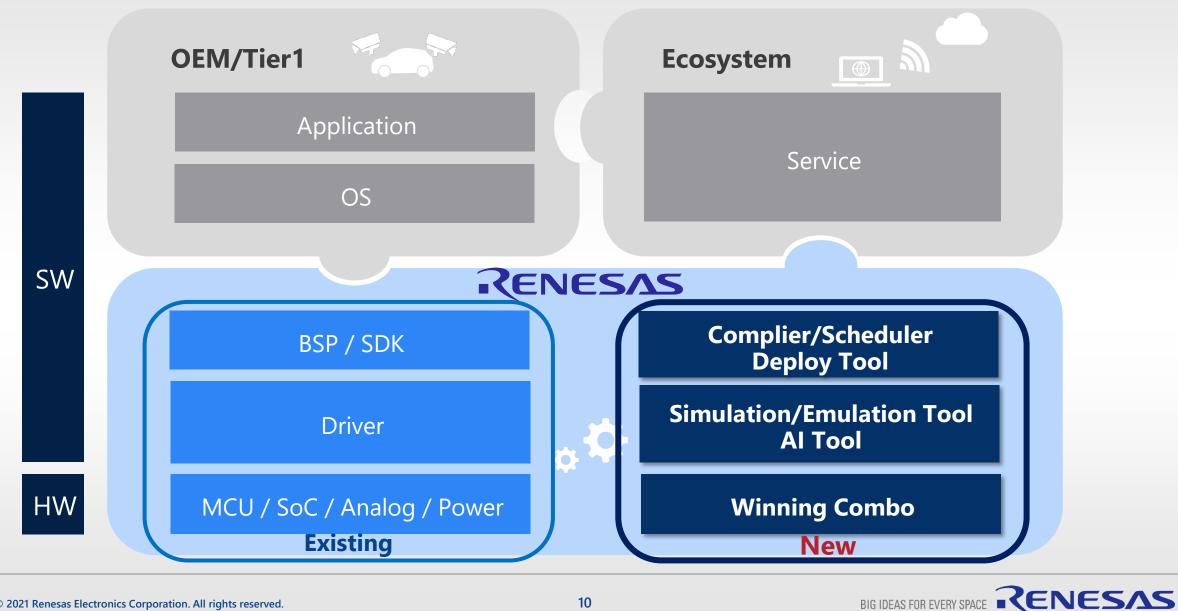
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ENGAGEMENT MODEL WITH VERTICAL PLATFORMERS

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

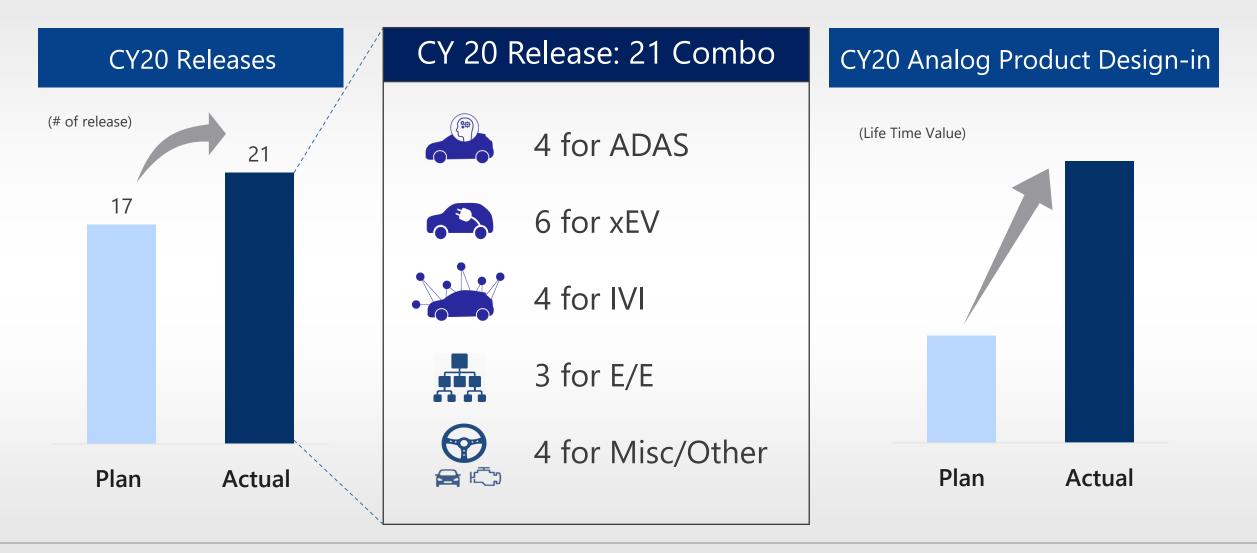


SOLUTION FOR POST COVID-19 – SOFTWARE PLATFORM FOR SERVICE



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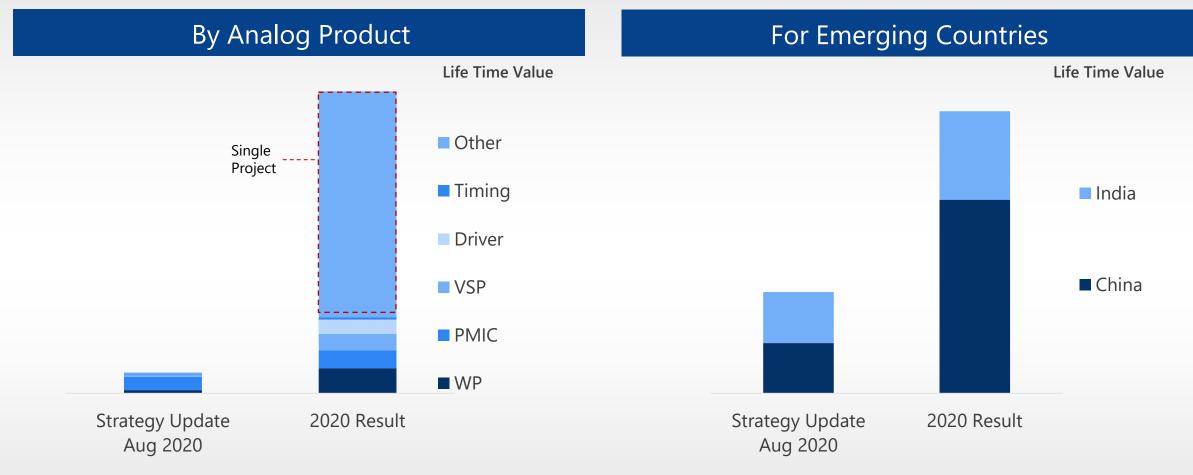
TRACK RECORD – WINNING COMBO



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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

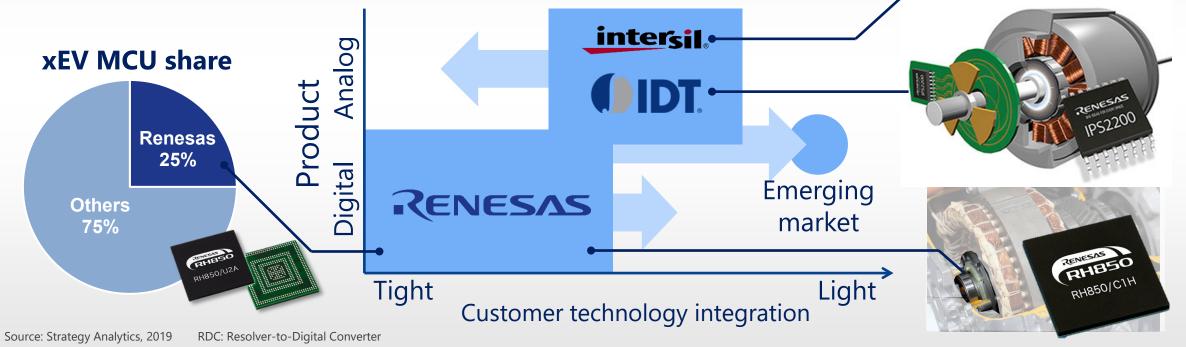
Existing assets

- 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*

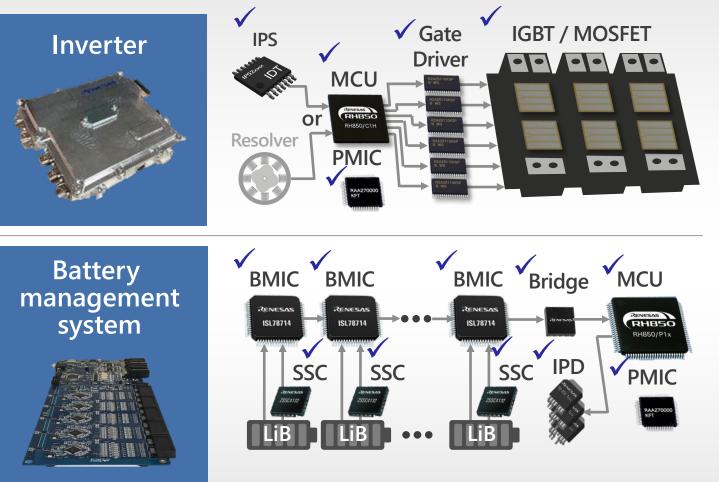
- Semi TAM=\$7.5B in 2025
- CAGR=21% (2019 2025)

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

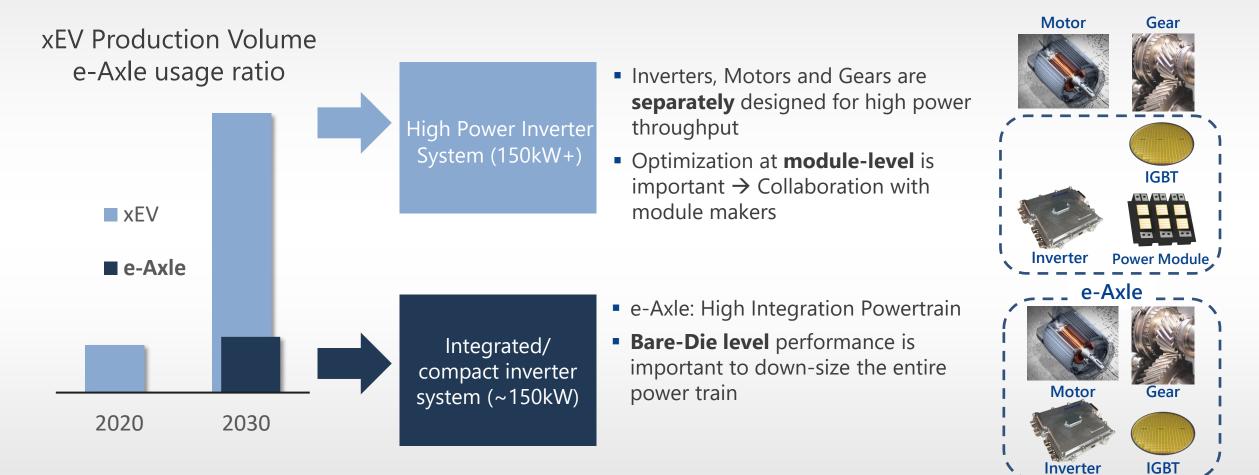
BMIC: Battery Management IC



* 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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