

THE ROAD TO AUTONOMOUS DRIVING

Transforming Vision into Reality

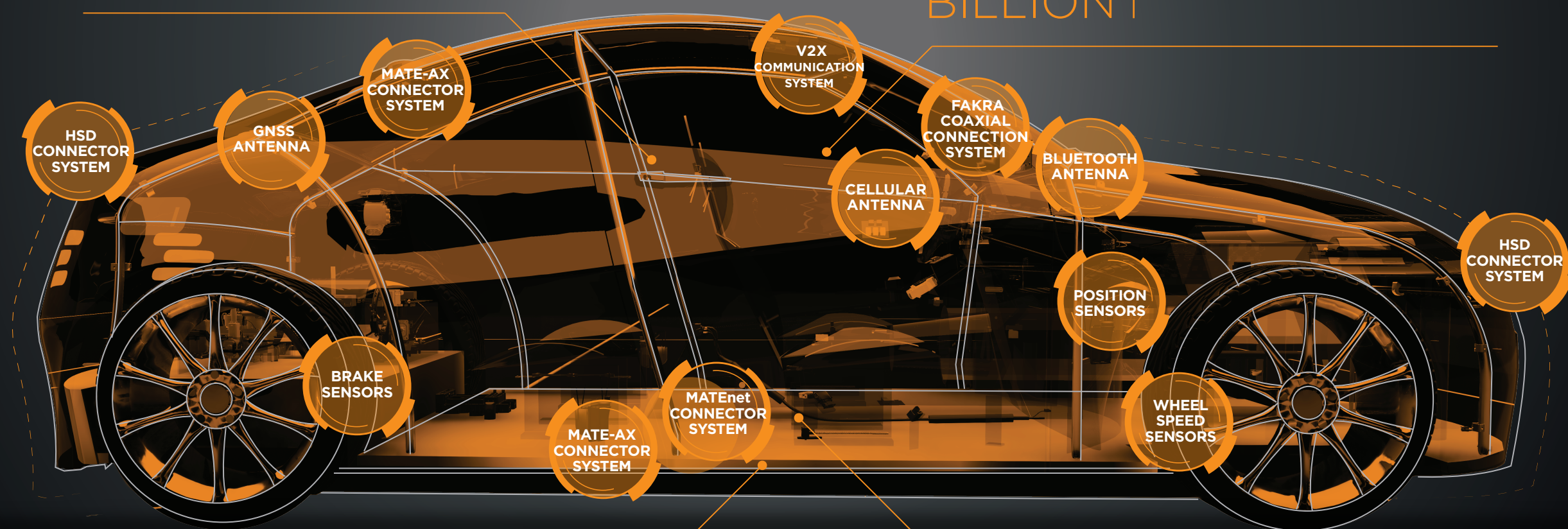
CREATING END-TO-END DATA CONNECTIVITY & SENSOR SOLUTIONS

72.5
MILLION

CONNECTED CARS WILL BE SOLD WORLDWIDE BY 2023¹

\$155
BILLION

VALUE OF THE CONNECTED CAR MARKET BY 2022³



50%

OF PASSENGER VEHICLES SOLD IN 2030 WILL BE HIGHLY AUTONOMOUS²

15%

OF ALL VEHICLES WILL BE COMPLETELY AUTONOMOUS BY 2030²

SIX LEVELS OF AUTOMATION

complete autonomy³

- Full Automation
- High Automation
- Conditional Automation
- Partial Automation
- Driver Assistance
- No Automation

complete driver control



The leap to fully connected and autonomous vehicles will take extensive OEM-supplier collaboration

EVOLUTION OF AUTONOMOUS DRIVING



▶ LEVEL ZERO
NO AUTOMATION



▶ LEVEL ONE
DRIVER ASSISTANCE



▶ LEVEL TWO
PARTIAL AUTOMATION



▶ LEVEL THREE
CONDITIONAL AUTOMATION



▶ LEVEL FOUR
HIGH AUTOMATION



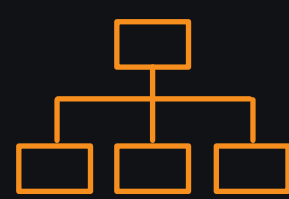
▶ LEVEL FIVE
FULL AUTOMATION

DATA SPEED EVOLUTION FOR AUTONOMOUS DRIVING

150 Mbps

24Gbps

TECHNICAL CHALLENGES OF AUTONOMOUS DRIVING



NEXT-GENERATION ARCHITECTURES



EXTERNAL CONNECTIVITY



SAFETY



HIGH PERFORMANCE



RELIABILITY & ROBUSTNESS



SMARTER DESIGN

TECHNICAL FOUNDATIONS OF AUTONOMOUS DRIVING

ANTENNA CAPABILITIES

DATA CONNECTIVITY

SENSOR SOLUTIONS

NO MATTER THE CHALLENGE OR LEVEL OF AUTONOMY, TE HAS AN END-TO-END PORTFOLIO OF DATA CONNECTORS, ANTENNAS AND SENSORS – TRANSFORMING VISION INTO REALITY.

DRIVING INTO THE FUTURE

The automotive industry uses TE products in automotive technologies for body and chassis systems, convenience applications, driver information, infotainment solutions, miniaturization solutions, motor and powertrain applications, and safety and security systems.

TE BRINGS OVER 50 YEARS OF:

- expertise in materials science research
- advanced engineering
- advanced design capabilities
- manufacturing

TE CAN HELP YOU

- deliver data and power fast and flawlessly
- navigate new architectures to handle extra features and power demands
- engineer the vehicle of the future

WWW.TE.COM/AUTOMOTIVE