

AUTOMATED DRIVING.

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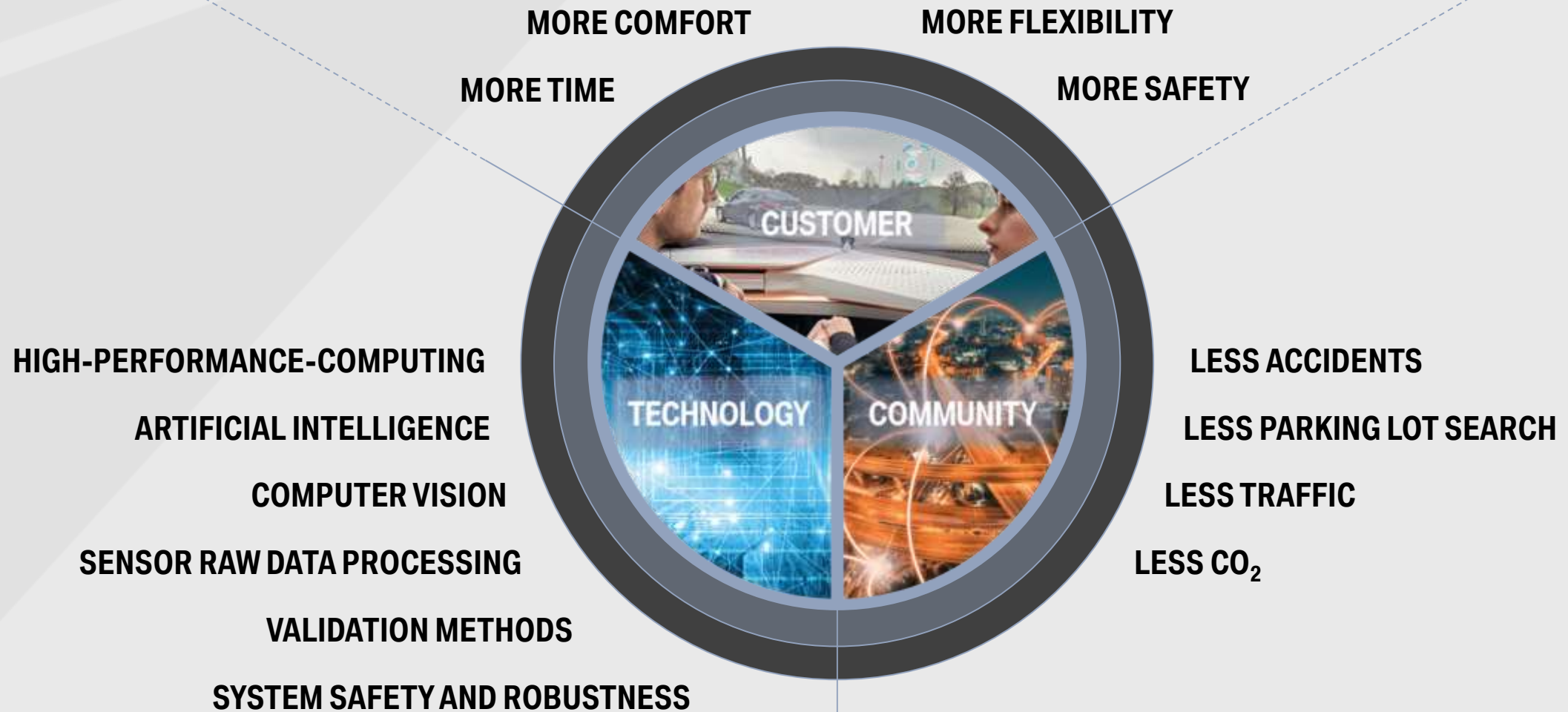
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**BMW
GROUP**



Rolls-Royce
Motor Cars Limited

THE TECHNOLOGY OF AUTONOMOUS DRIVING HAS A GREAT IMPACT FOR OUR CUSTOMERS AND THE COMMUNITY.



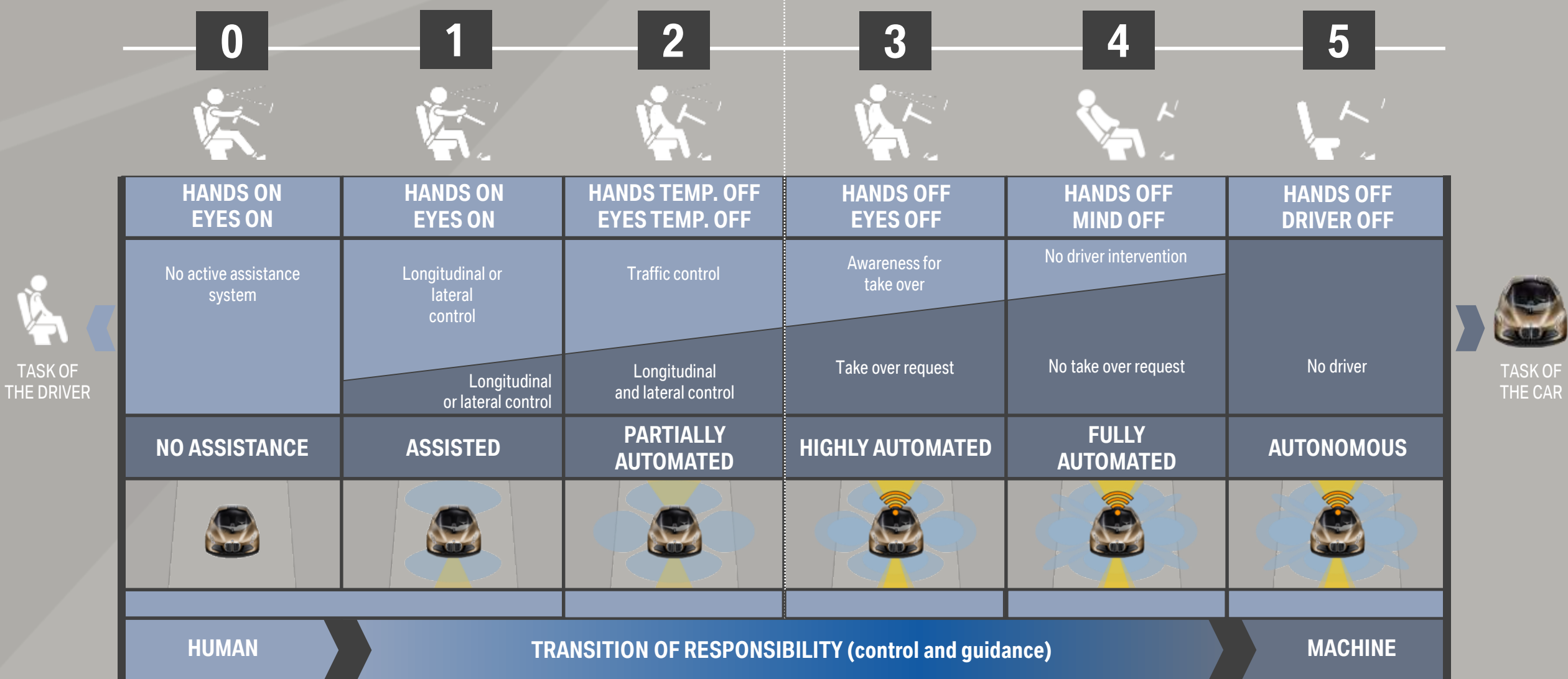
Automated Passenger Car Development Path

Automation Level	Established	2017	2018	2019	2020	2022	2024	2026	2028	2030	...
Level 5: Full Automation										Autonomous Private Vehicles on public roads	
Level 4: High Automation						Highway autopilot including Highway Convoy	Urban and Suburban Pilot				
Level 3: Conditional Automation			Traffic Jam Chauffeur	Highway Chauffeur							
Level 2: Partial Automation	Traffic Jam Assist Parking Assist										
Level 1: Driver Assistance	Adaptive Cruise Control Stop &Go Lane Keeping Assist Parking assist										
Level 0: Driver Assistance & ADAS beyond human capability to act	Lane Change Assist Lane Departure Warning Forward Collision Warning ABS, ESC Emergency Brake										

Passenger Cars: M1 category



LEVEL OF AUTOMATION.



ARCHITECTURE FOR AUTOMATED DRIVING. END-TO-END WITH ALL KEY-TECHNOLOGIES.



CROSS-INDUSTRY-COOPERATIONS. THE KEY AREAS IN AUTONOMOUS DRIVING ARCHITECTURE.



NON-EXCLUSIVE PLATFORM

- CAMERA, RADAR, LIDAR
- ROAD MODEL
- DRIVING STRATEGY / PLANNING

HD-MAP

- CENTIMETER PRECISION
- REAL-TIME CAPABLE
- HIGHLY AVAILABLE AND RELIABLE

INFRASTRUCTURE 5G

- ULTRA LOW LATENCY
- ULTRA HIGH RELIABILITY
- ULTRA HIGH DATARATES

TEST FIELDS

- WORLDWIDE REGULATION
- UNIFIED HOMOLOGATION
- TARGETING SAFE AND SECURE DEVELOPEMENT
- GOVERNMENT FUNDED PROJECTS



Tencent 腾讯
NAVINFO



NOKIA



VDA NHTSA
www.nhtsa.gov

PEGASUS



AUTOMATED DRIVING – LEGAL ASPECTS.



BEYOND ADAS – AUTOMATED DRIVING.



Many thanks for your attention!