

# An overview of ESP® value-added functions

The portfolio of ESP® value-added functions will continue to grow – for greater safety and driving comfort in all driving situations



## The ESP® value-added functions portfolio

### Brake and Boost Assist

- Brake Disc Wiping
- Electronic Brake Pre-fill
- Hydraulic Brake Assist
- Hydraulic Brake Boost
- Hydraulic Boost Failure Compensation
- Hydraulic Fading Compensation
- Hydraulic Rear Wheel Boost

### Special Stability Support

- Extended Understeering Control
- LoadAdaptive Control Mode
- Roll Movement Intervention
- Roll-Over Mitigation
- Trailer Sway Mitigation

### Standstill & Speed Control

- Automatic Vehicle Hold with Acceleration Sensor
- Cruise Control Functions with Brake Intervention
- Controlled Deceleration for DAS (Basic and Stop&Go)
- Controlled Deceleration for Parking Brake
- Hill Descent Control
- Hill Hold Control with Acceleration Sensor

### Surround Sensing Support (incl. CAPS – Combined Active & Passive Safety)

- Adaptive Brake Assist (support function of PBA)\*
- Automatic Brake Pre-fill (support function of PBA)\*
- Automatic Warning Brake (support function of PCW, CSW, SCW)\*
- Automatic Emergency Brake (support function of PEB)\*

### Special Torque Control

- Dynamic Center Coupling Torque Control
- Off-Road Detection

### Information & Warning

- Tire Pressure Monitoring System with Circumference Method

\* PBA = Predictive Brake Assist  
 PEB = Predictive Emergency Braking  
 PCW = Predictive Collision Warning  
 CSW = Curve Speed Warning  
 SCW = Side Crash Warning

The scalable hardware system of the ESP® product family forms the basis for an extensive portfolio of software functions. Many of these functions are already in series production; others will soon be introduced