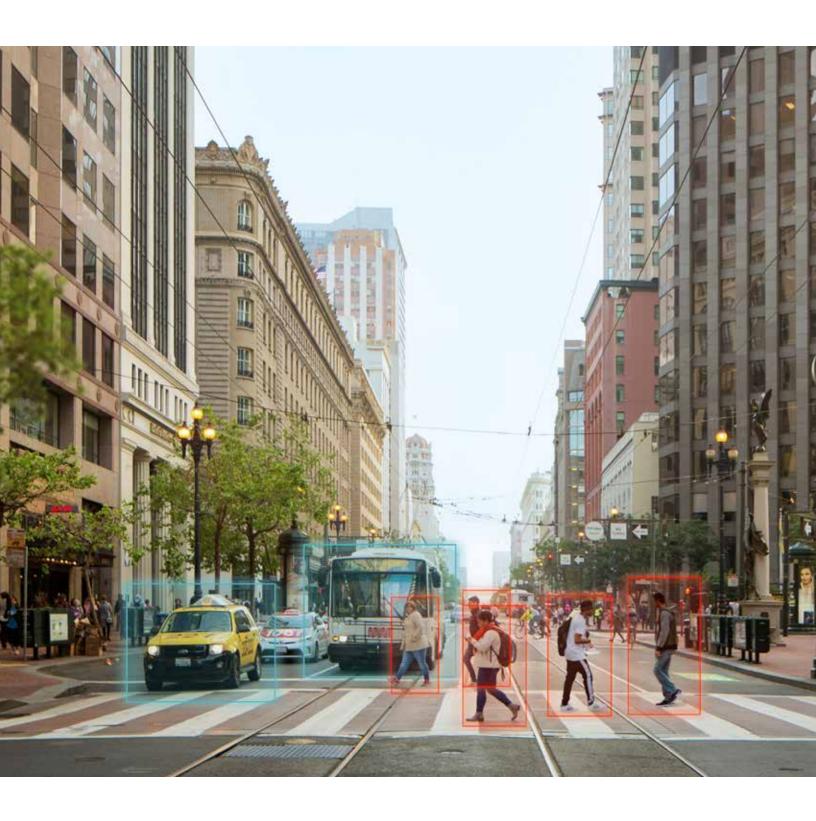
# **Satellite Architecture**

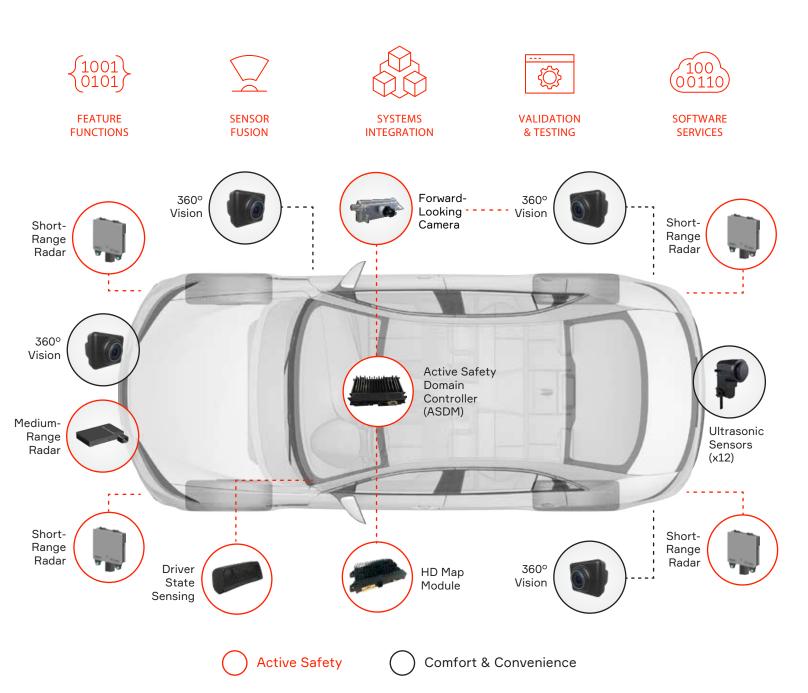


# **Aptiv Satellite Architecture**

Satellite Architecture is Aptiv's flexible and scalable approach to advanced safety that optimizes performance and cost while reducing mass and complexity.

## Industry-Leading Solution for Advanced Safety

Satellite Architecture pulls intelligence out of the sensors and centralizes it in a powerful active safety domain controller. Coupled with sensor fusion, software services, holistic validation and full systems integration, this approach optimizes the vehicle's brain and nervous system.



### Reduced Vehicle Mass

Up-integration and optimization eliminate redundant components such as power supplies, housings and brackets

TRADITIONAL ADAS

SATELLITE ARCHITECTURE

SATELLITE ARCHITECTURE

AND SATELLITE ARCHITECTURE

MASS REDUCTION

#### **TRADITIONAL ADAS**

- Forward Radar
- Forward Radar Bracket
- Forward Camera
- Forward Camera Bracket

- 360° Radars
- 360° Radar Brackets
- Parking Assist Module
- Surround View Module

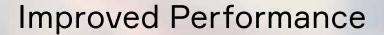
#### **SATELLITE ARCHITECTURE**

- Satellite Forward
   Radar or RACam
- Satellite Forward
   Camera or RACam
- Satellite Forward
   Camera Bracket
- Satellite 360° Radar
- Satellite 360°
   Brackets
- Active Safety
   Domain Controller

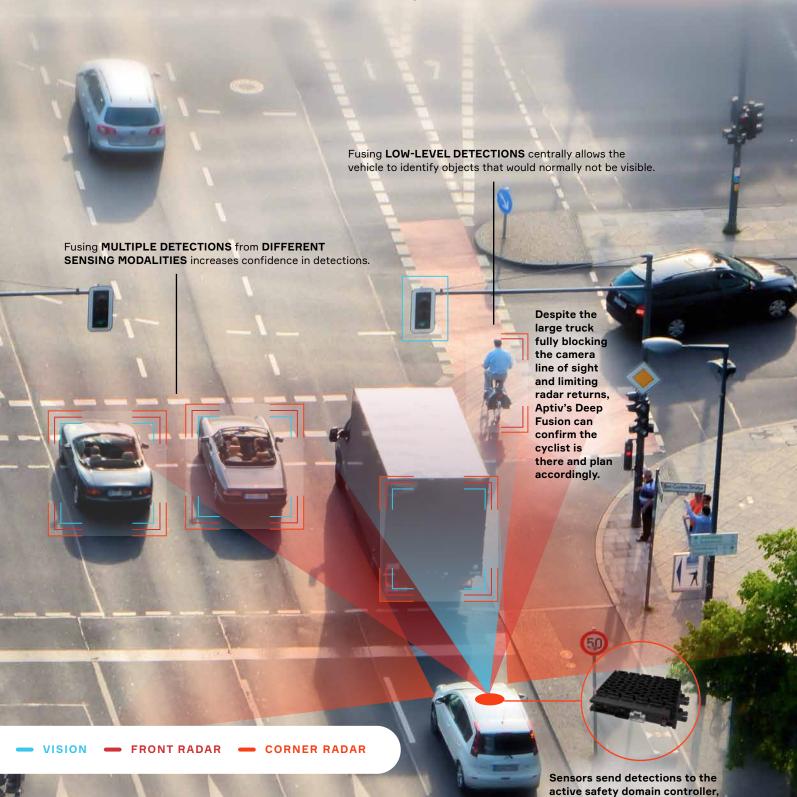
Functionality up-integrated into a single controller

#### **REDUCTION OF UP TO 1.4 KILOGRAMS**

- Eliminate Redundant Power Supplies
- Reduce Bracket Size
- Reduce / Eliminate Housings
- Reduce Harness Size



Centralization and Aptiv's Deep Fusion sensor fusion capabilities unlock new capabilities



where they are fused for a more complete picture.

# **Enhanced Flexibility**

Applies Aptiv's Smart Vehicle Architecture™ design philosophy to active safety



#### PROVIDES PACKAGING FLEXIBILITY

through satellite sensors, helping in areas where space is at a premium



#### **ADDRESSES THERMAL CHALLENGES**

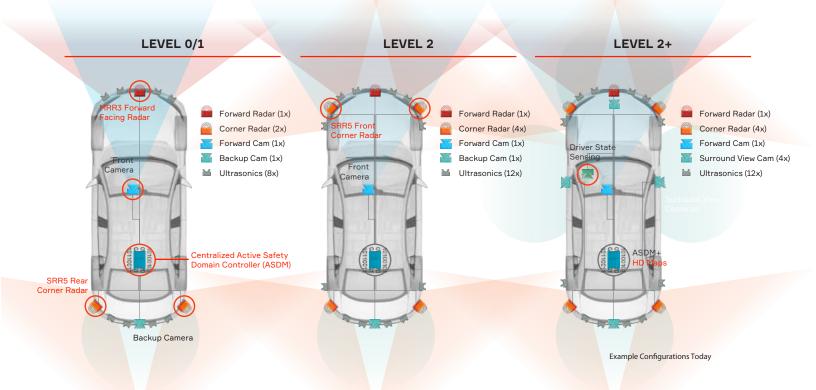
by relocating vision processor to the domain controller



SIMPLIFIES SCALABILITY AND UPGRADEABILITY with a common interface to the vehicle architecture, regardless of sensor configuration

### Zero Accidents, Zero Fatalities

Satellite sensors are simple and cost effective to add as level of automation increases



Each year, vehicle manufacturers add innovative active safety features that reduce accidents and save lives. These innovations often require new sensors — and every sensor has its own power, packaging and data processing requirements. With its centralized approach, Aptiv's PACE Award-winning Satellite Architecture simplifies those additions and makes it easier to achieve higher levels of automation, while ensuring integration and providing full lifecycle management.

