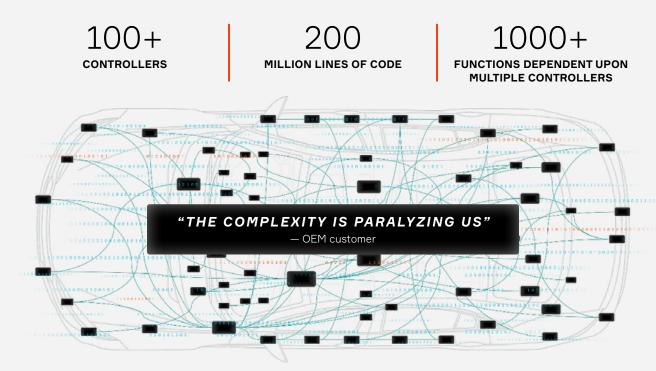


# How Smart Vehicle Architecture™ **Lowers Total Cost of Ownership**

By reducing complexity, Aptiv's Smart Vehicle Architecture™ lowers the total cost of ownership associated with a vehicle's electric and electronic architecture across all phases of the lifecycle: development, manufacturing and post-production.

### THE CHALLENGE

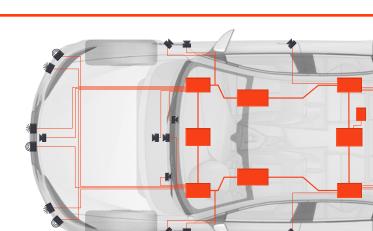
The advanced safety, comfort and convenience features of today's vehicles bring tremendous benefits, but they also add substantial complexity.



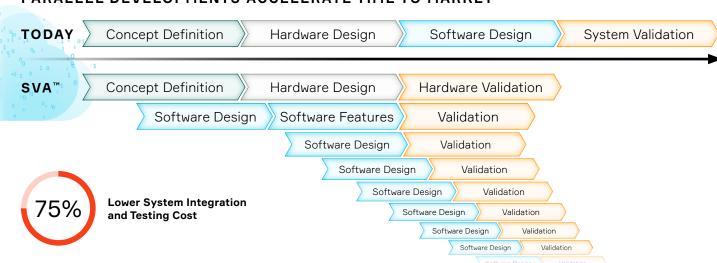
#### **DEVELOPMENT**

SVA<sup>™</sup> reduces complexity by enabling developers to create software completely independently of the underlying hardware. This means they can:

- Develop hardware and software in parallel
- Accelerate time to market
- Reduce integration and testing costs
- Add software features more easily, even after launch



### PARALLEL DEVELOPMENTS ACCELERATE TIME TO MARKET



## **MANUFACTURING**

SVA<sup>™</sup> reduces complexity and costs in manufacturing by:

- Up-integrating ECUs into domain controllers
- Enabling automation of integration and manufacturing Breaking apart physical complexity using PowerData
- Centers (zone controllers)
- Standardizing on common sub-assemblies



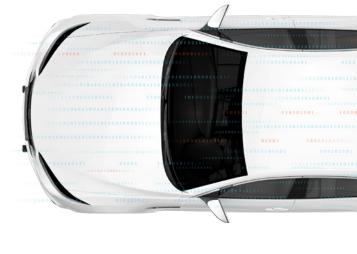
## **POST-PRODUCTION**

manufacturers to build a library of certified software – an "app store" for the car – which developers can pull from and reuse for each new vehicle. Combined with over-theair (OTA) updates, they can: Reduce warranty costs

With software abstraction, SVA™ allows vehicle

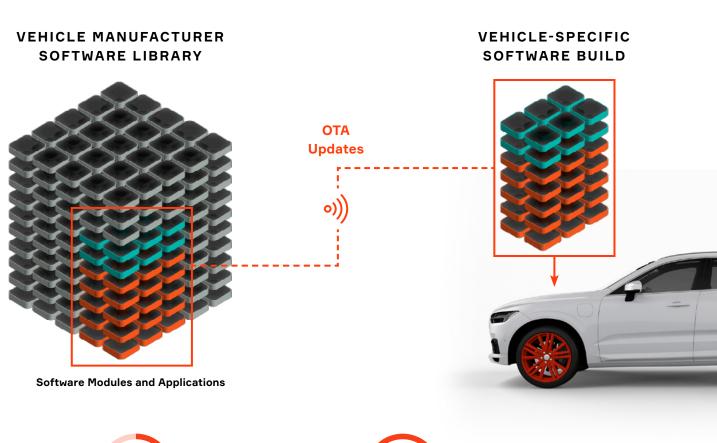
- Update software without requiring owners to go to a dealership
- Virtually eliminate software maintenance for model-year updates

75%



Elimination of Model

Year Updates



Software Warranty

Cost Reduction