



TechTalk SERVER-BASED ARCHITECTURE



TRANSFORMATION IN BUSINESS

Our Environment is Transforming

The Way of Business as Well



Up2now



Traditional Architecture

- Development starts with clear specification
- > Focus on application
- Business models within traditional suppliercustomer relationship and volume-driven

Revenue stream targets mainly SOP1

Going forward



Function-defined Architecture

- Agile development along story points
- Focus on platforms
- The SW-defined vehicle enables alternative business streams, much more value-driven

Revenue streams before and beyond SOP¹, embedded and up to cloud

1 SOP: Start of production

Value Pools are Shifting

Even During the Development Phase Until SOP¹



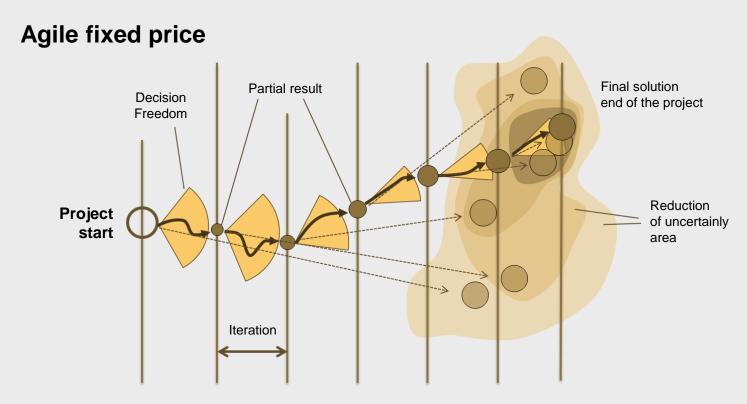
Defined features vs. changes and integration



How to hit a "Moving Target"?

Managing the Complexity and Related Cost





Value Pools are Shifting

Integration is a new Business Opportunity



Vertical:Full-stackVehicle to cloud



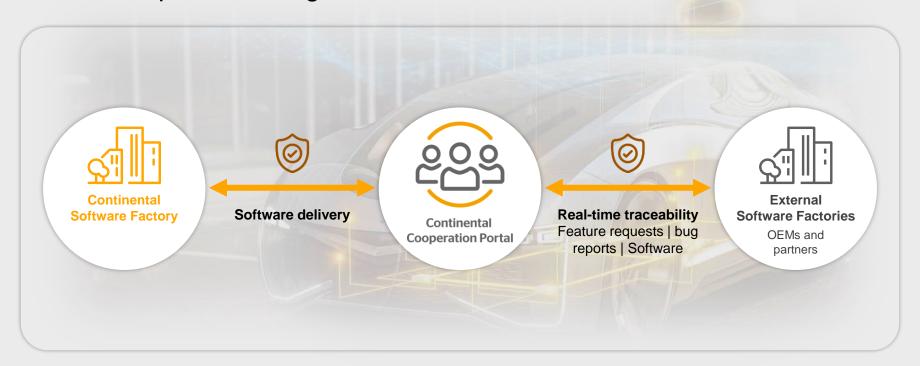
System: Products and Networking

Horizontal: All functions – cross domain

How to Manage the Ever-Increasing Amount of Software?



Offer a Cooperative Integration Solution



Value Pools are Shifting

A Chance in Generating New Revenue Streams after SOP1





Vehicles in field:



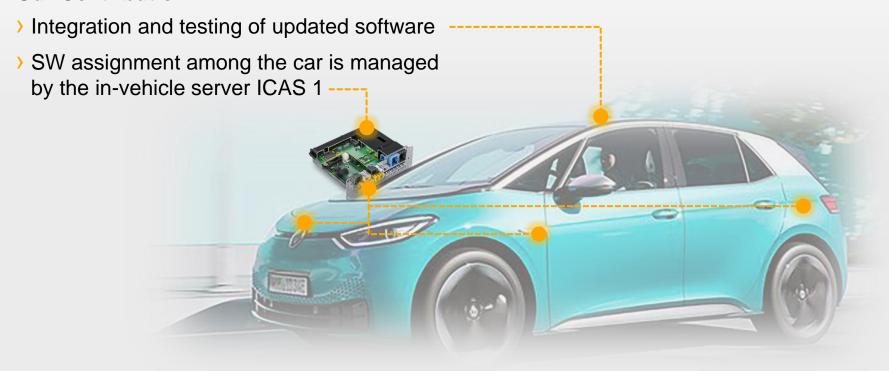
Develop new SW add-on functions



Update functions in a secure manner

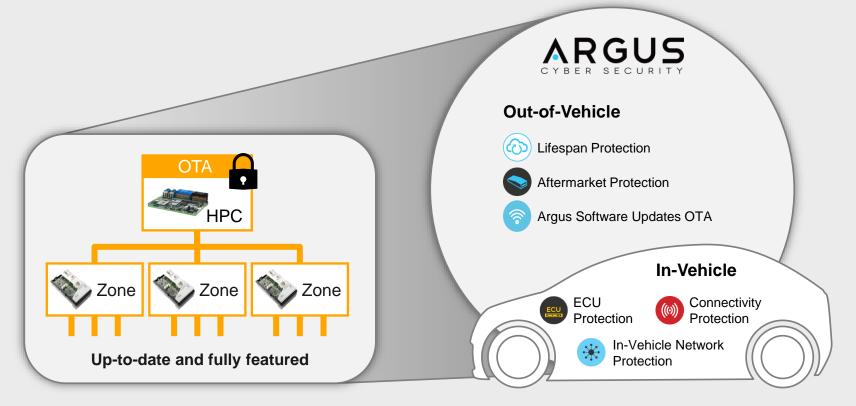
VW Launches First Over-the-air Updates for ID.3 and ID.4

Our Contribution:



New Architectures Require Strong Cyber Security and OTA Updates

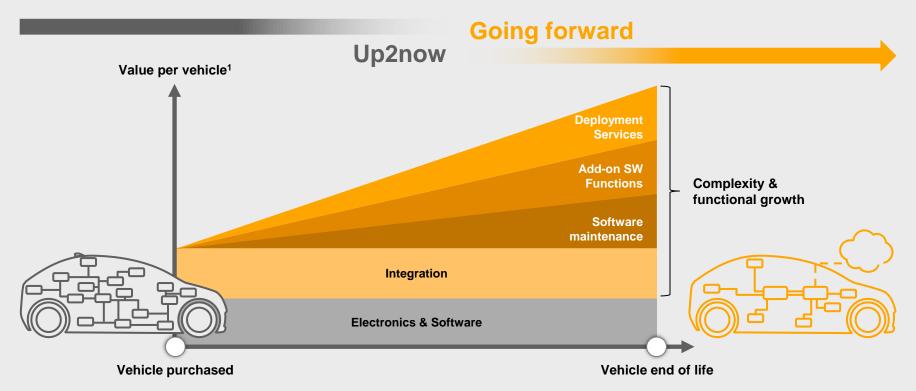




The Software-Defined Vehicle

New Value Streams Across Lifecycle





¹ Not to scale; for illustrative purposes only

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Overall Summary

Server-Based Architecture





Digitization and connectivity are causing one of the most comprehensive transformations that the car has undergone since its invention, effecting...

- ...Products and Technologies,
- ...Processes and Working Methods,
- ...and Business Models and Relationships.

We **adapt** to the changing market and stakeholder requirements and expectations and **master** holistic product development and integration of new centralized vehicle architectures.

In this transformation, our **customers** and **suppliers** increasingly **become partners** with whom we take the next step forward into the digital era of mobility.

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