E/E-ARCHITECTURE IN A CONNECTED WORLD



Domain centralized E/E architecture Required key technologies are covered



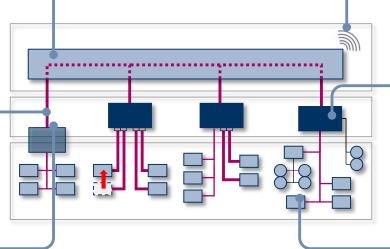
Advanced Gateways

Increased routing complexity and communication throughput.

Communication Network

Higher bandwidth, flexible

communication mechanism.



Connected Car

Open E/E architecture with external communication, secure connection and SW download.

(FOTA/SOTA)



Domain FCUs

Powerful controller as integration platform for cross domain software components, high performance platform.



(non-automotive µP)



Integration platform for superposed software components.

(Hypervisor)

(Gbit Ethernet)

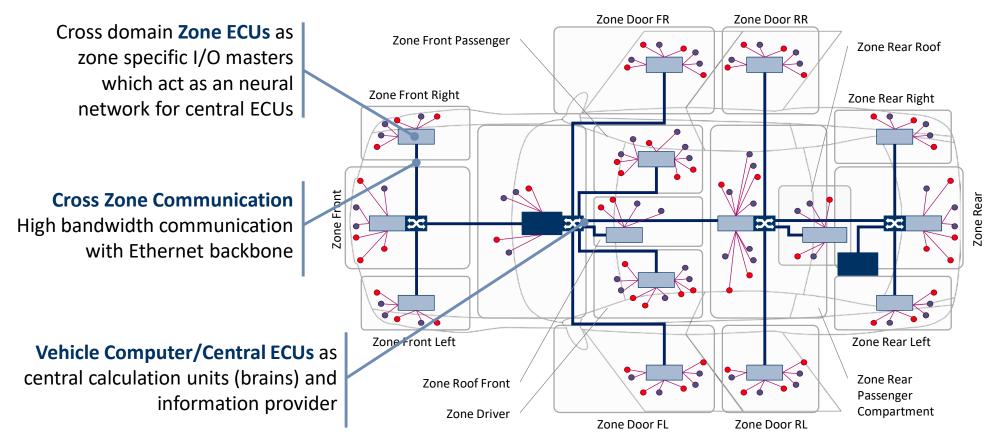
Embedded System ECUs

Focusing on deep system specific functionalities.





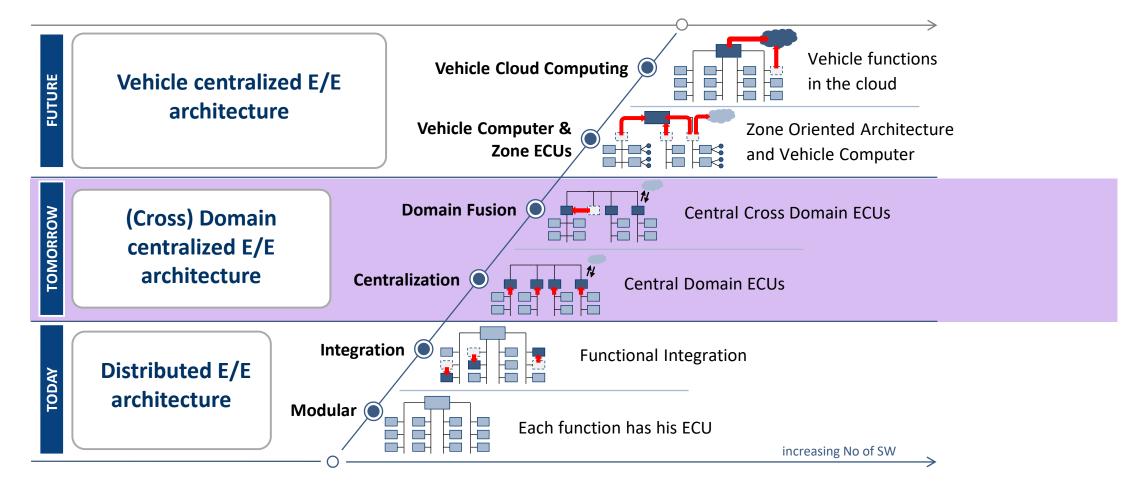
Vehicle centralized E/E architecture Derived Concept



Schematic representation of zone approach

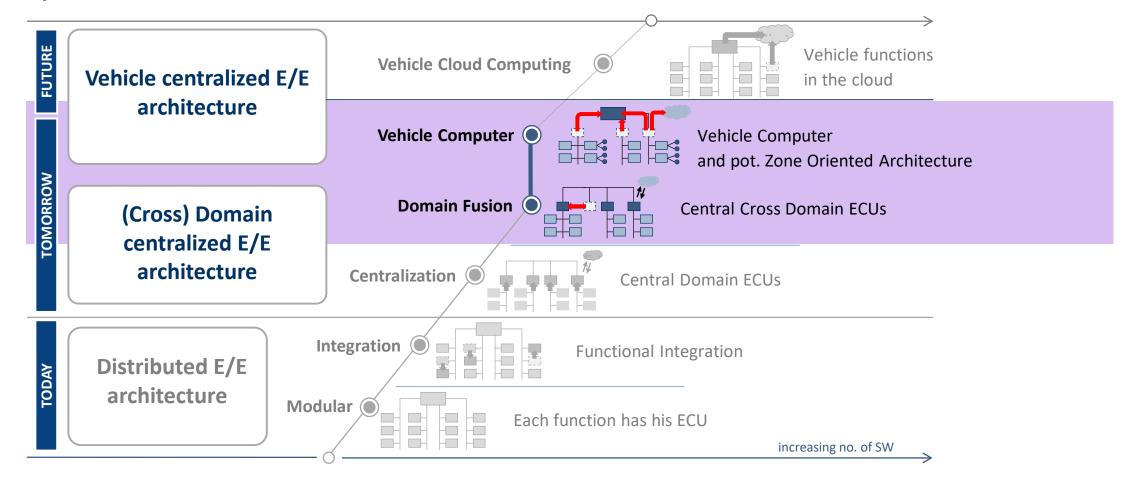


Roadmap E/E architecture Past





Roadmap E/E architecture Up to now





Wiring harness weight Roughly 15-20% reduction by zone architecture

