Future of Vehicle Software Architecture

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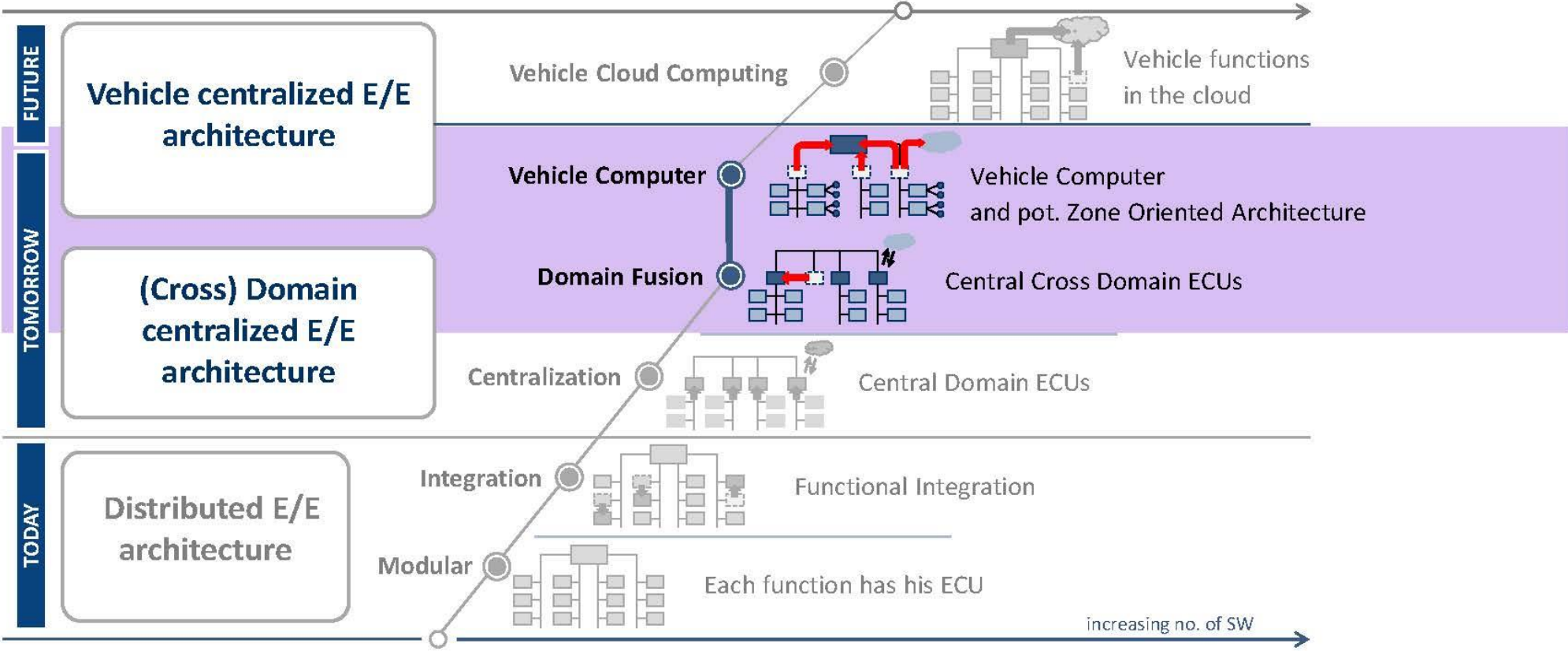**Gerald Spreitz** **Georg Doll**

Future Vehicle EE and Software Architecture
(GENIVI 2018+)

Roadmap E/E architecture
Up to now

FUTURE

Vehicle centralized E/E architecture

Vehicle Cloud Computing — Vehicle functions in the cloud

TOMORROW

Vehicle Computer — Vehicle Computer and pot. Zone Oriented Architecture

Domain Fusion — Central Cross Domain ECUs

(Cross) Domain centralized E/E architecture

Centralization — Central Domain ECUs

TODAY

Integration — Functional Integration

Distributed E/E architecture

Modular — Each function has his ECU

increasing no. of SW

Questions

- What do each of you believe to be the top 1-2 trends driving future architectures for vehicle software?

- Why is the industry shifting from a distributed to a centralized vehicle software architecture?

- What challenges are OEMs and T1s facing in this new central vehicle architecture when it comes to the integration of multiple operating systems like Android, Linux, AUTOSAR, etc?

- The slide mentions the potential for a "zone architecture". How would you describe this trend and how might it affect vehicle software?

- What are your thoughts on vehicle cloud computing? What will that look like and how will that change how software is built & deployed?

Thank you!

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