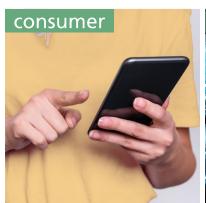
Realising the Software Defined Vehicle (SDV)

Julian Day Senior Field Applications Engineer Green Hills Software

















The SDV changes the industry...

Vehicle Architecture Domain Vehicle Architectures Architectures Architectures Connectivity Architectures Architectures Architectures Architectures Architectures Architectures Architectures Architectures

- ECU consolidation
- Fail safe vs. fail operational
- More connectivity
- New non-automotive functions:



Make-up mode (Xpeng G9)



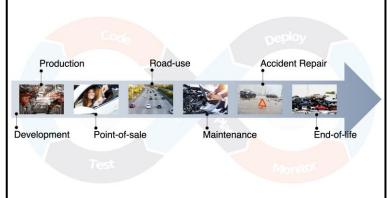
"Light curtain" (HiPhi Z)

Business Models



- Software defines value of the vehicle
- Generating revenue over the lifetime of the car
- Ownership vs. subscription
- New vehicle use-cases, e.g., robotaxis, people mover

Development Processes

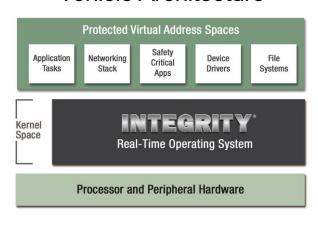


- Continuous development, integration, deployment
- More non-automotive suppliers
- More non-automotive technologies
- Increasing importance of software updates (OTA)
- Embracing cloud-native development



Green Hills Software's contribution

Vehicle Architecture



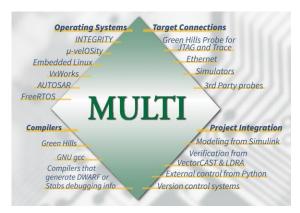
- RTOS / hypervisor for safe and secure separation
- Completely integrated ecosystem
- Extensive array of middleware available
- Supporting all safety & security certifications available

Business Models



- End-to-end solutions for device and enterprise security infrastructure
- Embedded cryptographic toolkits
- High-assurance enterprise key management infrastructure
- Device Lifecycle Management

Development Processes



- Fully integrated tool suite for creating, optimizing and debugging code
- Best-in-class debugging capabilities
- Qualified for ISO 26262 ASIL D
- From Ops to DevOps to DevSecOps





Revolutionizing Development of Embedded Software

For more details please contact info-uk@ghs.com

