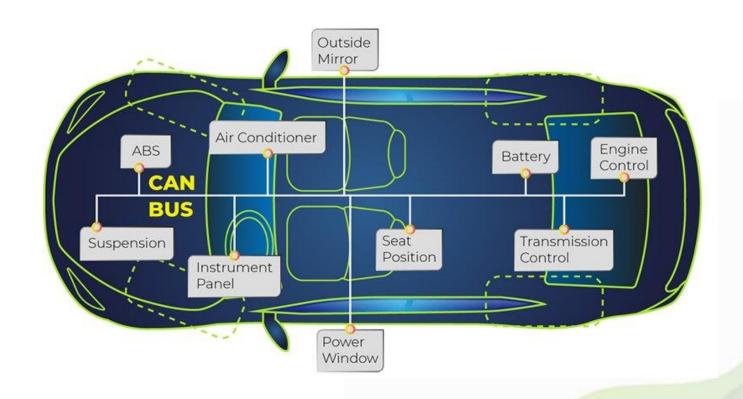


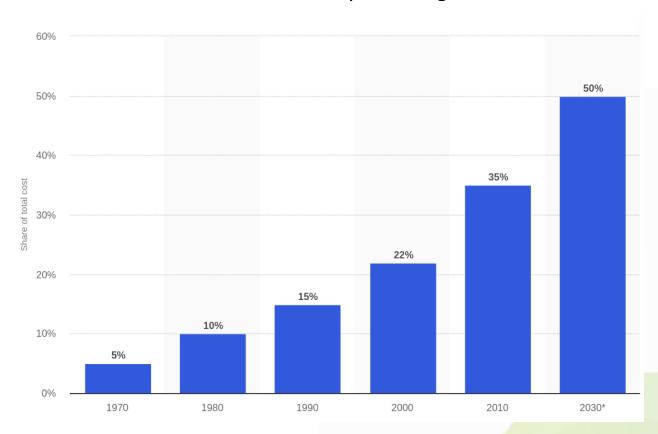
A Car or an Expensive IoT device?





Why is Modern Car Expensive?

Automotive electronics cost as a percentage of total car cost





Automobile Software is Complex





145,000

12 million

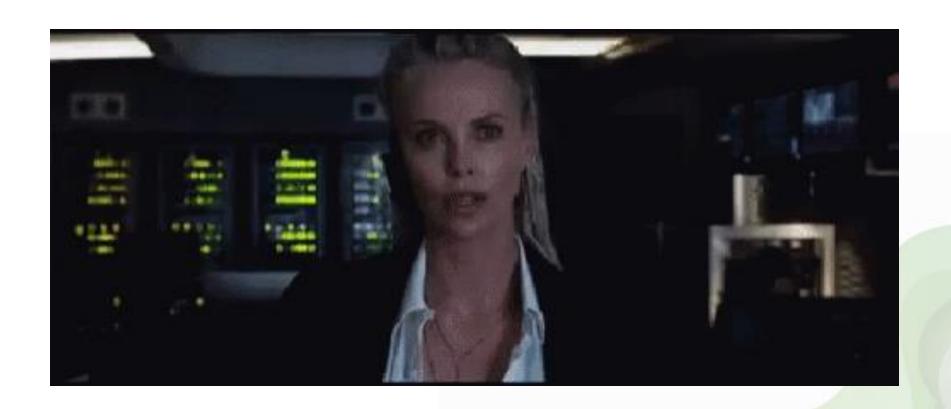
25 million

100 million

Lines of code



Who controls it, You or they?





Life threating moment





Challenges with Automotive Software



Extremely complex and convoluted supply chain



Absence of Integrity tracking for software during its lifecycle (UNECE, NIS)



Lack of reports on software assets and licenses OTA installed (RXSWIN) and running on cars



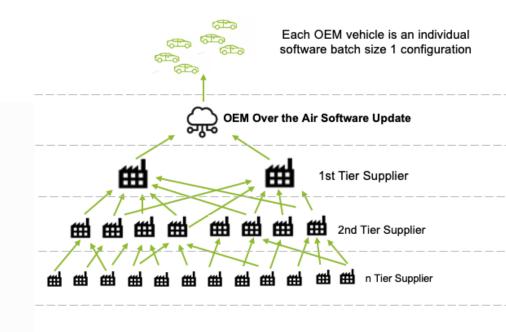
Absence of ingredient list in Software recipe



Centralized structure



Unavailability of (DLT / Blockchain) signed history





Recent Regulations

- UN Regulations on Cybersecurity and Software Updates
- Whitehouse executive order (14028)
- NTIA framed definition of Software Bill of Materials (SBOM)
 - minimum elements, roles and benefits









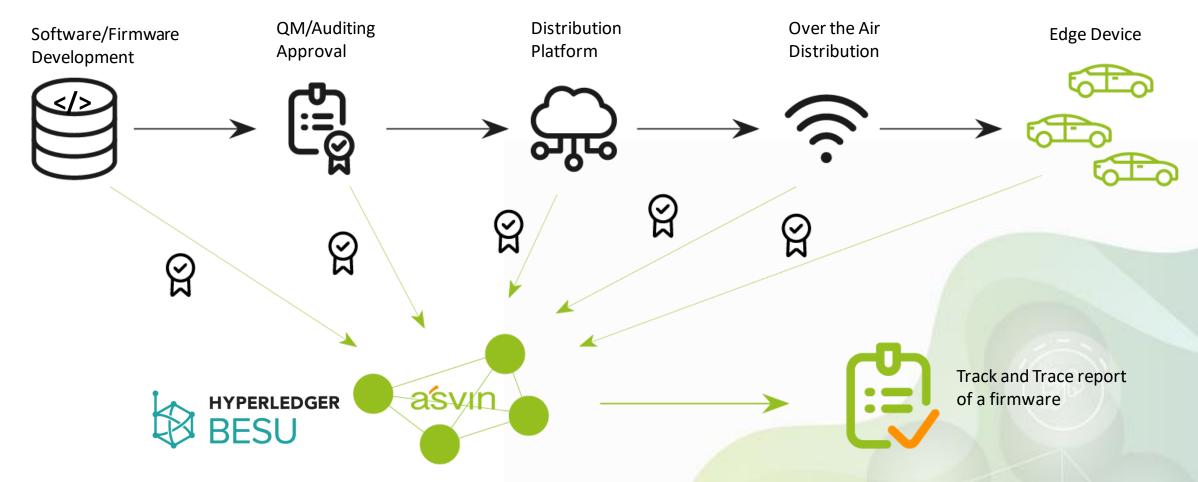
What is D-SBOM?

- Use of DLT to store, access and transfer SBOM
- A distributed ledger establish single truth
- Track the trail of software in multitier hierarchy
- CVE vulnerability monitoring for their cybersecurity risk
- Popular SBOM formats
 - Software Package Data Exchange (SPDX) by the Linux Foundation
 - CycloneDX by the OWASP foundation
 - Software Identification (SWID) tags by NIST



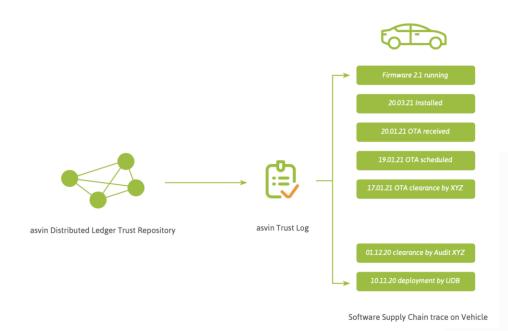


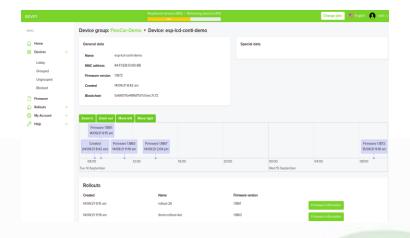
Secure Software Supply Chain





Immutable and Distributed Record





- Record the software meta information (license, versions and dependencies) on OTA shipment
- Analytics on software components in use
- Analytics on licenses and license dependencies for installed software

- Monitoring of software and license integrity
- Decentralized Ledger with secure API access for all actors in the software supply chain
- Immutable record of all of the above



What the Solution brings



Decentralized structure



Immutability



One shared Truth



Improved security



Greater Trust and Transparency



True Traceability and Auditability



Resilience



Thanks



