Global Platform™

Wrap Up

4 December 2024

Dr Richard Hayton, Chair of Automotive Task Force

Today..

SESIP for Automotive

Safety and Security
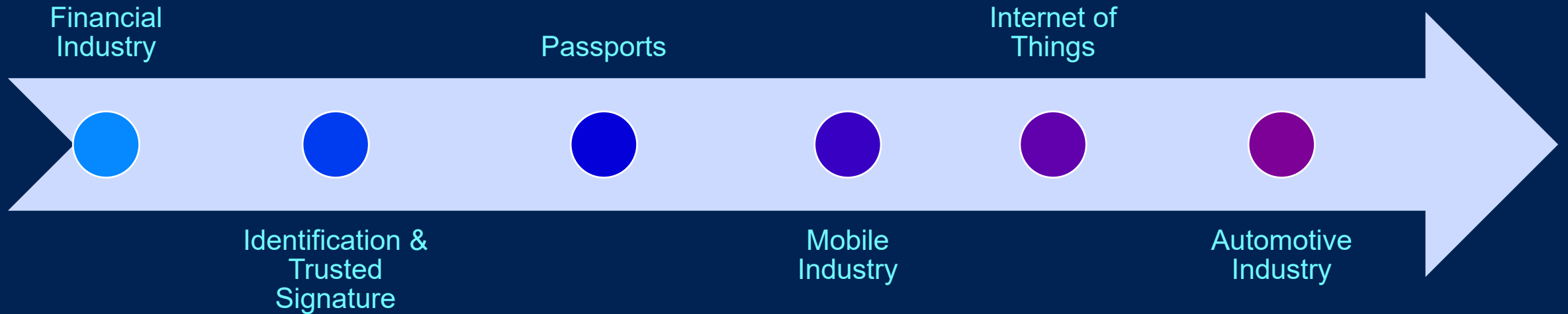
Secure Silicon

Post Quantum Crypto

Role of [Product] Certification

Evolution of ISO/SAE 21434

Updates on ISO 26262

GlobalPlatform

THE standard for managing applications on secure chip technology, with over 20 years of experience

Financial Industry — Identification & Trusted Signature — Passports — Mobile Industry — Internet of Things — Automotive Industry

Mass Market deployment of industries has required: agreed functionality for transactions and transparent robust security to create trust among competitors and in the overall ecosystem
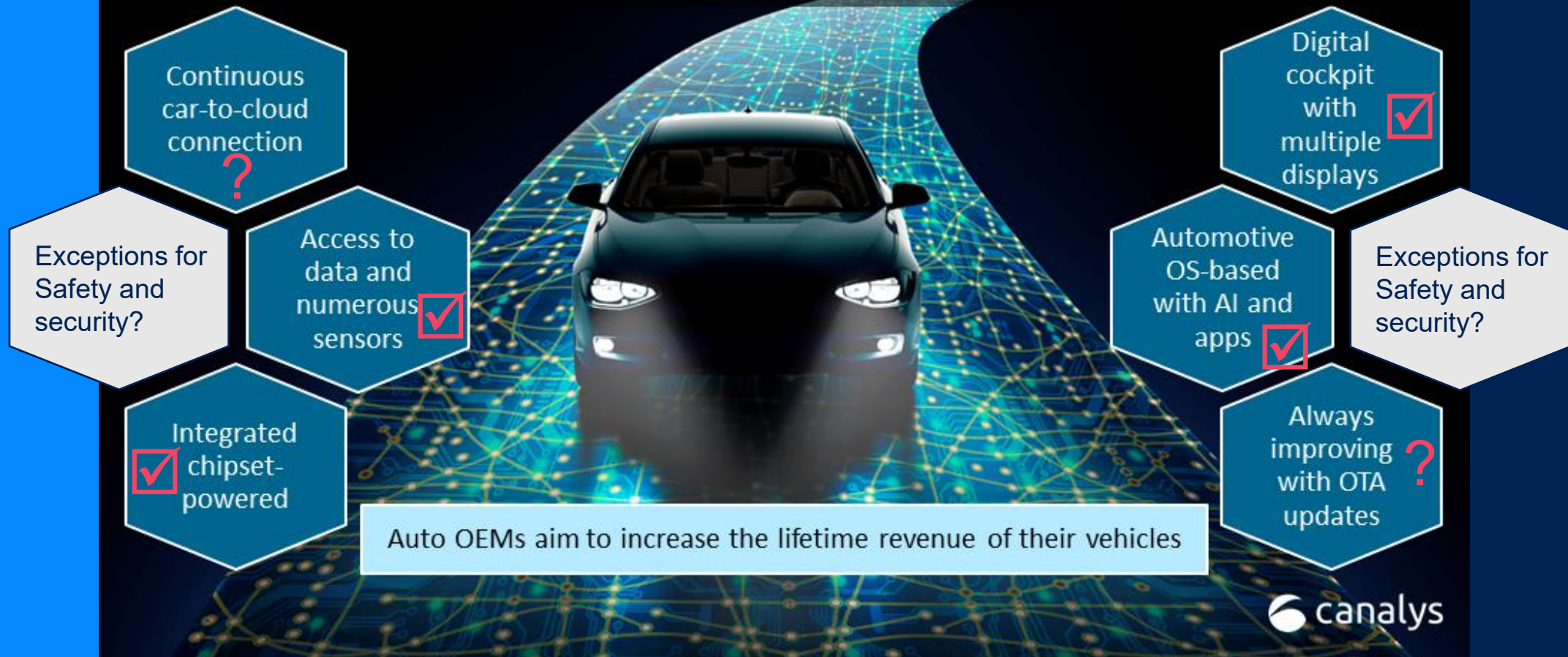
GlobalPlatform Specifications: Royalty Free Use: https://globalplatform.org/specs-library/

GlobalPlatform's Success in International Digital Security Services

Secure Component Specifications

Protection Profiles

3rd Party Certification

How to build standard solutions

How to validate security in a standard way

Proof you have followed the rules

The future must be SAFE and SECURE

All new cars will be software-defined

Continuous car-to-cloud connection ?

Exceptions for Safety and security?

Access to data and numerous sensors ✓

Integrated chipset-powered ✓

Digital cockpit with multiple displays ✓

Automotive OS-based with AI and apps ✓

Exceptions for Safety and security?

Always improving with OTA updates ?

Auto OEMs aim to increase the lifetime revenue of their vehicles

canalys

https://canalys.com/insights/automotive-industry-future

Global Platform™

GlobalPlatform Approach

2. Trusted Applications/Applets developed/ deployed by the ecosystem, to meet the specific requirements of a particular ECU or a customer solution using standardized APIs

Example Standardized Primary Key Injection

SIM	Sec Boot	ECU ID	DRM
Key Negotiation	ADAS	FOTA/ SOTA	IDS
Sec Logging	Auth Cmd	Payment	...
Digital Car Keys	SecOC	MACsec	...

OEMs and Tier 1s can specialize
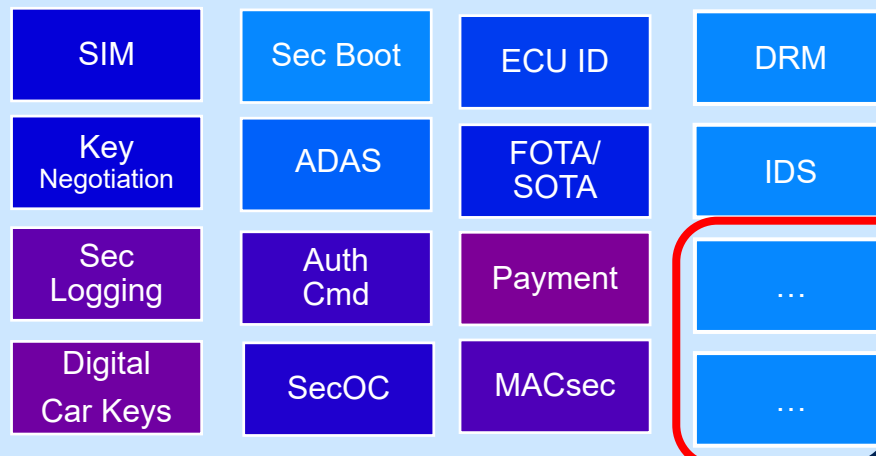
SESIP Certifications

1. Platform: Standardized APIs & Management command, update, state-of-the-art crypto, crypto agility …

Secure Component Platform: Functionally and Security Certified

Hardware

Common Criteria Certification

Global Platform™

Global Platform™

The standard for
secure digital services
and devices

→globalplatform.org