

FIRST SWISS
Functional Safety
and Cyber Security
Certification Body



Cyber security: How to build secure automated vehicles?

“The critical path to introduce autonomous driving vehicles will not be the technology but the development of a metric which empowers for an approval”

Prof. Dr. rer. nat. H. Winner, November 2013



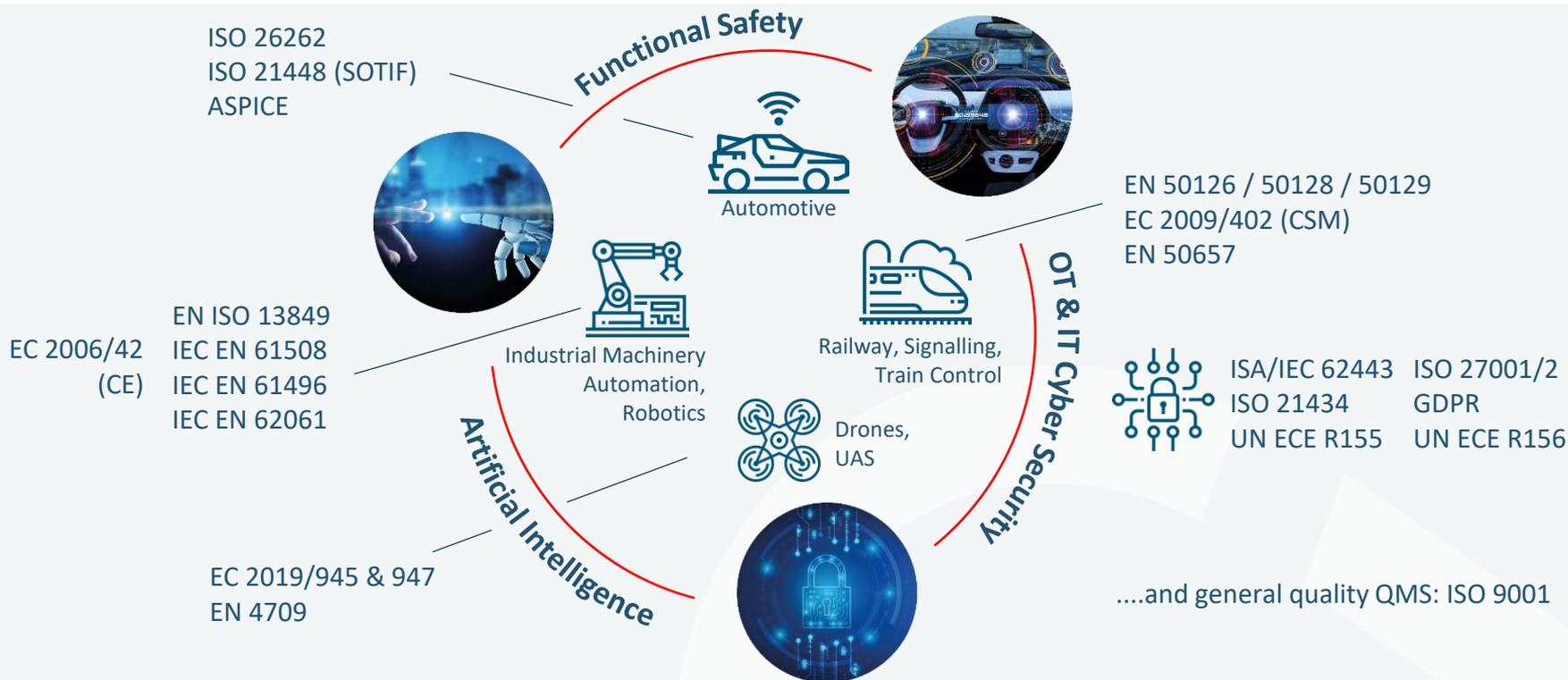
First Swiss Certification Body for Functional Safety and Cyber Security accredited by Swiss Accreditation Service (SAS) with international validity



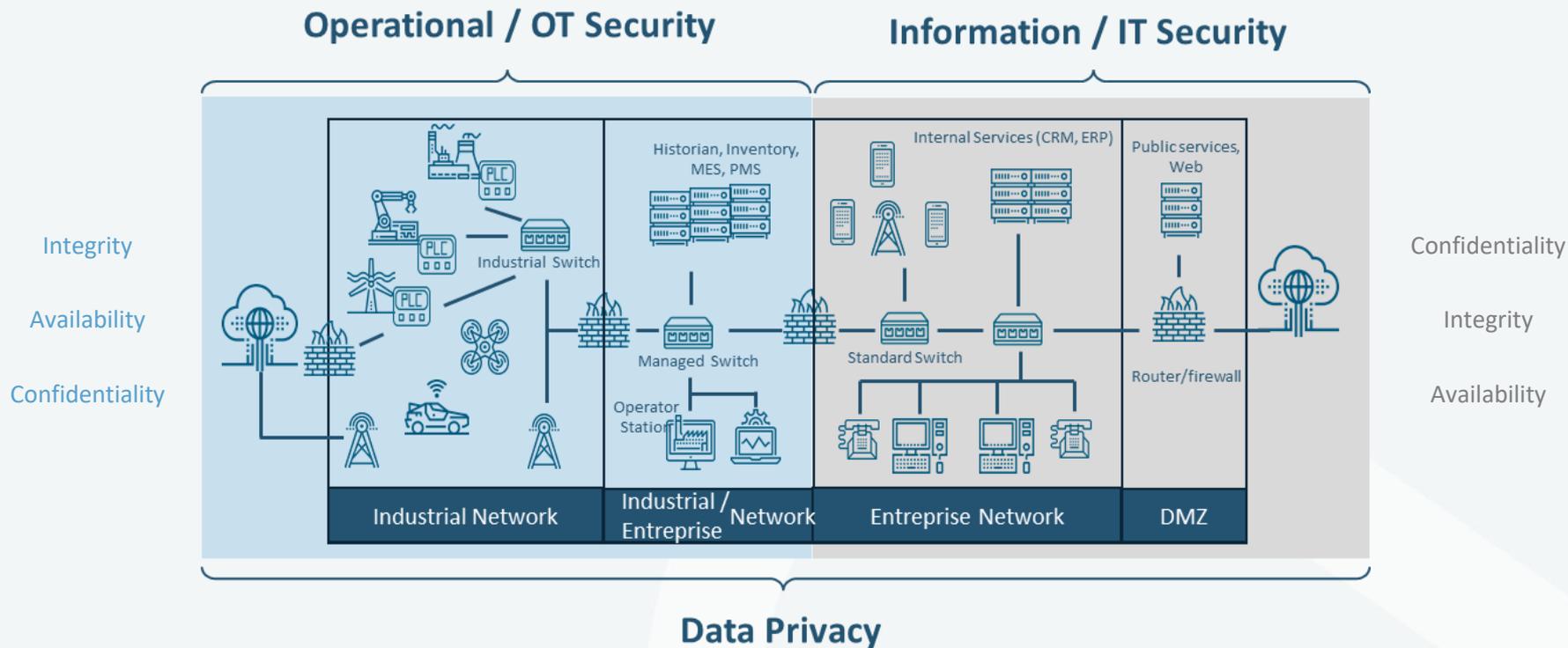
Experts in Functional Safety and Cybersecurity with Swiss DNA and Quality. Innovations at heart, pragmatic in style.



We co-write the standards for future automated systems, autonomous mobility and cyber security



Safety and Cyber security services for critical systems in all domains





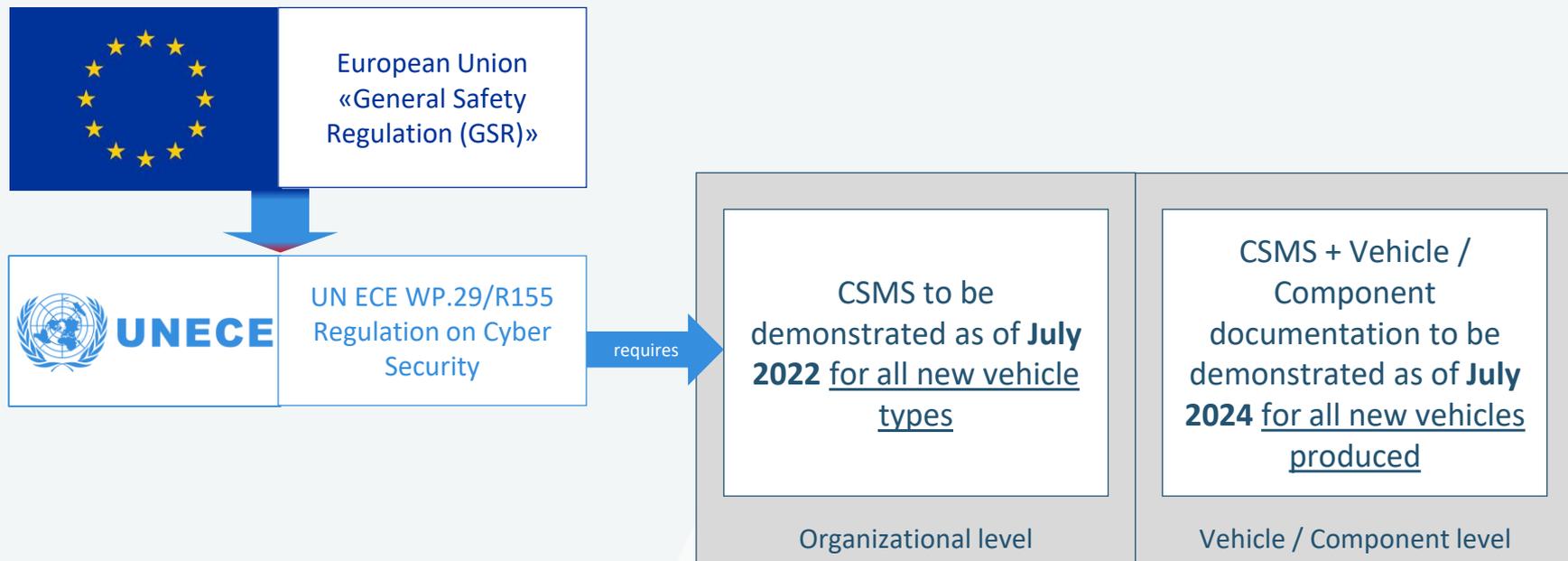


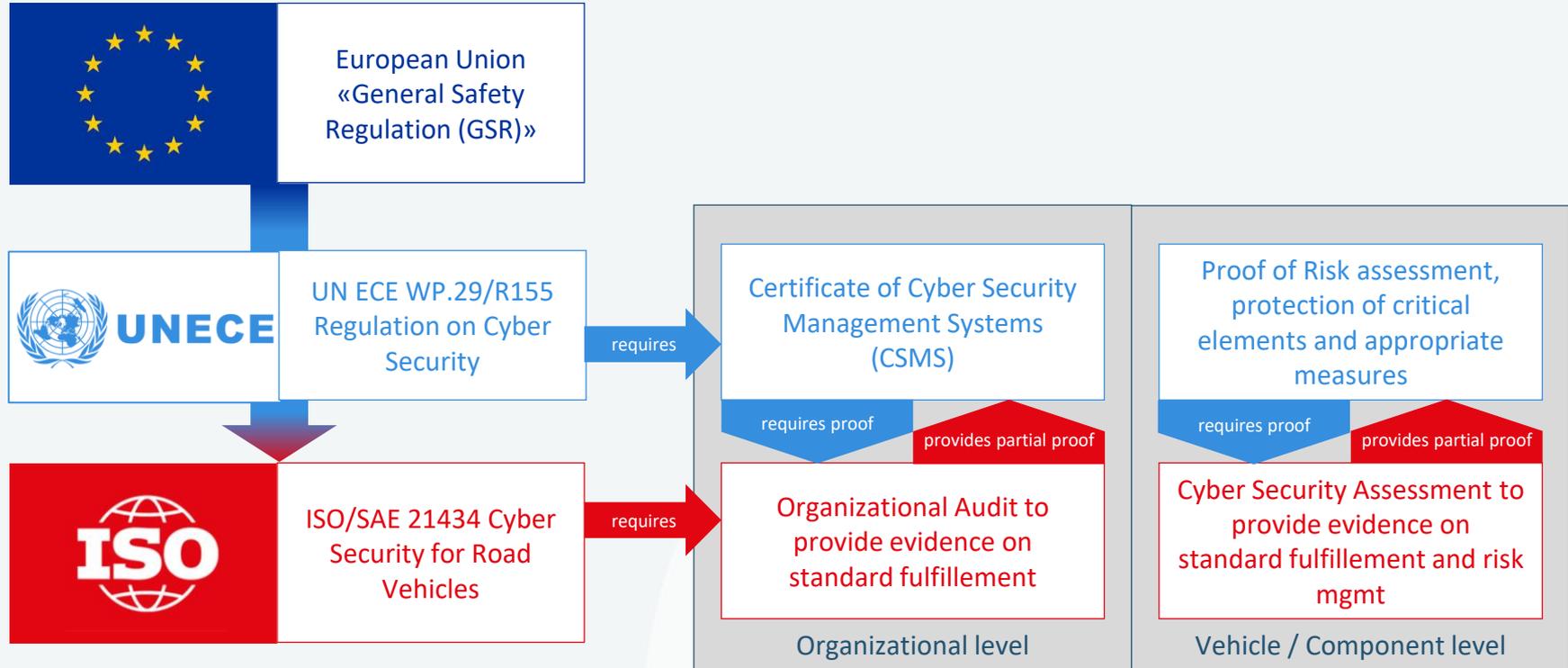
Source: Wired

Chrysler had to recall 1.4 million vehicles after (ethical) hackers could remotely hijack a Jeep's over the Internet.

.... apart from the commercial damage
a large loss in reputation and public acceptance

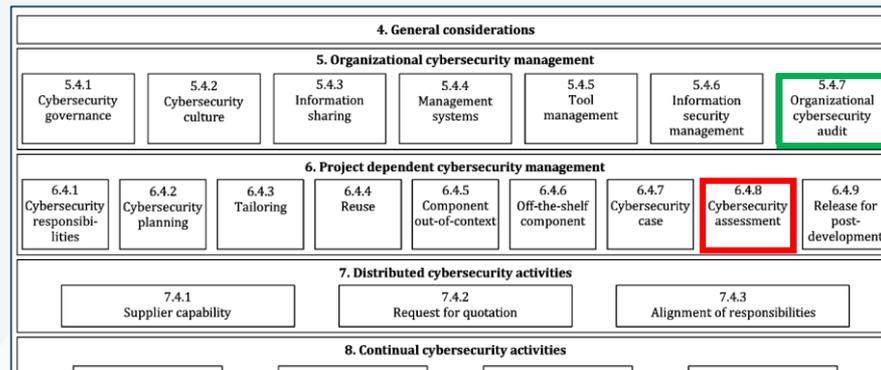
... will become mandatory for critical infrastructure but concerns all connected systems





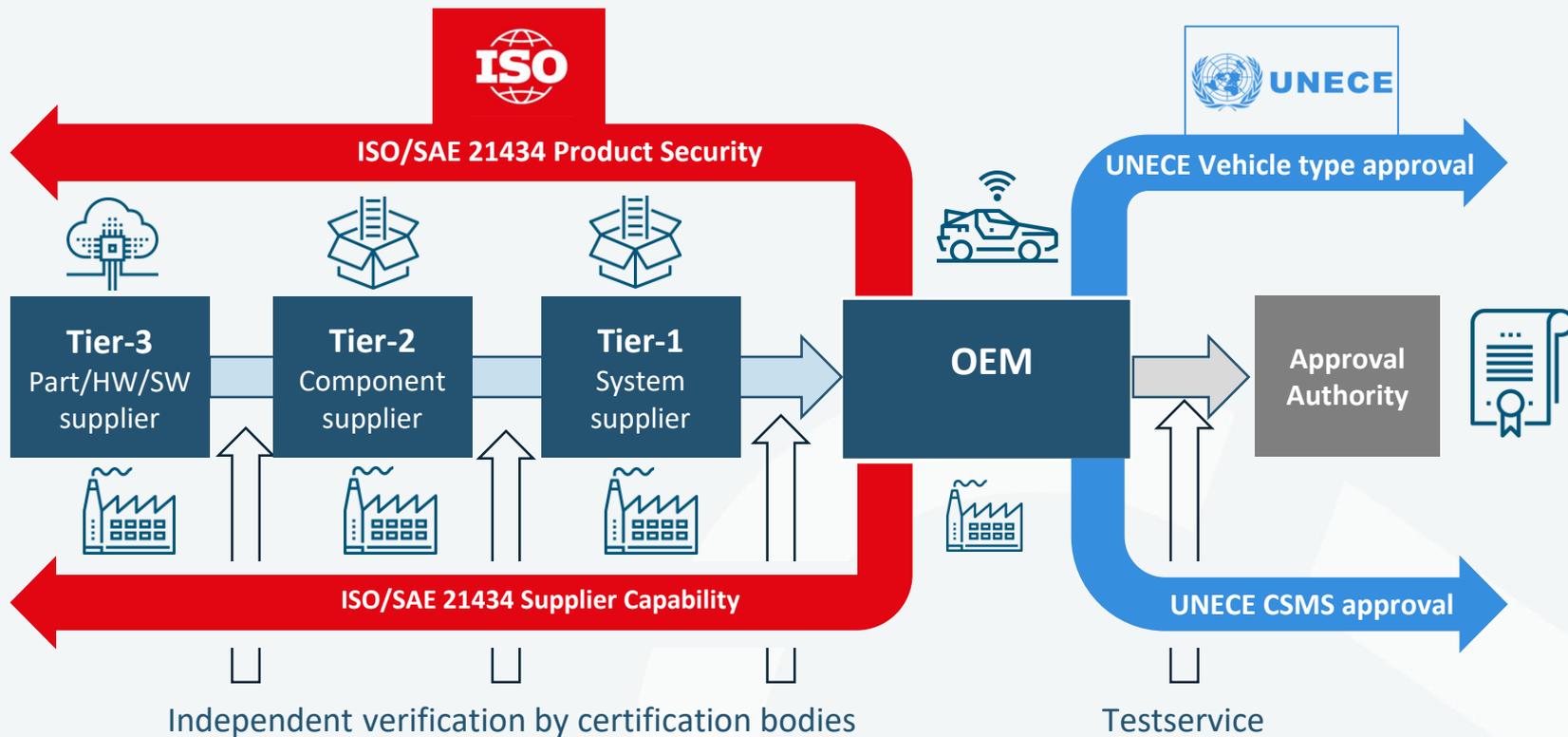
On project level:

- Vehicle / Component-specific work product and records
- Independent Cyber Security Assessment Report required** (= evaluation of the evidence of security measures on product / vehicle level)



On organizational level

- Cyber Security Management System (CSMS)
- Independent Cyber Security Audit Report required**





Education

- **Awareness sessions for managers and engineers** on best security practices (e.g. threat modelling, penetration tests...)
- **Certifiable trainings** on key standards (e.g. ISO/SAE 21434 Automotive Security Red Belt)

Gap Analysis

- **Identification of relevant references** for different customer sectors
- **Third-party compliance checks on product**
- **Third-party compliance checks on processes**

Certifications

- **Certification of products**
- **Certification of processes**
- **Certification of management systems**

Specific support

- process design and implementation
- best practices implementation
- discussion with authorities

Further questions ?

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