



ISO-SAE 21434 Road vehicles – Cybersecurity Engineering

General Overview

Standardizing Cybersecurity Engineering

Goals of the Initiative

The future standard shall...

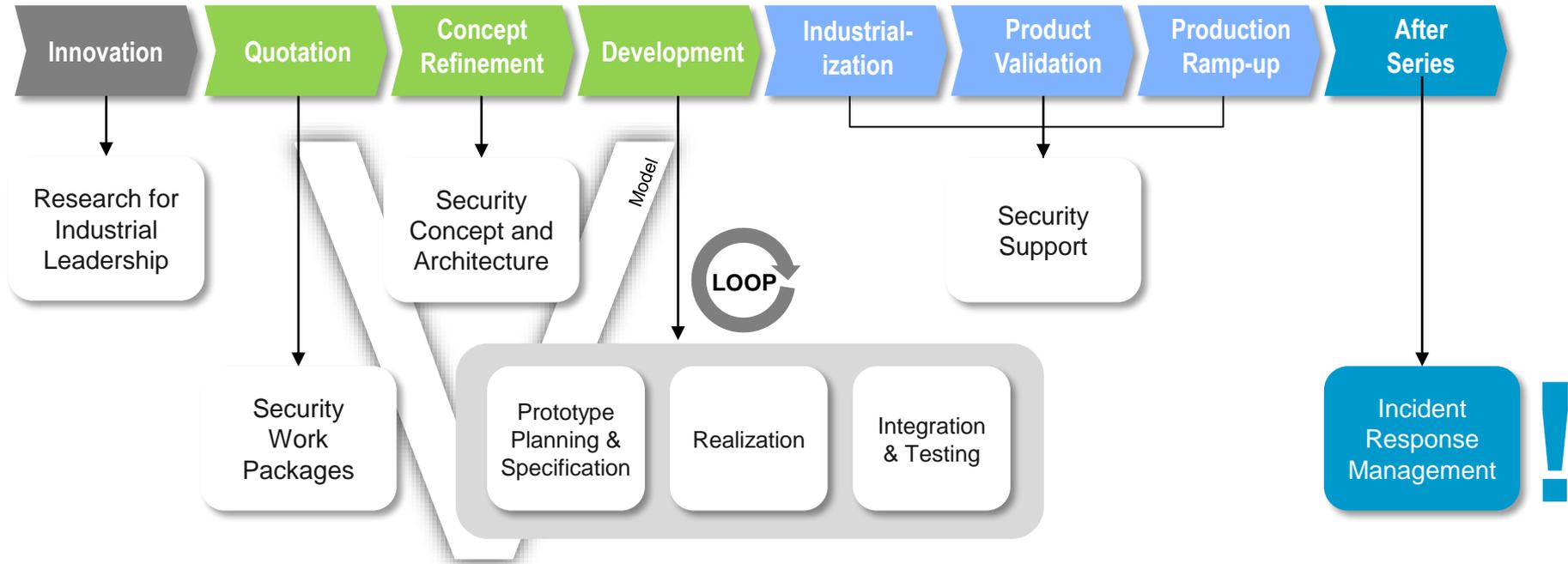
1. Give uniform definition of notions relevant to automotive security
2. Specify minimum requirements on security engineering process and activities and define – wherever possible – criteria for assessment
3. Describe the state of the art of security engineering in automotive E/E development

Targeted effects on automotive industry

- › Common and internationally agreed understanding of automotive cybersecurity engineering
- › Sufficient rigor as reference for legislative institutions; ensure legal certainty

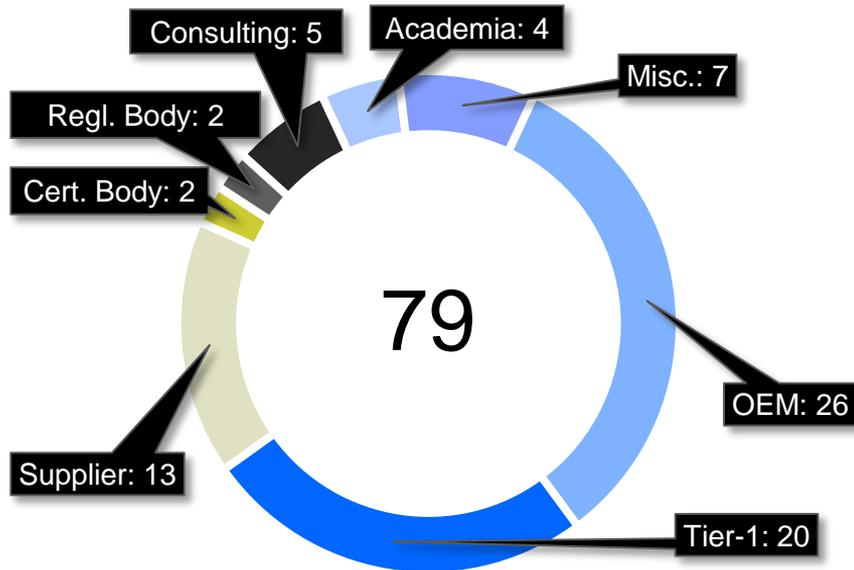
Standardizing Cybersecurity Engineering

Security in the whole Product Life Cycle



Road Vehicles – Cybersecurity Engineering

ISO TC22/SC32/WG11 - ISO/SAE 21434 - Structure



Secretaries

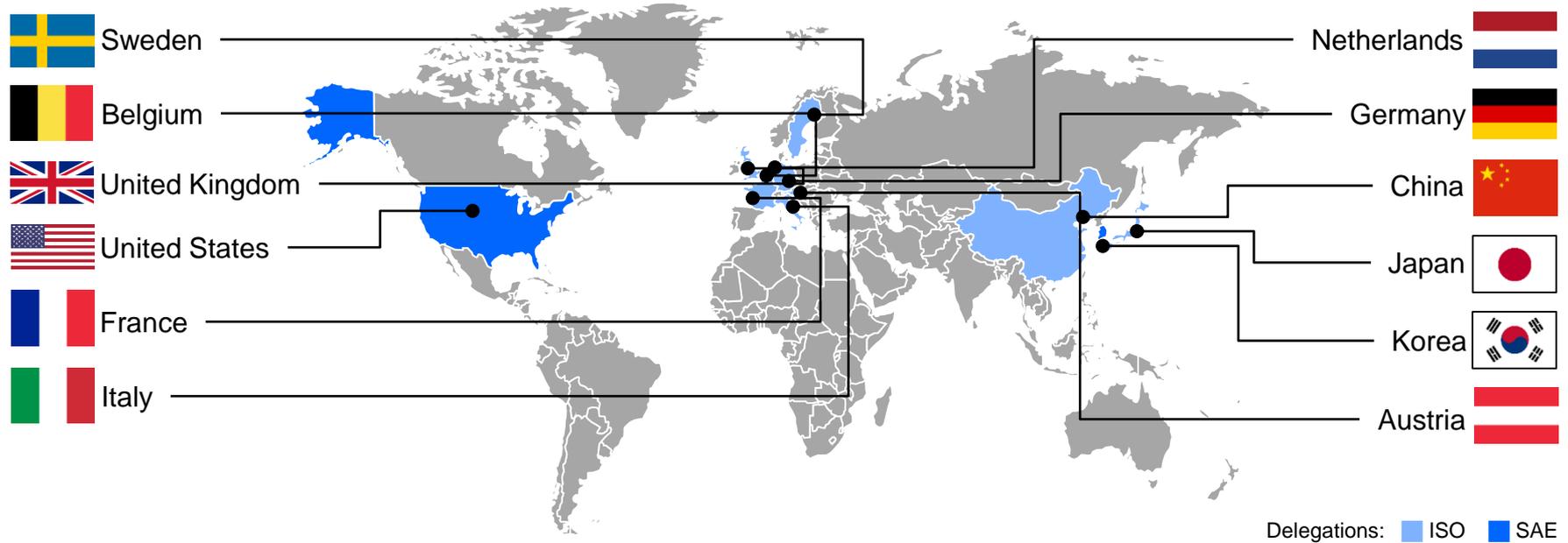
- ISO: Stephan Krähnert (DIN/VDA)
- SAE: Tim Weisenberger

Co-Convenors

- ISO: Dr. Gido Scharfenberger Fabian (carmeq/VW; DE)
- SAE: Lisa Boran (Ford. Inc; US)

Road Vehicles – Cybersecurity Engineering

ISO/SAE 21434 - National Delegations



Road Vehicles – Cybersecurity Engineering

ISO/SAE 21434 – Scope

This document specifies **requirements for cybersecurity risk management** for road vehicles, their components and interfaces, throughout engineering (e.g. concept, design, development), production, operation, maintenance, and decommissioning.

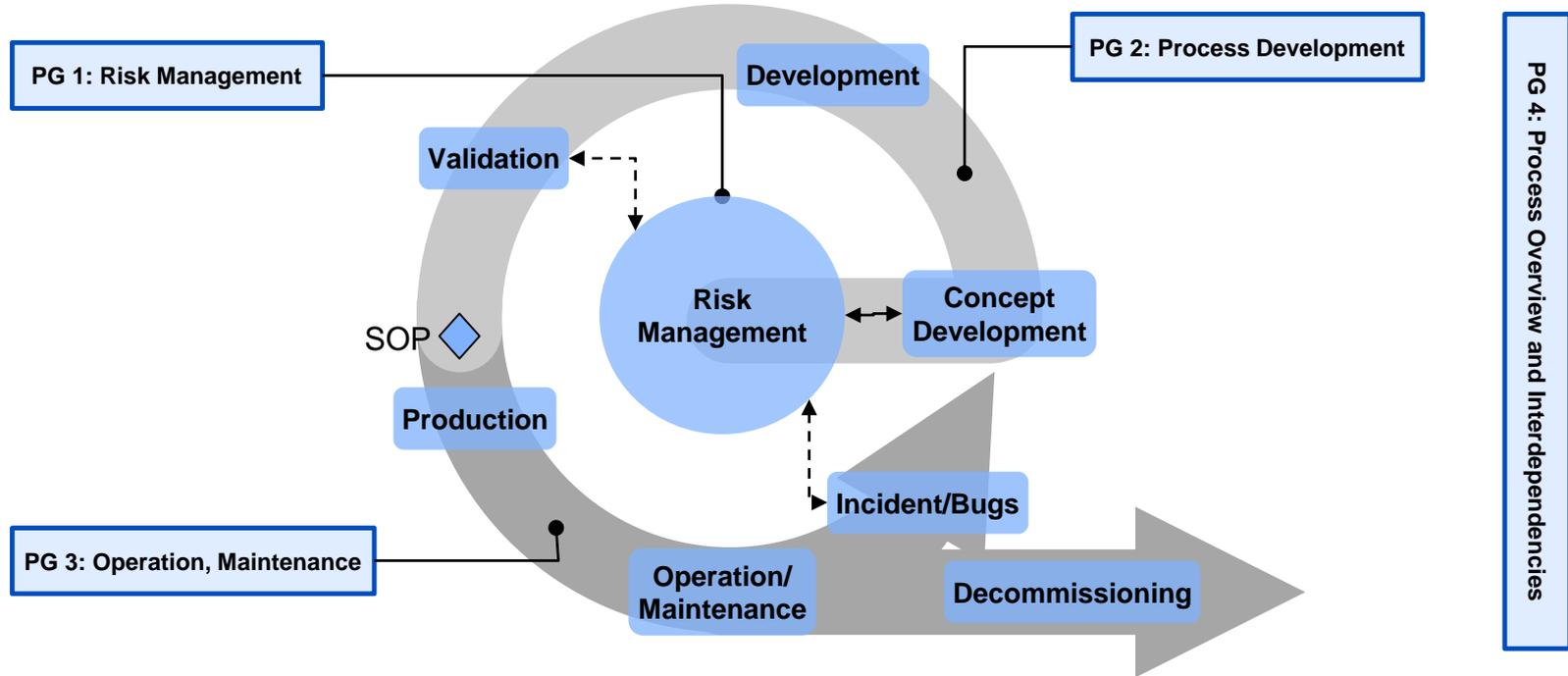
A **framework** is defined that includes requirements for a **cybersecurity process** and a **common language for communicating and managing cybersecurity risk** among stakeholders.

This document is applicable to **road vehicles** that include electrical and electronic (E/E) systems, their interfaces and their communications.

This document does **not prescribe specific technology or solutions** related to cybersecurity.

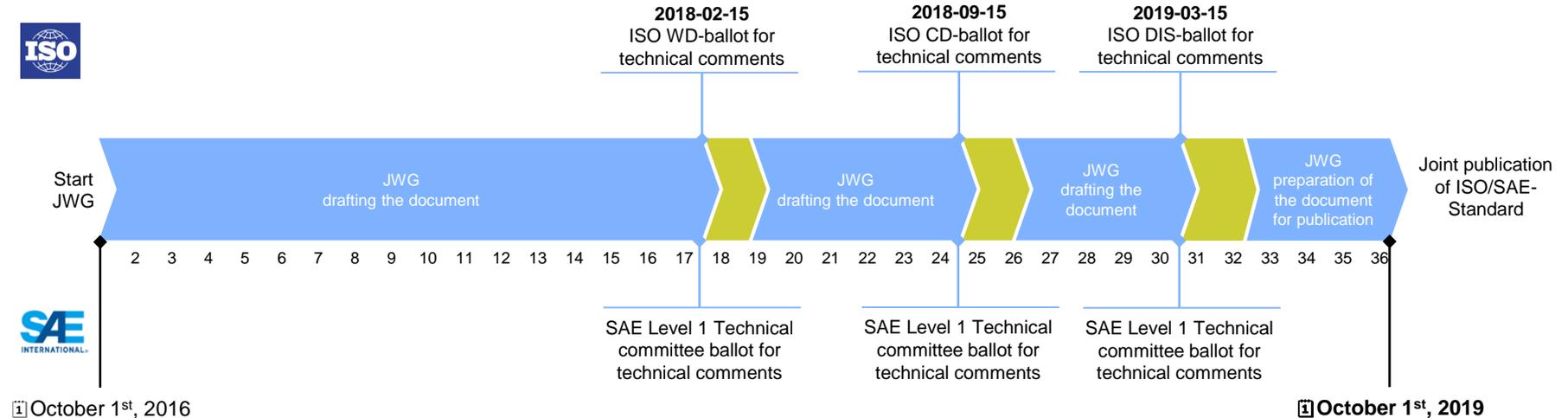
Road Vehicles – Cybersecurity Engineering

ISO/SAE 21434 – Project Groups



Road Vehicles – Cybersecurity Engineering

ISO/SAE 21434 – Overall Schedule



CD: Committee Draft; DIS: Draft International Standard; FDIS: Final Draft International Standard