

Product Security for Trusted Electronics: A Holistic Approach

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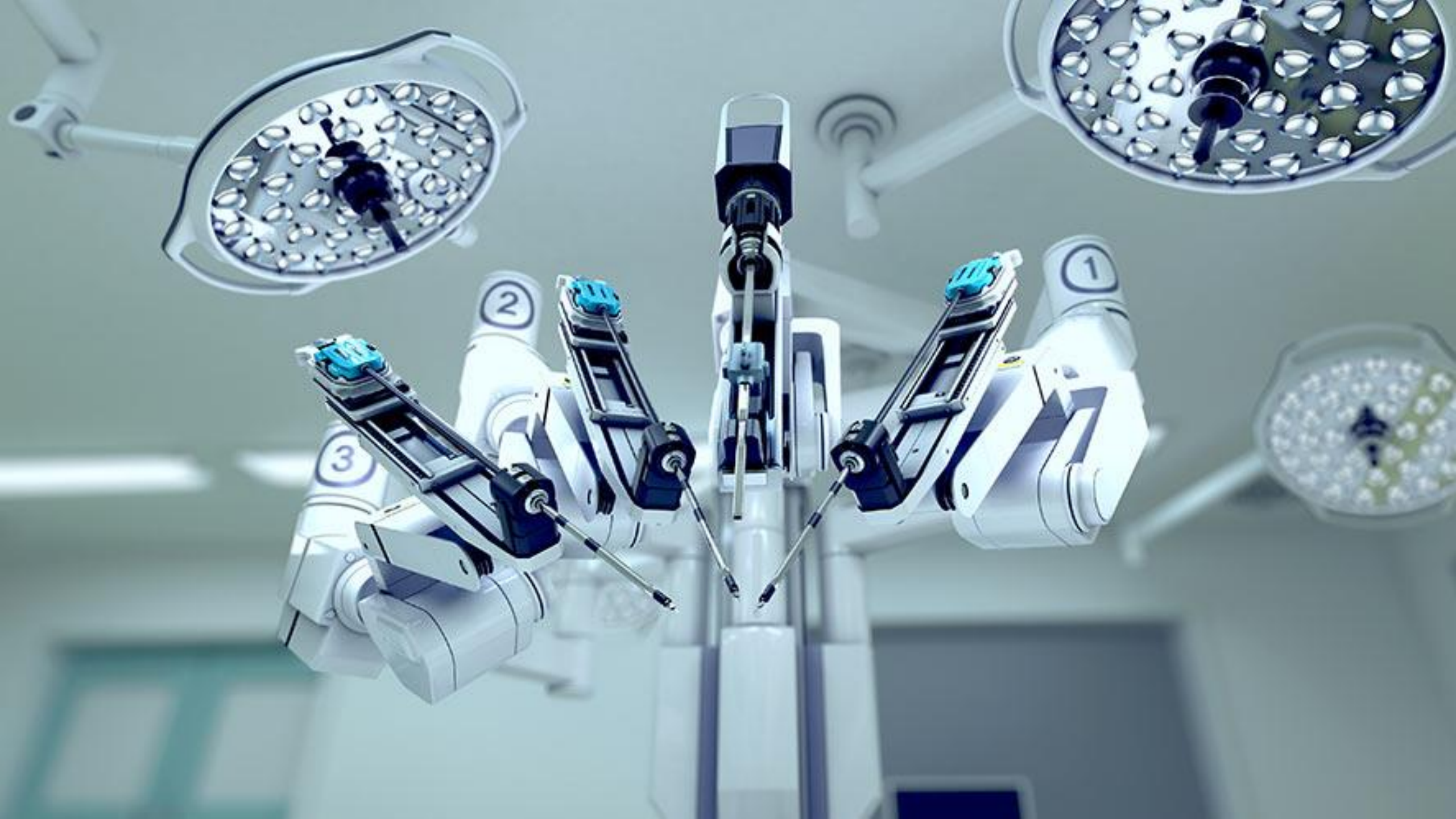












Inter-Connectivity
Autonomy
Automated decision-making
AI



A person wearing a dark hoodie is seen from behind, sitting at a desk in a dimly lit room. They are looking at several computer monitors. The monitors display various data, including a world map on the left, and code or system logs on the others. The background is dark with some blurred lights, suggesting a server room or a control center. The overall atmosphere is mysterious and tech-oriented.

What about
cybersecurity?



CE

EU consumers may have different preferences when it comes to the colour or brand of products such as a new laptop or a toy for their children. **At the same time, they expect all products on the market to be safe.**

The image shows three weathered wooden directional signs mounted on a vertical wooden post. The signs are arrow-shaped, pointing to the left. The top sign contains the text 'SECURE BY DESIGN', the middle sign contains 'SECURE BY DEFAULT', and the bottom sign is blank. The background is a blurred forest scene with green foliage and sunlight filtering through the trees, creating a bokeh effect.

SECURE BY DESIGN

SECURE BY DEFAULT



Learning from the world of medical devices





Shared Responsibility

- “Medical Device Security is a **shared responsibility**”
 - Health care facilities, patients, providers, and manufacturers of medical devices.
- Consider the **environment** where the device will operate.
- **Who has access** to the device? (e.g. Doctors? Patients? Hospital staff?)
- How is the device **updated**? Who performs maintenance?



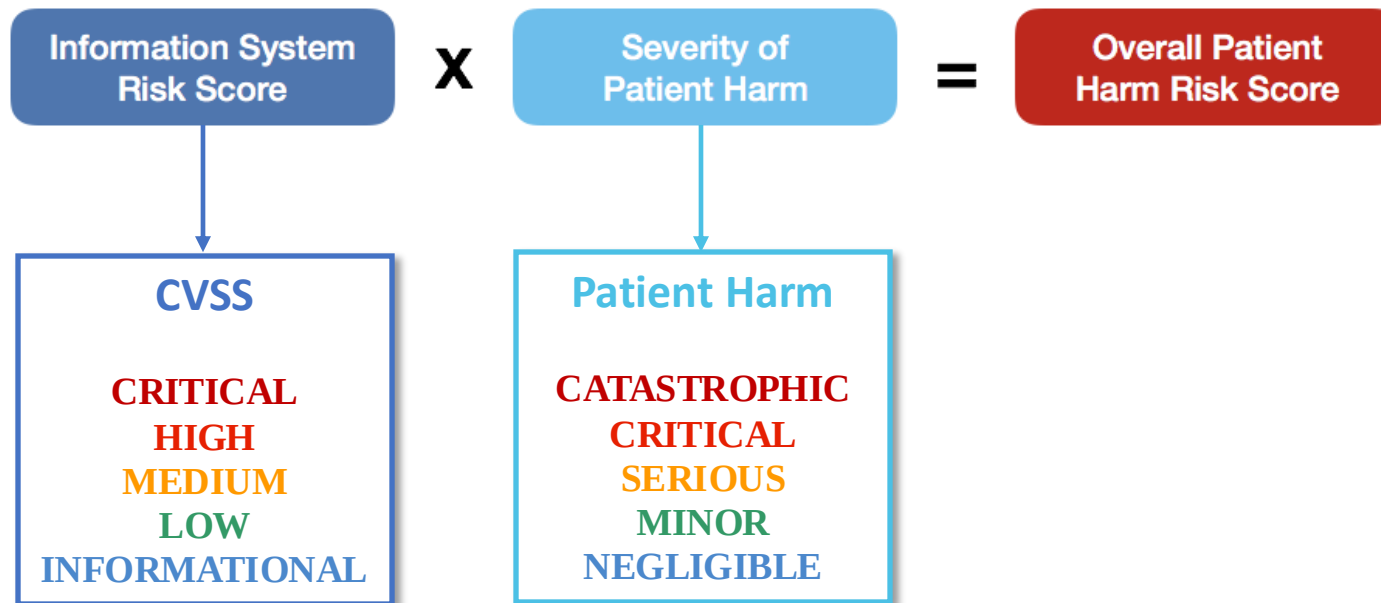
Traceability

- ◆ “Provide **traceability** between the **threat model**, cybersecurity **risk assessment**, **SBOM**, and **testing documentation**.”
- ◆ Traceability starts at the risk assessment and requirements phase.
- ◆ Threats are identified during Threat Modelling.
- ◆ Mitigating controls are selected.
- ◆ An assessment checks the adequacy of the controls and reveals vulnerabilities.



Focus on Actual Risk

◆ E.g.: patient harm



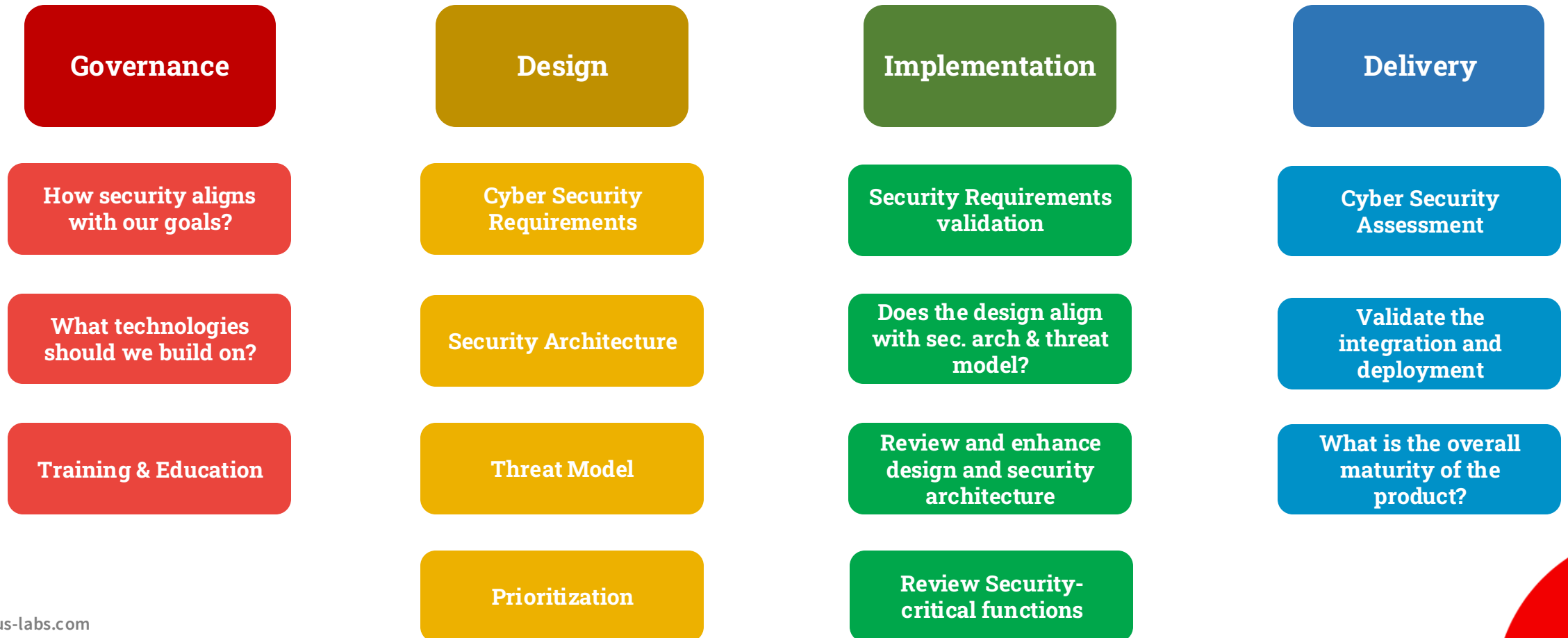


Secure Development Lifecycle

◆ Use of a **Secure Product Development Framework**



CENSUS Approach to Product Security – Secure by Design





Who we are – Our DNA

We are a cybersecurity powerhouse delivering **professional services** to our clients

- **Cybersecurity engineering**
- **Scientific superiority**
- **Hacking Core**
- **Research** is the result of the above and our path for existence

80 Security engineers 15+ Years of innovation

Company certified for quality and security management systems



Our Mission

Safeguard the digital now, especially in **critical domains**. Provide expert cybersecurity consulting incited from both **outstanding research and deep experience**.

Our Vision

To be universally acknowledged as a **unique information security services provider** in an emerging digital world.



CENSUS
Cybersecurity Engineering

Thank you!