



CERTAINTY

The European Cyber Resilience Act

Get your House in Order Before the New Legislation Hits

Partner | Head of Security Engineering

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- Doctorate in computer science with focus on information security and risk management
- Over 15 years of professional experience working as IT, Management, and Security Consultant as well as Software Engineer
- Industry know-how: Financial service providers, transportation companies, energy suppliers, automotive manufacturers and suppliers

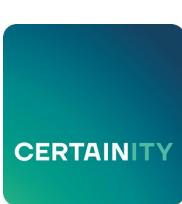


Agenda

- **Who** is affected?
- **What** is required?
- **How** are you doing?
- **Why** should you start immediately with the preparation?

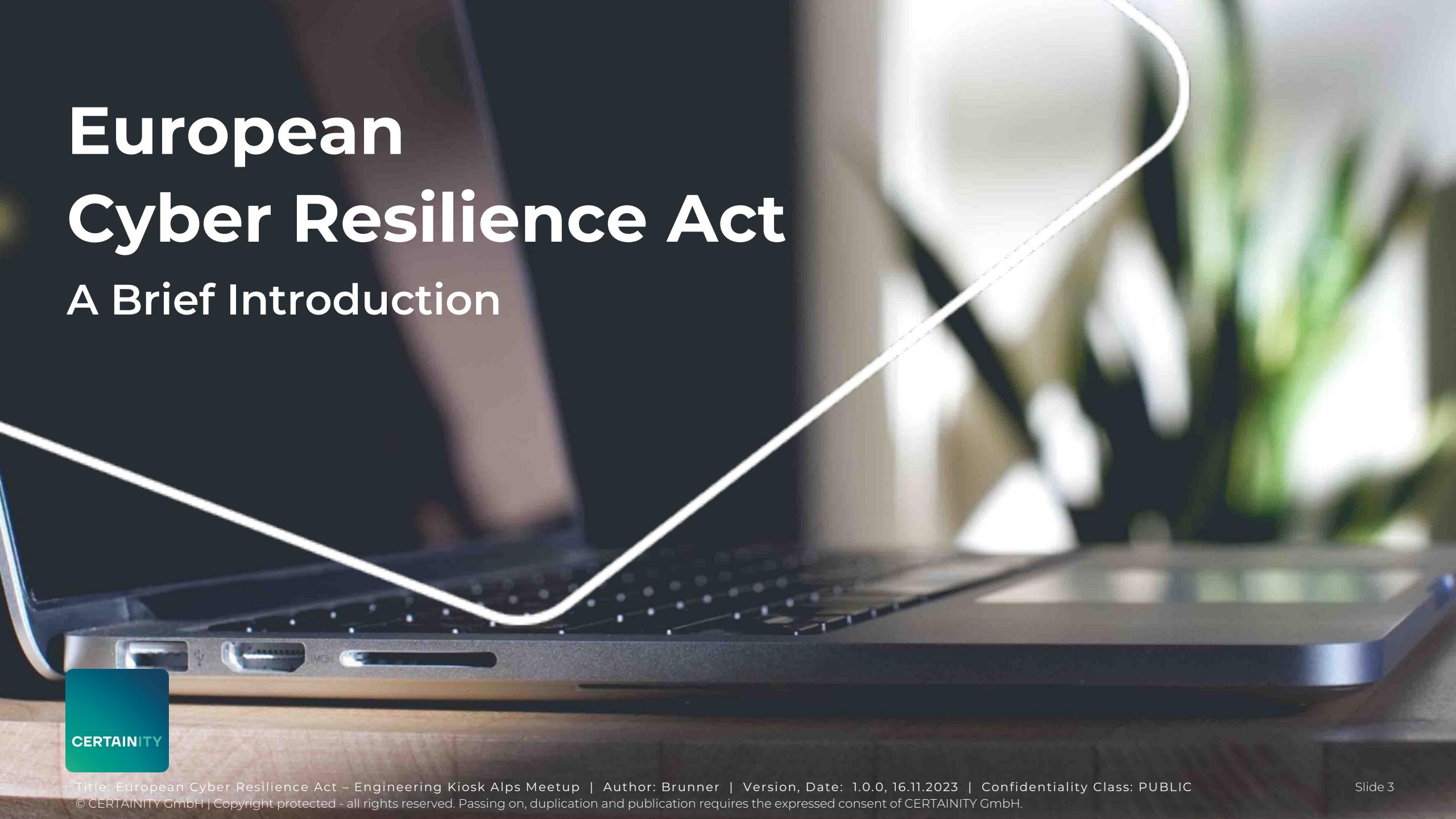


DISCLAIMER



European Cyber Resilience Act

A Brief Introduction



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European Cyber Resilience Act – The Big Picture

Hardware and software products are increasingly affected by successful cyberattacks. The estimated global cost of cybercrime in 2021 was 5.5 Trillion EUR.

- The European Cyber Resilience Act is an essential component of the EU cyber security strategy
- Broadly regulates all products and industries that have not yet been covered by separate regulations - especially software development in the non-embedded area



Scope of Application

Who is affected?

The logo consists of the word "CERTAINITY" in white, sans-serif capital letters, centered on a teal-colored rounded square.

Scope in EU Legalese

This Regulation applies to products with digital elements whose intended or reasonably foreseeable use includes a direct or indirect logical or physical data connection to a device or network.

Definition Product with digital elements: Any software or hardware product and its remote data processing solutions, including software or hardware components to be placed on the market separately.

Definition Remote data processing: any data processing at a distance for which the software is designed and developed by the manufacturer or under the responsibility of the manufacturer, and the absence of which would prevent the product with digital elements from performing one of its functions

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Exceptions: Products [...] to which the regulations (EU) 2017/745, 2017/746, 2019/2144 apply; products [...] certified in accordance with regulation (EU) 2018/1139, products [...] which are developed exclusively for national security or military purposes or to products specifically designed to process classified information, ...



Brussels, 15.9.2022
COM(2022) 454 final
2022/0272 (COD)

Proposal for a

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
on horizontal cybersecurity requirements for products with digital elements and amending Regulation (EU) 2019/1020

(Text with EEA relevance)

{SEC(2022) 321 final} - {SWD(2022) 282 final} - {SWD(2022) 283 final}

EN

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Scope in EU Legalese

This Regulation applies to products with digital elements whose intended or reasonably foreseeable use includes a direct or indirect logical or physical data connection to a device or network.

**Software or Hardware
and its remote data processing solutions
connection to network or device**

Exceptions: Services and Software-as-a-Service as well as products, which are already sufficiently regulated in terms of cybersecurity (Automotive, Aeronautical, Medical products, etc.)

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Exceptions: Products [...] to which the regulations (EU) 2017/745, 2017/746, 2019/2144 apply; products [...] certified in accordance with regulation (EU) 2018/1139, products [...] which are developed exclusively for national security or military purposes or to products specifically designed to process classified information, ...



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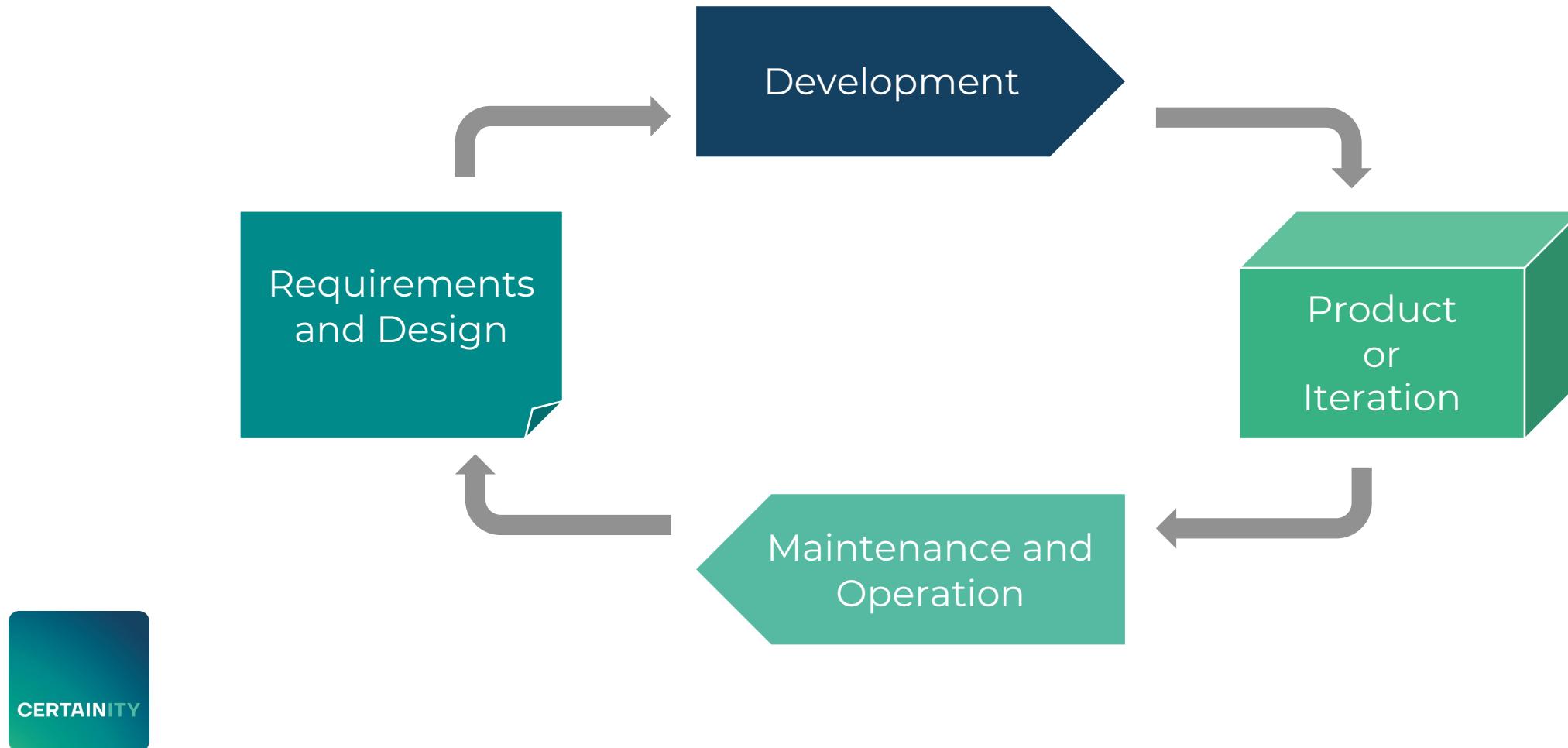
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Requirements and Measures

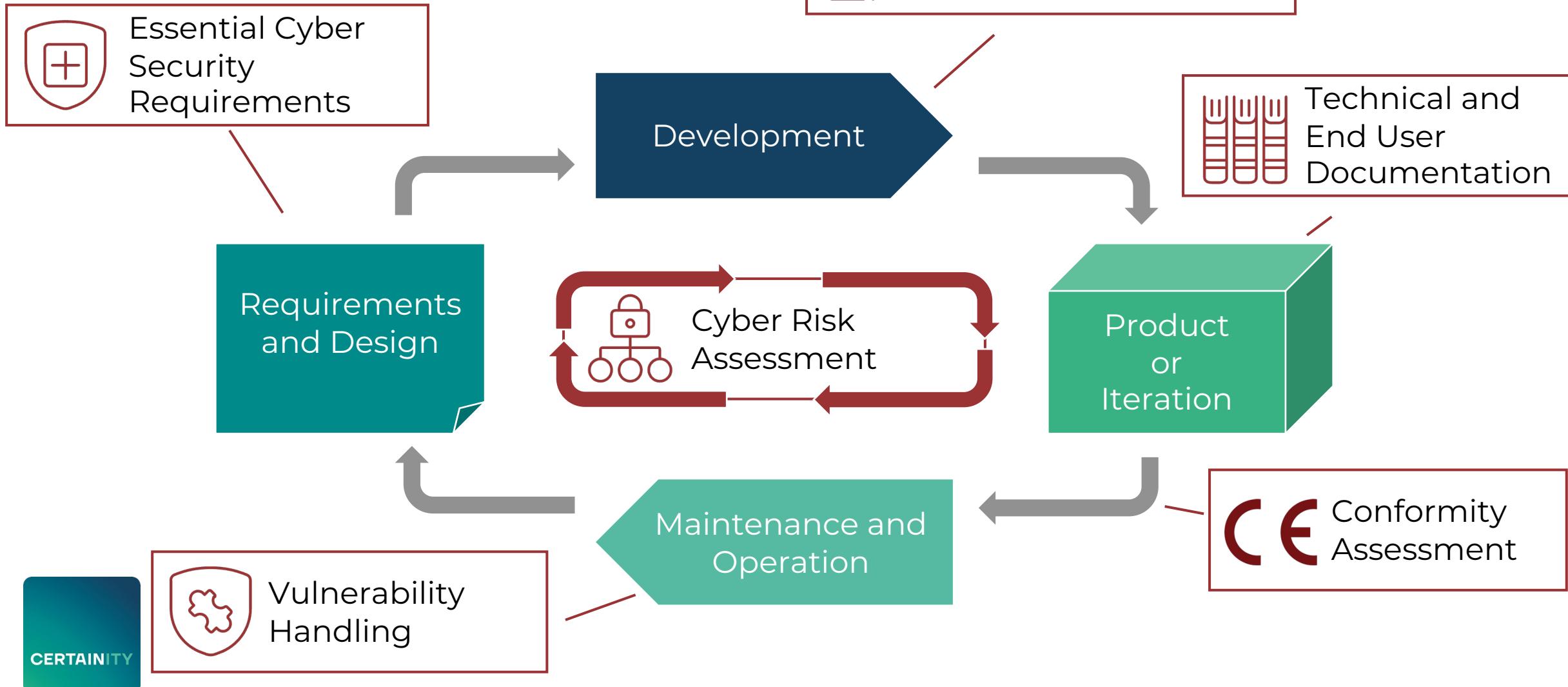
What is required?

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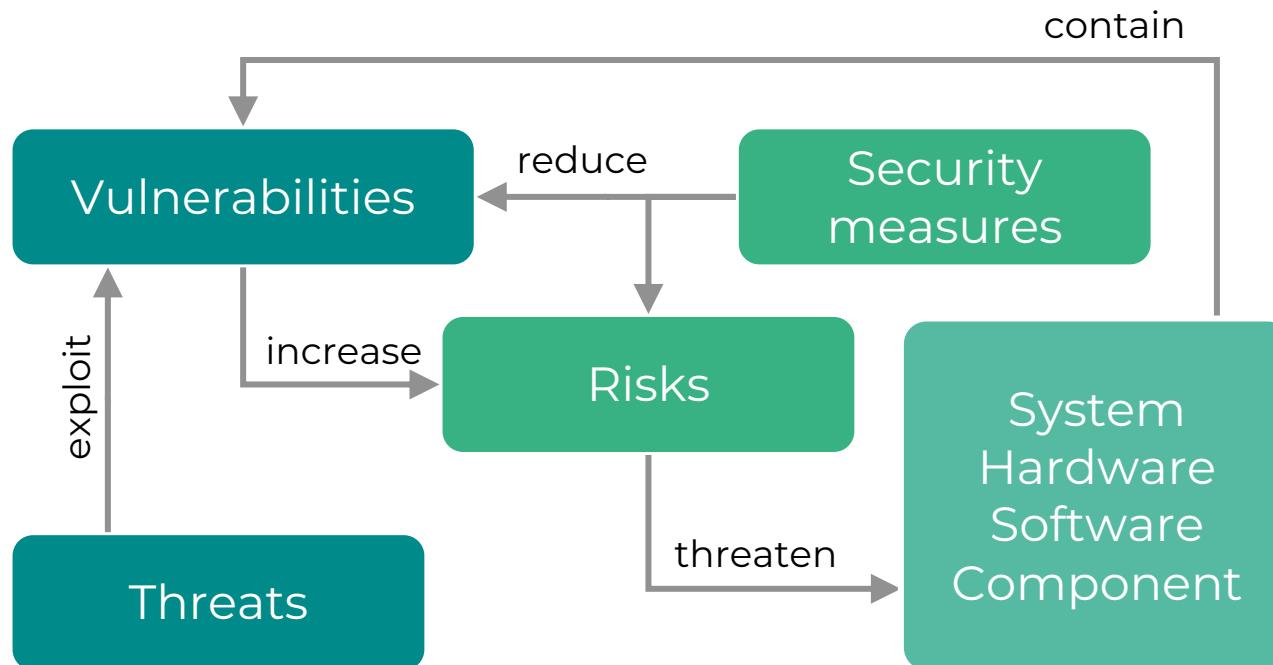
Requirements of the CRA-E



Requirements of the CRA-E



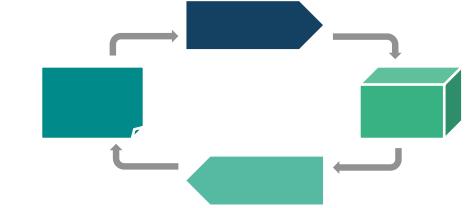
Cyber Security Risk Assessment



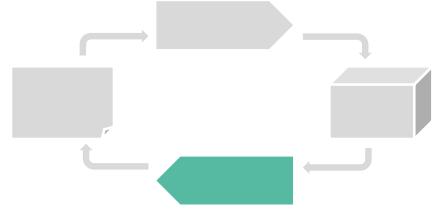
- 1 In addition to an intrinsic consideration, potential effects of security incidents on the health and safety of users must also be considered!
- 2 And: The own negative impact on the availability of services provided by other devices or networks.

3 Consideration of 3rd party and supply chain risks

- Due diligence when integrating 3rd party components
- No degradation of the security properties



Vulnerability handling requirements



Creation of the prerequisite for efficient vulnerability management through implementation of a Product Security Incident Response Team (PSIRT)

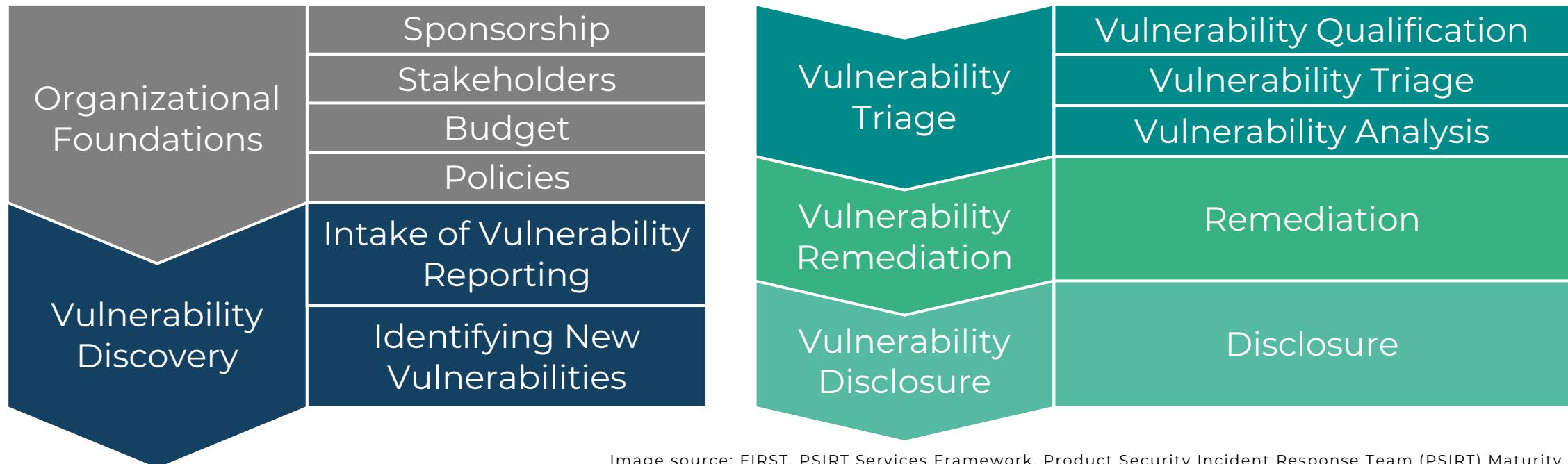
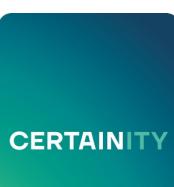
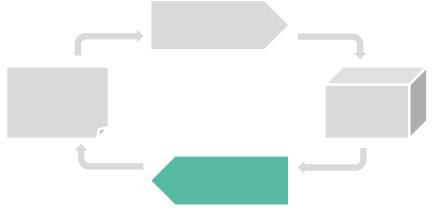


Image source: FIRST, PSIRT Services Framework, Product Security Incident Response Team (PSIRT) Maturity Document, available online at https://www.first.org/standards/frameworks/psirts/psirt_maturity_document

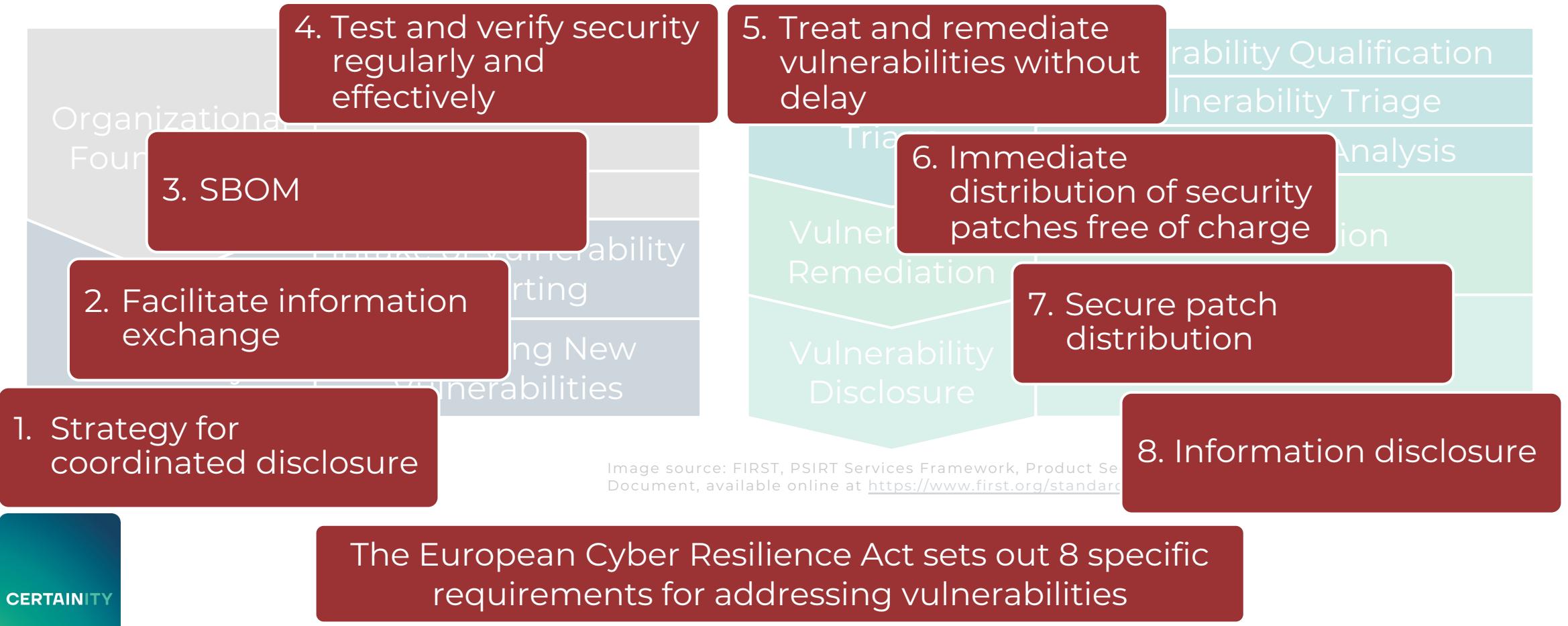


The European Cyber Resilience Act sets out 8 specific requirements for addressing vulnerabilities

Vulnerability handling requirements



Creation of the prerequisite for efficient vulnerability management through implementation of a Product Security Incident Response Team (PSIRT)



Deadlines & Penalties

Why should you start the implementation now?

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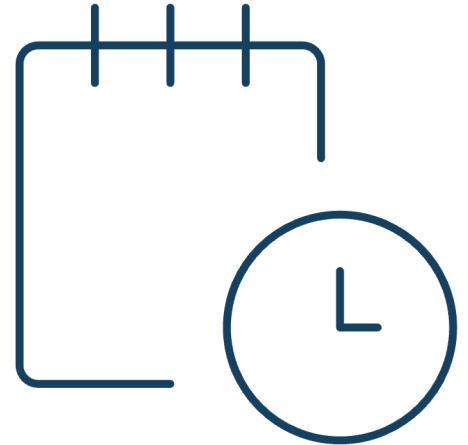
Penalties



CERTAINITY	Non-compliance with essential requirements and violations of specified duties	Non-compliance with other obligations	False, incomplete or misleading information provided to market surveillance authorities
	€ 15.000.000 2,5 % Revenue (worldwide, prior year)	€ 10.000.000 2 % Revenue (worldwide, prior year)	€ 5.000.000 1 % Revenue (worldwide, prior year)

Deadlines for the implementation of the CRA-E requirements

- Based on current knowledge, the European Cyber Resilience Act is expected to come into force in 2024.
- Significant simplifications are not expected according to the latest amendment proposals and current developments



2022

2023

2024

Entry into force CRA-E
EiF

Proposal EU Commission
(September 2022)



Proposed Amendments SE
(May 2023)

Vulnerability
Reporting
EiF + 12M

Complete
Implementation
EiF + 24M

Cyber Resilience Act Preparedness Study – Challenges stated by participating companies

Development	Vulnerability Handling	Documentation
<h2>Personnel and Resources – Costs and Time</h2> <p>Utilization Qualification Security Budget</p>		
Management Support	Automation	Continuous Updates
Customer Expectations	Heterogeneous Tech Stacks in Complex Products	Varying Quality of Documentation
Heterogeneous Process Environment	Legacy Components	SBOM
Excessive Regulation	Communication Customers	Motivation
	Lack of Predictability	

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Conclusio

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CERTAINITY GmbH

reliable. trustworthy. bespoke.



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