

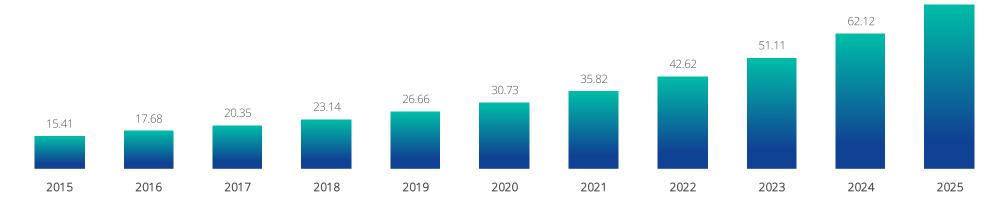
### The Cyber Resilience Act

Maika Fohrenbach, DG CONNECT, European Commission



## Everything is connected

- Large majority of vulnerabilities exploitable over the Internet
- Impact assessment: no incentives to produce secure by design hardware and software



Internet of Things devices worldwide from 2015 to 2025 (in billions)



Source: Forbes/IHS

75.44

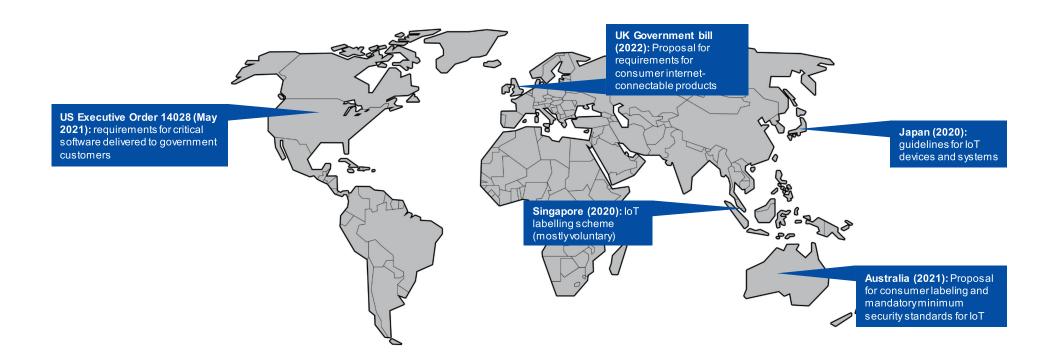
### Impact of security incidents

- Average cost of a data breach for individual businesses was EUR 3.5 million in 2018.
- Statistically speaking, every 11 seconds another organisation is hit by a ransomware attack.
- In 2021 alone cybercriminals were able to leverage hacked devices and launch 9.75 million DDoS attacks worldwide.
- \* 57% of SMEs say they would go out of business in the event of a cybersecurity attack.
- The aggregate cost of security incidents affecting businesses in Germany amounts to EUR 220 billion in 2020.

Sources: Ponemon Institute, Cybersecurity Ventures, Netscout, ENISA, Bitkom

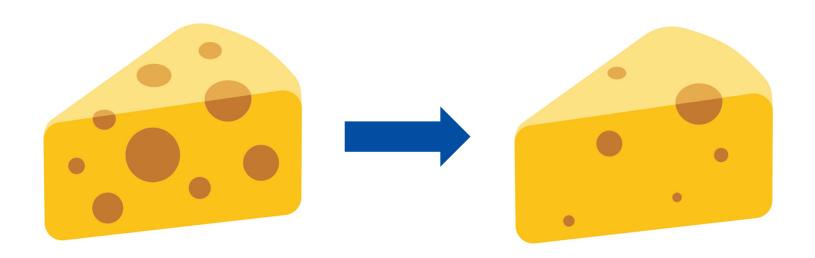


# Third-country initiatives





# CRA in a nutshell





### Main elements of the proposal

- Cybersecurity rules for the placing on the market of hardware and software
- Based on New Legislative Framework (well-established EU product-related legislative setting)
- Obligations for manufacturers, distributors and importers
- Cybersecurity essential requirements across the life cycle (5 years)
- Harmonised standards to follow
- Conformity assessment differentiated by level of risk
- Market surveillance and enforcement



#### Scope

#### **Products with digital elements:**

- Hardware products and components placed on the market separately, such as laptops, smart appliances, mobile phones, network equipment or CPUs
- Software products and components placed on the market separately, such as operating systems, word processing, games or mobile apps
- The definition of "products with digital elements" also includes remote data processing solutions.

#### Not covered:

- Non-commercial projects, including open source in so far as a project is not part of a commercial activity
- **★ Services, in particular cloud/Software-as-a- Service** − covered by N/S2

#### **Outright exclusions:**

Certain products sufficiently regulated on cybersecurity (cars, medical devices, in vitro, certified aeronautical equipment) under the new and old approach



## Obligations of manufacturers

Assessment of the risks associated with a product

- (1) Product-related essential requirements (Annex I, Section 1)
- (2) Vulnerability handling essential requirements (Annex 1, Section 2)
- (3) Technical file, including information and instructions for use (Annex II + V)

Conformity assessment, CE marking, EU Declaration of Conformity (Annex IV)

Continued compliance with **vulnerability handling** essential requirements throughout the product life time (Annex I, Section 2)

Design and development phase

**Maintenance phase** 

(5 years or across product lifetime, whichever is shorter)

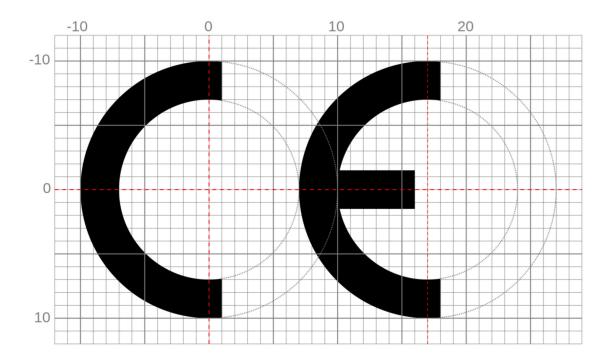
Obligation to report to ENISA within 24 hours:

- (1) exploited vulnerabilities
- (2) incidents having an impact on the security of the product

Reporting obligations to continue



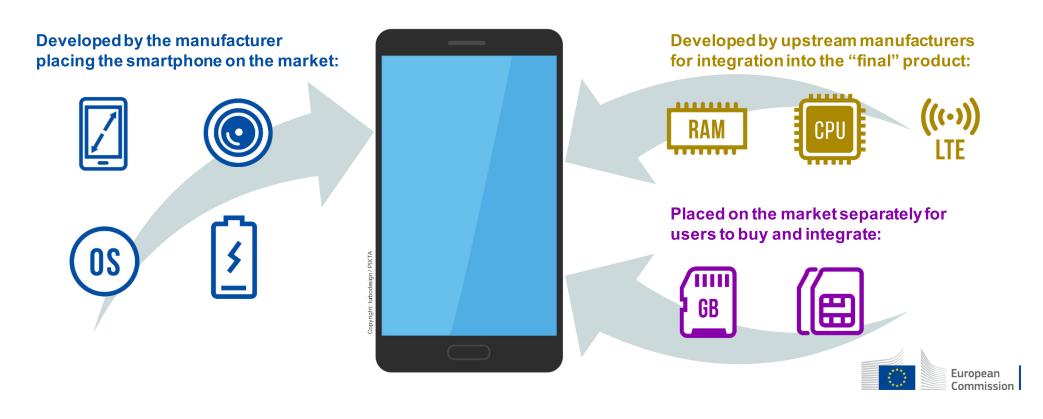
# CE marking





### A simplified example of smartphones

As a rule, whoever places on the market a "final" product or a component is required to comply with the essential requirements, undergo conformity assessment and affix the CE marking.



### Which conformity assessment to follow?

90% of products

Default category

**Self-assessment** 

Criteria:

n/a

**Critical** "Class I"

Application of a standard or third party assessment "Class II"

Third party assessment

#### Criteria:

- **Functionality** (e.g. critical software)
- Intended use (e.g. industrial control/NIS2)
- Other criteria (e.g. extent of impact)

10% of products

Critical

#### Additional criteria:

Highly

critical

**Mandatory EU** 

certification

- Used by NIS2 entities
- Resilience of supply chain

To be amended/specified via delegated acts

#### **Examples:**

Photo editing, word processing, smart speakers, hard drives, games etc.

#### **Examples (Annex III):**

Password managers, network interfaces, firewalls, microcontrollers etc.

#### **Examples (Annex III):**

Operating systems, industrial firewalls, CPUs, secure elements etc.

#### **Examples:**

n/a (empowerment to future-proof the CRA)



#### Harmonised standards

- \* Based on Commission request according to Regulation (EU) No 1025/2012 + Annual Union Work Programme of Standardisation
- To be developed by European Standardisation Organisations (ESOs)
- Steps:
  - As of now, preparatory work to start early on in consultation with all relevant stakeholders
  - EC to adopt standardisation request (comitology procedure) with close consultation of stakeholders and ESOs
  - √ 1 months for ESOs to accept (or otherwise) standardisation request
  - Standardisation work led by ESOs
  - EC accepts or rejects the harmonised standards



### Tentative timeline

