



# Cyber Resilience Act

The regulators are here!

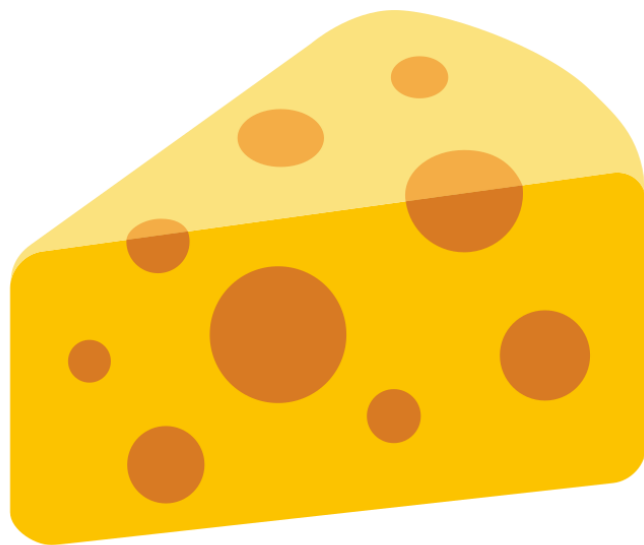
*FOSDEM*

*1 February 2026*

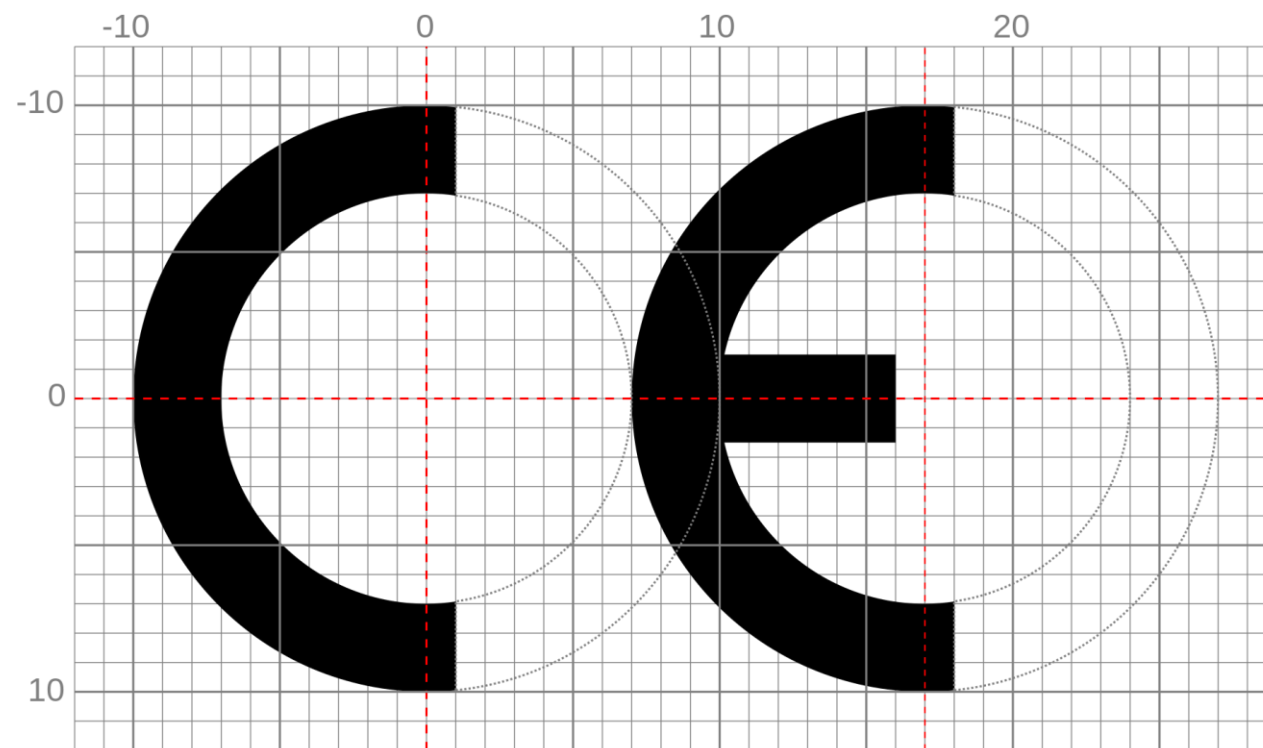
# Who we are

- **Filipe Jones Mourão**  
European Commission, DG Connect
- **Lucía Lanfri**  
CEN-CENELEC
- **Laure Pourcin**  
ETSI
- **Carl-Daniel Hailfinger**  
Federal Office for Information Security (BSI) Germany

# CRA in a nutshell



# CE marking



# In scope: “products with digital elements”



**Hardware products** (including components placed on the market)  
(laptops, smart appliances, mobile phones, network equipment or CPUs...)



**Software products** (including components placed on the market)  
(operating systems, word processing, games or mobile apps, software libraries...)

...including their **remote data processing solutions!**

# Outside the scope



## **Non-commercial products**

(hobby products, non-commercial open source)



## **Services, in particular standalone SaaS (covered by NIS2)**

(websites, purely web-based offerings...)



## **Outright exclusions**

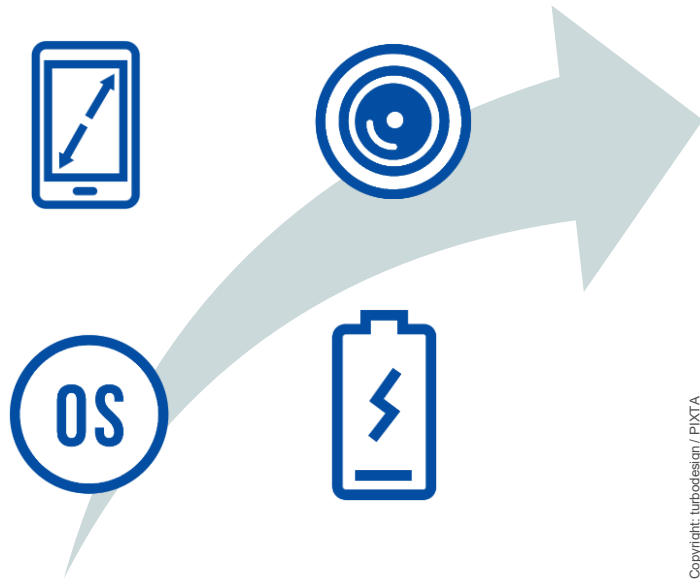
(cars, medical devices, in vitro, certified aeronautical equipment, marine equipment)



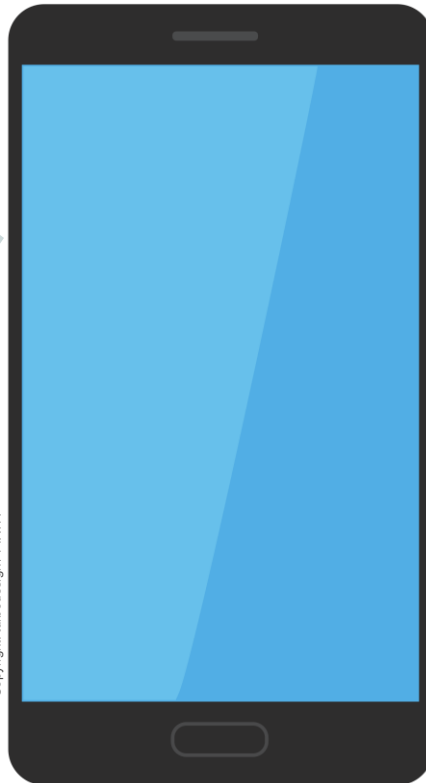
# Supply chain cooperation

*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**.*

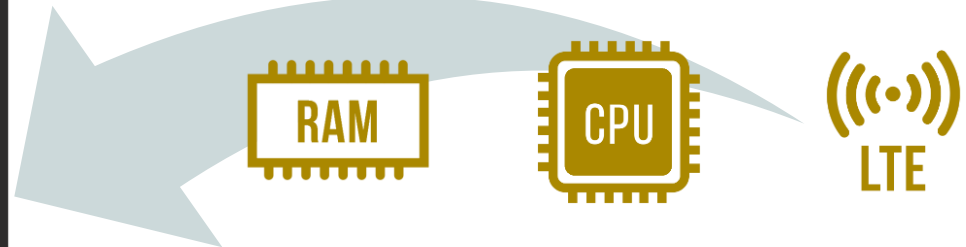
Developed by the manufacturer  
placing the smartphone on the market:



Copyright: turbodesign / PIXTA



Developed by upstream manufacturers  
for integration into the “final” product:



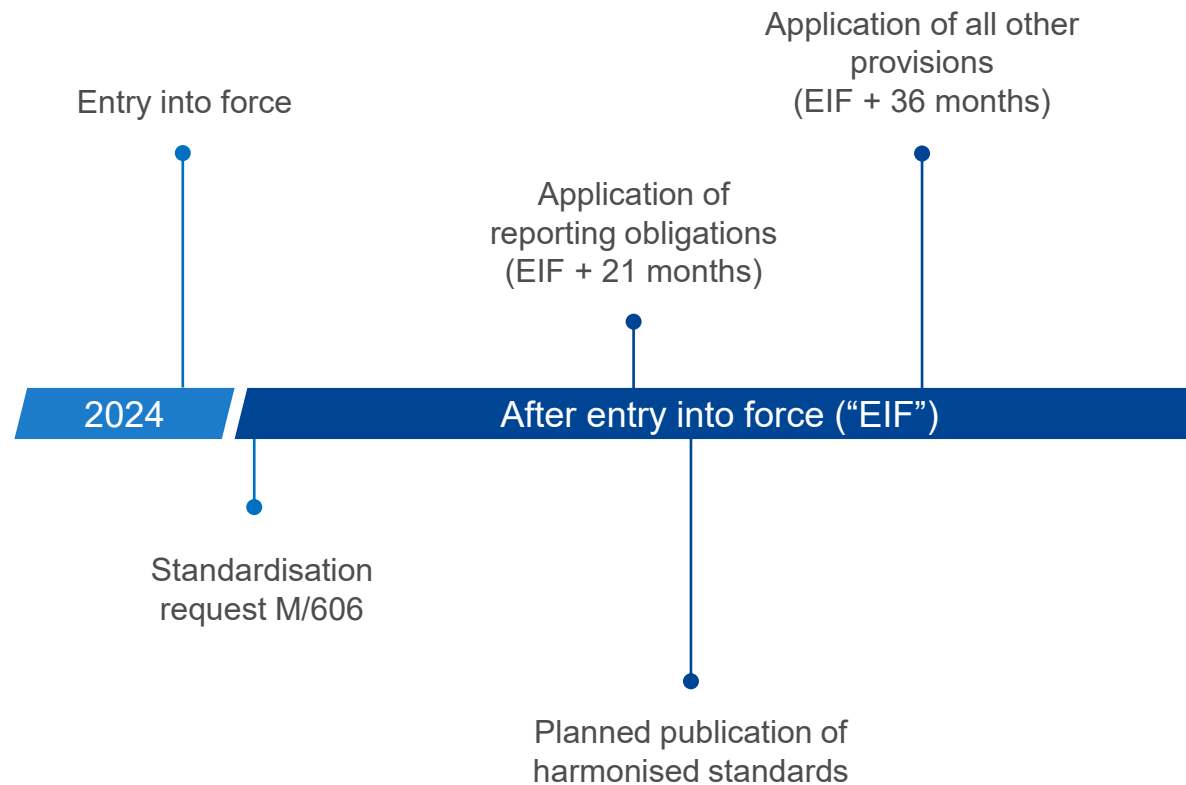
# Approach to open-source

- Only **directly monetised** open-source products subject to full set of obligations
- **Possibility of self-assessment** for open-source products, irrespective of whether they are considered important products or not
- **Obligation for integrators** to provide maintainers of open-source components with available fixes.
- Introduction of the **open-source software steward**:

*Light-touch approach* for organisations that do not directly monetise but support on a sustained basis the development of specific open-source products intended for commercial activities.



# CRA Timeline



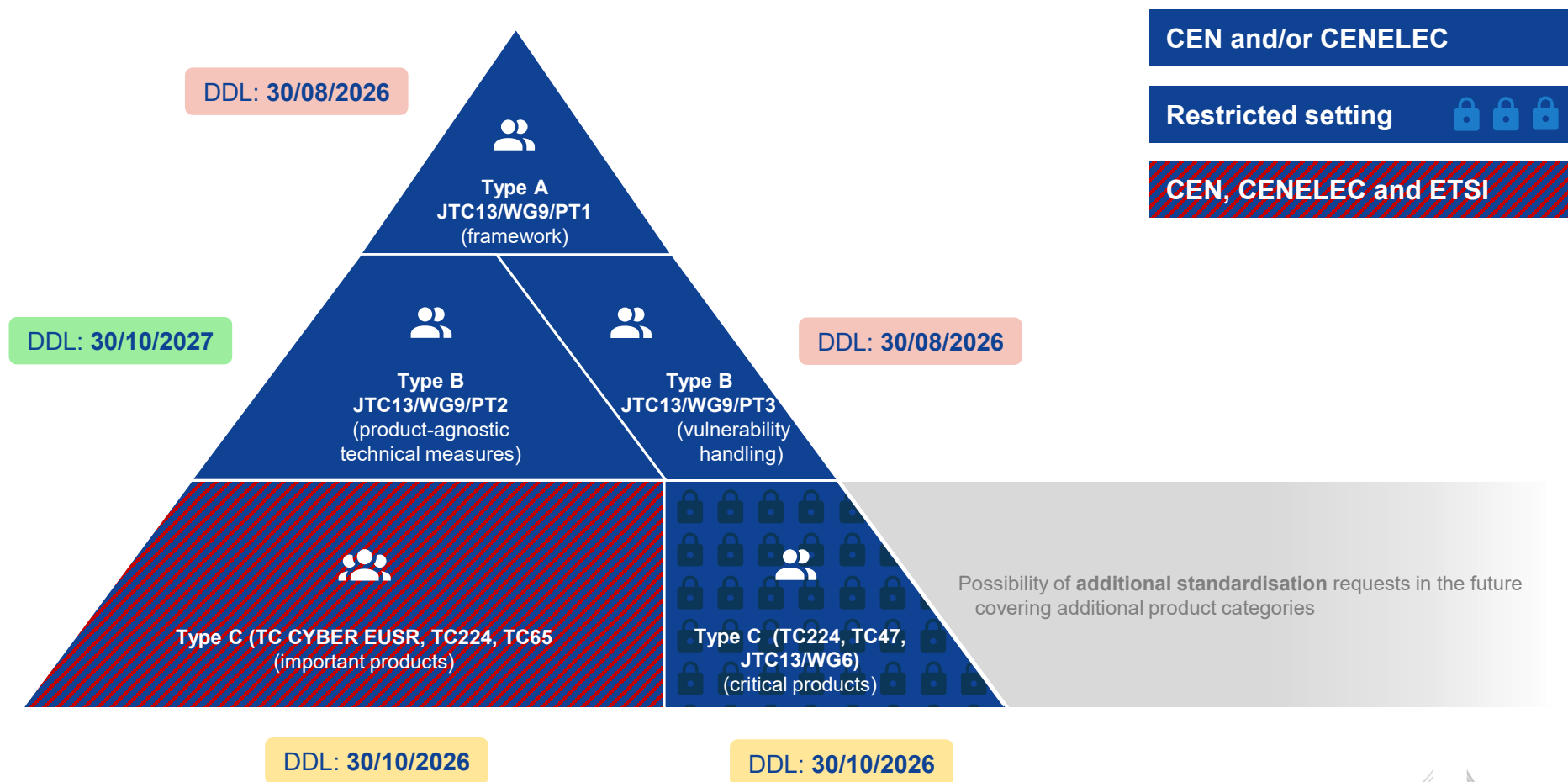
# CRA implementation - First milestones

- ❖ CRA Expert Group
  - ❖ Meetings held on 12 February and 4 June, 22 October
- ❖ Technical descriptions of important and critical products
  - ❖ *Implementing act adopted December 2025*
- ❖ Terms and conditions for CSIRTs to withhold notifications
  - ❖ *Delegated act adopted December 2025*
- ❖ CRA website and FAQs
  - ❖ [Cyber Resilience Act | Shaping Europe's digital future](#)

# CRA implementation – coming up

- ❖ Guidance on CRA topics
  - ❖ including open source and open source stewards
- ❖ Study on Voluntary Security Attestations
  - ❖ mentioned in CRA Article 25
- ❖ ENISA to set up the Single Reporting Platform
  - ❖ Reporting obligations from September 2026

# CRA standardisation request in a nutshell



# Participation of open source

Increased participation of open source:

- **Legislative process**
- **Standardisation**
- **CRA Expert Group**
- **Development of guidance**
- **Pro-active engagement of open source communities**

# Thank you for participating



# Members in 34 countries



Austria



Denmark



Greece



Latvia



Poland



Slovenia



Belgium



Estonia



Hungary



Lithuania



Portugal



Spain



Bulgaria



Finland



Iceland



Malta



Republic of North Macedonia



Sweden



Croatia



Switzerland



Cyprus



France



Ireland



Netherlands



Romania



Türkiye



Czech Republic



Germany



Italy



Norway



Slovakia



United Kingdom



# Working in many sectors



ACCUMULATORS,  
PRIMARY CELLS AND  
PRIMARY BATTERIES



DEFENCE AND  
SECURITY



DIGITAL SOCIETY



ELECTRIC EQUIPMENT  
AND TRANSFORMERS



ELECTRIC EQUIPMENT  
AND APPARATUS



ELECTRONIC,  
ELECTROTECHNICAL  
SUPPLIES



CONSTRUCTION



CHEMICALS



ELECTROTECHNOLOG  
Y GENERAL



ENERGY AND  
UTILITIES



HEALTHCARE



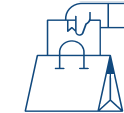
HOUSEHOLD  
APPLIANCES  
AND HVAC



INSULATED WIRE  
AND CABLE



LIGHTING  
EQUIPMENT AND  
ELECTRIC LAMPS



CONSUMER



DEFENCE AND  
SECURITY



LOW VOLTAGE  
ELECTRICAL  
EQUIPMENT AND  
INSTALLATIONS



MECHANICAL AND  
MACHINES



OCCUPATIONAL  
HEALTH AND SAFETY



TRANSPORT AND  
PACKAGING



FOOD AND  
AGRICULTURE



HEALTHCARE



SERVICES



MINING  
AND  
METALS

44

National Standardization Organizations

90 000

Network of Experts

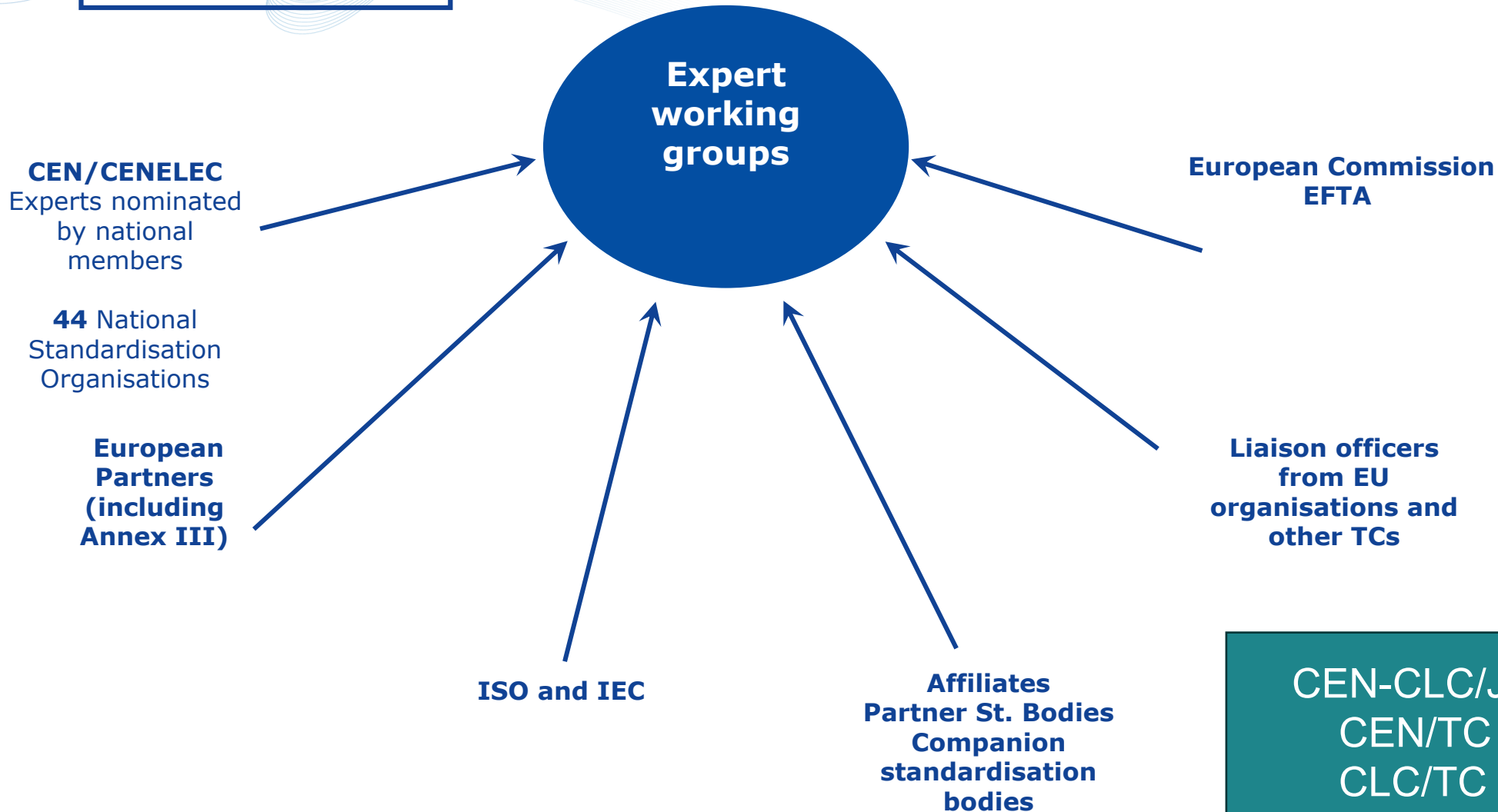
366

European Partners

482

Technical Bodies

# Who drafts the standards?



## CEN-CENELEC Guide 25

'The concept of Partnership with European organisations and other stakeholders'

For the Cyber activities:




**ECLIPSE**  
FOUNDATION

THE  
**LINUX**  
FOUNDATION

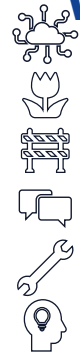
CEN-CLC/JTC 13: 5 standards  
CEN/TC 224: 3 standards  
CLC/TC 47X: 4 standards  
CLC/TC 65X: 8 standards

# FOSS in our work

## **here were we?**





-  Long-standing trusted system
-  Established business model (NGOs & industry)
-  Decades of ISO / IEC processes  
Largely unknown to open source communities

## **Where are we now?**



- Beyond CRA: broader ICT discussions
- Growing engagement with open-source foundations
- Limited access & participation barriers
- Cultural gap: different needs and languages
- Shift toward agile specs & new tools (Smart Standards, OSD)
- Mutual learning has begun

## **Where are we going?**

-  Structured dialogue with open-source communities
-  Seeking input via technical committees & expert interviews
-  Management-level engagement
-  Preparing the ground for stronger collaboration

Stay tuned:  
EU Tour CRA standards  
unlocked  
ENISA conference 12-03-26



# Bringing standardisation people together

- ETSI is an Independent, non-profit organization
- More than 900 member organizations worldwide
- Drawn from over 60 countries and on five continents
- 30+ years track record of technical excellence in the ICT sector
- Strong community of experts and innovators
- Diverse community: SMEs, micro-enterprises, large companies, research entities, academia, government and public bodies, societal stakeholders
- Large and small member organizations

**Linux Foundation, Eclipse Foundation, OSI, Mozilla, and many other smaller players active in open source software projects are members of ETSI.**

**ETSI members may register expert delegates from their communities to collaborate on the development of standards in ETSI technical groups.**

# CRA Standardisation in ETSI

## CYBER-EUSR Working Group


- ETSI has created a working group in TC CYBER to focus on EU regulatory matters
- Focal point for all work on EU CRA Standardisation Request activities
- Tasked with creating and delivering 18 CRA ENs for which ETSI is lead ESO
- Work started in late 2024, Leadership team was elected mid 2025
- Dedicated Specialist Task Force in the framework of the STAN4CR2 Action Grant
- Diversity of interests represented, including cybersecurity agencies, industry, open-source communities, specialist SMEs, certification labs, and academia
- CYBER-EUSR meets every week.

**Contact CYBER-EUSR**  
cybersupport@etsi.org




**ETSI TC CYBER Portal:**  
<https://portal.etsi.org/CYBER>


**Dr Sandra Feliciano**, ETSI CYBER-EUSR Chair

 Sandra Feliciano


**Dr George Sharkov**, ETSI CYBER-EUSR Vice-Chair

 George Sharkov

**Mr Simon Phipps**, ETSI CYBER-EUSR Vice-Chair

 Simon Phipps

**Mrs Laure Pourcin**, ETSI CYBER-EUSR Technical Officer

 Laure Pourcin



# Development CRA “Vertical” standards

ETSI TC Cyber EUSR

CEN/TC 224 WG 17

CLC/TC 47X WG 1-4

CLC/TC 65X WG 3

CEN-CLC/JTC 13 WG 6

## ETSI TC Cyber WG EUSR

### **Leads the development of 18 CRA product standards**

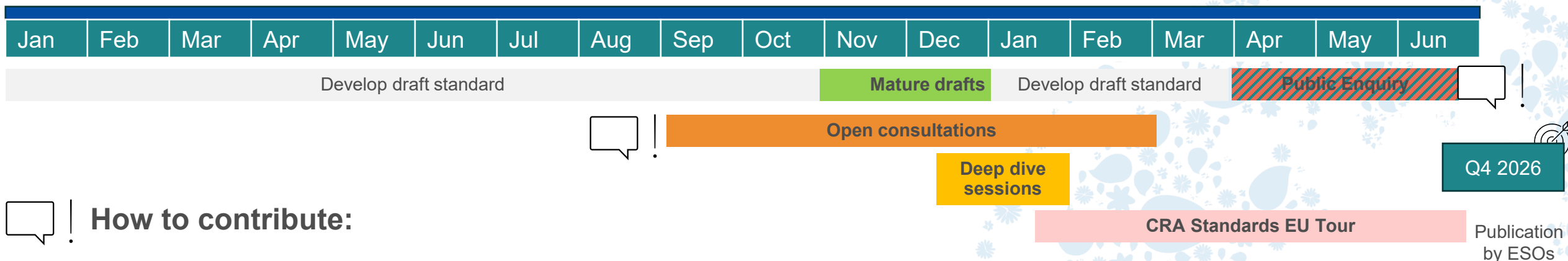
- EN 304 617 – Browsers
- EN 304 618 – Password Managers
- EN 304 619 – Software that searches, removes, or quarantines malicious software (Antivirus)
- EN 304 620 – Virtual Private Networks (VPNs)
- EN 304 621 – Network Management Systems (NMS)
- EN 304 622 – Security Information and Management Systems (SIEM)
- EN 304 623 – Boot Managers
- EN 304 624 – Public Key Infrastructures (PKI) and digital certificate issuance software
- EN 304 625 – Physical and virtual network interfaces
- EN 304 626 – Operating Systems (OS)
- EN 304 627 – Routers, modems intended for the connection to the internet and switches
- EN 304 631 – Smart home general purpose virtual assistants
- EN 304 632 – Smart home products with security functionalities
- EN 304 633 – Internet connected toys
- EN 304 634 – Personal wearable products
- EN 304 635 – Hypervisors and container runtime systems
- EN 304 636 – Firewalls, intrusion detection and/or prevention systems
- EN 304 642 – Network functions of telecommunications systems

- Important products class I
- Important products class II
- Critical products

# Open, rapid and transparent standards development process

2025

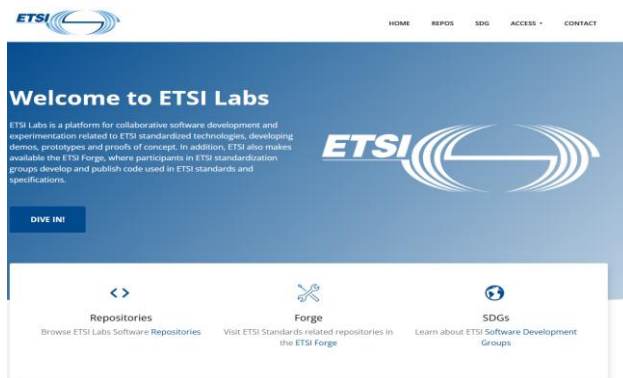
2026



## How to contribute:

- Mature drafts:** Technical committee submits advanced and stable versions of the drafts for assessment of the European Commission
- Open consultations:** Drafts available in the open area and in GitLab, commenting on the drafts is open to the public.
- Deep dive sessions (one per vertical) :** Additional stakeholder involvement, direct participation.
- Public Enquiry:** Consolidated versions subjects to national vote and public commenting via the national members of CEN, Cenelec and ETSI
- EU Tour :** Events held in European cities involving national stakeholders (SMEs, Open source, Academia, Market authorities, NSO)

# Open consultation on CRA draft standards



## ETSI TC Cyber WG EUSR

### How to engage in the standardisation work at ETSI - Providing comments on working drafts

- Information website on CRA standards at : [www.stan4cra.eu](http://www.stan4cra.eu)
- Open area for the CRA Vertical draft standards : <https://docbox.etsi.org/CYBER/EUSR/Open>
- **Online consultation platform** on working drafts at : <https://labs.etsi.org/rep/stan4cra/>
- **13 mature drafts** already shared publicly on this platform
- Comments handled by batch on a monthly basis since September 2025 and until the end Q1 2026

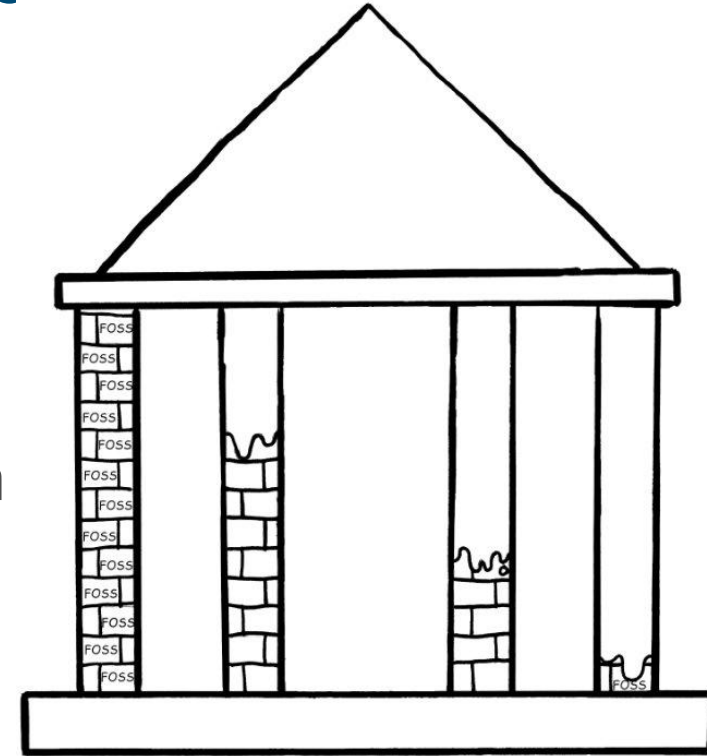
# Thanks, and a promise: A better future!

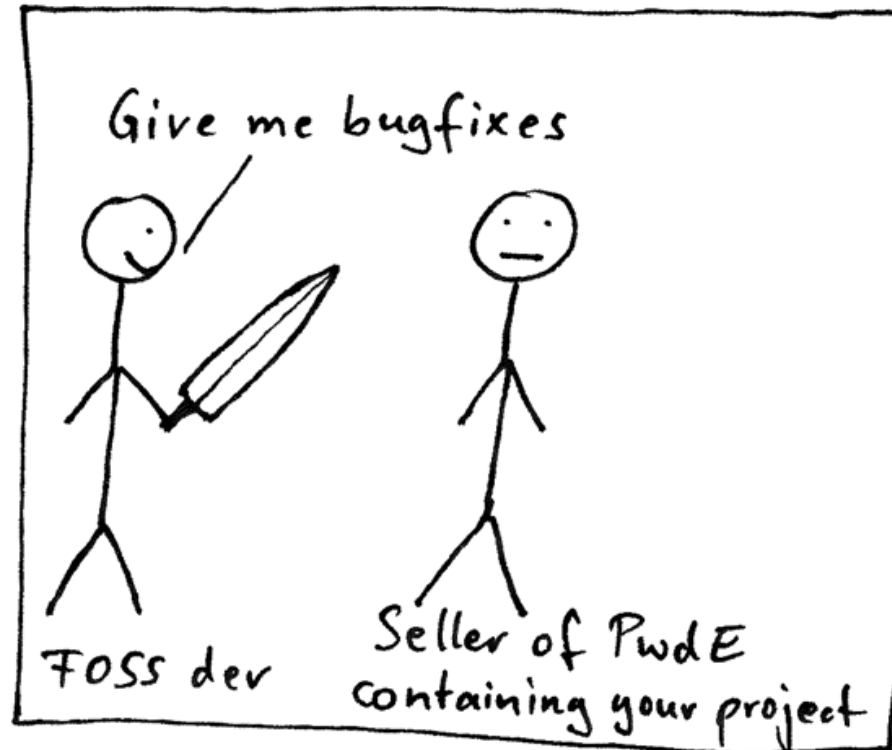
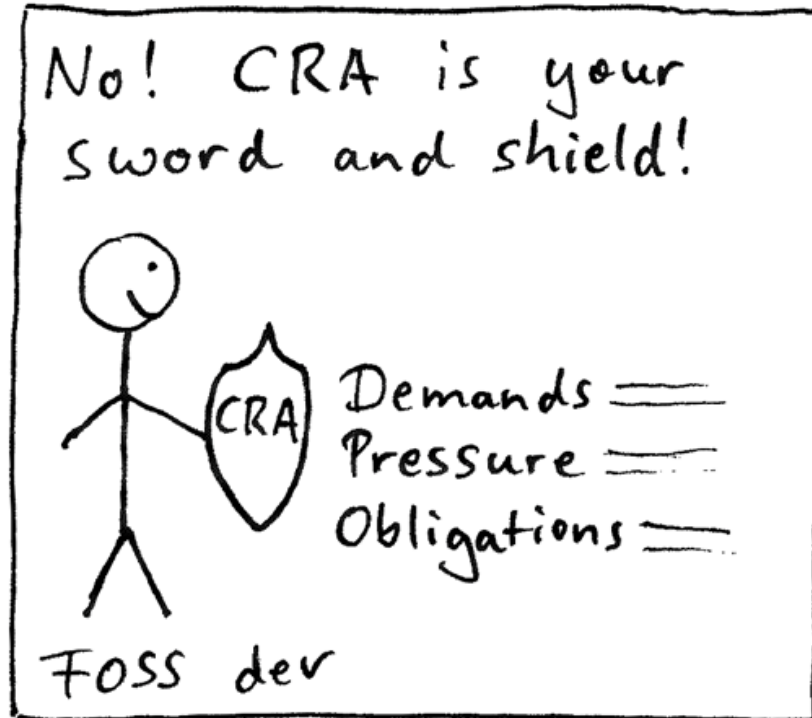
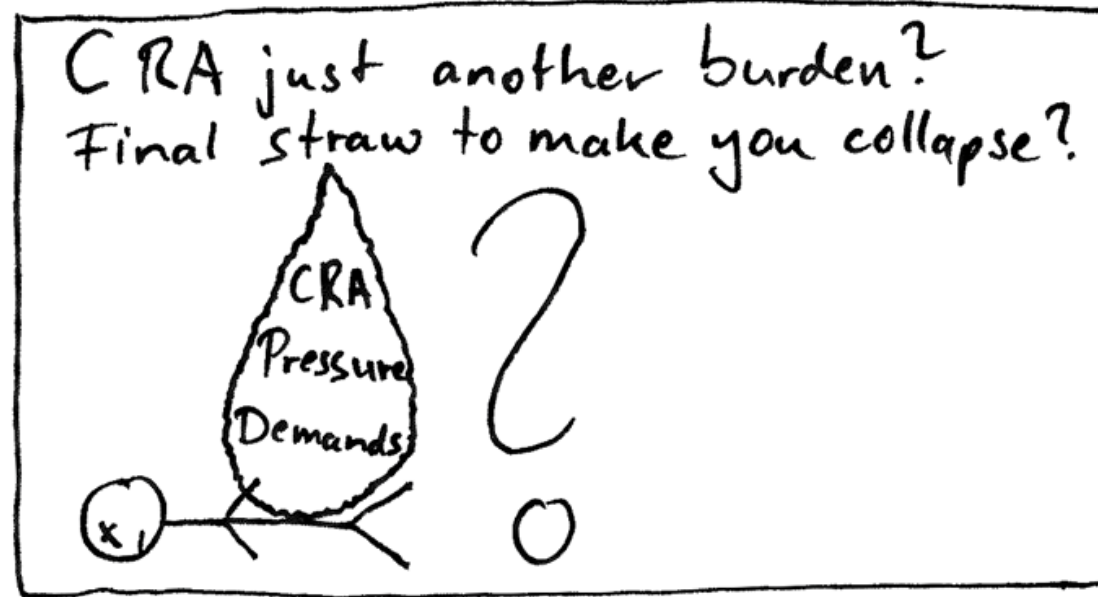
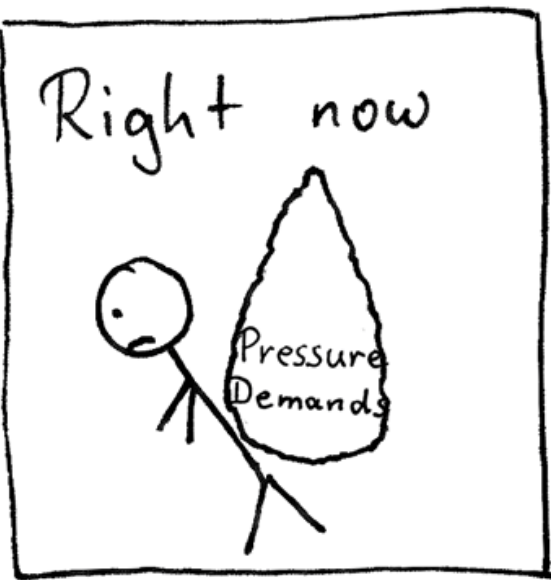
## You

- Pour your heart into developing FOSS
- Sacrifice your time for the common good
- Create the digital building blocks our society depends on
- Help to build our future

## We

- Appreciate this gift you are giving to the whole society
- Want to say THANK YOU!
- Promise the CRA will help you
- Know that words are nice, but practical help/support is better





CRA  
Comic!



# Rights and obligations

## **Obligations of non-commercial FOSS dev:**

- No obligations under CRA
- Not even if someone uses your project in their commercial product
- No obligation for bug fixes, SBOM, reaction time, ...

## **Rights of upstream FOSS developers:**

- Manufacturers must report all vulnerabilities to you
- Manufacturers must give you their security fixes for free
- Burden shifted from FOSS developer to manufacturer



# CRA reporting obligations

Manufacturers subject to CRA:

- **must report** actively **exploited vulnerabilities**
- **must report severe** incidents affecting PwDE

Everyone else:

- **voluntary reporting** of **vulnerabilities / incidents affecting PwDE**
- still benefit from **easier reporting**

# CRA market surveillance authority (MSA)

## Market surveillance and enforcement of CRA

- Ensure level playing field
- Support communication along the supply chain
- Support FOSS developers, consumers and manufacturers
- Help you understand the CRA and exercise your rights!

# CRA market surveillance authority (MSA)

- **BSI take as Cyber Security Authority**

- Mandate to improve IT security, raising the bar for everyone (including FOSS)
- Active in CRA standardisation
- Paying for security features in FOSS
- Outreach to FOSS projects for standard participation

## My take as FOSS developer+maintainer

- Solving tech problems is easy, getting paid / taken seriously/supported is difficult
- A helping hand for those boring tasks would be nice
- CRA attestations as real opportunity



**Thank you for listening!**

**Q&A time**

**Also: meet us outside!**

**Also: we have pins and stickers!**