



2023 CC Statistics Report

About me



- **José Manuel Pulido:**
- Common Criteria expert and Lead Consultant in jtsec.
- CCToolbox developer
- Contributor to ENISA, Eurosmart and ISO projects and CEN/CENELEC.
- More than 12 years of experience in cybersecurity technologies
- Speaker at several conferences including CCUF20, ICC20, ICC21 and ICC22

About us



- jtsec is part of the A+ group along with Lightship Security. We have labs in Canada, USA and Spain.
- Cybersecurity **evaluation** & consultancy **services**
- Common Criteria, LINCE and ETSI EN 303 645 accredited lab.
- Developers of the most powerful tool for Common Criteria, CCToolbox.
- **Involved in standardization** activities (ISO, CEN/CENELEC, ISCI WGs, ENISA CSA WGs, CCUF, CMUF, ERNCIP, ...)
- Members of the SCCG (Stakeholder Cybersecurity Certification Group)

CC Scrapper

How we collect statistics

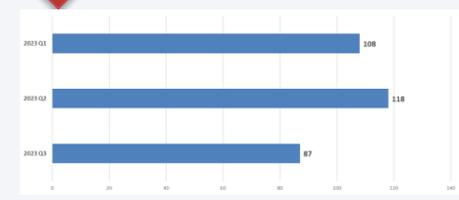
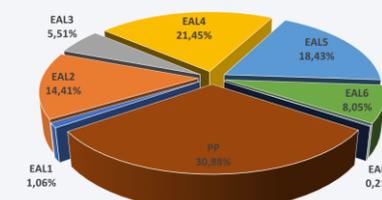
Collecting CC statistics with CC Scraper



Product	Vendor	Product Certificate	Date Certificate Issued	Certificate Validity Expiration Date	Compliance	Scheme
INSAFE NexusV4.3	EMTECH		2023-10-19	2028-10-19	PP Compliant	KR
Oracle Access Management 12c	Oracle Corporation	ECRA Certificate	2023-09-20	2029-09-20	PP Compliant	CA
Toshiba Wireless v1.4	Ranfocore Co., Ltd		2023-06-02	2029-06-02	PP Compliant	CA



Product	Vendor	EAL	SCHEME	PP
PrivacyDB V2.1	OWL Systems Inc.	PP-Compliant	KR	Korean National Protection Profile for Database Encryption
SCR404U (version B)	Idemia	EAL4+, ALC_FLR3	FR	Security IC Platform Protection Profile with Augmentation Packages
NXP eDoc Suite v4.0 on ICOP45 P2.1 - cryptovision	NXP Semiconductors Germany GmbH	EAL4+, ALC_DVS2	NL	Protection Profile for Machine Readable Travel Document
Oracle Linux 8.4	Oracle Corporation	PP Compliant	CA	Protection Profile for General Purpose Operating System

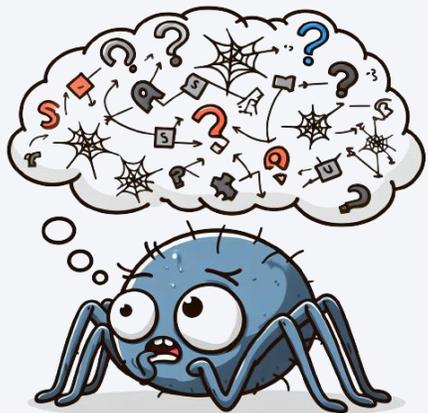


CC Scraper gathers “fresh” data from ccportal and CB websites. Sometimes data is uploaded or changed a-posteriori, and previously collected statistics change

CC Scraper keeps facing challenges and evolving

- ❑ We continuously maintain and improve CC scraper:
 - Many CB webpages frequently change their structure
 - Evaluation labs not listed. We have to parse and OCR reports.
 - Combining certificate lists is challenging.
 - We plan adopting new technologies to improve the process.

- ❑ Results are close to accurate, but could have small variations



CC Scraper reports

- ❑ With the statistics generated, we publish CC statistics reports in jtsec webpage, at least once per year.
- ❑ <https://www.jtsec.es/blog-entry/85/common-criteria-statistics-report-for-2020>
- ❑ <https://www.jtsec.es/blog-entry/106/common-criteria-statistics-report-for-2021>
- ❑ <https://www.jtsec.es/blog-entry/125/common-criteria-statistics-report-for-2022>

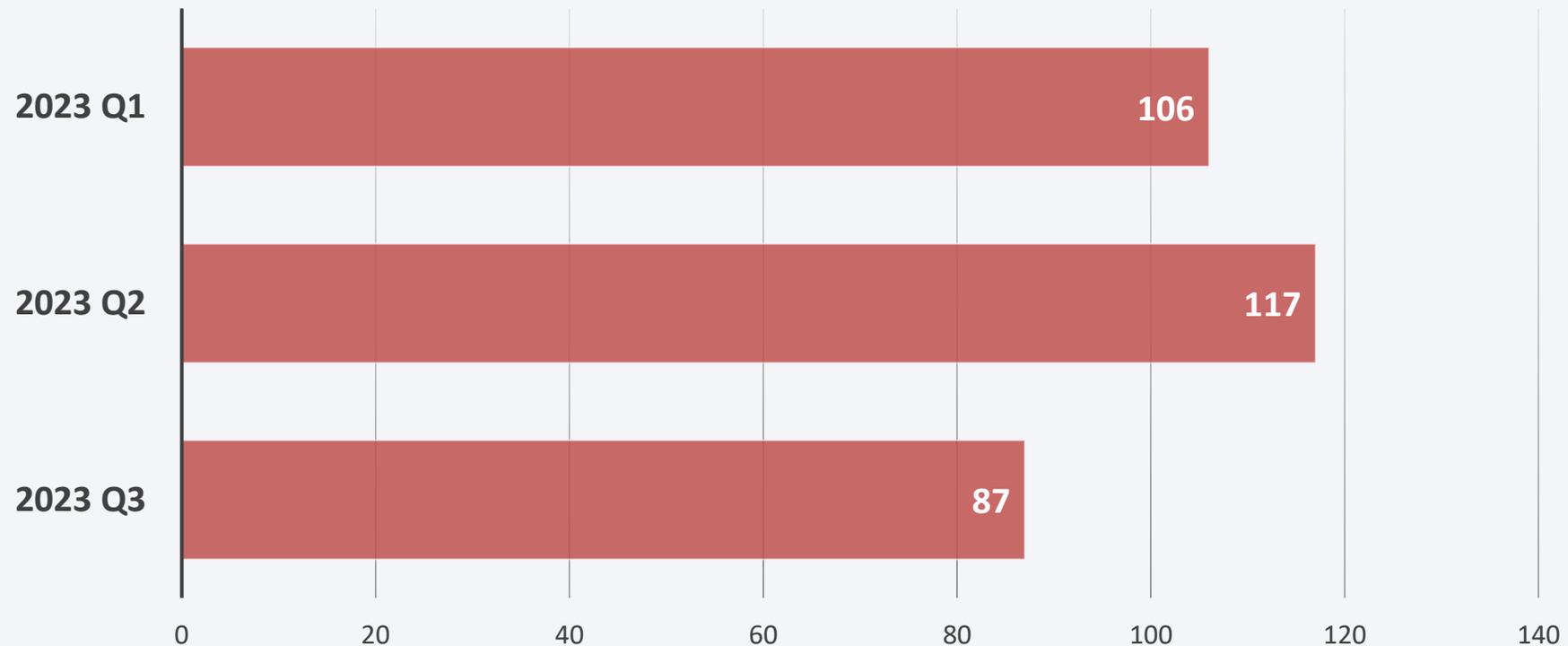


Common Criteria Statistics for 2023

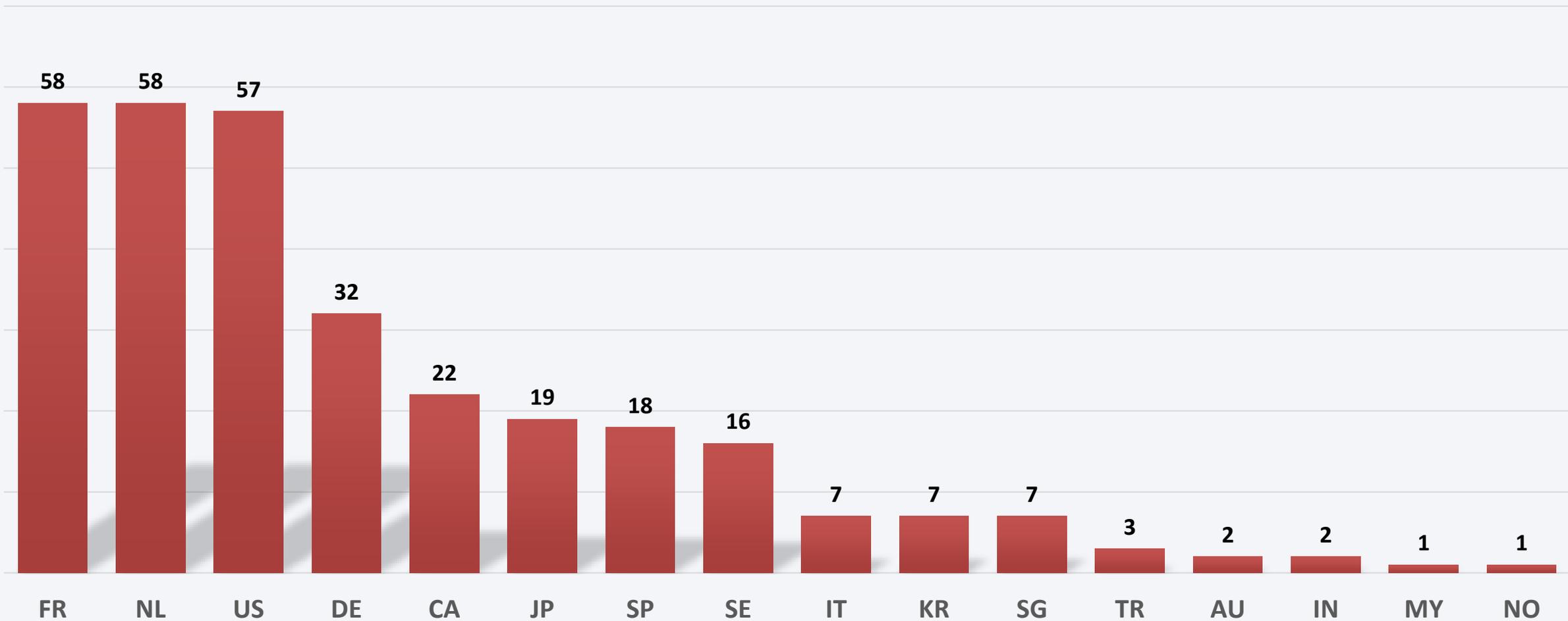
Disclaimer: CC scraper was run on 29th of September 2023. The statistics are calculated with the data for the first 9 months of the year.

Number of CC certificates in 2023

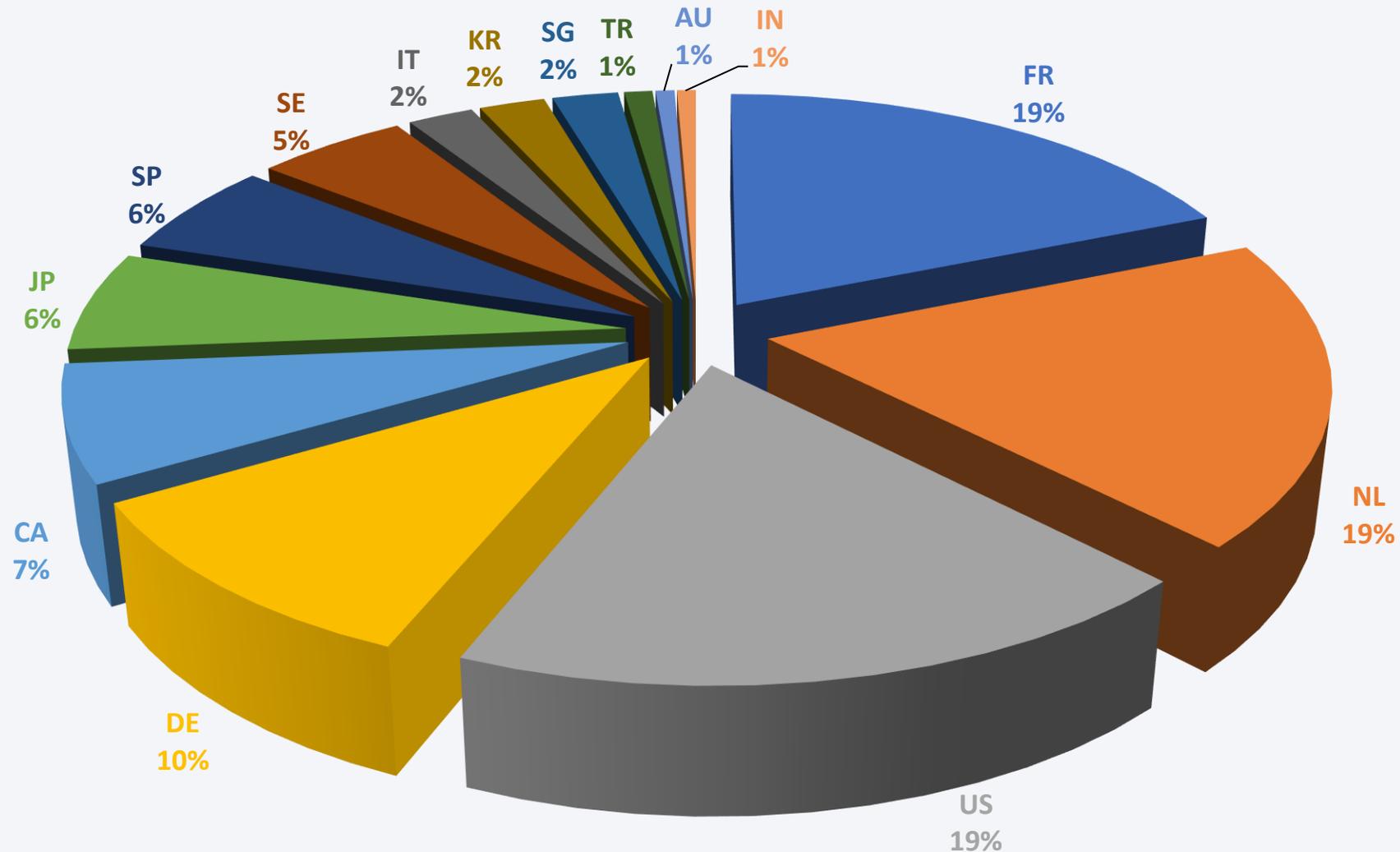
☐ **310** products were CC certified during 2023 (data until 29/09/2023)



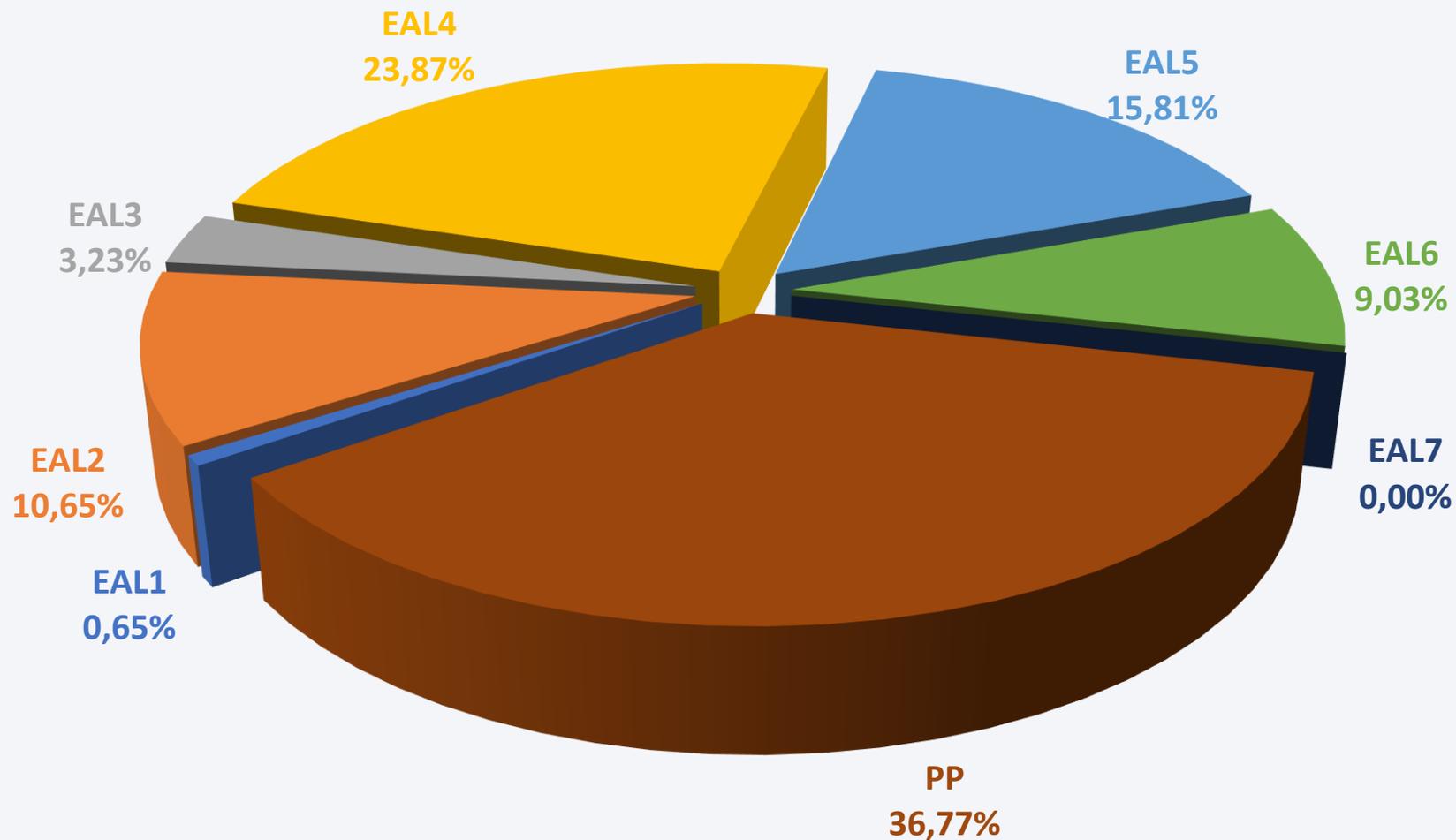
Top certifier schemes in 2023



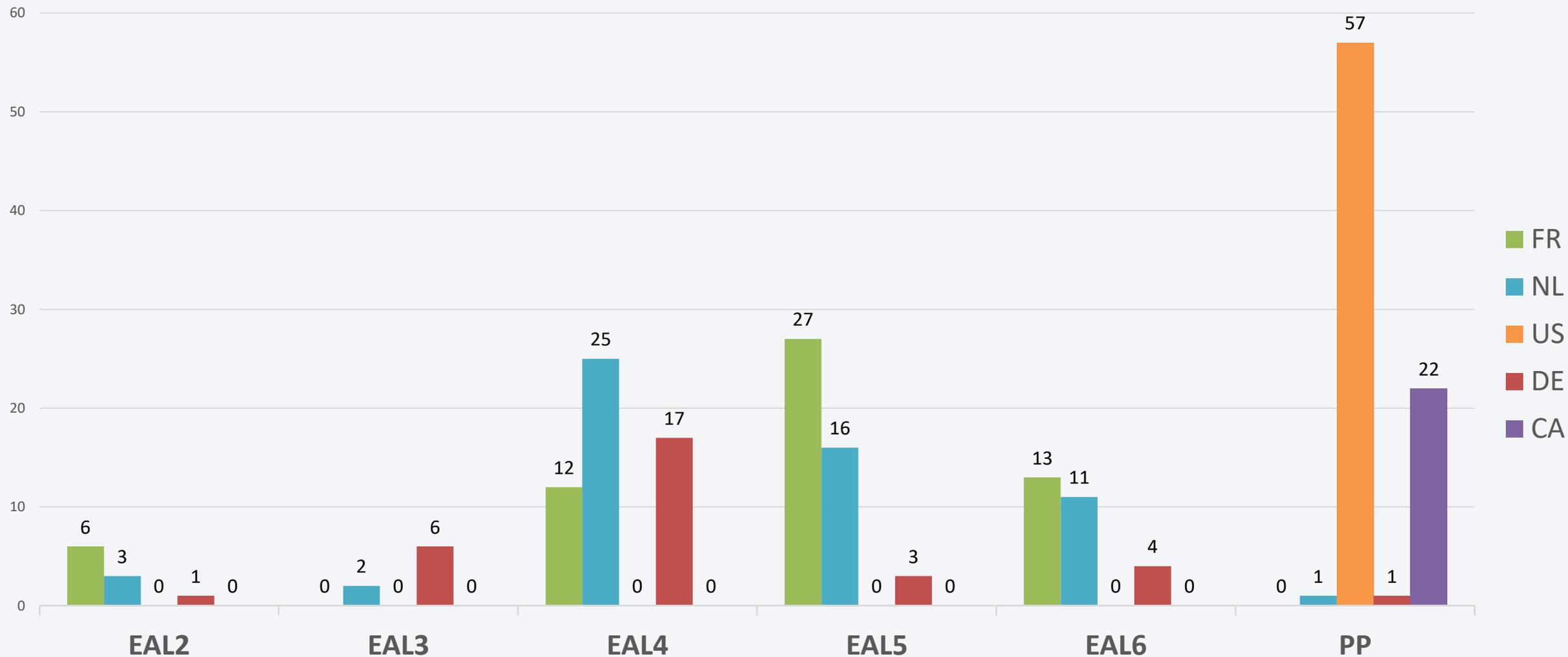
Percentage of certifications per scheme in 2023



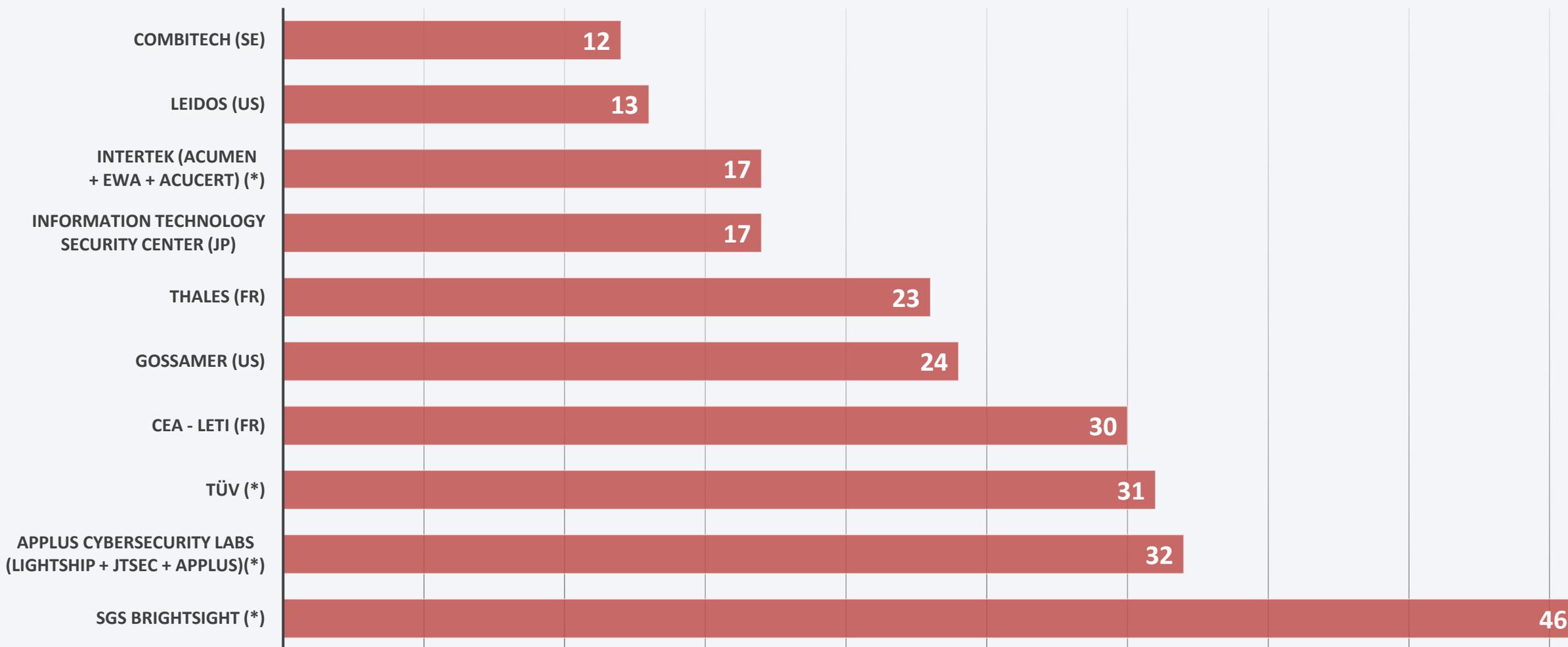
Assurance levels used in 2023



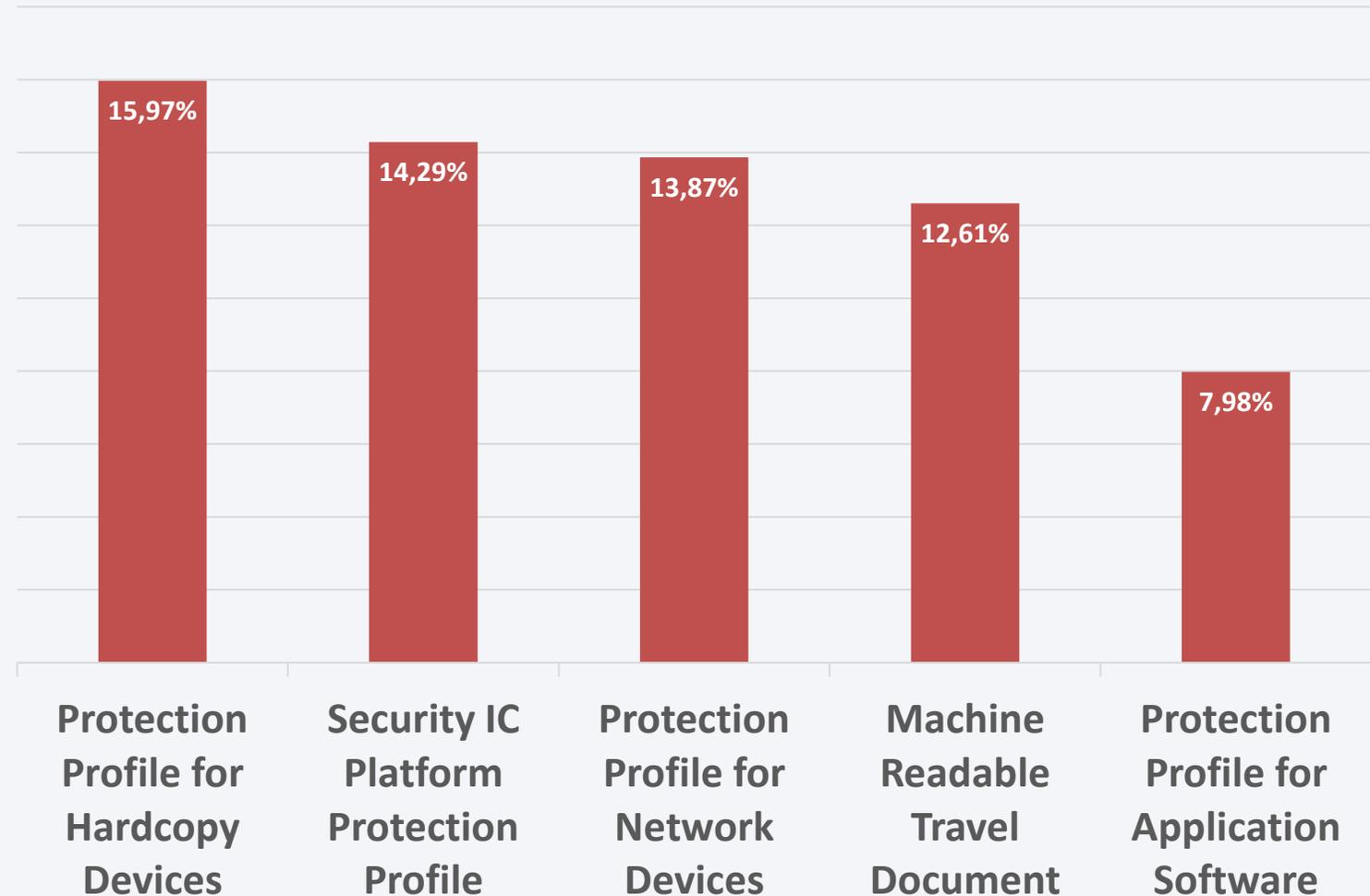
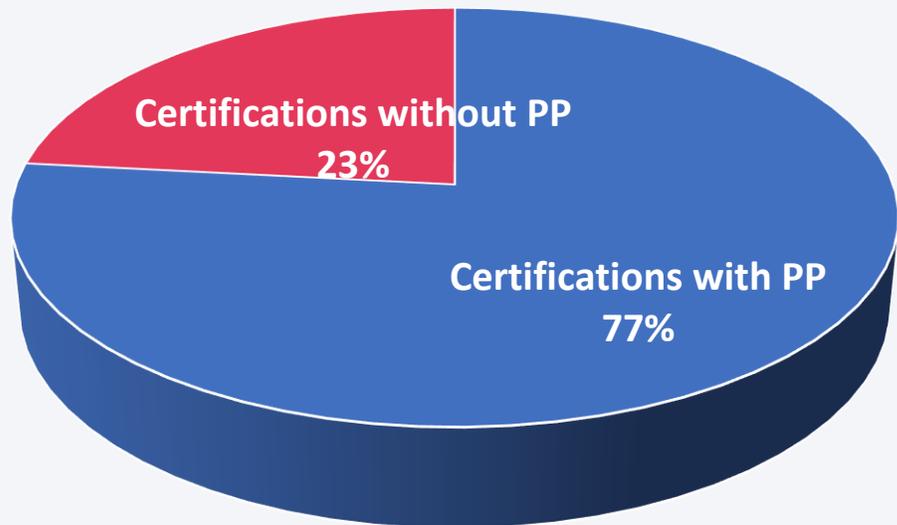
Product assurance level per country in 2023 (top 5)



Top 10 laboratories in 2023

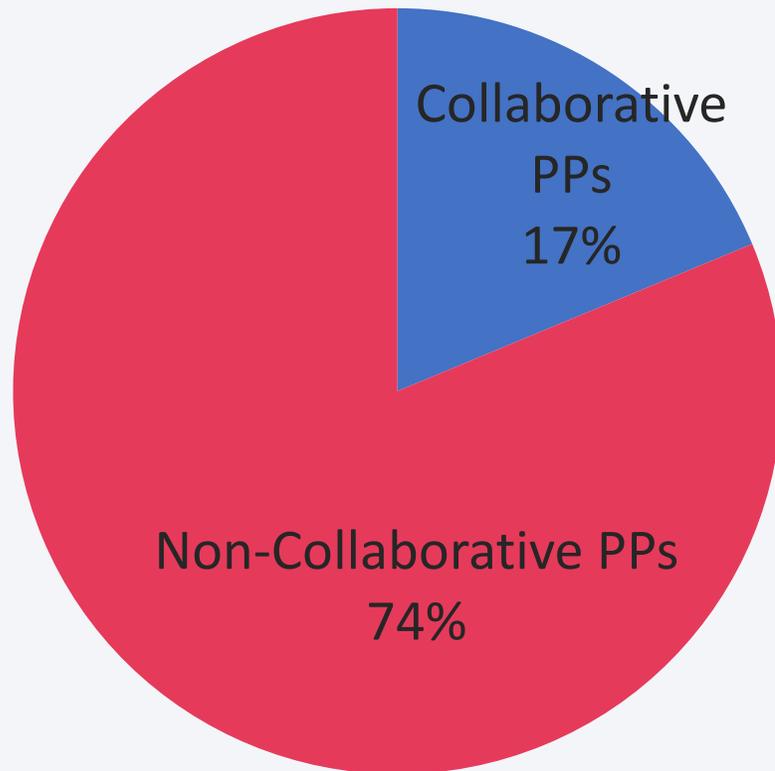


Use of PPs in 2023 / Top PPs

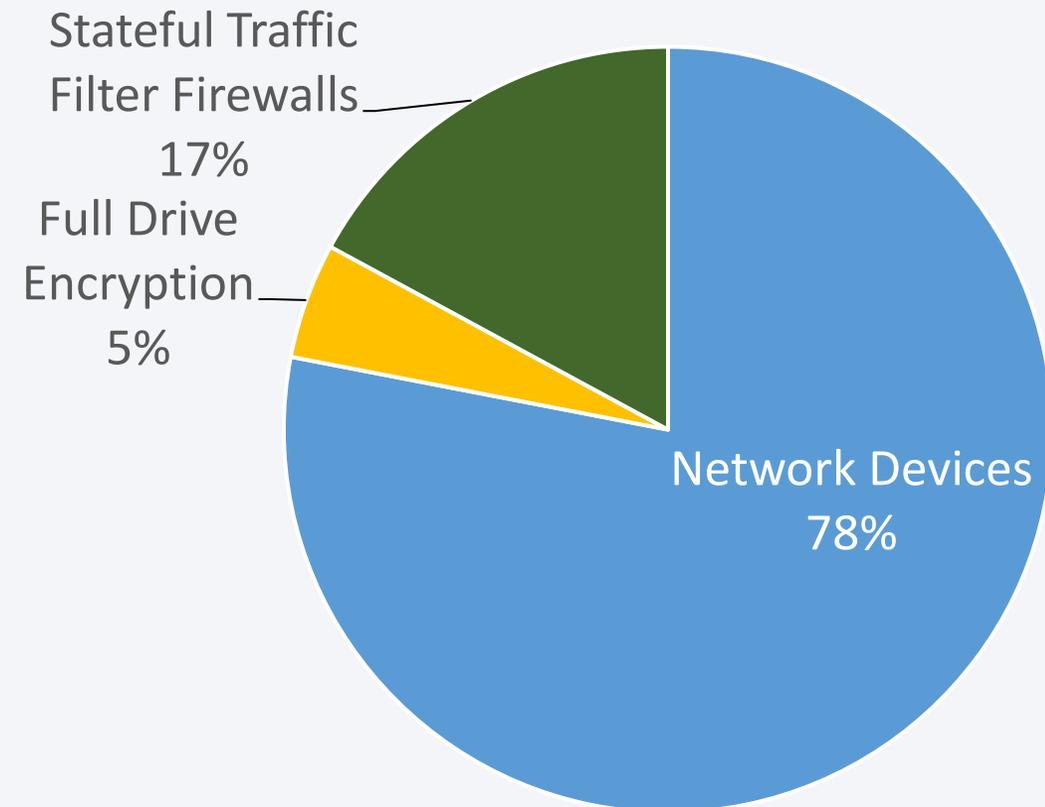


Use of collaborative PPs

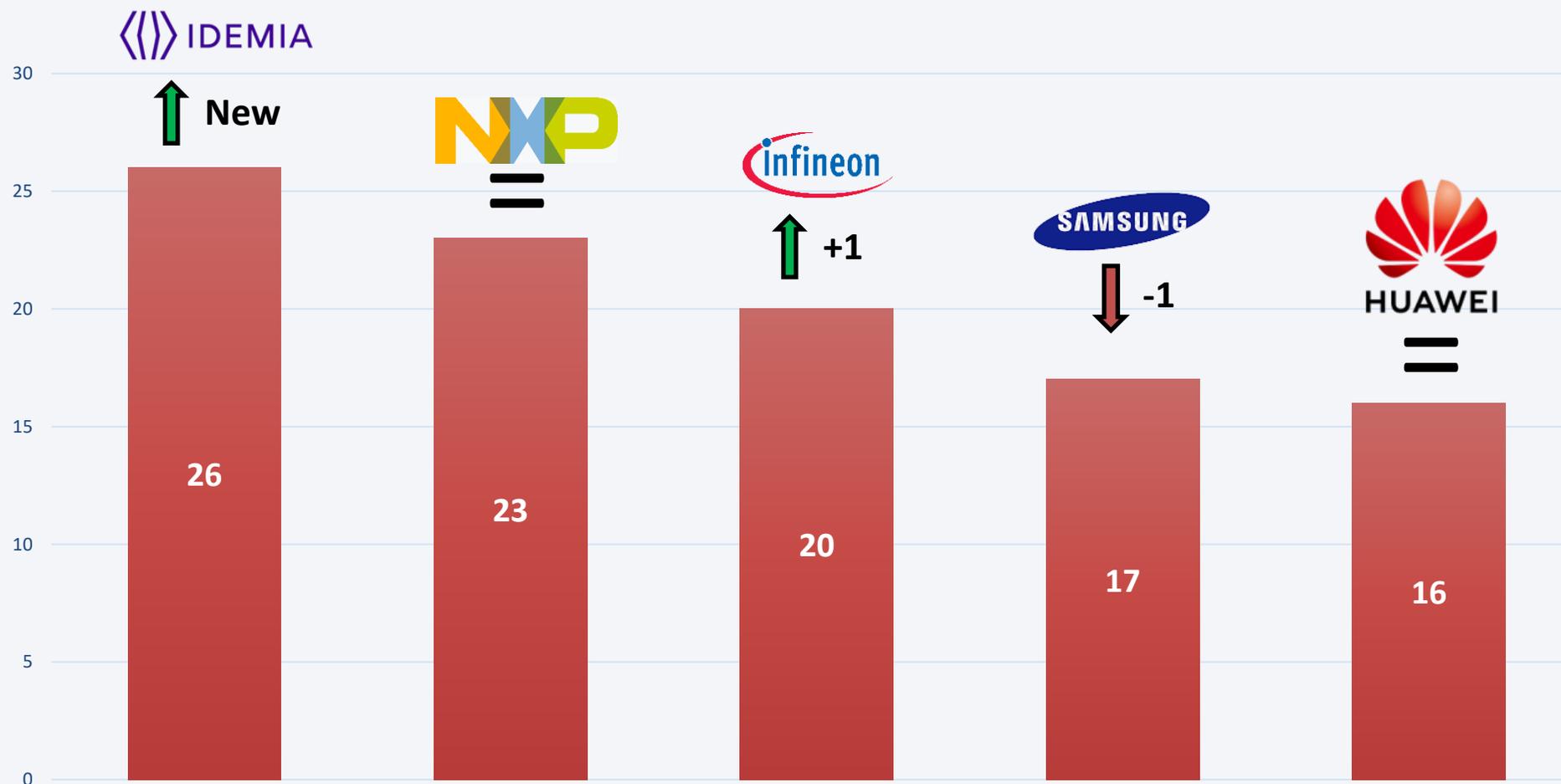
Collaborative PPs vs Non-Collaborative PPs



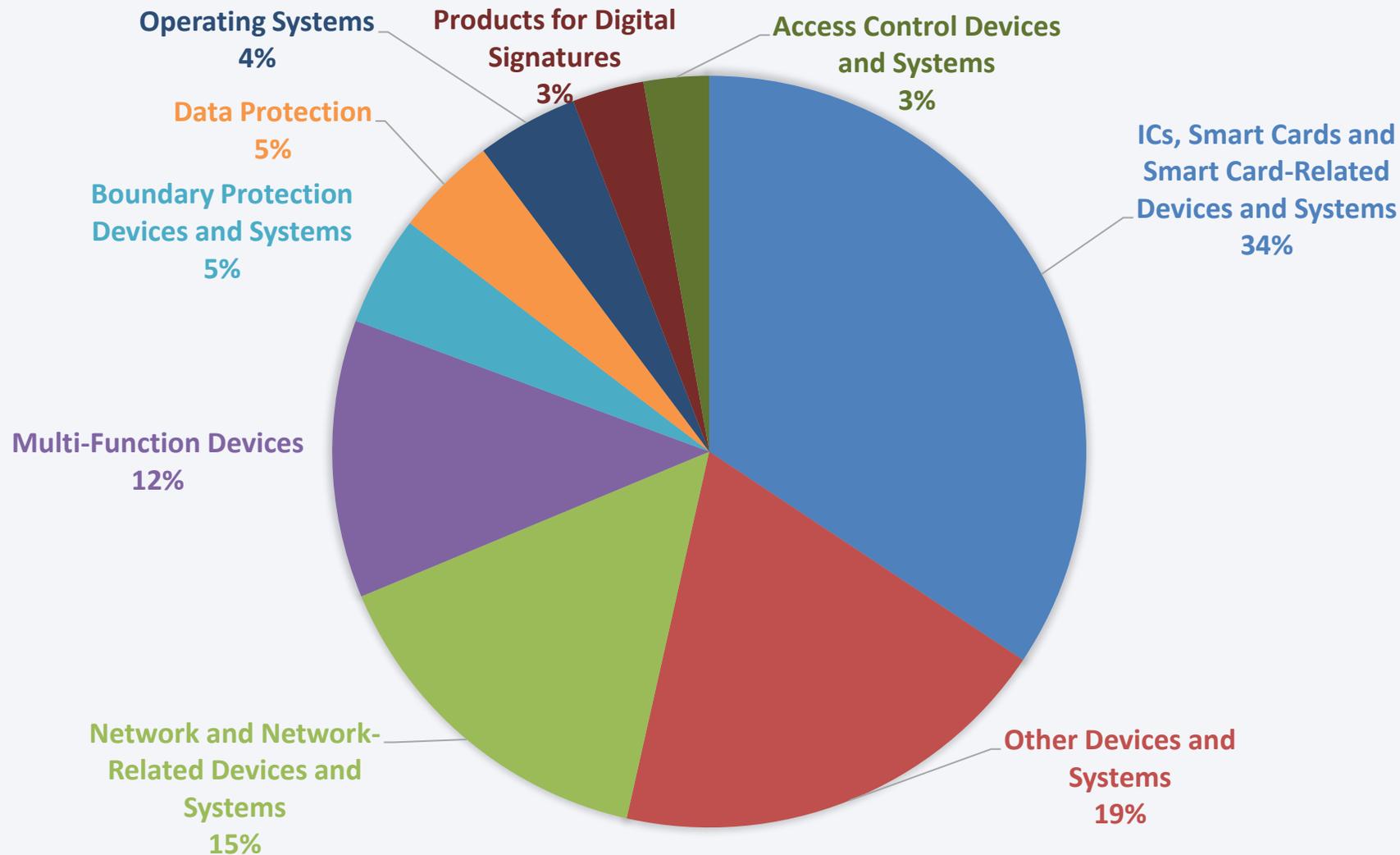
cPP certifications 2023



Top manufacturers of certified products in 2023



Top certified categories in 2023



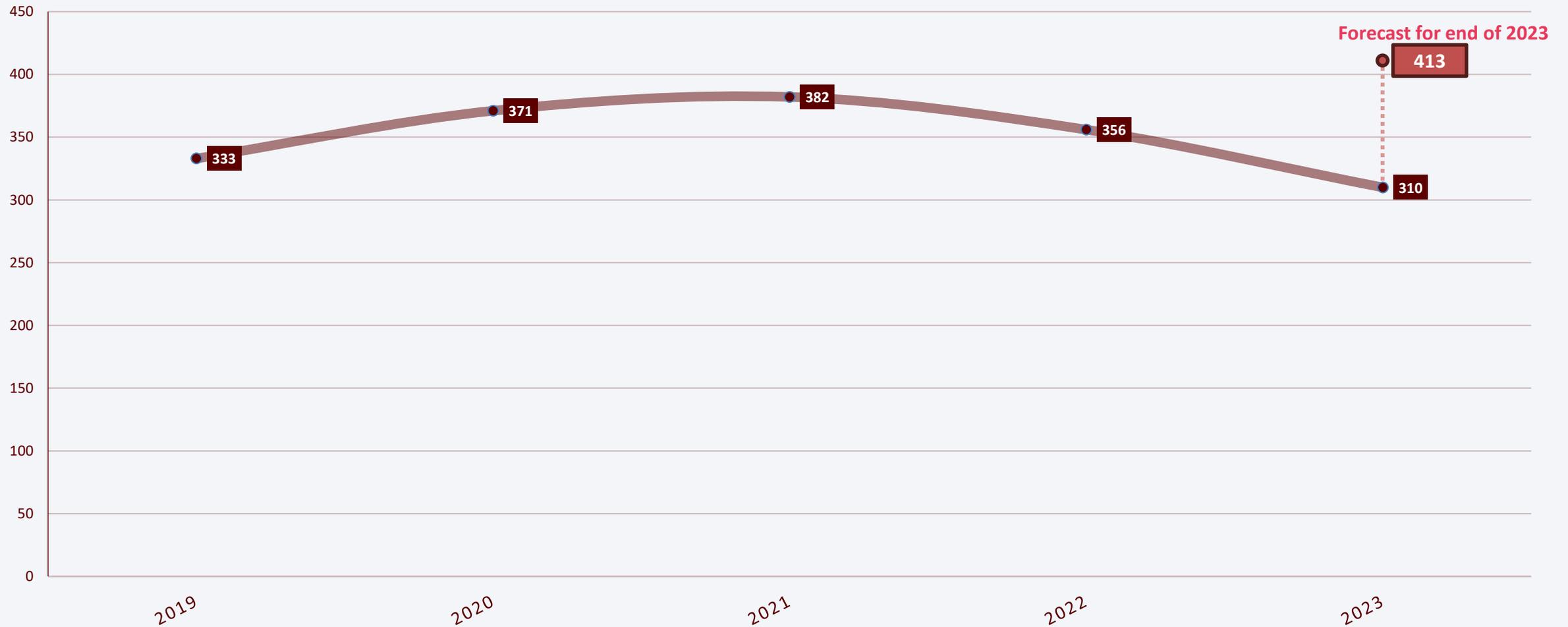
Note: categories with less than 3% were omitted for readability

Products uploaded from CB websites to CC Portal

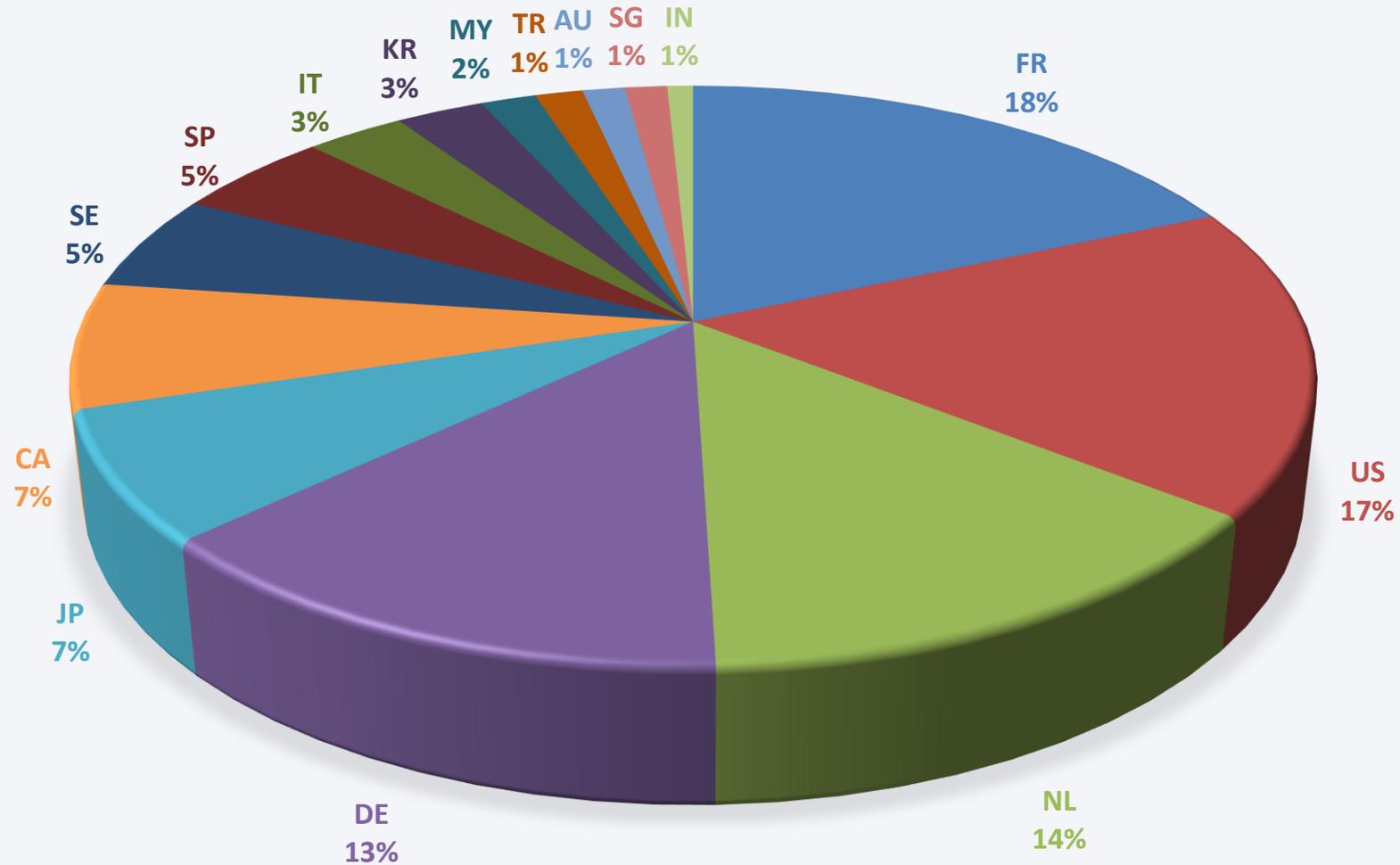


CC Statistics for 5 years

Number of certifications in the last 5 years



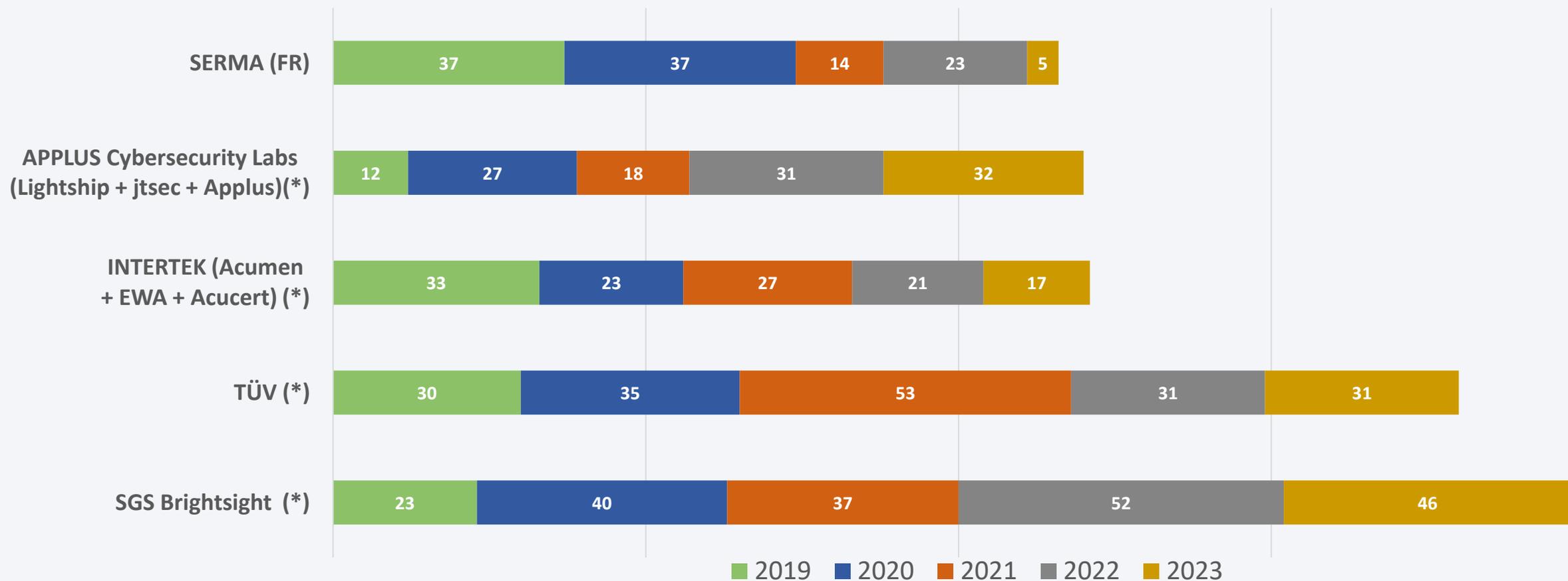
Certifications per scheme – last 5 years



Scheme growth 2022-2023 (until 29/09/23)

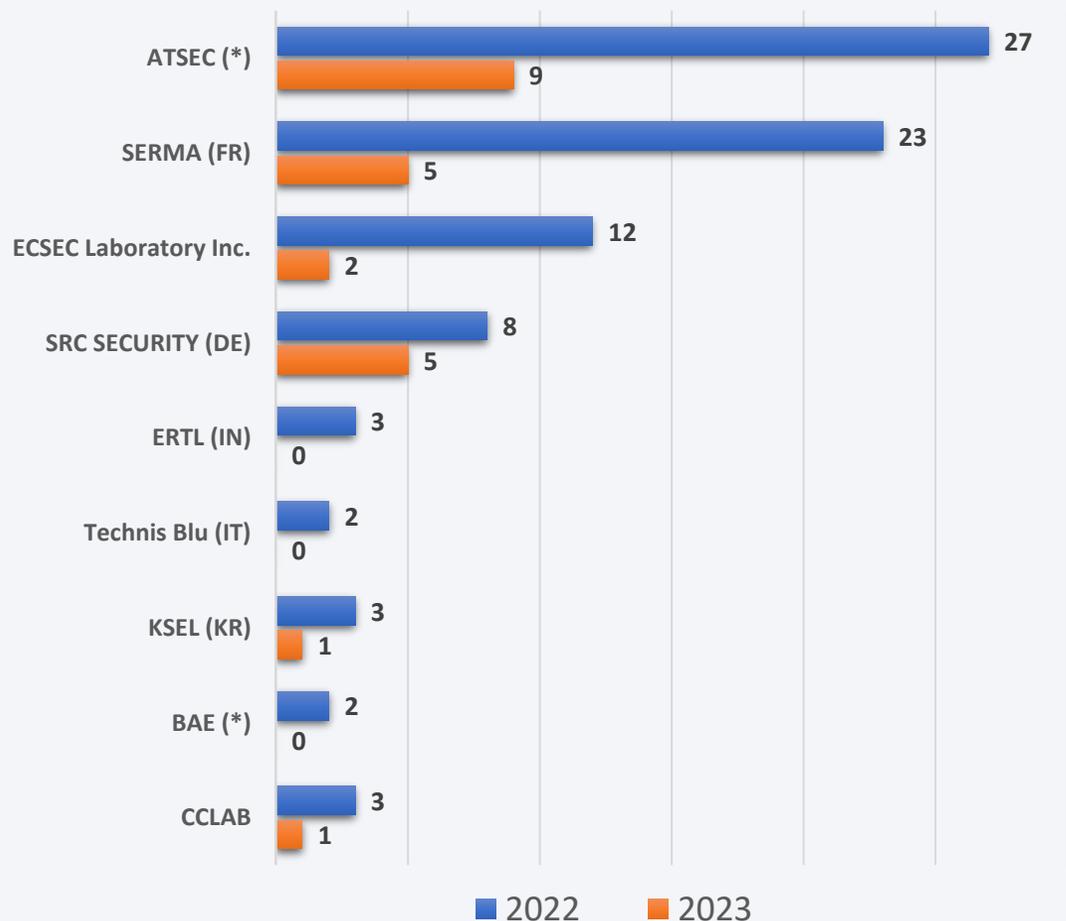


Evolution of top 5 laboratories in the last 5 years

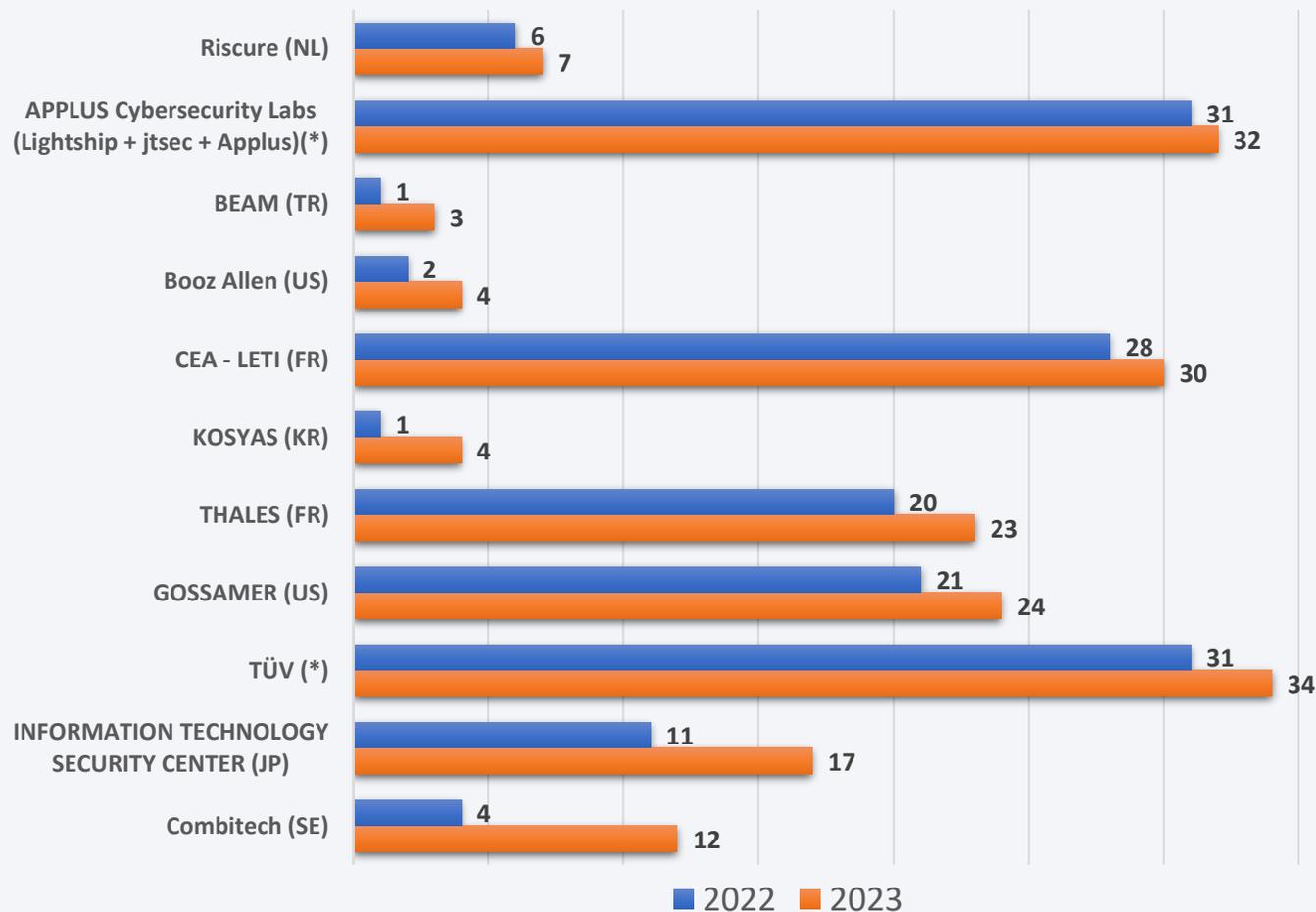


Lab growth 2022-2023 (until 29/09/23)

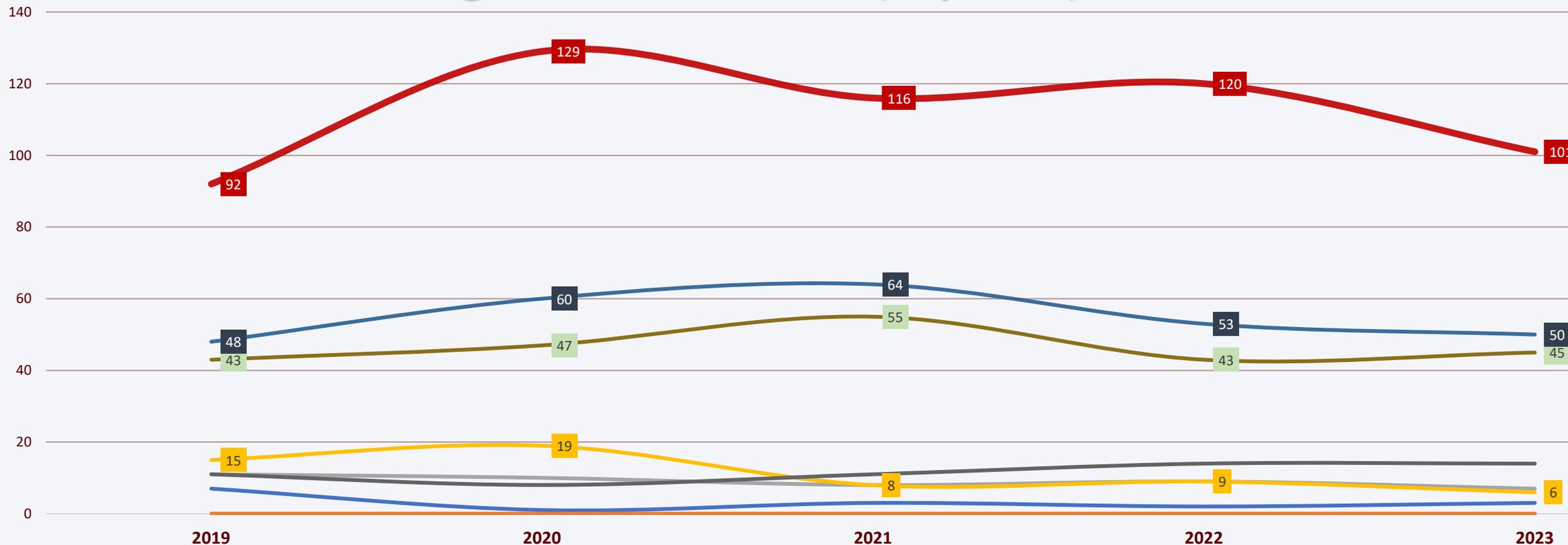
Lab negative growth 2022-2023



Lab positive growth 2022-2023 (sept)



Statistics – Categories evolution (5 years)



- Access Control Devices and Systems
- Boundary Protection Devices and Systems
- ICs, Smart Cards and Smart Card-Related Devices and Systems
- Multi-Function Devices
- Biometric Systems and Devices
- Data protection
- Mobility
- Network and Network-Related Devices and Systems

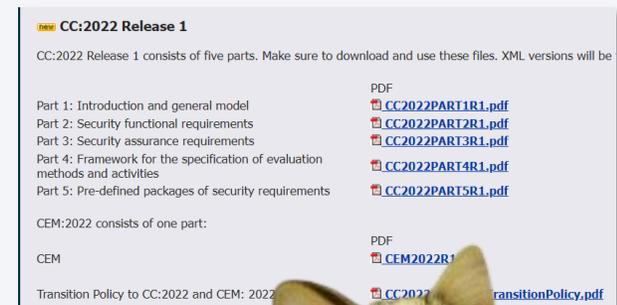
Conclusions

CC Certification Industry in 2023

- ❑ **Strong Year:** 2023 performance probably will end as **the best year of the last 5.**
- ❑ **The top-3 schemes dominate** (FR, NL, USA), tied up, with difference over the rest.
- ❑ **Assurance levels:** High EALs > 47%, followed by PP-Compliant >36%.
- ❑ **PPs in demand**, used in 77% of the certifications. Hardcopy Devices PP was the top non-CPP, with high representation of Secure Elements and MRTD, and Network Devices the top-CPP.
- ❑ SGS Brightsight was **the top laboratory**, followed by Applus Cyber. Labs and TÜV.
- ❑ Idemia was the #1 vendor and **4 out of 5 in the top are smartcard manufacturers.**

The near future brings changes to CC industry

- ❑ In ICCC 2022 we already highlighted the growing importance of national **lightweight certifications** and the shifting of the industry to **cloud-based certifications**... but it hasn't affected the numbers so far.
- ❑ **CC2022** will impact labs and vendors
 - New evaluations with CCv3.1 R5 will be admitted only until 30 June 2024.
 - PPs need to be migrated to CC2022 before end of 2027.
 - Will PP0117 start replacing PP0084 for some products in 2024?
- ❑ **EUCC** could significantly change the CC certification landscape in Europe:
 - Implementing act draft already published. After 1 year transition period, EU countries will no longer issue certificates under CCRA.
 - Some vendors could slow down their certification roadmap during that period.
 - We still need to see how American and Asian CC market will react.



Contact

jtsec Beyond IT Security

Granada & Madrid – Spain

hello@jtsec.es

@jtsecES

www.jtsec.es



“Any fool can make something complicated. It takes a genius to make it simple.”
Woody Guthrie