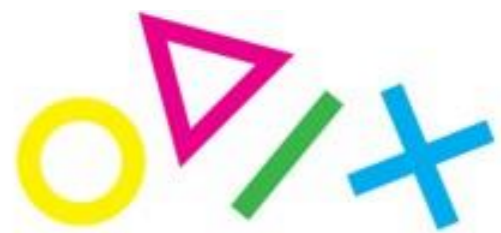




CC-DRIVER

**Overview of CC-DRIVER and RAYUELA projects:
investigate, identify, understand and explain
drivers of juvenile cyberdelinquency.**



RAYUELA

a fun way to fight cybercrime

Valencia Local Police, Project Management Division.
Rubén Fernández



CYBERCRIME LANDSCAPE



CC-DRIVER



RAYUELA

a fun way to fight cybercrime



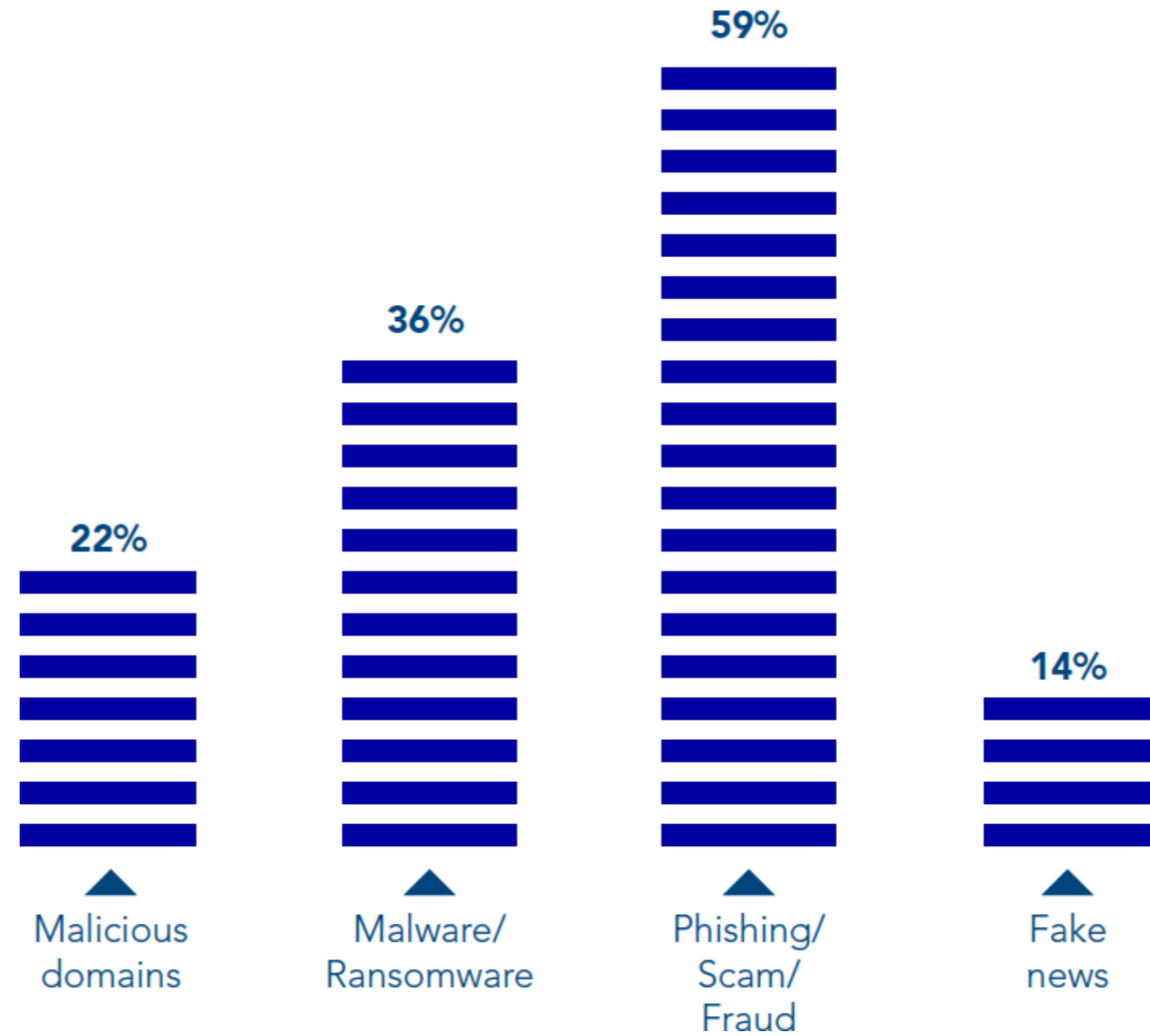
Which is the current state of
cybercrime?

“Cyberattacks are the fastest growing crime and predicted to cost the world \$10,5 trillion by 2025”.

– Steve Morgan (Cybersecurity Ventures)



COVID-19 HAS BOOSTED CYBERCRIME



Distribution of the key COVID-19 inflicted cyberthreats based on member countries' feedback. Source: Interpol



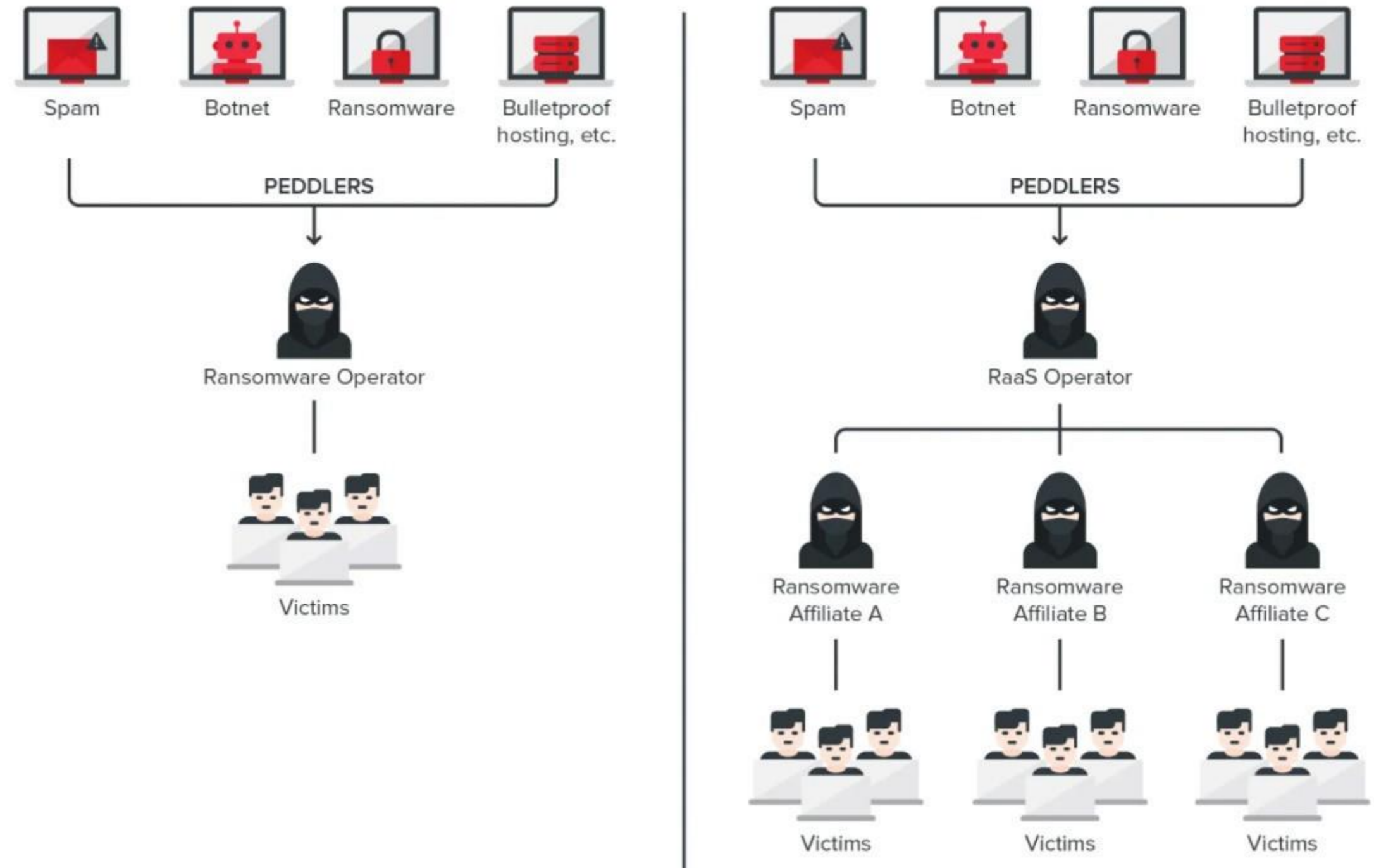
2021: THE YEAR OF SUPPLY-CHAIN ATTACKS



Source: Enisa report "Threat Landscape for Supply Chain Attacks"



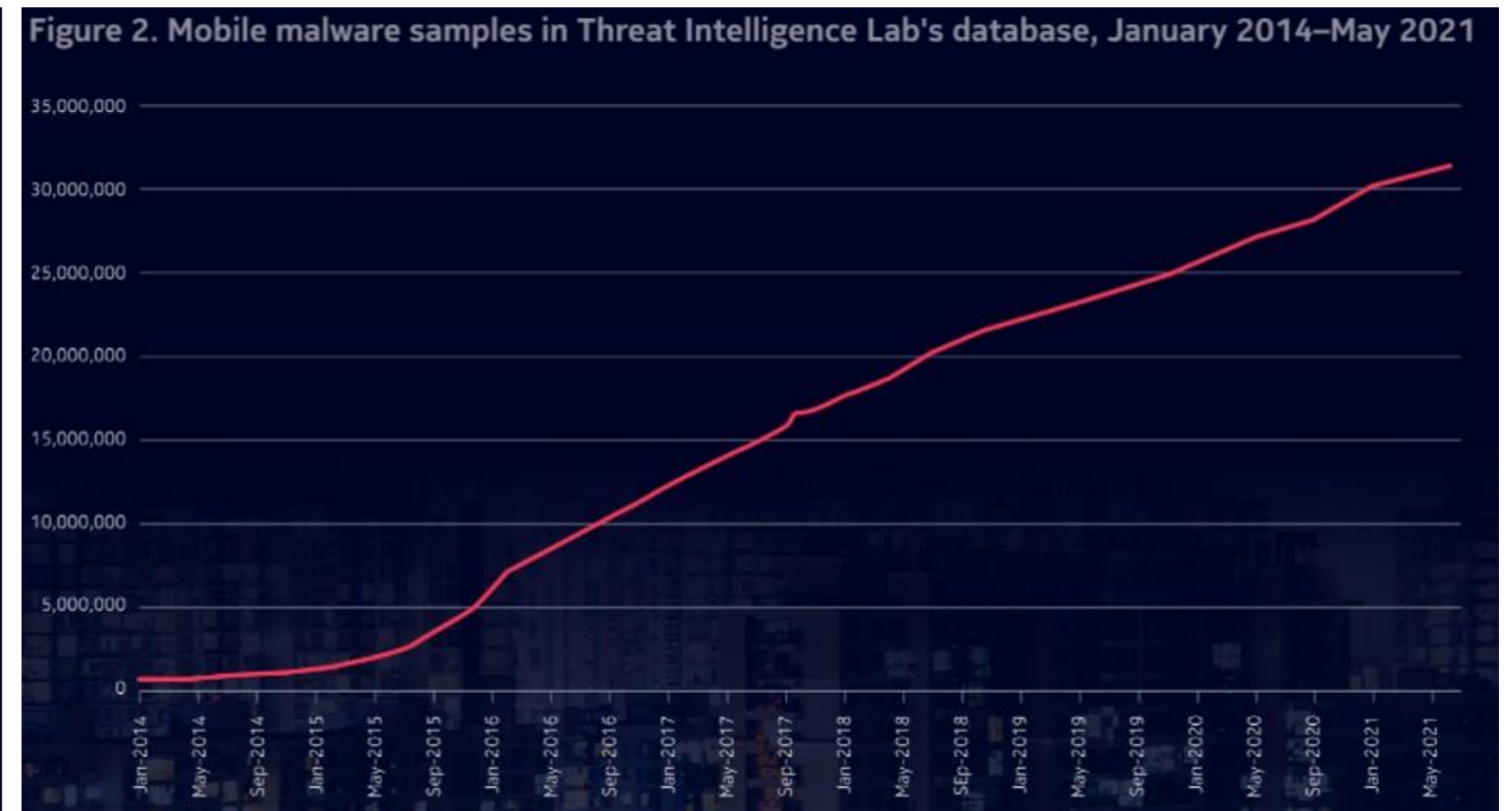
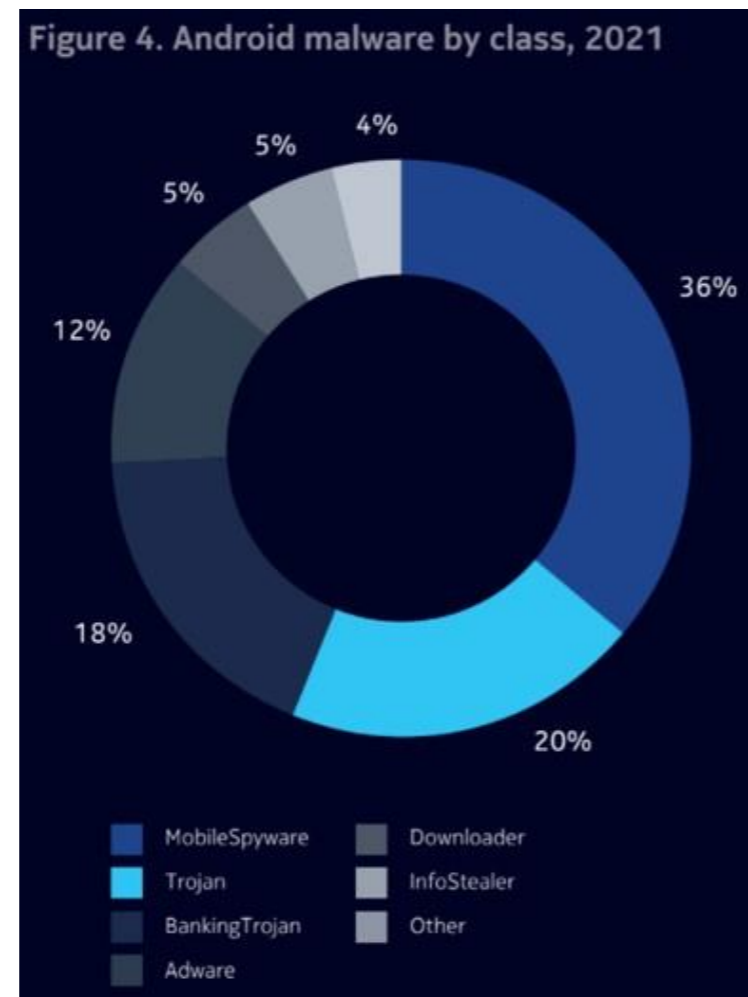
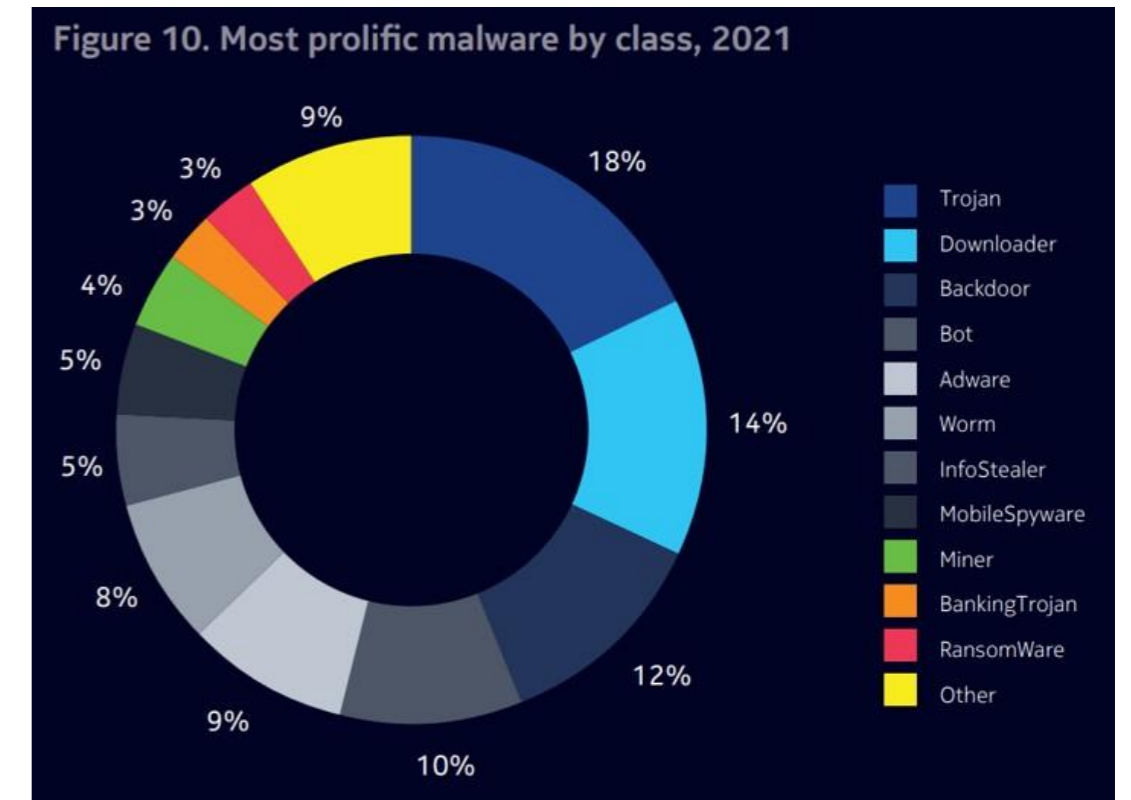
CYBERCRIME-AS-A-SERVICE IS ON THE RISE



Source: Trend Micro

MALWARE ATTACKS ARE EXPANDING

- Shift to high-value targets
- Mobile malware
- Banking trojans

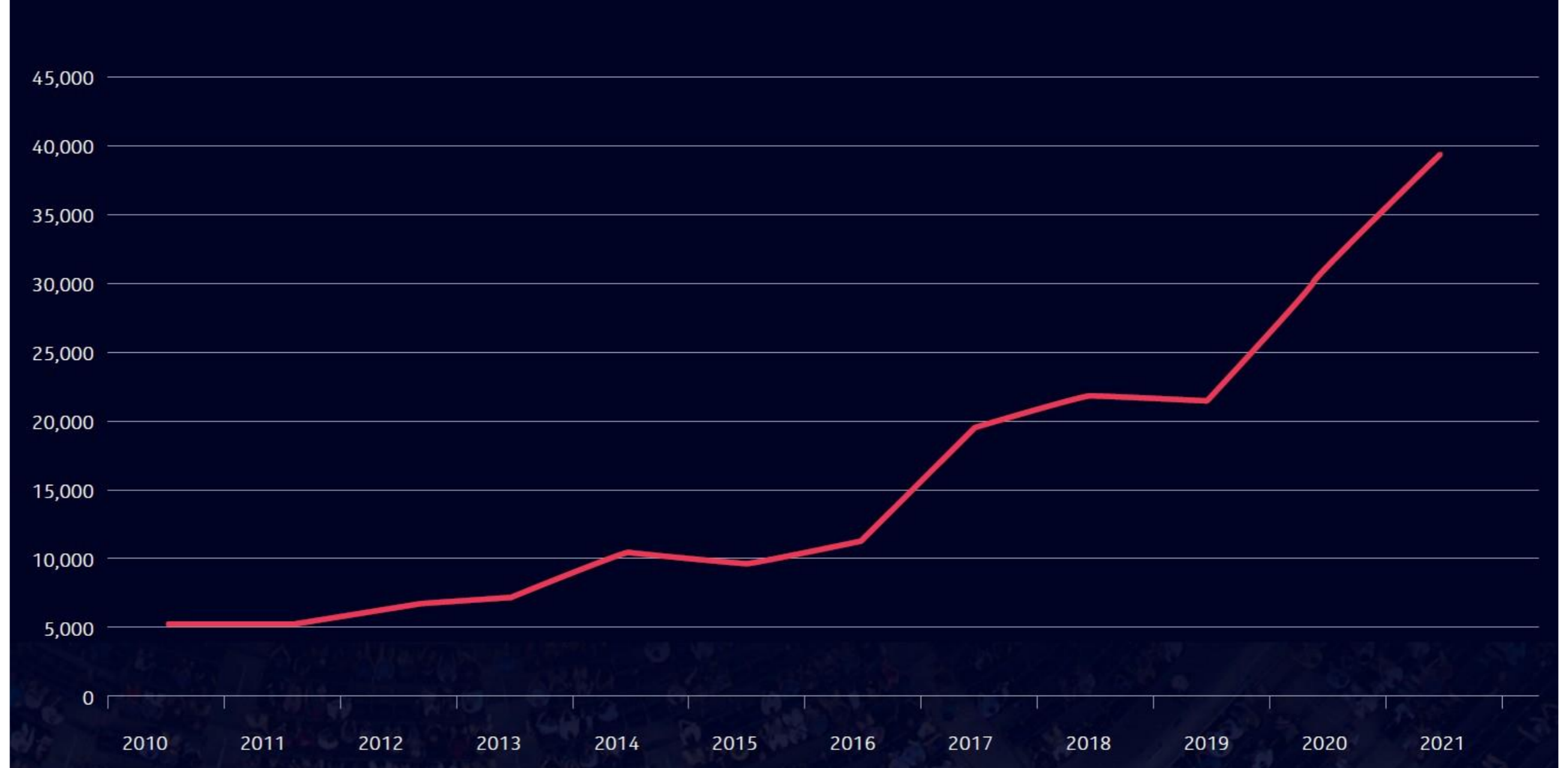


Source: Nokia Threat Intelligence Report 2021

IoT BOTNET ACTIVITY REACHED A NEW HIGH

100% growth in IoT device infection rates from 2019 to 2020

Figure 13. Security vulnerabilities identified, 2010 - 2021

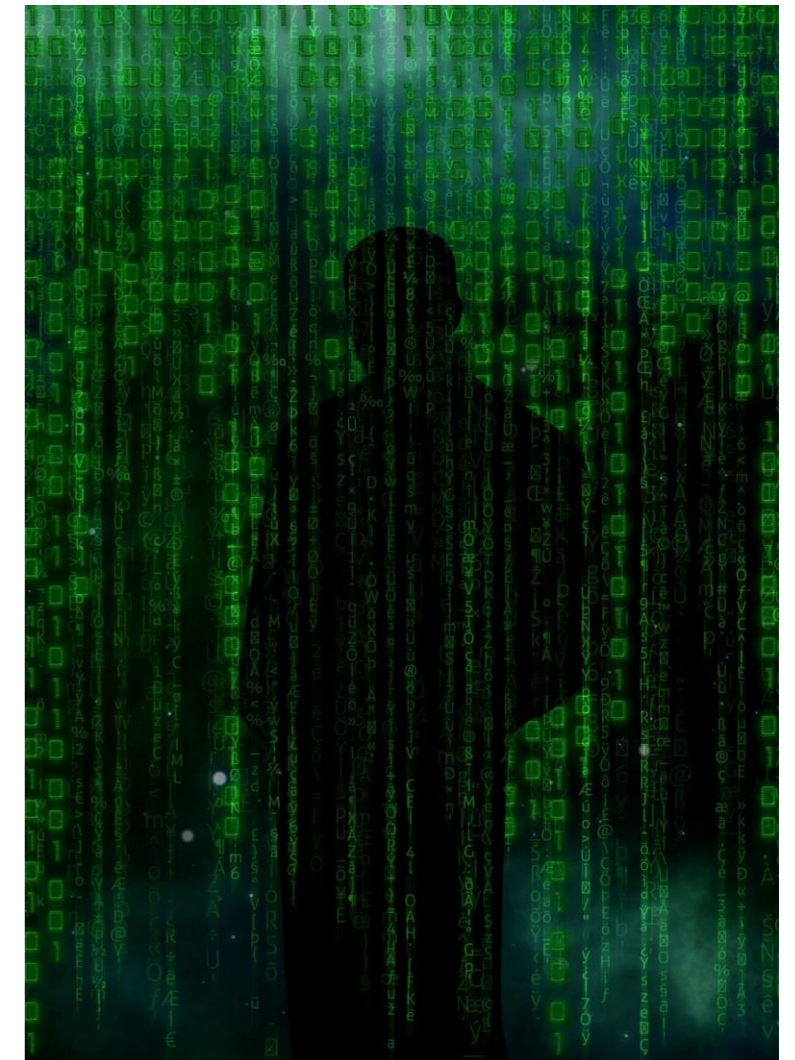


Source: Nokia Threat Intelligence Report 2021



THE IMPACT OF CYBERCRIME

- **Physical and psychological safety**
- **Societal security and stability**
- **Risk to infrastructures and networks**
- **Decline in trust in online services**
- **Harm to legitimate uses of technology**



CYBERCRIME AND TEENS

- **AS AN OFFENDER**

17 years: Average age

CaaS: No technical knowledge needed

- **AS A VICTIM**

Online grooming

Human trafficking

Cyberbullying

...



CYBERCRIME AND TEENS

• PSYCHOLOGICAL PROFILE

Prone to risk-taking

Impulsivity

Poor self-control

Social awareness

Anti-establishment

• KEY MOTIVATIONS FOR YOUNG CYBERCRIMINALS

Completing the challenge

Sense of accomplishment

Proving oneself to peers



CHALLENGES FOR LEAS

- Limited human and financial resources
- Capacity and training
- Tools and technologies outdated
- Ethical, data protection and social constraints
- National borders



CC-DRIVER PROJECT



- Understanding human and technical drivers of cybercrime
- Reduce cybercrime
- Deter young people from a life of crime
- May 2020 – April 2023
- EU H2020 funded: €5 million



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883543



- CC-DRIVER CONSORTIUM
- CC-DRIVER RESEARCH
- CC-DRIVER KEY OUTCOMES
- CC-DRIVER LEA WORKING GROUP
- LEA WORKING GROUP APPROACH
- LEA WORKING MEETING STRUCTURE
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CC-DRIVER CONSORTIUM



Pioneering Futures Since 1898



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CC-DRIVER RESEARCH

- Human and technical drivers of cybercriminality
- Special focus on juvenile cyberdelinquency
- Techniques and tactics of cybercriminals
- Special focus on cybercrime-as-a-service
- Country-specific knowledge regarding:
 - Cybersecurity policies
 - Cybercrime legislation



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CC-DRIVER KEY OUTCOMES



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CC-DRIVER KEY OUTCOMES



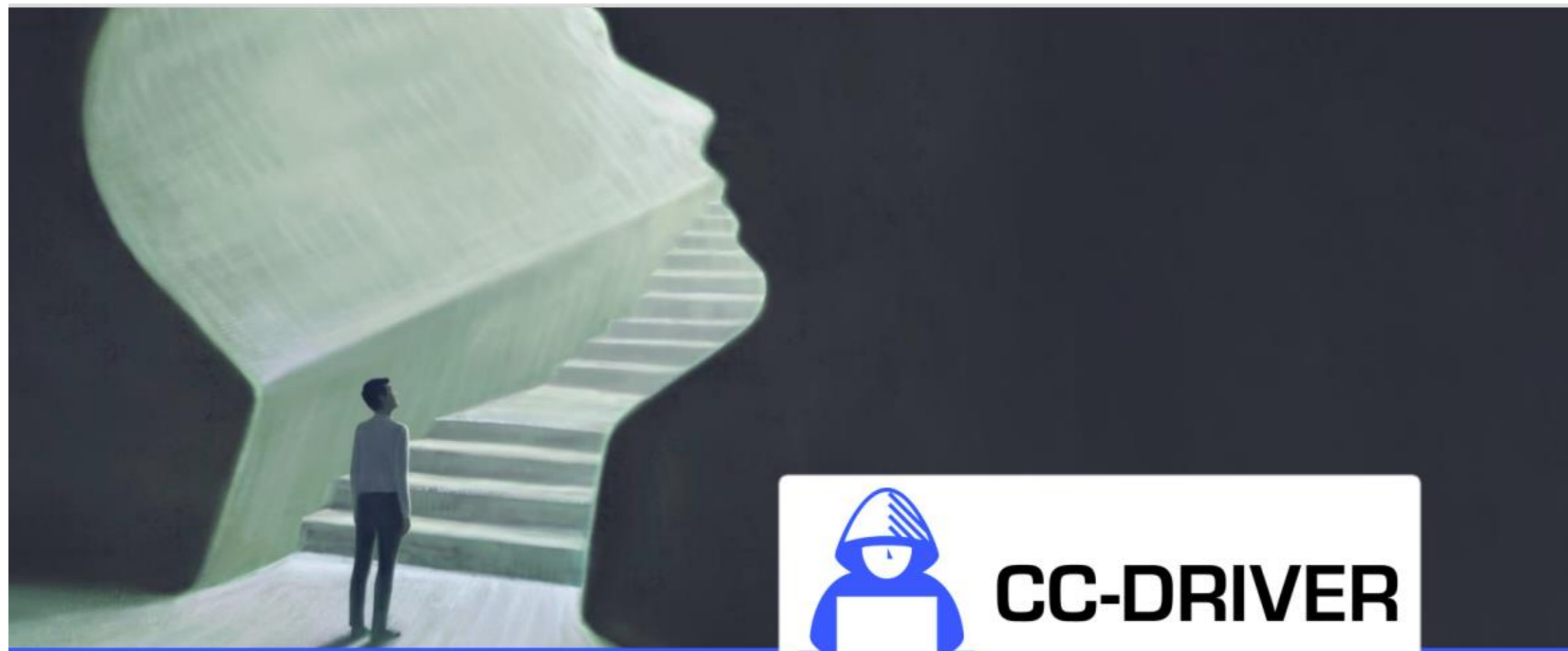
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CC-DRIVER KEY OUTCOMES



CC-DRIVER

Researching cybercriminality to design new methods to prevent, investigate and mitigate cybercriminal behaviour.

R1 — Landscape Study of Cybercrime-as-a-Service

WP2 — Scoping Cybercriminality and Technical Capabilities



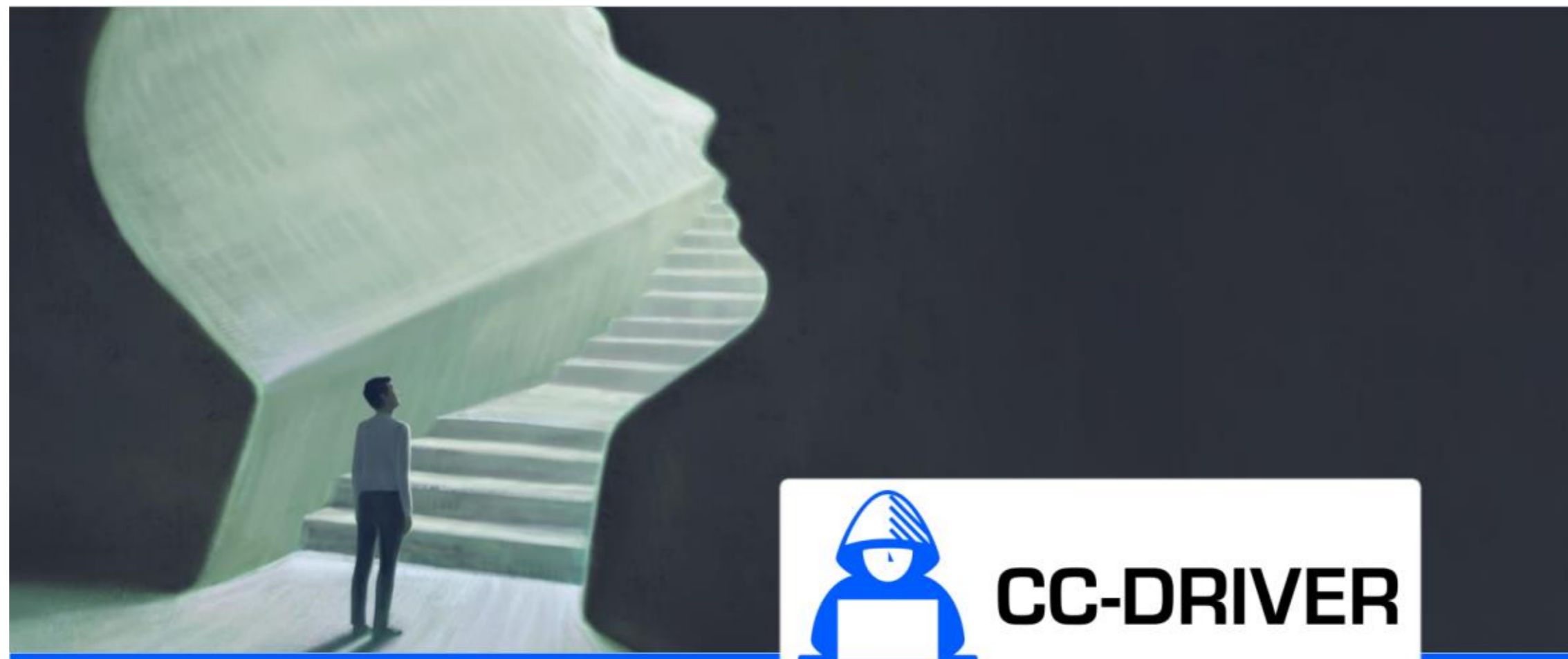
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CC-DRIVER KEY OUTCOMES



Researching cybercriminality to design new methods to prevent, investigate and mitigate cybercriminal behaviour.

D5.1 — Review and gap analysis of cybersecurity legislation and cybercriminality policies in eight countries

WP5 — A cybercrime policy toolkit



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CC-DRIVER KEY OUTCOMES



The CC-DRIVER policy briefs provide insights into current cybercrime trends and threats. They may either be directly derived from the consortium's research activities within the project's framework or address highly important developments that fall into the research interest of CC-DRIVER and require a thorough discussion and the conception of clear counter-measures.



No 1 February 2021

[The Russian Hack and EU Policy Options](#)



No 2 September 2021

[The Technical Drivers of Cybercrime](#)



No 3 October 2021

[Review and Gap Analysis of Cybersecurity Legislation and Cybercriminality Policies in Eight Countries](#)



No 4 May 2022

[Challenges in Measurement of Cybercrime](#)



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CC-DRIVER LEA WORKING GROUP

- Discussion group of LEAs
- Exchange of experiences
- Exchange of best practices
- Specific focus on cybercrime
- Human, social and societal aspects of security problems



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LEA WORKING GROUP APPROACH

- Exclusive to LEAs (addressing specific LEA issues)
- Cybercrime related topics, with special focus on juvenile cyberdelinquency
- Topics for discussion open to proposals from LEA participants
- Open to participation from any LEA



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LEA WORKING GROUP MEETING STRUCTURE

- Trend of the addressed topic in participating countries
- Specific question/s addressing the topic
- Challenges faced by LEAs
- Best practices (initiatives, tools, resources...)
- Recommendations for further action



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LEA WORKING GROUP ADDRESSED TOPICS

LEA WG has so far focused on:



Hactivism



Online grooming



Awareness raising



Online hate speech

Next edition (mid June, 2022): The role of gender in cybercrime

(For participation, please contact us by email to "proyectosplv@valencia.es")



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LEA WORKING GROUP RESULTS

The CC-DRIVER LEA Working Group is a discussion group of Law Enforcement Agencies (LEAs) that aims for an exchange of experiences and best practices with a specific focus on cybercrime. These meetings are a safe space for LEAs to discuss about the human, social and societal aspects of security problems and their remedies.

The LEA Working Groups are one hour-long conference calls organised by [Valencia Local Police](#) on a quarterly basis, being open to any LEA external to CC-DRIVER.

in

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Anonymized reports from each edition publicly available in CC-DRIVER webpage



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CC-DRIVER FURTHER INFORMATION



<https://www.ccdriver-h2020.com/>



@CcdriverH2020



CC-DRIVER Project



CC-DRIVER Project



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“Empowering and educating young people for the Internet by playing”

Starting date: Oct 1st 2020

Duration: 36 months

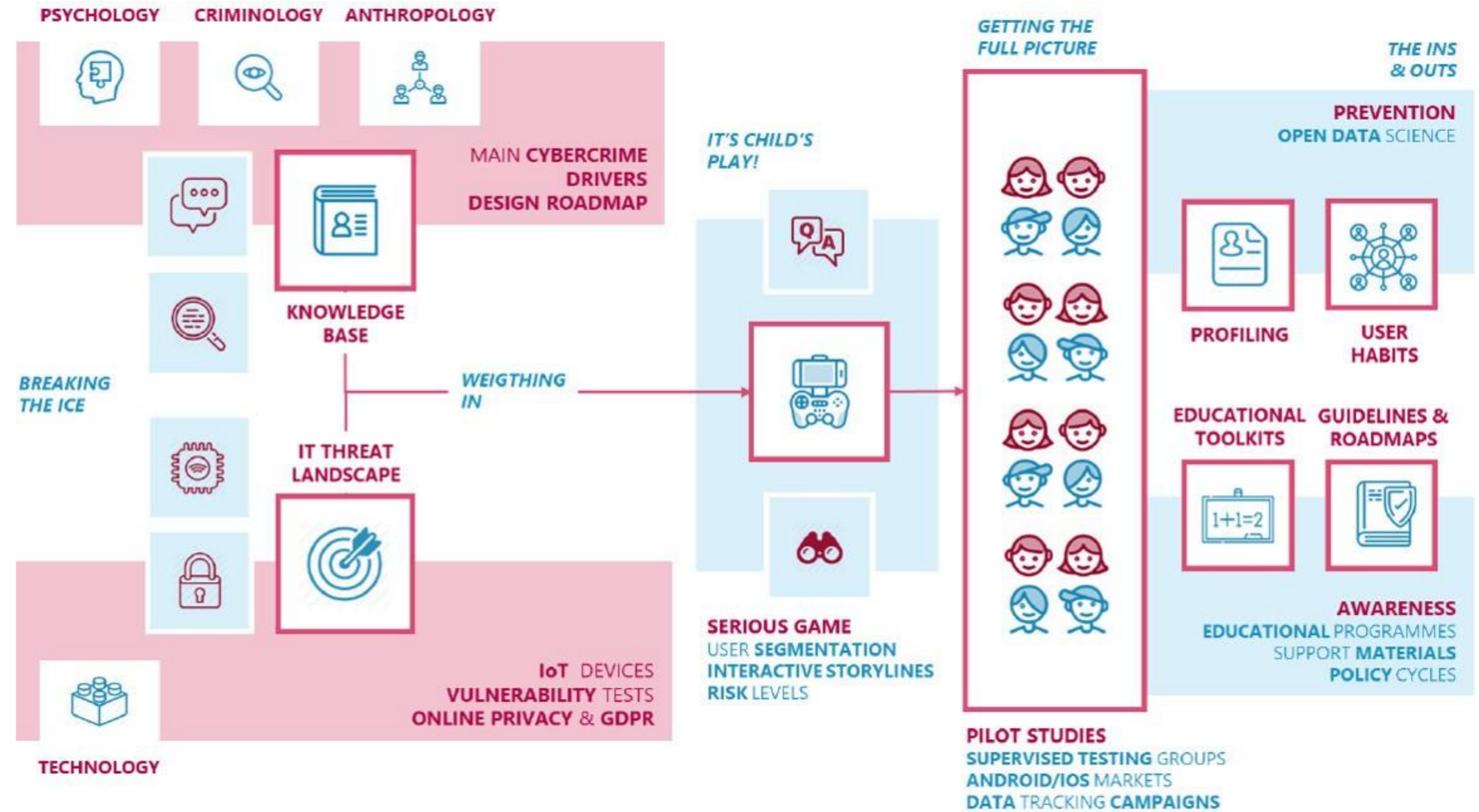
Funding: € 5M



This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 882828

- SUMMARY AND GOALS
- PARTNERS
- RESULTS
- LEA CLUSTER

SUMMARY AND GOALS



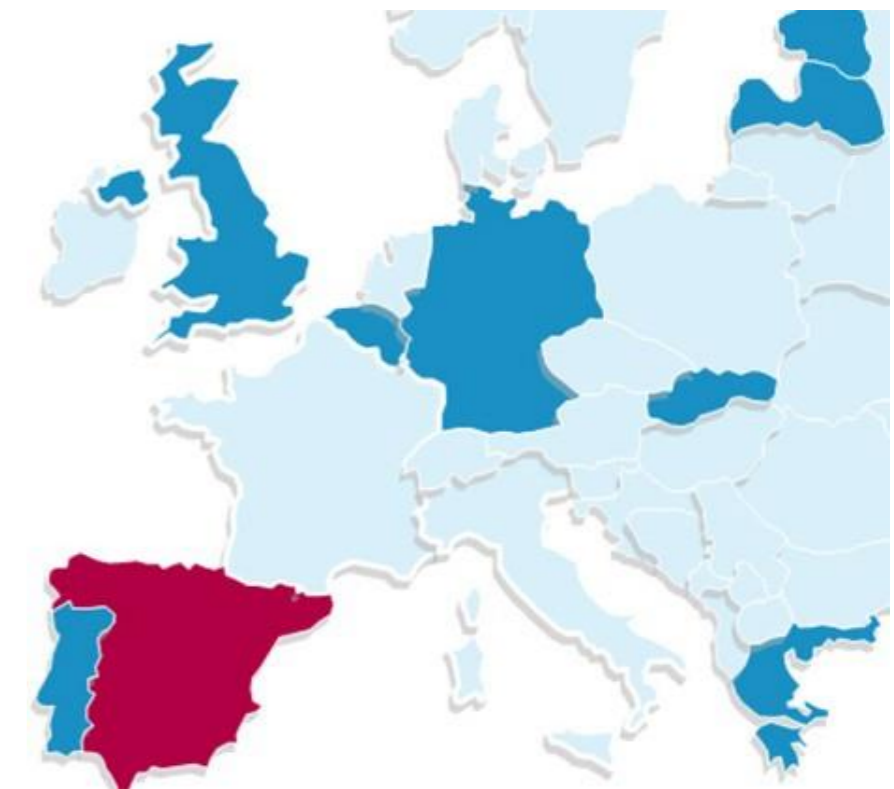
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- SUMMARY AND GOALS
- **PARTNERS**
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- LEA CLUSTER



Consortium:
17 partners from 9 EU countries



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Overall contributions

- **Prevention:** the minors will seamlessly acquire good online practices in a safe environment by playing the game and learning from their errors without risk.
- **Mitigation:** data gathered through the game will be processed and interpreted to generate evidence-based recommendations, policies and measures.

- SUMMARY AND GOALS
- PARTNERS
- RESULTS
- LEA CLUSTER



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LEA CLUSTER (CURRENTLY COMPOSED BY 17 EU PROJECTS)

- SUMMARY AND GOALS
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- RESULTS
- LEA CLUSTER

PREVISION



CC-DRIVER



COPKIT

LOCARD

DARLENE



TRACE



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You can also find us at:

FB: <https://www.facebook.com/RayuelaH2020>

Twt: https://twitter.com/rayuela_h2020

Lnk: <https://www.linkedin.com/company/rayuela-h2020/>



- SUMMARY AND GOALS
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Conclusions

LEAs role in the digital age



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RAYUELA

a fun way to fight cybercrime

Conclusions

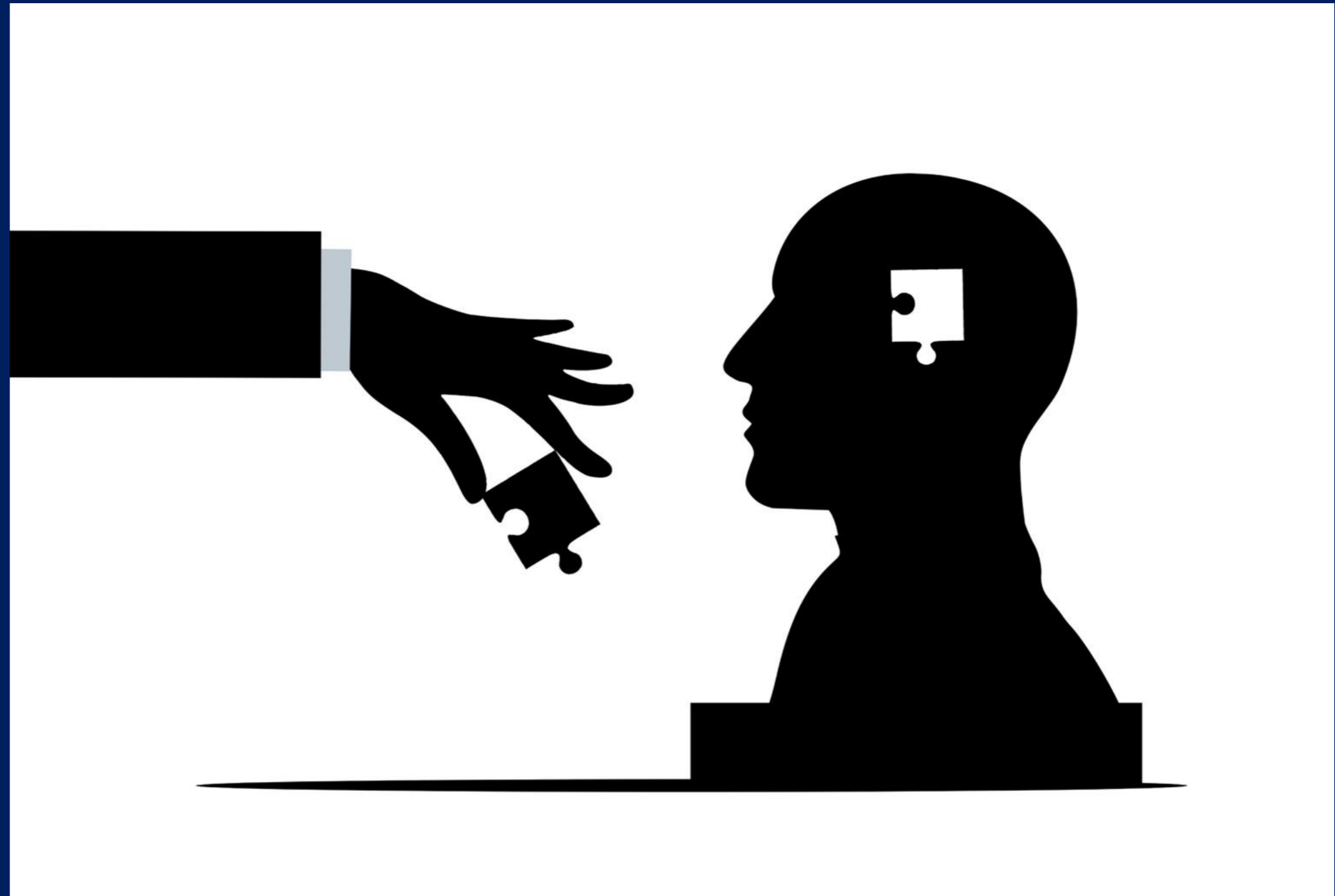
LEAs role in the digital age



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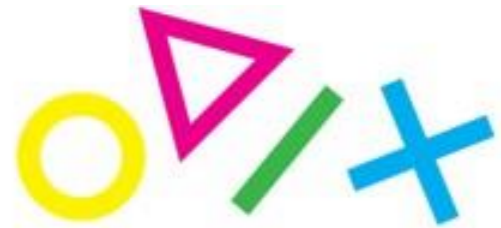


Conclusions

LEAs role in the digital age



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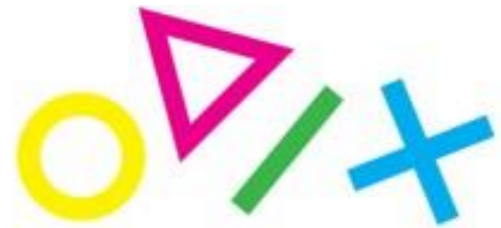


Conclusions

LEAs role in the digital age



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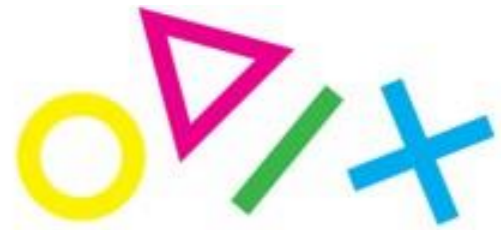


Conclusions

LEAs role in the digital age



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RAYUELA

a fun way to fight cybercrime





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For more information
Contact Valencia Local Police:



proyectosplv@valencia.es



Valencia Local Police EU Projects Division



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