Overview of CC-DRIVER and RAYUELA projects:

investigate, identify, understand and explain drivers of juvenile cyberdelinquency.

Valencia Local Police, Project Management Division.
Rubén Fernández
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
IoT BOTNET ACTIVITY REACHED A NEW HIGH

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

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...

CC-DRIVER
RAYUELA
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- Tools and technologies outdated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

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

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
CC-DRIVER KEY OUTCOMES

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
CC-DRIVER KEY OUTCOMES

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

WP2 — Scoping Cybercriminality and Technical Capabilities

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
D5.1 — Review and gap analysis of cybersecurity legislation and cybercriminality policies in eight countries

WP5 — A cybercrime policy toolkit

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

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

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

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

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
LEA WORKING GROUP ADDRESSED TOPICS

LEA WG has so far focused on:

- Hacktivism
- 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”)

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
Anonymized reports from each edition publicly available in CC-DRIVER webpage

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
CC-DRIVER FURTHER INFORMATION

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

@CcdriverH2020

CC-DRIVER Project

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883543
“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
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 882828
Consortium:
17 partners from 9 EU countries

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

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 882828.
LEA CLUSTER (CURRENTLY COMPOSED BY 17 EU PROJECTS)

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

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
PARTNERS
RESULTS
LEA CLUSTER
Conclusions

LEAs role in the digital age
Conclusions

LEAs role in the digital age
Conclusions

LEAs role in the digital age
Conclusions

LEAs role in the digital age
Conclusions

LEAs role in the digital age
For more information
Contact Valencia Local Police:

proyectosplv@valencia.es

Valencia Local Police EU Projects Division
@policialocalvlc
@policialocalvlc