

### **Assessment and Analyses of Training Needs**







**EU-STNA** 



OTNA



micro TNA



### **CEPOL** training portfolio

To provide the most suitable training for law enforcement officials across the EU



## **EU-STNA**

2022-2025

### Methodology

#### Analysis and reporting 2021

#### Implementation 2022-2025













Desk research

Expert group consultations

Prioritisation, training volume estimation Report

Mid-term review

Evaluation

Jan-Mar 2021

Mar-May 2021

Jun-Sep 2021

Oct-Dec 2021

Q3-4 2023

Q1-2 2024

### **Findings**

8 core capability gaps

where law enforcement officials need capacity building through training

230

training needs

17

thematic areas

other specific training needs

Member States indicated

110,368

law enforcement officials

needing EU-level training in these areas

### Findings: core capability gaps



Digital skills and use of new technologies



High-risk criminal networks



Financial investigations



Cooperation, information exchange, and interoperability



Crime prevention



Document fraud



Forensics



Fundamental rights and data protection

### Detailed list of training priorities

Cybersecurity fundamentals for EU officials' everyday use (cyber hygiene, cybersecurity guidelines, secure exchange of information, physical security).

Raising awareness of the most important cyber-threats (e-mail based attacks, web-based attacks, DDoS attacks, social media scams). Understanding the cybersecurity challenges from the modern technologies, like AI or 5G.

Better, modern and validated tools and training materials for tackling activities related to disinformation and fake news that are considered as crime or could lead to crime and are supported by advanced digital technologies.



## Detailed list of training priorities

Digital investigation: OSINT, dark net, cyber threat intelligence (CTI) knowledge management, decryption, use of AI, big data analysis, quantitative and qualitative analysis methods, internet of things, advanced use of camera systems, drones, exoskeletons and speech processors, big data analysis for prediction of criminal behaviour, cryptocurrencies

Digital forensics

Victims' protection

Fundamental rights and data protection



### Findings: thematic areas



Cyber-attacks



Criminal finances, money laundering and asset recovery



Counter-terrorism



Trafficking of human beings



Drug trafficking



Migrant smuggling



Child sexual exploitation



Online fraud schemes



Organised property crime

# Cyber-attacks

- 1. Investigating cyber-attacks on information systems and modus operandi: analysing latest cyber-attacks and EU emergency response; developing alternative investigation techniques and EU tools, including their use
- 2. Latest challenges for dealing with encryption, anonymisation and bulletproof hosting services
- 3. Identifying, handling, securing, preserving, analysing and exchanging e-evidence
- 4. Combatting crime-as-a-service used by criminals and criminal groups in illegal activities
- 5. Effective international cooperation
- 6. Protocols to tackle large-scale cyber-attacks

## Cyber-attacks

- 7. Raising awareness of cyber-attacks for EU agencies, law enforcement agencies and the public, including a coordinated approach for prevention; cyber-enabled and cyber-dependent crime awareness, cyber threats and cybercrime investigation
- 8. Big data analysis
- 9. Blockchain analysis
- 10. Using artificial intelligence, machine learning and deep learning in cybercrime investigation
- 11. Cybercriminal profiling and motivation analysis
- 12. Fundamental rights such as human dignity, non-discrimination, gender equality, privacy and data protection

## **OTNA**

2023-2025 and 2020-2022

### **OTNA** methodology

- Developed by CEPOL (32/2017/MB, 9/2020/MB)
- Respondents: MS experts
- Via on-line survey and interviews
- Valid for 3 years



### **OTNA** methodology

Responde nt nominatio n via CNUs

Data gathering

Draft report

Publicatio n















Questionn aire developm ent with expert group Analysis, interviews

Validation and portfolio design by expert group



# OTNA 2023 Digital skills and use of new technologies

EU-STNA topics

Relevance

Urgency

Proficiency level

**Profiles** 

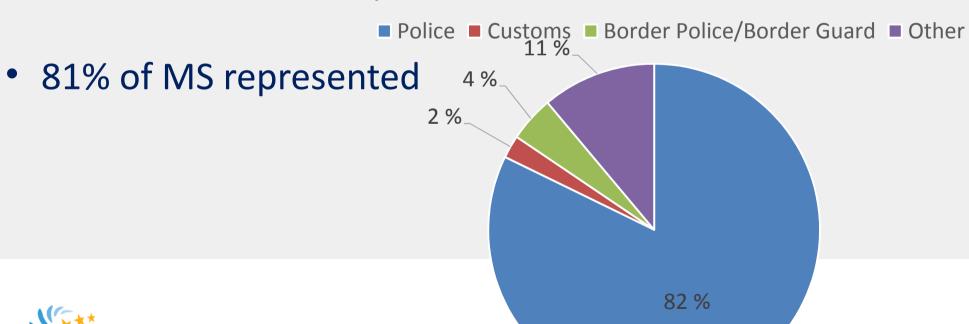
Number of participants



## Response rate

- 45 responses
- 21 MS, Europol and Frontex

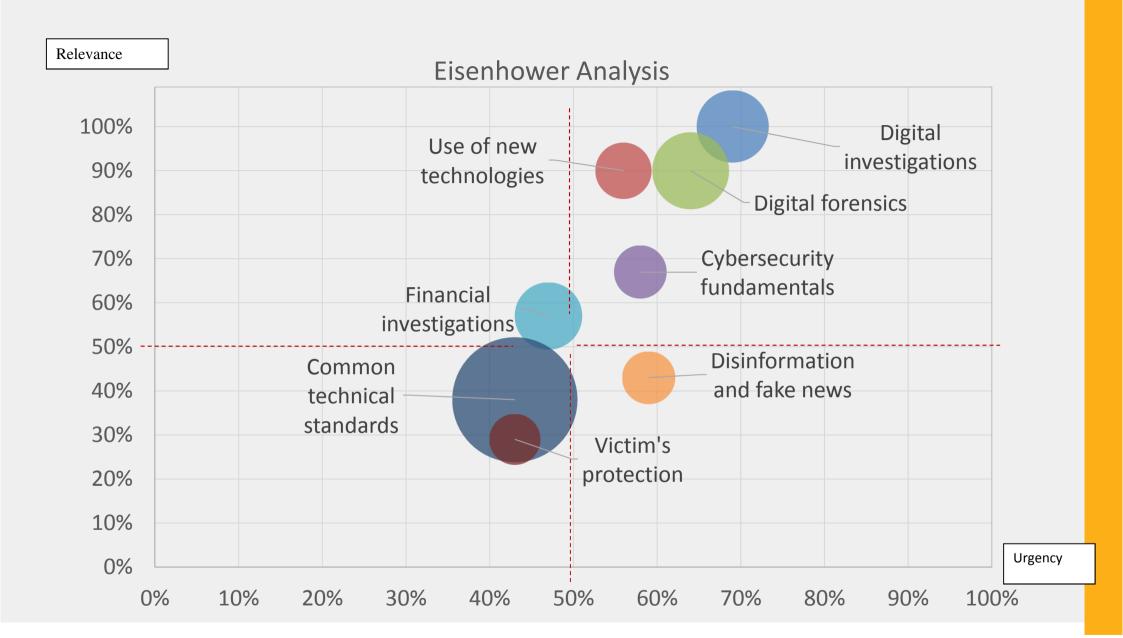
• 15 252 LE officials represented Institutions





Main Topic	Relevance
Digital investigations	100 %
Use of new technologies	90 %
Digital forensics	90 %
Cybersecurity fundamentals for EU law enforcement official's everyday use and awareness raising	67 %
Financial investigations	57 %
Disinformation and fake news	43 %
Common technical standards	38 %
Victim's protection (how to protect victim's rights during investigations)	29 %







### **NUMBER OF PARTICIPANTS**

Proficiency level	Number of participants
Awareness	3081
Practitioner	2054
Advanced practitioner	2080
Expert	1469
Train-the-trainer	923
Total	9607

Profiles: investigators, experts on forensics and IT analysts, intelligence officers, managers and cybersecurity officials prosecutors, investigative judges and magistrates

### **OTNA Conclusions**

# Most relevant topics

- Digital investigations
- Use of new technologies
- Digital forensics

# Proficiency levels

- Awareness
- Advanced practitioner
- Practitioner

# New training needed

- Use of new technologies
- Cybersecurity fundamentals
- IoT
- Disinformation& fake news



### **Training needs – OTNA, Cybercrime 2020**

### Most training should target

- General criminal investigators
- Digital forensic investigators and examiners
- Cyber experts

## Skills to be mostly developed

- First responder
- Live data forensic
- Cybercrime legislation



# **CEPOL Training portfolio**

2022

## **CEPOL** training portfolio

Onsite

Online course

Online module

E-lesson

Cyberbite

Webinar

Digital investigations

Financial investigations

Cybersecurity fundamentals by EU Agency for Cybersecurity

Digital forensics

Use of new technologies

Disinformation and fake news

# Top priorities for new training

2023-2025

# Practitioners/advanced practitioner level (online modules or online courses)

### Use of new technologies

- Artificial Intelligence combine data protection and tools with big data analysis; legal framework and constraints once the AI Act is adopted
- Big data analysis hands on training on tools, analysis, etc., methodology, approach; various types of data can be retrieved and you need the proper tools to correlate data

#### Disinformation and fake news

 Deep fakes – some practical tools on how to find information, how to detect manipulation

## Awareness level (webinars or e-lessons)

### Use of new technologies

- Illegal use of drones by criminals, including aspects of fundamental rights and data protection
- Use of cameras –this is what we have, how to use, what to avoid, including aspects of fundamental rights and data protection
- 5G use of 5G by criminals and by law enforcement, including aspects of fundamental rights and data protection
- Use of automotive by law enforcement, including aspects of fundamental rights and data protection
- Automotive forensics search, including aspects of fundamental rights and data protection

#### Disinformation and fake news

 Detecting tampered evidences, including aspects of fundamental rights and data protection

#### **Update of Cyberbites**

### Conclusions

