LEA Projects Cluster meeting

Law Enforcement Innovation & Synergies Workshop

29/01/2026

Privanova
Research & Consulting

comms@Privanova.com

34, avenue des Champs-Elysées, Paris

Funded by
the European Union

Welcome to the fourth LEA Cluster Projects meeting!

Law Enforcement Innovation & Synergies Workshop

What to expect from today's event?

Agenda

Time	Session	Speaker
11:00 - 11:05	Welcome and Introduction	Kristina Isakzay, PN (moderator)
11:05 - 11:10	Opening remarks	Farhan Sahito, PN
11:10 - 11:30	**Keynote** *Investigations in the digital realm: EU Priorities for innovation*	Gilles Robine, DG Connect
11:30 - 11:40	**Keynote** *Emerging training priorities for law enforcement agencies*	Estonian Police
11:40 - 11:50	**Keynote** *Preparing Law Enforcement Professionals for New Operational and Technological Realities*	Serbian Police Academy
11:50 - 12:00	**Project IAMI** AI-Driven Entity Identification and Intelligence Support for LEAs	Gideon Hazzani, LibereU IAMI Project Technical Manager
12:00 - 12:10	**LEAs Feedback Session** IAMI project Requirements	Kristina Isakzay, PN (moderator)
12:10 - 12:20	**Project SafeHorizon** Intelligence and Situational Awareness Against Crime-as-a-Service	Constantionos Patsakis, Athena Research Center, SafeHorizon Coordinator
12:20 - 12:30	**LEAs Feedback Session** SafeHorizon Awareness & Acceptance	Kristina Isakzay, PN (moderator)
12:30	Closing remarks	Kristina Isakzay, PN (moderator)

SafeHorizon | Privanova Research & Consulting | Funded by the European Union

Opening remarks

Dr. Farhan Sahito
Partner, Privanova

LEA projects cluster

CC-DRIVER

01 CC-DRIVER

May 2020

LEA Project Cluster initiated

19 Projects

Over the course of 3 years

CYBERSPACE

02 CYBERSPACE

February 2023

CYBERSPACE took over the leadership

36 Projects

17 projects joined the cluster

SafeHorizon

03 SAFEHORIZON

September 2024

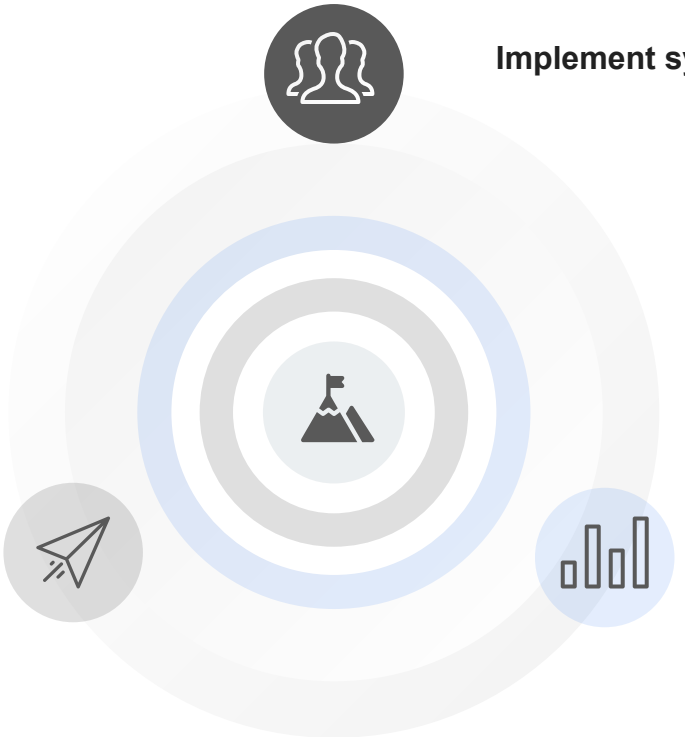
SafeHorizon took over the leadership

48 Projects

12 projects joined the cluster

COLLABORATIVE PLATFORM

Our shared **purpose**



Implement synergies

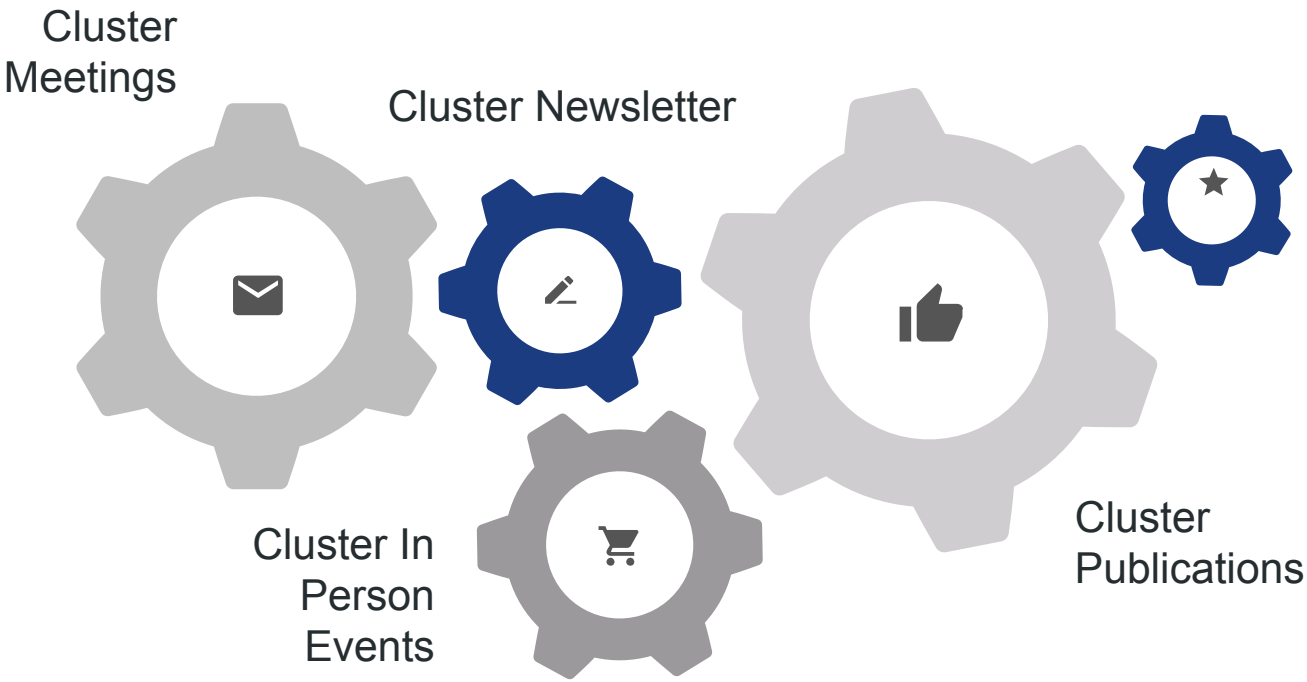
Exchange knowledge, resources, and best practices

Deliver added value to projects dissemination & exploitation activities

LEA projects cluster

LEA Projects Cluster is fast growing community: 48 projects / 200+ partners

Engagement, Communication & Visibility



New projects **recently joining the LEA Projects Cluster**

VANGUARD aims to strengthen the fight against trafficking in human beings (THB) through the provision of improved intelligence picture, delivery of an advanced and trustworthy suite of tools, and realisation of innovative training activities. Through its interdisciplinary consortium, VANGUARD will foster collaboration, provide policy recommendations, and raise awareness for sustainable impact against the exploitation of human beings.

EINSTEIN aims to enhance physical and digital identity checks, privacy-preserving identity management, and fraud detection for border and police authorities by developing and validating six advanced applications, including mobile and online checks, document authentication, pre-registration, and biometric fast-track solutions.

INCIDENTRON is an EU-funded project focused on improving how organizations report and manage cybersecurity incidents. It develops a modular and scalable architecture, an open-source incident reporting framework, and a platform that supports end-to-end reporting across major EU regulations including NIS2, CER, DORA, GDPR, and the Cyber Resilience Act (CRA).

Keynote

Gilles Robine,
DG Home

Investigations in the digital realm: EU Priorities for innovation

LEA Discussion & Feedback

Keynote

Kaisa Ellandi,
Estonian Police and Border Guard Board

Emerging training priorities for law enforcement agencies

Short introduction

Who am I?

- **Name:** Kaisa Ellandi
- **Organization:** Estonian Police and Border Guard Board
- **Experience:** Development projects and innovation in the field of prevention and offence proceedings
- **Personal interests:** Horseback riding and dog training
- **Get in touch:** Open to cutting-edge project proposals in law enforcement

Questions

What changes are already taking place in Estonia and around the world, or are upcoming, that will significantly affect our work?

What new training needs are emerging as a result of these changes?

Why are we talking about the future?

We are not predicting the future. We are not talking about science fiction. We are talking about changes that **have** already **begun.**

Police work does not change because we want it to - it changes because **society, technology**, and **crime** are changing anyway.

Not all trends are good or bad. They represent new **risks** and new **opportunities**, at the same time.

Changes in police work – where are we headed?

Who is the offender?

Increasingly, cases involve a combination of a human + automation + multi-platform tools.
How do we prove who committed the act — was it a human?
How is responsibility divided between the individual and the owner of the platform or tool?

Crime types are converging

Organised crime is increasingly intertwined with other phenomena: cyberattacks, fraud, money laundering, and more.

Crime is becoming automated

Semi-automated AI-driven crime-as-a-service markets are emerging - AI handles customer interaction, negotiations, and recruitment.”

Traditional crime is becoming digitalized

Cyber investigation is becoming commonplace even in cases that are not classical cybercrimes.

What this means for training?

- Digital competence
- Adapting to new crime patterns
- Human skills & communication
- Resilience & stress management
- Ethics & fundamental rights

Police work does not change because we want change; it changes because society, technology, and crime are changing anyway.

We have to act before we are forced to.

LEA Discussion & Feedback

Keynote

Prof. Zvonimir Ivanovic,
University of Criminal Investigation and Police Studies

Bridging Innovation and Operation: Training Experiences in Horizon Europe Security Projects

Empowering law enforcement through Ceasefire, Anita, Salvus, and Sparkup

Introduction & Philosophy

Core Message: Horizon Europe projects produce cutting-edge technology, but *training* is the bridge that makes these tools usable for Law Enforcement Agencies (LEAs).

Our Role: We translate complex R&I results into operational capability.

Key Themes:

- Operationalizing AI tools.
- Harmonizing legal best practices.
- Cross-sector talent development.

Project Ceasefire (Firearms Trafficking)

Context: Combating illicit firearms trafficking using advanced AI and cross-border data fusion.

Training Focus: "Operationalizing Technology"

What we trained on:

- *Mobile Detection:* Training field officers to use the "On-the-Spot" mobile app for rapid firearm identification at crime scenes.
- *Intelligence Tracking:* Teaching analysts to use the "Firearms Incident Tracking Tool" to link ballistic data across borders.
- *Dark Web Analysis:* How to interpret AI-generated alerts from darknet marketplaces.

Key Result: LEAs moved from manual checks to automated, AI-assisted recognition.

Project Anita (Illegal Trafficking)

Context: Fighting online illegal trafficking (drugs, counterfeit goods) using heterogeneous data (text, video, crypto).

Training Focus: "The Human-in-the-Loop"

What we trained on:

- *Investigative Systems:* Training investigators to interact with the Anita knowledge graph—teaching them not just to "read" data, but to feed their domain expertise back into the system.
- *Crypto-analysis:* Training on tracing cryptocurrency transactions linked to trafficking networks.
- *Curriculum Development:* Creating specific modules for "Online Intelligence Analyst" profiles.

Key Result: Bridging the gap between data scientists and police investigators.

Project Salvus
(Child Sexual Abuse - CSA)

Context: Ensuring safer justice outcomes in online and undercover CSA investigations.

Training Focus: "Ethics, Law & Best Practice"

What we trained on:

- *Harmonization:* Training practitioners on the new European Best Practice Guidance for evidence collection (standardizing how evidence is gathered to ensure it stands up in cross-border courts).
- *Child-Centered Approaches:* Specialized training on victim identification that prioritizes the rights and psychological safety of the child.
- *Legal Frameworks:* Navigating the complex differences in admissibility of digital evidence across EU member states.

Key Result: Moving beyond just "technical" training to "procedural and ethical" competence.

Project SparkUp (CBRNE & Innovation)

Context: Strengthening CBRNE (Chemical, Biological, Radiological, Nuclear, Explosives) preparedness and talent development.

Training Focus: "Capacity Building & Future Skills"

What we trained on:

- *Talent Development:* Upskilling programmes that help academic researchers understand LEA needs, and vice-versa (bridging the "Valley of Death" in innovation).
- *Immersive Learning:* Utilization of VR (Virtual Reality) tools and "Game-based training" for hazardous CBRNE scenarios where real-life training is too dangerous or costly.
- *Center of Excellence:* Establishing long-term training hubs (e.g., at Police Universities) to ensure the project results survive beyond the funding period.

Key Result: Building a sustainable ecosystem of talent rather than just delivering a one-off workshop.

Our Training Methodology

Co-Creation: We don't just "lecture"; we design curricula *with* the LEAs (as seen in Salvus).

Train-the-Trainer: Empowering local officers to continue the training after the project ends (essential in Ceasefire).

Scenario-Based Learning: Using real-world use cases (e.g., a specific trafficking route in Anita) to make training relevant.

Formats:

- Physical Pilot Trainings (Workshops).
- E-Learning Platforms (MOOCs).
- VR/AR Simulations (SparkUp).

Impact & Conclusion

Metrics:

- Number of LEA officers trained.
- Number of jurisdictions reached.
- Adoption rate of tools post-training.

Final Thought: "Tools are only as effective as the people using them. Our experience across Ceasefire, Anita, Salvus, and SparkUp proves that dedicated, domain-specific training is the key to EU security project success."

Methodology & Quality Assurance

Adhering to European Law Enforcement Training Standards (LEEd / CEPOL Framework)

Training Needs Analysis (TNA):

- **Evidence-Based Design:** Curricula are not random; they are built on a rigorous *Gap Analysis* of current LEA capabilities vs. emerging threats (as performed in *Salvus HE* WP2).
- **Multi-Stakeholder Validation:** Content is co-created with field practitioners, legal experts, and ethical boards to ensure operational relevance and legal compliance.

Andragogical Approach: "Blended Learning" Model:

- **Asynchronous:** Self-paced e-learning modules (hosted on platforms compatible with LEEd) for theoretical foundations (Legal frameworks, EU Directives).
- **Synchronous/Immersive:**
  - *Scenario-Based Learning:* Real-world use cases (e.g., *Ceasefire* ballistic tracking) to test decision-making under pressure.
  - *XR/VR Simulations:* Safe-environment training for high-risk CBRNE scenarios (standardized in *SparkUp HE*).

Methodology & Quality Assurance

The "Cascade" Multiplier Effect:

- **Train-the-Trainer (ToT):** We do not just train officers; we train *instructors*. This ensures the knowledge remains within the agency after the project ends.
- **Standardized Toolkits:** Delivery of "Training Packs" (Instructor Manuals, Student Handbooks, Evaluation Grids) to facilitate local replication.

Assessment & Certification:

- **Kirkpatrick Model Implementation:**
  - *Level 1 (Reaction):* Immediate feedback from participants.
  - *Level 2 (Learning):* Pre- and post-testing of skills.
  - *Level 3 (Behavior):* Long-term follow-up on tool adoption in actual investigations (6-12 months post-project).

Methodology & Quality Assurance

Cross-Border Interoperability:

- **Harmonized Lexicon:** Ensuring that a "High Priority Alert" in an *Anita* dashboard means the same to an officer in Spain as it does to one in Poland.
- **Joint Exercises:** Multi-agency pilot trainings to foster trust and test data exchange protocols.

Training Impact Matrix

Project Name	Primary Target Audience	Training Format & Tools	Key Outcome / Capability Gap Filled
CEASEFIRE 	Field Officers, Ballistics Experts, Border Guards	Mobile App Workshops & Hands-on: "On-the-Spot" detection training; automated ballistics comparisons.	Operational Speed: Reduced time for firearm identification from days (lab) to minutes (field).
ANITA 	Criminal Intelligence Analysts, Cyber-Investigators	Simulation & Platform Training: Knowledge Graph interaction; Dark Web monitoring; Crypto-tracing exercises.	Cognitive Augmentation: Enabled analysts to uncover hidden trafficking networks that manual analysis missed.
SALVUS 	Special Victims Units, Prosecutors, Judges	Procedural & Ethical Seminars: Child-centered interviewing techniques; Legal harmonization workshops.	Legal Robustness: Standardized evidence collection to prevent case dismissal in cross-border CSA trials.
SPARKUP 	First Responders, Innovation Managers in LEAs	Immersive Tech (VR/XR): Virtual Reality scenarios for hazardous CBRNE environments; Innovation management bootcamps.	Safety & Future-Readiness: allowed high-risk training without physical danger; bridged the gap between R&D and Police.

Thank you

Zvonimir Ivanovic, UCIPS, Serbia

CERIS DG – Home,

Chevening fellow

Leading team manager, ANITA,

CEASEFIRE, Salvus,

Team member SPARKUP

LEA Discussion & Feedback

Keynote

Gideon Hazzani,
LibereU, IAMI technical coordinator

AI-Driven Entity Identification and Intelligence Support for LEAs

IAMI overview and status

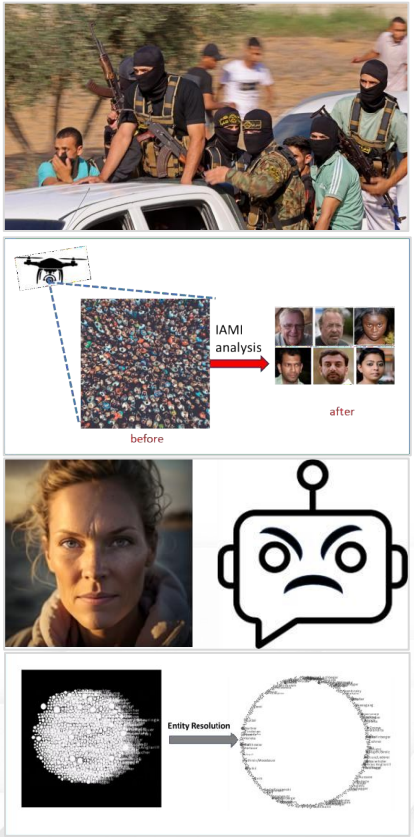
Entity Identification (EI) and Entity Resolution (ER) in counter terrorism contexts

- **Entity Identification (EI)-** Verifying, uniquely and undoubtedly recognizing an individual/organization based on different types of collected probe attributes.
- **Entity Resolution (ER)-** Resolving entities' identity discrepancies and duplicities (such as variations in names and nicknames, different name spellings or aliases).
    - Associating/merging related data or records (from different sources) that refer to the same entity (whether individual or organization).
    - Deduplicating (grouping) entities which mistakenly are considered as multiple entities, but essentially are the same entity.

The Challenge:
Addressing critical gaps in EI/ER

- IAMI targets the urgent need for advanced **Entity Identification (EI)** and **Entity Resolution (ER)** in counter-terrorism contexts, addressing limitations in existing identification and analysis systems.

- The project overcomes the following limitations:
  - EI/ER in noisy, poor-footage, dynamic, disguised, fake-ID, remote distance, crowded or biometric-deficient scenarios.
  - EI/ER in high data volumes environments.
  - Identifying/resolving **flux** of entities swiftly and accurately in order to allow LEAs cope well with real-time/unfolding threat scenarios (high throughput).
  - Resolving identity discrepancies/variations/aliases/unknown-duplicities to streamline
  - investigation and intelligence efforts.
  - Support broad range of identity attributes types (not limited to biometric).
  - Support multi-entity types (individuals, organizations, bots/avatars).

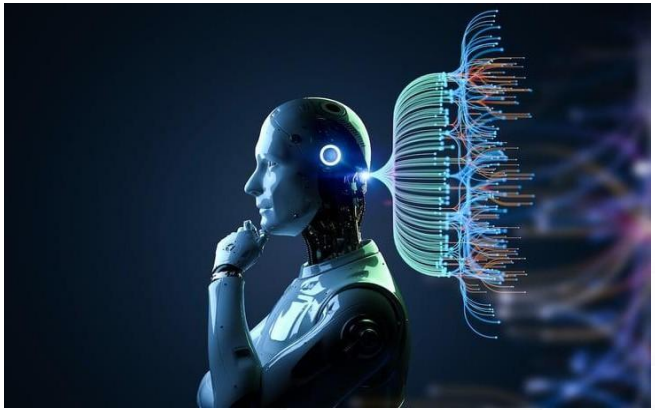


Main Outcomes and System Capabilities

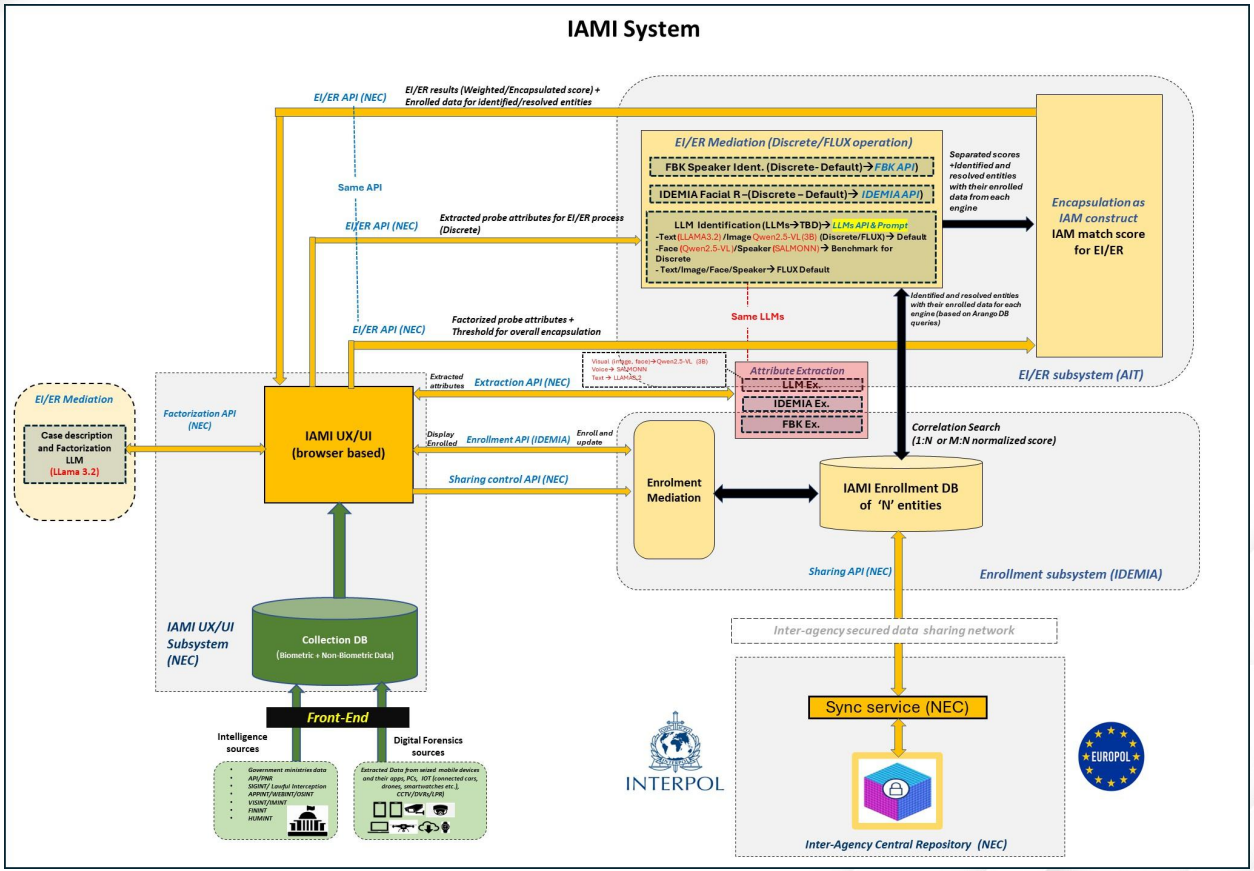
- Cutting-edge AI-powered EI/ER system enabling high-confidence, multi-entity identification and resolution.
- Fusion-based approach where combinations of weak, non-biometric attributes form strong identifiers.
- Multi-modal processing across text, audio, image, and video.
  Multi-source intelligence ingestion including Digital Forensics, CCTV, LPR, API and PNR data, SIGINT, LI, WEBINT and OSINT, and structured information systems.
- Significant use of LLMs alongside traditional AI, including benchmarking of multi-modal LLMs against classical AI methods.
- High-capacity processing in challenging, noisy, and dynamic operational environments.
- Reduced false positives, faster processing, and scalable enrollment databases to enhance operational efficiency.

Main Outcomes and System Capabilities (cont.)

- Two EI/ER operational modes:
  - ✔ **Discrete mode:** fully manual, human-controlled, high-capacity processing
  - ✔ **Flux mode:** semi-automatic, human-supervised processing for very large data volumes
- Controlled and verified high-capacity enrollment, always manual to ensure trust and data quality
- Enhanced detection of fake identities, synthetic personas, and bots
- Human-controlled and calibrated AI processes ensuring accountability and explainability
- Cross-border and cross-agency attribute sharing framework supporting EU-wide collaboration
- Full compliance with EU AI Act 2024/1689 and GDPR
- Validation via joint Europol and CENTRIC tools under CC4AI



IAMI integration architecture



Strategic impact on EU Security

- Strengthens counter-terrorism capabilities
- Improves public space protection
- Supports rapid response to emerging/ unfolding threats
- Enhances cross-border cooperation

System development status (IAMI V1.0)

- ✔ APIs
- ✔ Subsystems functionalities
- ✔ UX/UI (almost)
- ✔ Selection of M.M. LLMs
- ✔ Data for training AI/LLM models

- **Soon**: Establishing Development and Testing environment on-perm HW purchase and installation at **IGP, in Chisinau (pending GA amendment execution)**
- Security and remote access
- Start development and integration

Pilots and workshops

- **Pilot 1: EI and ER**
  - **Scenario-A:** Real-time identification and threat prevention in crowded public events (EI scenario)
  - **Scenario-B:** Using IAMI to detect company ban evasion (ER scenario)

- **Pilot 2: EI, ER and cross-border collaboration**
  - **Scenario A:** Mass transit security through collaborative IAMI data sharing (EI and data sharing scenario)
  - **Scenario B:** Identification and resolution of extremists' avatars/bots (EI and ER scenario)

- **Five workshops for EU LEAs** , Europol , Interpol and other stakeholders during the lifecycle of the project (M6, M13, M19, M26, M36)

Connect with IAMI

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LEA Discussion & Feedback

Keynote

Prof. Constantinos Patsakis,
Athena Research Center, SafeHorizon Coordinator

Intelligence and Situational Awareness Against Crime-as-a-Service

Introducing SafeHorizon

Project

Call ID	HORIZON-CL3-2023-FCT-01-05 RIA
Duration	1.9.2024-31.8.2027
Coordination	Athena Research Center

Scope

Crime-as-a-Service (CaaS) represents a worrying evolution in the cyber threat landscape, transforming criminal activities into organised and commercialised enterprises. Similar to legitimate Software-as-a-Service (SaaS) platforms, CaaS offers on-demand illicit services such as malware rentals and fraud platforms. This shift lowers barriers to entry for cybercriminals, enabling individuals without technical skills to engage in activities like identity theft and payment card fraud through digital means. The consequence is a significant amplification of criminal operations' scale and impact.

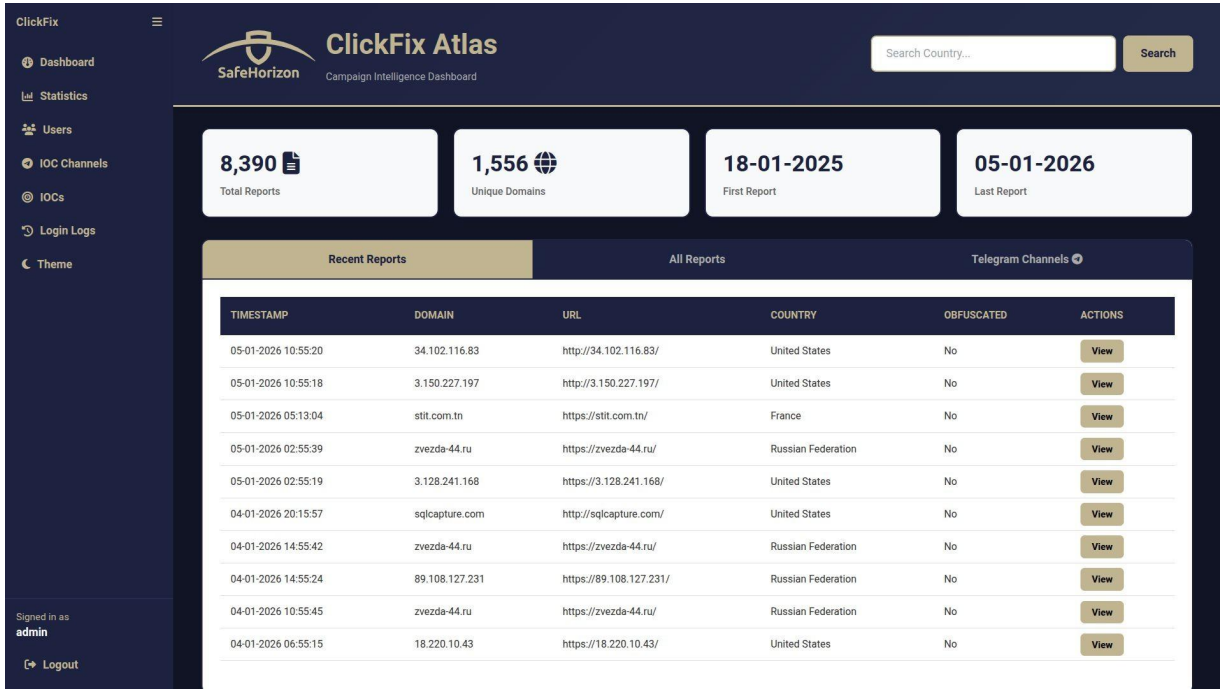
Use case scenarios

SafeHorizon tools and technologies will be tested and validated by LEAs through 4 use-case scenarios:

- Monitoring transnational crime networks,
- Criminal marketplace analysis
- Child sexual abuse and trafficking, and
- Malware-as-a-Service

Contact us if you want to participate in the T&V phase.

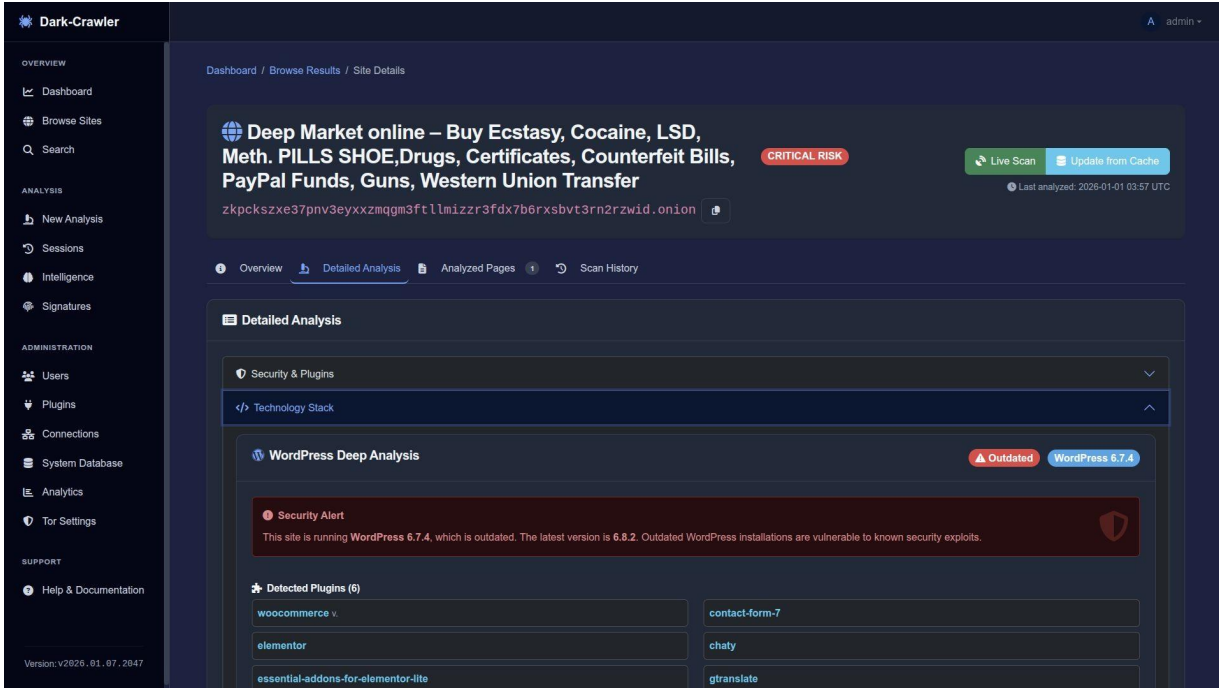
Tools/Training



Stay tuned.
More to come!

Designed to be integrated in AI pipelines

Tools/Training



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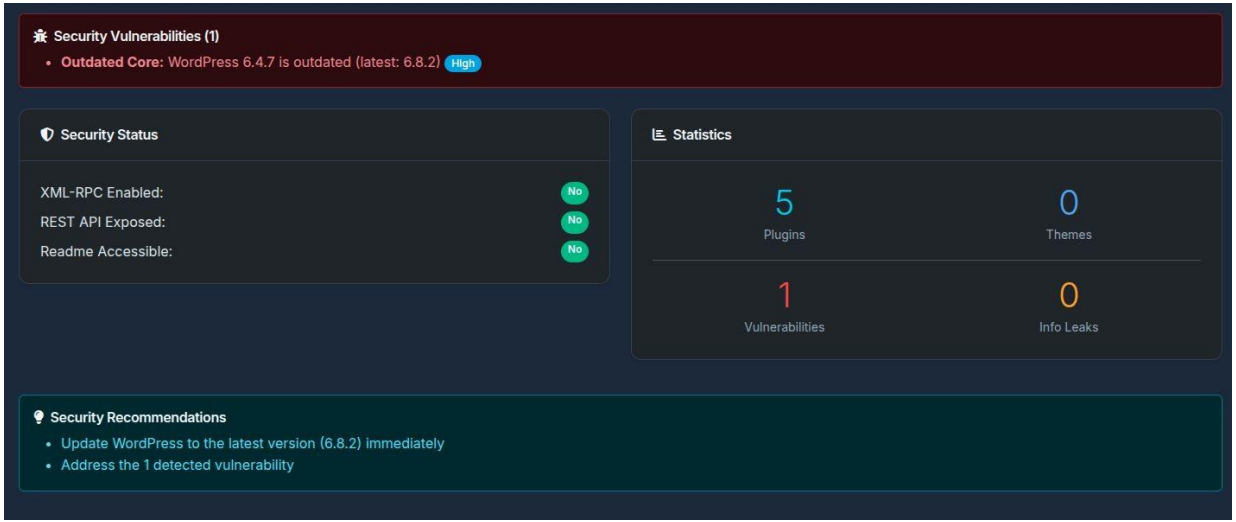

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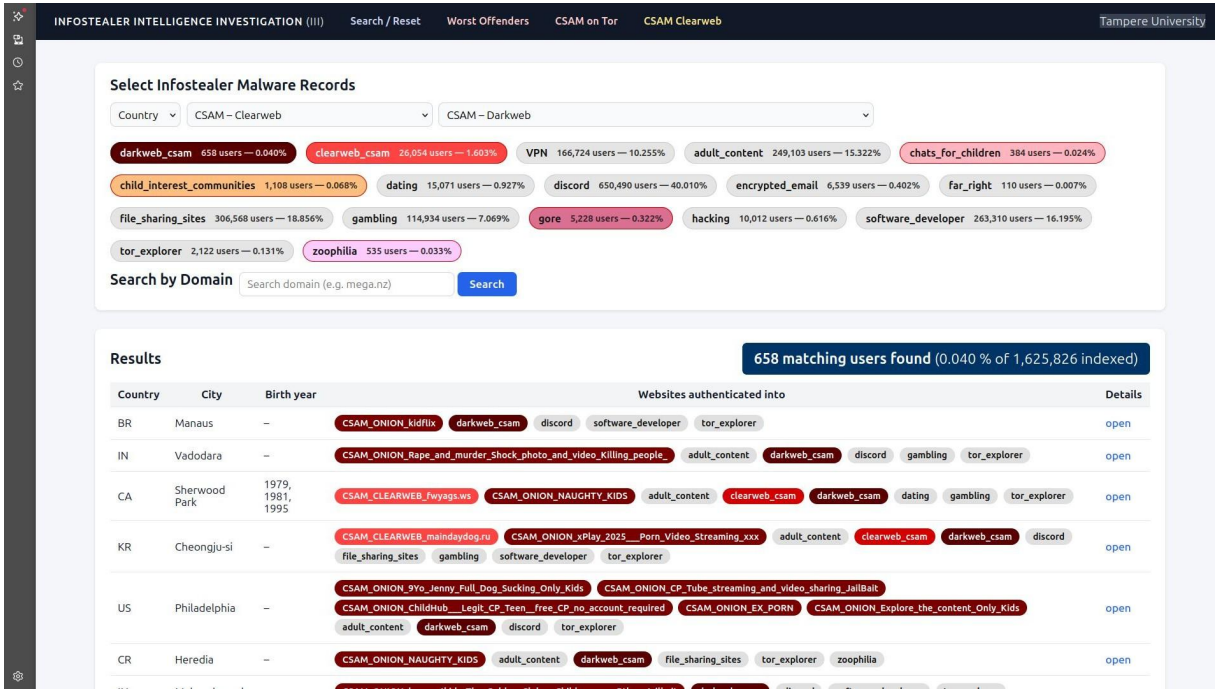

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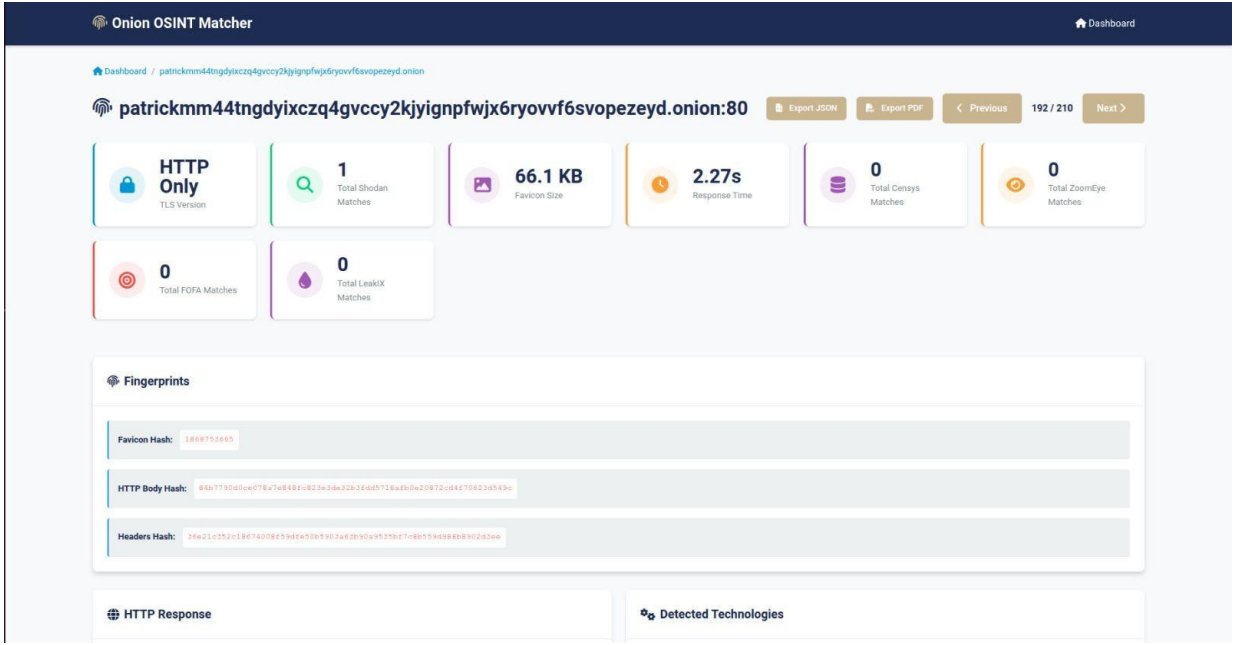

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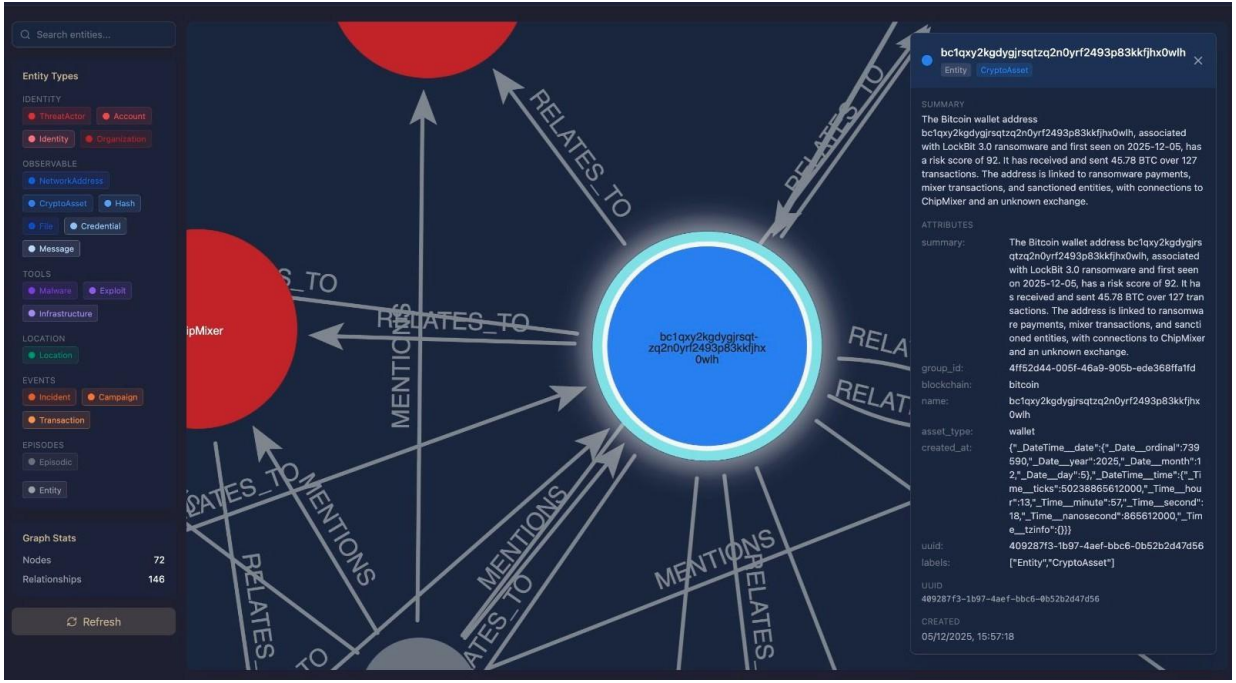

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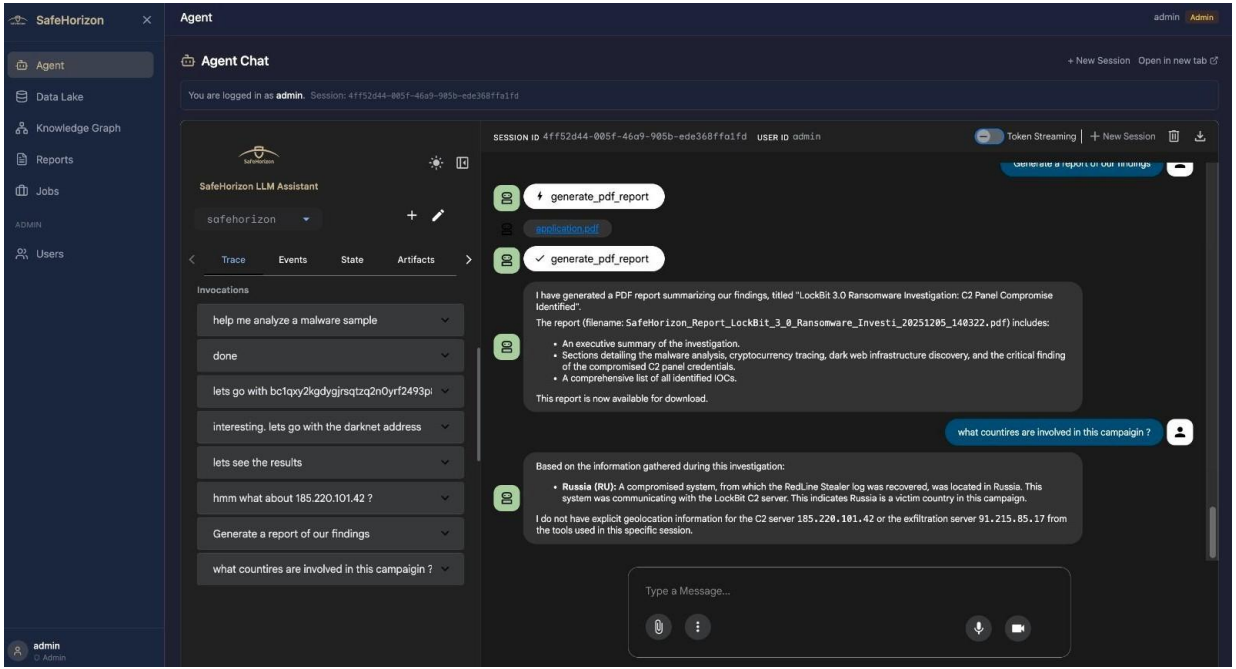

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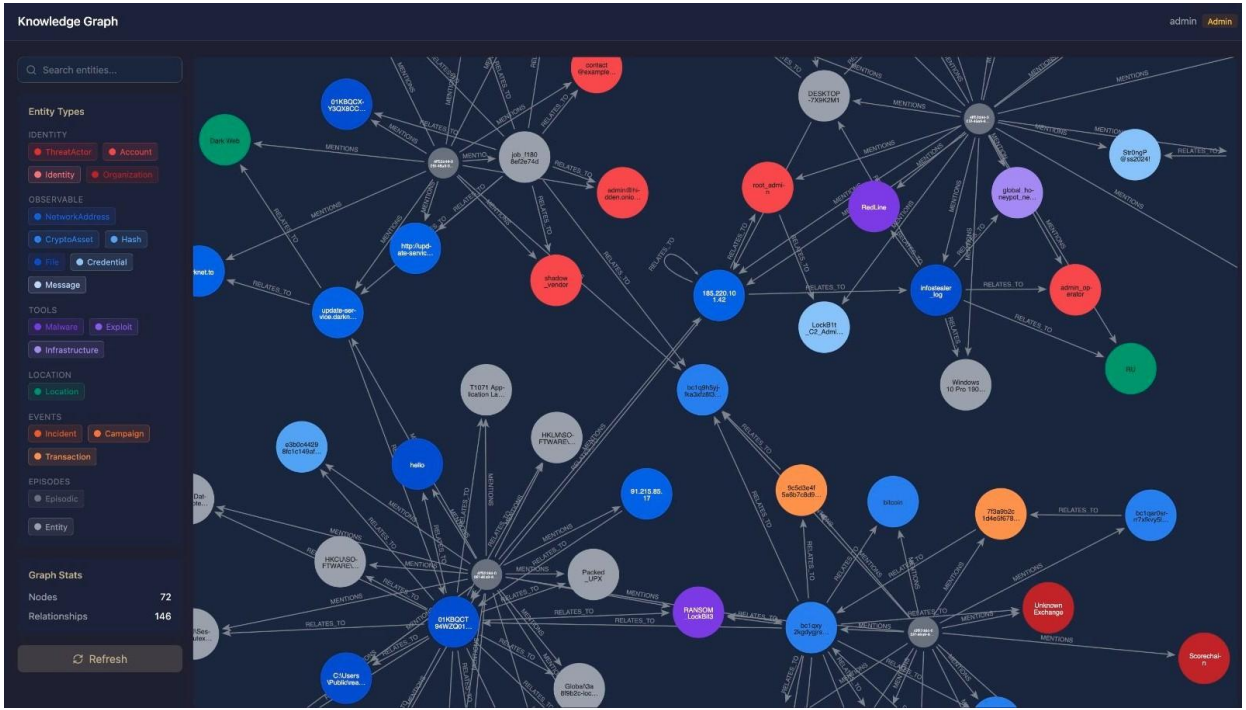

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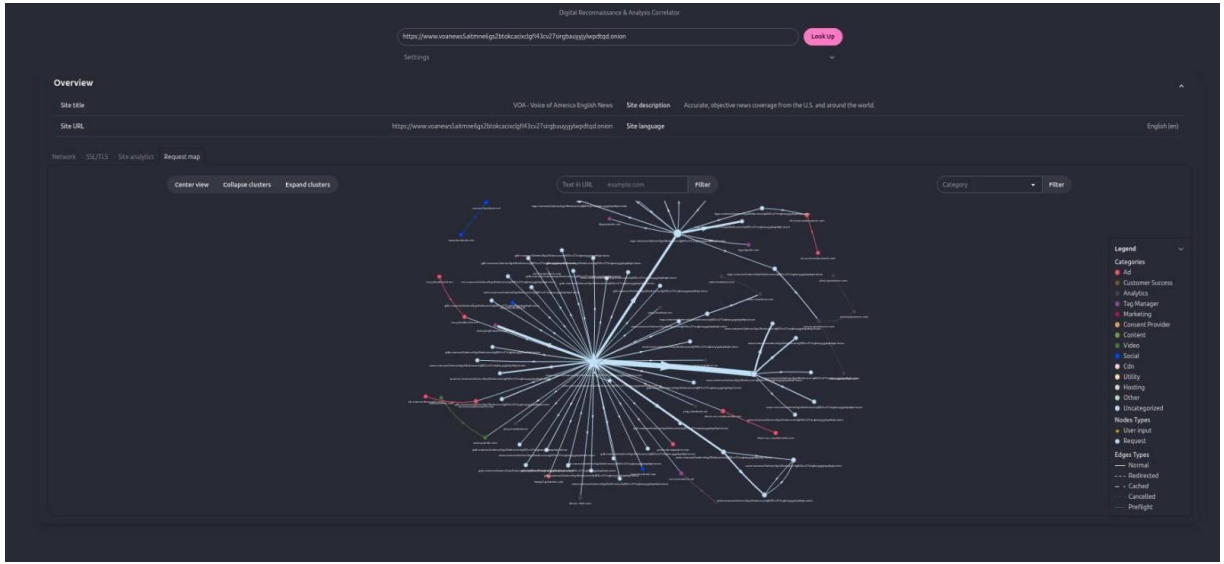

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More to come!

Designed to be integrated in AI pipelines

Thanks for your attention

LEA Discussion & Feedback

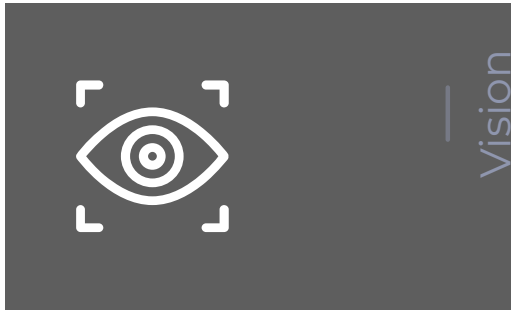
Kristina Isakzay
Project Manager and Legal & Ethics Expert, LEA Projects Cluster Coordinator

LEA Projects Cluster Strategic Mission and Vision

Q4 2025 - Q2 2027

Strategic Vision Q4 2025 – Q2 2027

Connecting Projects, Shaping Policy



Evolving into a Recognised Cooperation Hub

Working Groups **Framework**

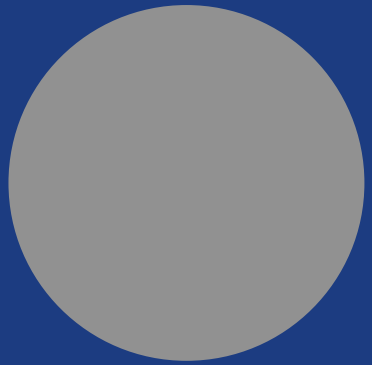
1 **WG1 - Cyber and Digital Crime**

2 **WG2 - Criminal Networks & Financial Crime**

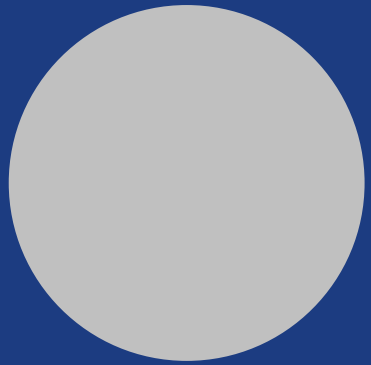
3 **WG3 - Human Security & Environmental Crime**

There's still time to join the Cluster Working Groups. Follow the registration link in the chat to express your interest.

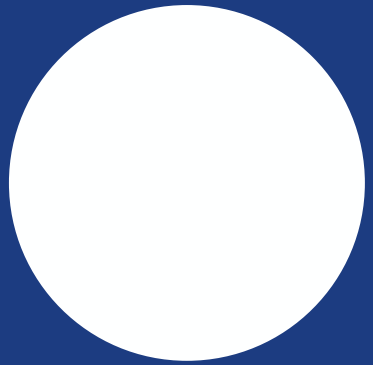
Beyond **Q2 2027**



Unite



Advance



Transform

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