



AVALANCHE

AI-POWERED OSINT DETECTION, ANALYSIS AND SECURE INFORMATION EXCHANGE

ENHANCING LAW ENFORCEMENT OPERATIONS THROUGH AI-DRIVEN OSINT ANALYSIS

While technological solutions for investigations and global cooperation do exist, they are mostly fragmented and myopic, focusing on very narrow and isolated functions within their own boundaries without ensuring interoperability and international cooperation.

To address this, AVALANCHE will develop an innovative, high-tech solution empowering law enforcement agencies (LEAs) to combat the evolving threats of **hate speech, disinformation, and deepfakes**, leveraging advanced open source intelligence gathering, AI-driven analytics, and cross-border intelligence-sharing. AVALANCHE will enhance the ability of LEAs to detect, analyze, track, investigate and prevent **high-risk criminal networks** activity, focusing on malicious synthetic media use, coordinated influence campaigns and online incitement-bolstering resilience.



Investigation,
analysis and
response



Hate speech &
disinformation
detection



Secure
information
exchange



Broadening LEAs
capabilities

OBJECTIVES

Boost partner SMEs through the co-development of advanced AI-fuelled solutions which facilitate LEAs investigating high-risk criminal networks.

Fertilize the ecosystem of LEAs and related and stakeholders ensuring ubiquitous cooperation, quicker innovation uptake and actionable law enforcement response.

Support criminal investigations through harmonised cross-LEA information exchange and cooperation through the adoption of mature cross-disciplinary technologies.

TECH

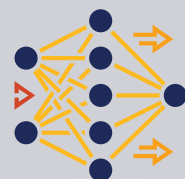
Comprehensive data collection through dark and surface web crawling

NLP- and AI-driven multimodal analysis, correlation and prediction

NLP- and BERT-driven sentiment analysis

Knowledge graph and NLP-driven behavioural analysis

Secure interconnections for cross-border information exchange



USE CASES

DETECTION, INVESTIGATION, ANALYSIS & RESPONSE

EVIDENCE-BASED SECURE INFORMATION EXCHANGE

AREAS



Hate speech



Disinformation



Deepfakes

PARTNERS



Netcompany



Website



LinkedIn

LEARN
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AVALANCHE has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement no. 101168393.



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PROJECT FACTSHEET

OCTOBER 2025

IMPLEMENTATION SNAPSHOT

Full title Countering Crime and Terrorism and their Links to Transnational Illegal Activities by Fostering International Cooperation
Call/topic ID HORIZON-CL3-2023-SSRI-01-02 (Accelerating uptake through open proposals for advanced SME innovation)
Grant Agreement 101168393
Coordinator Ubitech Ltd
Start date 1 Oct 2024
End date 30 Sep 2026
Consortium size and diversity 7 organisations from 6 countries (covering research, technology development and a LEA end-user)
Elapsed timeline Month 13 of 24
Deliverables 6 of 16 deliverables delivered
Workplan status 6 active WPs, 4 WPs concluded

UPCOMING MILESTONES

MVP & Interim Review (M14)
First release (M17)
Full release (M21)
Use Cases execution (Y2)



DEVELOPMENT HIGHLIGHTS

Core technologies under development and deployment

- OSINT data crawling
- NLI-driven disinformation detection
- Sentiment Analysis; Hate speech detection
- Network reconstruction; Origin detection
- Secure information exchange architecture

USE CASES PROGRESS

Use Case 1 - Detection, Investigation and Analysis

- Crawler ready
- Basic integrations for MVP functionality

Use Case 2 - Secure Information Exchange

- AVALANCHE domain model elaborated
- Investigating potential endpoints
- Secure exchange of reports, encrypted and hashed

DATA & ETHICS

Initial Data Management Plan delivered (M6)
FAIR and GDPR-compliant data governance in place

Legal, Risk and Ethical Compliance Framework (D1.3) delivered
and active across all WPs

SYNERGIES & FEEDBACK TO POLICY

Feedback to policy seminar attended (CERIS Projects-to-Policy)
Preliminary Operational Standards & Policy Recommendations under preparation (WP8)

Open Science pipeline preparation (Y2) of public repo for synergic MLOps/DevOps libraries

DCE HIGHLIGHTS & EARLY IMPACT

Branding & digital reach Project website (960 visitors), LinkedIn presence (100 followers), 1 introductory video, 2 newsletters

Events & visibility Y1 participation in 8 EU and sectoral events (CERIS, CEPOL, PRESERVE, NOTIONES, and more.) and organised 2 (EEITE, cluster webinar)

3 in-person **plenary meetings** organised (Athens, Dublin, Amsterdam)

Hackathon 1st AVALANCHE Hackathon successfully organised, innovative solutions received and prizes given away

Booster support: Services 2.1 dissemination support & 3.2 for portfolio analysis completed

4 publications / scientific conference papers produced



AI4SafeEurope **projects cluster established** and coordinated by AVALANCHE; 8 projects involved, including FERMI, NOTIONES, PRESERVE, ENSEMBLE, GANNDALF, CEASEFIRE, PRESERVE C-UAS. Monthly coordination for shared resources, joint content, co-organised events and more, to maximise outreach and impact

