AIMS & OBJECTIVES

CONNEXIONs aims to equip Law Enforcement Agencies (LEAs) with an interconnected suite of advanced next-generation technologies for significantly improving their capabilities to gather intelligence, analyse evidence, and investigate crime and terrorism effectively and efficiently.

The main CONNEXIONS results will be:

- Multimodal information extraction, understanding, integration, correlation, retrieval, and delivery services.
- Immersive environments for improving situational awareness, investigation and training capabilities.
- Operation Command Centre for real-time management of LEA operations.
- CONNEXIONs integrated platform based on ethics and privacy by-design principles, implementing EU legal requirements, whilst being highly customisable to local legislations.

BENEFITS

- Provision of better tools tailored to the needs of LEA officers to support them on their daily work.
- Prevention of more terrorist endeavours.
- Better identification and understanding of criminal and terrorist activities.
- Improved investigation and training capabilities.
- Rapid crime solving to reduce: societal distress, investigative costs, impact on victims / relatives.

CONSORTIUM



































CONTACT US



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Data Privacy Policy

https://www.connexions-project.eu/main/data-privacy-policy

Information for Data Subjects

https://www.connexions-project.eu/main/information-for-data-subjects





InterCONnected NEXt-Generation
Immersive IoT Platform of Crime and Terrorism
DetectiON, PredictiON, InvestigatiON, and
PreventiON Services

FIGHTING CRIME AND TERRORISM



This project has received funding from the European Union's H2020 research and innovation programme under grant agreement No 786731

CONNEXIONS CONCEPT

CONNEXIONS aims to develop and demonstrate a next-generation detection, prediction, prevention, and investigation platform by building upon the concepts of:

- Multidimensional integration and correlation of heterogeneous multimodal data, including (Surface/Deep/Dark) Web and social media multilingual and multimedia content, data acquired by Internet of Things (IoT) devices, police reports, and digital evidence obtained from seized devices and communication channels.
- Delivery of pertinent information to various stakeholders in an interactive manner tailored to their needs, including through immersive (augmented reality - AR and virtual reality - VR) environments.

CONNEXIONs aims to improve the capabilities of officers across the board by encompassing the entire lifecycle of law enforcement operations.

LEA OPERATIONS

Pre-occurrence Prediction and Prevention

- Intelligence gathering based on the discovery, collection, and analysis of online content.
- Threat assessment and early warnings provision.
- 3D site reconstruction for unit deployment planning.

During-occurrence LEA Operations

- Continuous Web and social media monitoring.
- Video footage processing for object detection, face identification, and abnormal activity detection.
- Multimodal analytics for threat assessment.
- AR-based (near) real-time alerts to field officers.
- Enhanced situational awareness and unit management in the Operation Command Centre.

Post-occurrence Investigation

- 3D crime scene reconstruction.
- VR-based scene exploration & investigative hypotheses simulation.
- Summarisation and reporting services.
- Analytics services to seized evidence and devices.

USE CASES

TERRORIST THREAT TO A PUBLIC EVENT

Large-scale public events, such as concerts, football matches, and festivals, always pose major challenges for LEAs in their effort to ensure public safety.



HUMAN TRAFFICKING

Trafficking in human beings is a highly lucrative form of organised crime that requires advanced next-generation technologies as it is often enabled by Web platforms, e.g., targeted recruitment forums and websites.



IMPROVED CRIME INVESTIGATION & TRAINING THROUGH 3D SCENE RECONSTRUCTION

Being able to return to the crime scene virtually would help investigators detect further evidence. Moreover, trainee officers could work in parallel on a case alongside a leading investigator to improve and develop their skills.



