



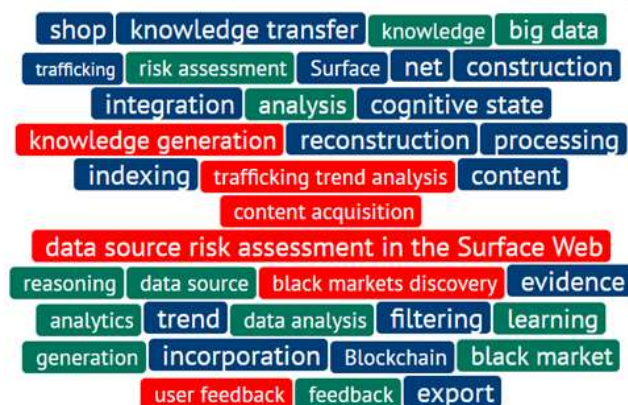
Newsletter n.1

Project overview

Dear reader,

Since the very beginning of the project, ANITA consortium has been intensively working towards the development of specific modules and an integrated platform that will facilitate Law Enforcement Agencies in combating illegal trafficking activities. Our Partners are working progressively towards the development of all modules of the platform and their integration in the real-life scenario of the Use Cases (UCs).

The following image represents the key concepts on which ANITA's ongoing activities are focusing



Use cases

Thanks to a participatory design process and the contribute of the LEAs of 6 Countries (Belgium, The Netherlands, UK, Poland, Serbia and Bulgaria), use cases and user

requirements have been identified, with the aim to develop tools to analyse illegal trafficking in:

Use Case 1 – Counterfeit/falsified medicine, drugs and NPS

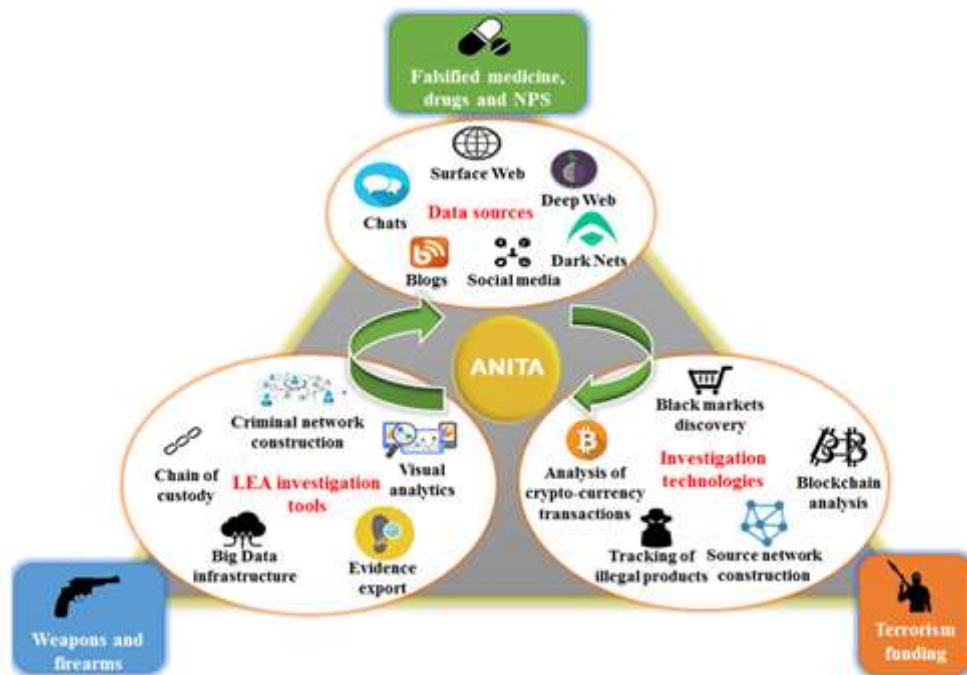
The market for medicine and drugs constitutes a remarkably large share of world trade, both those purporting to be for pharmaceutical purposes or as narcotics. There is also a huge trade in medicine-related substances. This, coupled with the growth of Internet services, provide a profusion of opportunities for anonymous and quick online illegal transactions. ANITA will provide tools for automated detection of markets, through different means including the block-chain analysis through the Public Web, Deep Web and Dark Nets. ANITA will also be able to automatically detect, monitor and analyse heterogeneous multimedia large-scale data from online retrieved sources, but also increase its accuracy by learning from experienced investigators.

Use Case 2 – Weapons trafficking

ANITA perform multi-modal (audio, video, text) analysis, in order to find weapon online markets of Dark Web sites. The investigation tools will have to automatically detect potentially useful information, such as objects (weapons, firearms), concepts and events (e.g. showing how to use a weapon etc.). Additionally, the management of huge amounts of textual information is critical and a combination of knowledge modelling and image processing functionalities should be applied, in order to georeference an event.

Use Case 3 – Trafficking related to terrorism funding

Terrorist organisations require large amounts of funds, in order to support themselves and their illegal activities. There are many ways in which terrorist organisations can obtain funding some of the most common are: Terrorist-related financial networks, Fake charities and Fund-raising campaigns. ANITA objectives are focused on searching of the Web those channels, in order to find relations among suspects and to define a hierarchy or links among them.



User requirements

Each Use Case is focused on different illegal activities, but some common requirements have been elicited from the workshops done with end users, associated in 5 common macro phases, according to the tools that they will benefit from.

Data sources and stream analysis

Specific crawlers for Surface and Deep web and Dark Nets will be included in ANITA, together with a set of indicators for assessing risk associated with data sources, focused on the discovery and monitoring of black markets and on the identification of specific products, volumes or behaviours, as well as online fora, blogs and social media sources. Blockchain analysis techniques are included as well for the detection, tracking and monitoring of monetary transactions.

Big Data analysis and analytics

ANITA will incorporate advanced Big Data oriented services for the analysis of textual and multimedia contents (multilingual translation and speech to text, text analysis, concept and object detections from images and videos, visual indexing, illegal trafficking trend analysis), in order to automatically detect relevant insights for the current investigations.

Knowledge generation and reasoning

A set of ontologies will be included to model all crime aspects including events, suspicious and illegal activities, people, organisations, places, black markets, products and their relationships. On top of such ontologies, inference and reasoning tools will be delivered, able to correlate the information generated by the other services, in order to provide a narrative storyline of the criminal activities and novel hypotheses from the observed data.

Integration of human factor in the analysis loop

ANITA will collect interaction data with the user to iteratively refine the system's Big Data analytics services and to provide a recommender system that will learn from expert users and transfer those techniques to novice users.

Novel applications for LEAs and System Integration

ANITA will incorporate applications equipped with user-friendly and interactive widgets able to fulfil LEAs' requirements and boosting investigative operations allowing officers to verify and validate Big Data analysis results, report events, browse and analyse trafficking activities and potential links among them, and export produced knowledge with the entire chain of custody and evidence for prosecution purposes or sharing with other law enforcement agencies.

ANITA in past Events

Conference	Pure Neural® Machine Translation powering businesses	Paris	ANITA project to the SYSTRAN Community Days, allowing to talk about ANITA Objectives and actions
Conference	Chipcard community forum - Regional conference	Belgrade	Project overview fo ANITA (Advanced tools for fighting oNline Illegal TrAfficking)
Workshop	DANTE Workshop	Lisbon	Project overview fo ANITA (Advanced tools for fighting oNline Illegal TrAfficking) – in DANTE H2020 project (one of the Sister Projects)

Workshop	13th Meeting of the Community of Users on Secure, Safe, Resilient Societies	Brussels	Brainstorming on available tools and potential improvements achievable through Artificial Intelligence
Workshop	ILEANET Workshop	Riga	Project overview fo ANITA (Advanced tools for fighting oNline Illegal TrAfficking)
Workshop	Final DANTE workshop	Rome	Project overview fo ANITA (Advanced tools for fighting oNline Illegal TrAfficking) and video presentation
Workshop	ISS World EUROPE	Prague CZ	ISS World Europe is the world's largest gathering of Regional Law Enforcement, Intelligence and Homeland Security Analysts, Telecoms as well as Financial Crime Investigators responsible for Cyber Crime Investigation, Electronic Surveillance and Intelligence Gathering.
Conference	CyCon 2019 11th International Conference on Cyber Conflict	Tallin - Estonia	: The Silent Battle- Uncover Dark Web identities using AI & Stylometry. Speech on Stylometry adopted in ANITA

Planned Opportunities

Conference	World Summit on Counter-Terrorism: ICT's 19th International Conference	September 9-12, 2019	Interdisciplinary Center (IDC) Herzliya, Israel	https://www.eventer.co.il/ict19?fbclid=IwAR1bj4A9Vb7-X1DQsGpA_S28tQserPFhBIS_4ANFy6BhywJuhXOB28XRHBs
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Conference	THE CAMBRIDGE INTERNATIONAL SYMPOSIUM ON ECONOMIC CRIME, Fighting Economic Crime	September 1 - 8, 2019	Cambridge UK	https://www.crimesymposium.org/
Conference	EUCPN Conference 2019: Illegal Wildlife Trade and the Funding of International Terrorism	November 21 2019	The Hague, Netherlands NL	https://eucpn.org/events/conference-2019-illegal-wildlife-trade-and-funding-international-terrorism
Conference	Mediterranean Security Event 2019 in Greece,	October 29-31, 2019	Fodele Beach & Water Park Resort, Heracleion Crete (Gr)	https://www.fodelebeach.gr/

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