



Objectives

SINTESYS (Security **INTE**lligence **SYS**stem) aims to support Intelligence operators during the identification of risk factors and threats for Homeland Security by means of Analysis Innovative Services conducted in Collaborative and intelligence sharing environments.

The main result of the project is a **Collaborative Security Intelligence Platform** at the service of **Homeland Security** able to provide the research, the information-sharing and the cooperation among investigators providing a substantial contribution in terms of Decision Support System.

The platform integrates advanced tools supporting the **Intelligence Cycle Management** and it is able to analyse data coming from heterogeneous and open sources enabling semi-automatic Intelligence processes in a **OSINT** (Open Source INTElligence) model, in order to discover the presence of links, relationships, connections with the disjointed evaluation of individual sources would not be able to highlight.

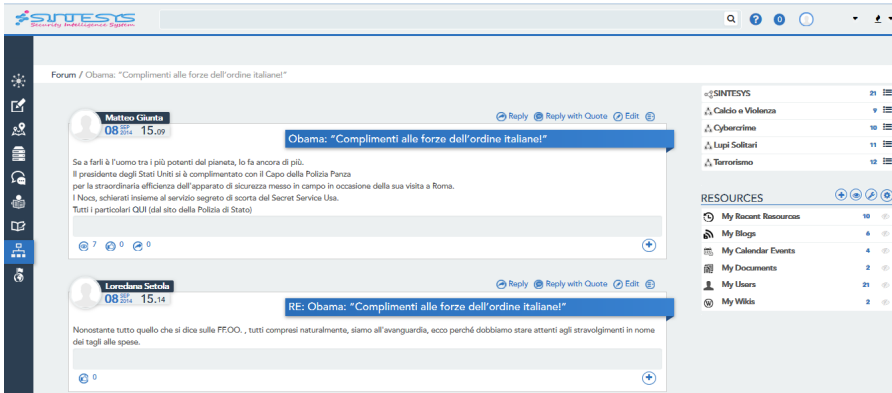
The platform is also endowed with a **Collaborative Working Environment** (CWE) supporting the collaboration among the investigators in order to activate and promote Collective Intelligence Processes based on the sharing of knowledge, competence and experience available within the investigative group.

SINTESYS uses and combines techniques, technologies and innovative models for text mining, sound analysis, image and movie recognition, social network analysis, human computer interaction, cognitive psychology, along with models and techniques for information fusion and artificial intelligence.

SINTESYS implements SNA models and techniques based on quantum mechanics to analyse the social dynamics within groups and communities, in order to provide the genesis and the flow of hidden information which may be of importance for security issues.

The screenshot displays the SINTESYS Data Mining interface. At the top, the SINTESYS logo and "Data Mining" title are visible. A sidebar on the left contains navigation icons for Data Mining, Resource Monitor, Semantic Search, Wiki, Tasks, Microblogs, and Blogs. The main area features a world map with several yellow circular markers indicating event clusters, each labeled with a number (11, 22, 28, 20, 12). A "Hierarchical" dropdown menu is positioned above the map. On the right side, there are panels for "People" (listing categories like SINTESYS, Calcio e violenza, Cybercrime, Lupi Solitari, and Terrorismo) and "Activities" (showing a recent post by Gianpaolo). The bottom of the interface includes a blue bar with the text "Event Clustering" and "Settings Online Friends (1)".

Results



Data Mining Framework
Integration, management and orchestration of services and data mining techniques.

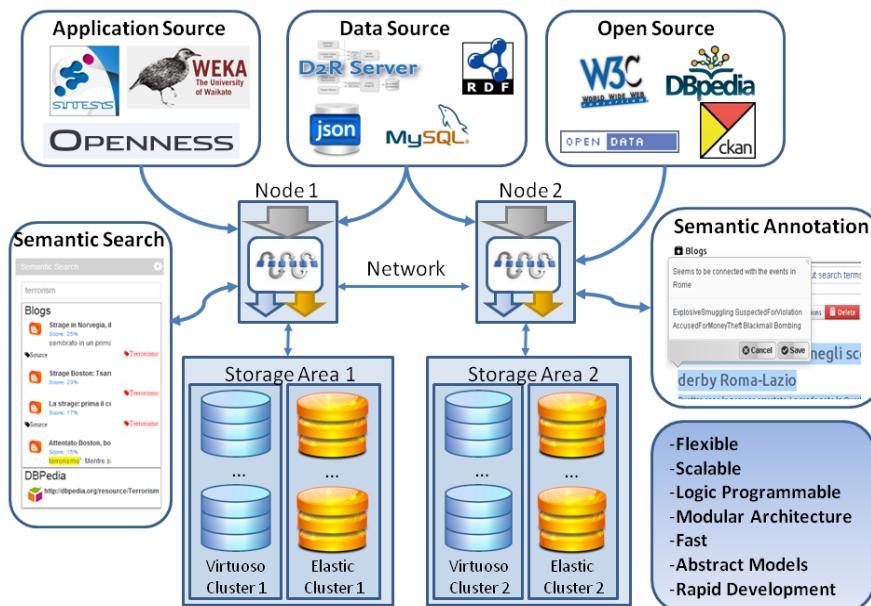
OPENNESS.sec

OPENNESS for Security Intelligence (**OPENNESS.sec**) is a Collaborative Security Intelligence Platform equipped by frameworks for discovering information sources and for extracting and analyzing relevant data about crimes, evidence, relationship among suspects, criminal organizations, terrorist, weapons, suspicious behaviour, etc.

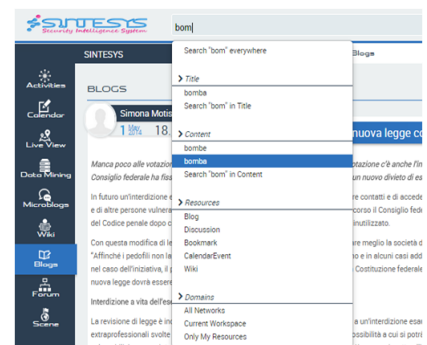
The information Management is guarantee by a Semantic-based Information Management Framework which provides advanced services of information search & retrieval and semantic organization.



Data Mining Framework



Semantic Universal Search

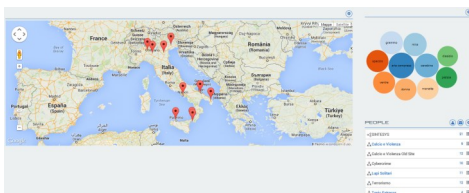


Semantic Reasoning

Semantic-based Information Management Framework

Event Management Framework

Sintesys Platform allows the identification of homeland security events by means of data analysis techniques applied on open data sources.



Event detail

Source Integration Framework

A Framework for relevant sources management for Homeland Security domain.

The framework is equipped with REST API for searching information sources, configuring crawling processes, scheduling resources extraction services.

Source Integration Framework

Partners



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