

# COGITO® Intelligence Platform

While their goals may differ, intelligence analysts around the world face the same challenges: How to examine large volumes of ever-changing data and find the most useful information in time?

The Cogito Intelligence Platform is the Expert System suite that applies semantic analysis to support analysts and knowledge workers in all phases of the intelligence cycle, enabling the discovery of information patterns and connections with a variety of visualization options.

By combining superior text analytics and domain ontology capabilities with the ability to search and manage large quantities of data from documents, multimedia, audio streams, web pages and social networks, the Cogito Intelligence Platform incorporates the best software components for speech analysis, GEO mapping, deductive algorithms and advanced visualization systems with a proven approach for intelligence data management solutions you can depend on.

The Cogito Intelligence Platform is trusted by clients world wide to provide unparalleled intelligence data management solutions that can be quickly modified and are customizable to meet your intelligence needs.



*The Cogito Intelligence Platform is not only an analysis engine, but a powerful mix of tools that can be combined to give analysts the best technology to analyze information. The results can also be displayed as a geographical map, which can be used to interact with the data.*

## Benefits:

- Efficiently supports the processes of Exploitation and Evaluation of large quantities of data;
- Instruments offer flexibility for customization to meet the needs of Intelligence Analysts;
- Easy integration with other, specialized software modules, designed by third parties;
- Able to acquire data from the most popular data and multimedia sources (RSS, XML, search engines, etc.) and from the main types of databases;
- A suite of products designed by Intelligence specialists for Intelligence data analysis.

COGITO®

## Key Features

The Cogito Intelligence Platform combines a powerful analysis engine with a rich mix of analytical tools that give a strategic advantage to your intelligence efforts. It includes:

- Semantic analysis modules for the automatic classification of multilingual text content;
- Powerful analytical engine that automatically detects alerts and warnings;
- Visualization tool for results, including a 'customized ranking' feature;
- Instruments for interactive analysis and data correlation;
- Entities and relations are automatically organized into a database;
- Instruments to customize the semantic knowledge component and to define the rules for text mining and classification;
- Data acquisition from the main databases and the creation of case method analyses with deductive algorithms and neural networks.

The screenshot displays the COGITO Intelligence Platform interface. On the left, there are two category lists: 'IPTC categories [8]' and 'Countries categories [17]'. The main area shows a network graph with nodes representing entities like 'Clinton', 'Obama', 'Mossad', 'Pentagon', 'KGB', 'Stanley McChrystal', 'Hamid Karzai', 'Pavel Podvig', 'Frank Shuler', and 'Dieter Gerhardt'. A search bar at the top contains the text 'bomb Nuclear Weapons China Pentagon'. Below the graph, there are filters for 'Results list', 'SAO', 'Geolocation', 'E-R Visual', and 'Treemap'. A 'Highlights' section at the bottom shows 'no matches'.

As part of the text analysis process, Cogito can also automatically extract entities, events and other relevant concepts and automatically generate an interactive graphic for visualizing and filtering results.

The screenshot shows an Arabic news article from Al Jazeera. The title is 'تركيا تفتي تلقيا تحذيرا أميركيا'. The article features a photo of two men sitting on a sofa. A classification overlay is present, listing categories and their counts: Politics [21%], International Relations [29%], Heads of State [19%], Economic Sanction [14%], and International Organisation [13%]. Below the photo, there is a caption in Arabic: 'أوغزو نفى أن يكون أولينا وبين حذر أردوغان (يسار) من صالة عرض بلاده في الحصول على أسلحة وإتسبة إنديس'.

An example of automatic classification (see the categories highlighted inside the picture) based on a text taken from the Al Jazeera web site.

## EXPERT SYSTEM

Expert System is the leading provider of semantic software that discovers, classifies and interprets text information. All Expert System products, which are based on the patent pending technology COGITO®, leverage the company's expertise in the development of business solutions for the primary markets (i.e. Automotive, Consumer Electronics, Oil & Gas, Media, Mobile, etc.) and support the activities of Knowledge Management, Customer Care and Intelligence. Worldwide customers include Eni Group, Pirelli, ANSA, Telecom Italia, Microsoft, BNP Paribas, the Italian Ministry of Defense and the Ministry of Interior Affairs.

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