

EXPERT SYSTEM

OSINT made easy:

A Live Demo on How to Tackle

Unstructured Data

Gian Piero Oggero

*Director Strategic Accounts,
Intelligence Division*

National Police Academy Prague 27-11-12



A FLOOD OF UNSTRUCTURED DATA & INFORMATION

More than 80% of the knowledge on which our daily jobs are based is unstructured (emails, documents, web pages, articles, information from social media, etc.).



Sources: Radicati Group, ITU.

- Over 294 Billion emails sent daily;
- Over 6.1 Trillion text messages sent in 2010;
- And what about phone, calls, faxes, chat sessions, etc.?

EVERY 60 SECONDS ON THE INTERNET



SCENARIOS OF INTEREST

Every organization must constantly monitor events, signals and situations that influence decision making.

Brand and
Reputation
Management

Sabotage

International
Trade

Supply Chain
Risks

Competitors

Foreign Exchange
Market

High Risk Countries

Cyber Attacks

Espionage

Terrorist
Attacks

Political
Climates

Environmental
Disasters

Weather
Patterns and
Climate Change

Extortion
Risks

THE LIMITS OF TRADITIONAL APPROACHES

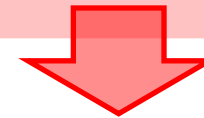
Keyword Technology or Statistics



Breaks text into single words without considering the context, like reading a language that we don't understand:

Az IBM szokásosan nagy hangsúlyt helyez a továbbképzésre, így munkatársai évente számos szakmai tanfolyamon vesznek részt.

Shallow Linguistic Technology



Recognizes words and identifies their most basic forms (lemmas), but cannot distinguish between different meanings.

Sell -> Selling -> Sold

Neither understands the *meaning* of words.

No understanding of the real content within documents; for example, this sentence:

A new advanced search capability called Utopia will enable Web users to access information on the Internet in a whole new way -- providing them with the most credible search results possible through any existing technology

and this sentence:

Internet users A the new credible results enable capability Web to information through technology called on advanced will in a new access way -- providing them with Utopia most search the search possible existing any whole

are the same!

SHALLOW LINGUISTIC TECHNOLOGY



No understanding of the relation between elements and of the meaning; for example, this text:

The Dow **fell** 46.58, or 0.42 percent, to 11,002.14. The Standard & Poor's 500 index fell 1.44, or 0.11 percent, to 1,263.85, and the Nasdaq composite **gained** 6.84, or 0.32 percent, to 2,162.78.

and this text:

The Dow **gained** 46.58, or 0.42 percent, to 11,002.14. The Standard & Poor's 500 index fell 1.44, or 0.11 percent, to 1,263.85, and the Nasdaq composite **fell** 6.84, or 0.32 percent, to 2,162.78.

are the same!

WHY WE ARE DIFFERENT

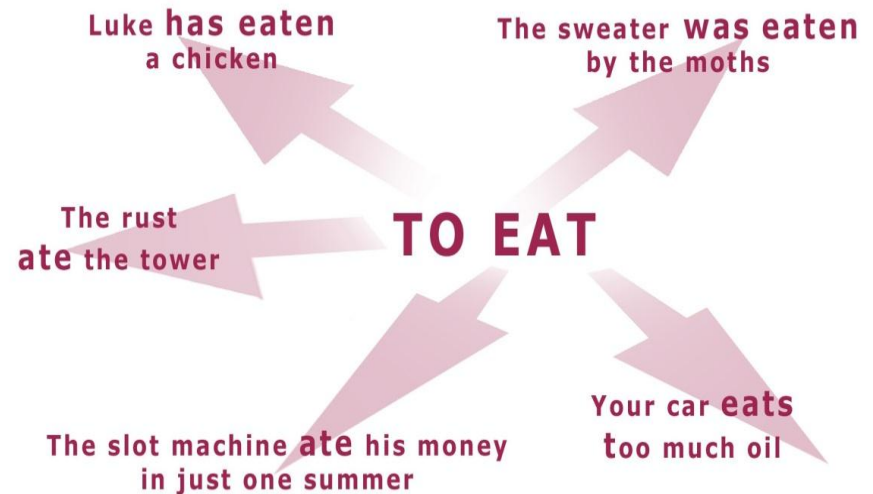
Semantic technology **understands the meaning** of words in the same way you learned to read.

- It **understands the relationships** between words.

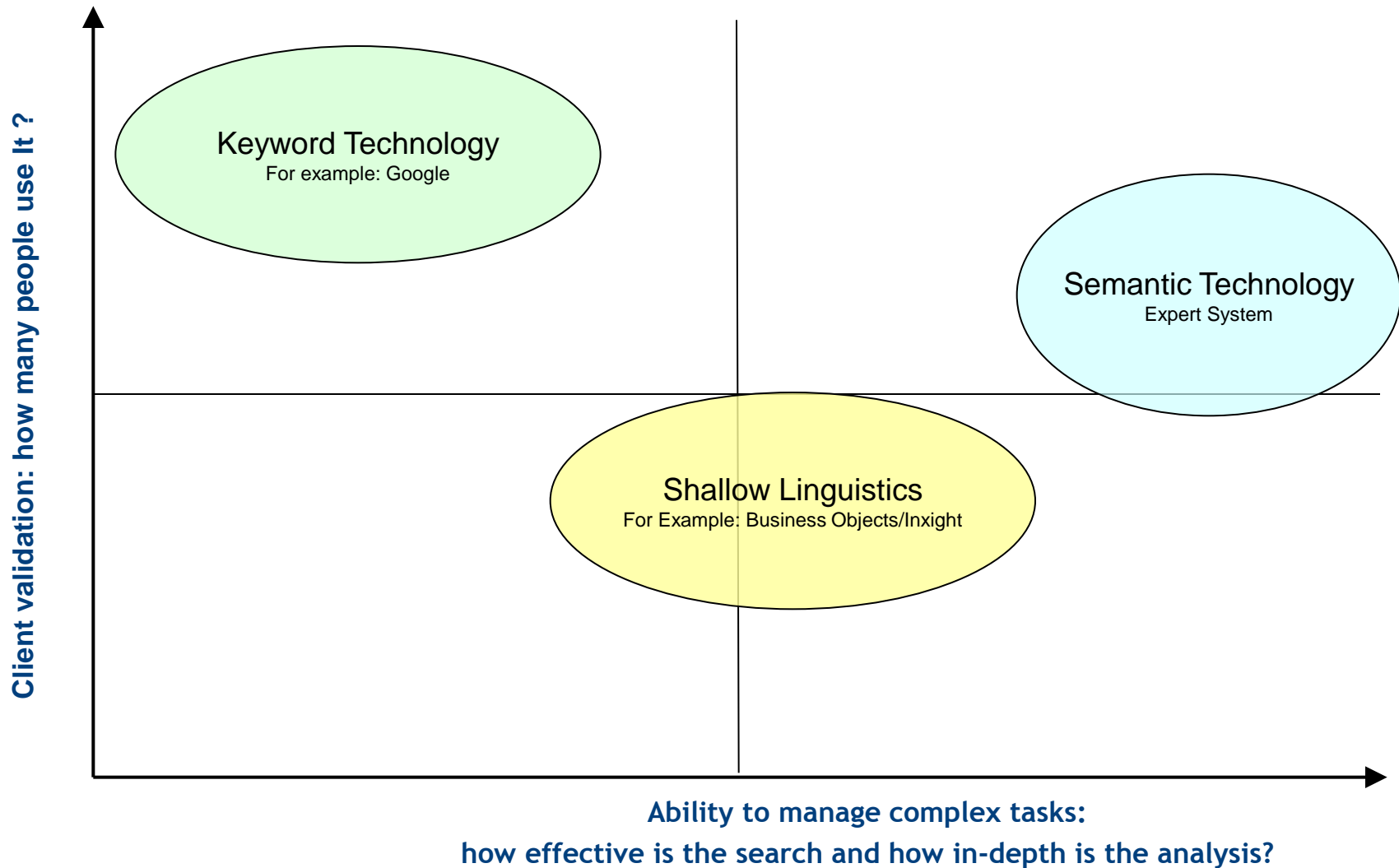
Luke (subject) has eaten (verb) a chicken (object).

- It **understands the meaning** of words.

To eat (chicken); to consume (oil); to destroy (sweater); to spend (money); to rust (the tower), etc.



Three technologies compared



The original text:

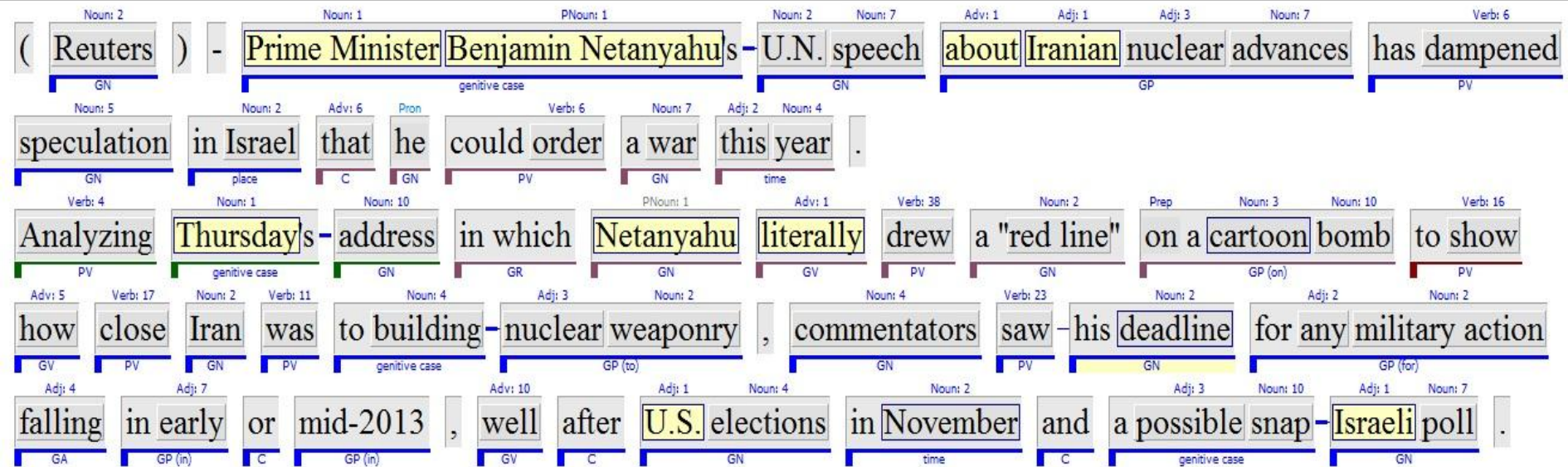
(Reuters) - Prime Minister Benjamin Netanyahu's U.N. speech about Iranian nuclear advances has dampened speculation in Israel that he could order a war this year.

Analyzing Thursday's address in which Netanyahu literally drew a "red line" on a cartoon bomb to show how close Iran was to building nuclear weaponry, commentators saw his deadline for any military action falling in early 2013, well after U.S. elections in November and a possible snap Israeli poll.

DISAMBIGUATION: GRAMMAR ANALYSIS

[Reuters] - Prime Minister Benjamin Netanyahu's U.N. speech about Iranian nuclear advances has dampened speculation in Israel that he could order a war this year.

Analyzing Thursday's address in which Netanyahu literally drew a "red line" on a cartoon bomb to show how close Iran was to building nuclear weaponry, commentators saw his deadline for any military action falling in early or mid-2013, well after U.S. elections in November and a possible snap Israeli poll.

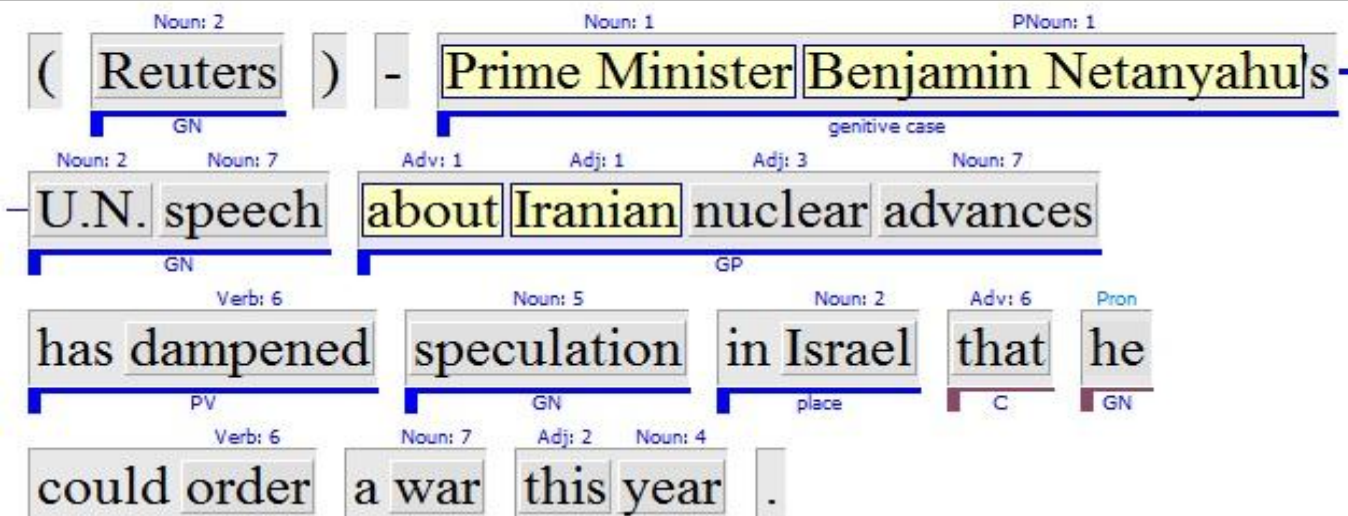


DISAMBIGUATION: LOGICAL ANALYSIS

[Reuters] - Prime Minister Benjamin Netanyahu's U.N. speech about Iranian nuclear advances has dampened speculation in Israel that he could order a war this year.

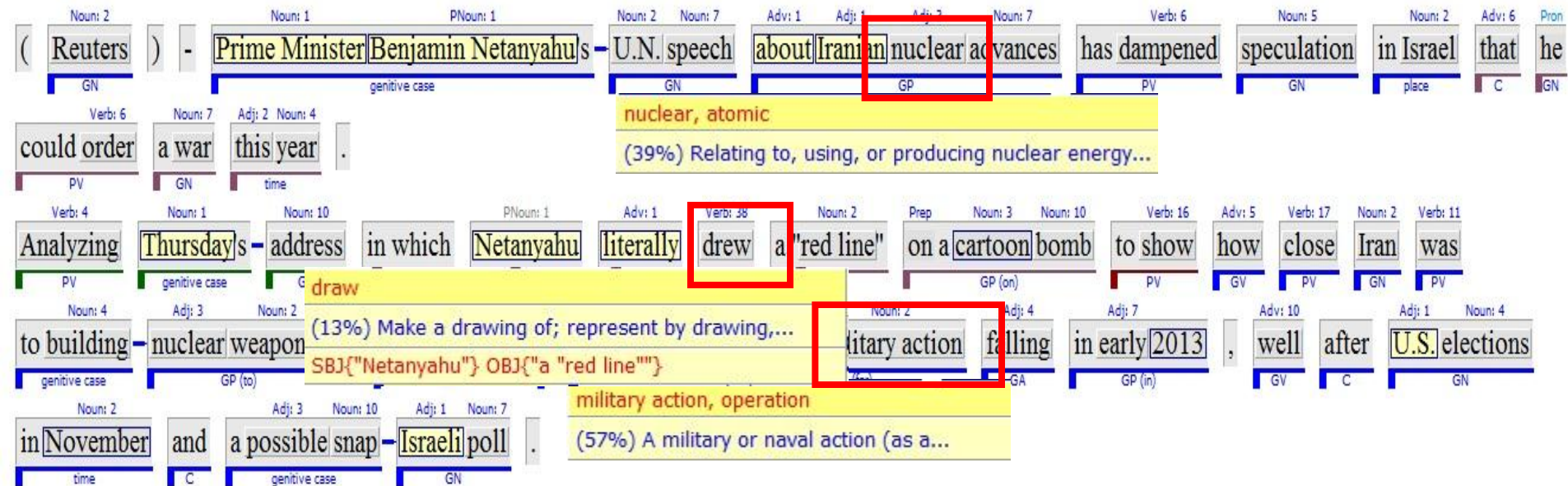
Analyzing Thursday's address in which Netanyahu literally drew a "red line" on a cartoon bomb to show how close Iran was to building nuclear weaponry, commentators saw his deadline for any military action falling in early or mid-2013, well after U.S. elections in November and a possible snap Israeli poll.

- **military 2.0% (2)**
 - nuclear #84660#
 - war #3951#
 - nuclear #84660#
 - military action #3882#
- + politics 1.1% (2)
- + institutes 0.2% (1)
- + diplomacy 0.2% (1)
- + rhetoric 0.1% (1)



- dampen
 - SBJ:"U.N. speech"
 - OBJ:"speculation"
 - C.PLACE:"in Israel"
- order
 - SBJ:"he"
 - OBJ:"a war"
 - C.TIME:"this year"
- analyze
 - OBJ:"address"
- draw

DISAMBIGUATION: SEMANTIC ANALYSIS



THE COGITO SEMANTIC NETWORK

Lemma available meanings [lemmaID:177723 - pos:82 - tkn:13 - key:8 - grp:6 - prp: 0 | NOUN IP]

5	7	Sort	supernomen/subnomen	14
transmutation, shift, transformation No domain A qualitative change; a complete change, usually...	[1] betterment, improvement, advance, amelioration Score: 175307 No domain A change for the better; progress in...			reclamation, reformation No domain A reformed state, especially a general improvement...
modification, change, alteration, "modif.", "alt." No domain An event that occurs when something passes...	[3] advance, career, progress, advancement, progression, forward motion, onward motion Score: 111802 No domain The act of moving forward toward a...			refinement, elaboration No domain The result of improving something; "he described...
change generic No domain Change generic	[3] progression, advance, progress Score: 125777 No domain A movement forward; "he listened for the...			conservation, preservation No domain An occurrence of
cat. cambiamenti No domain Changes	[8] overture, feeler, advance, approach Score: 113314 #32478 WNET[#33843]			
concepts, cat. concetti No domain Abstract or general ideas inferred or derived...	Connotazione: positiva; cat. concetti			

Score: 175307
Good Hits (45): Freq, Corpus, Adj
Bad Hits (0):

Prime Minister
this year
address
clear weaponry
a possible snail

speculation
close
well
after

WHAT IS A SEMANTIC NETWORK?

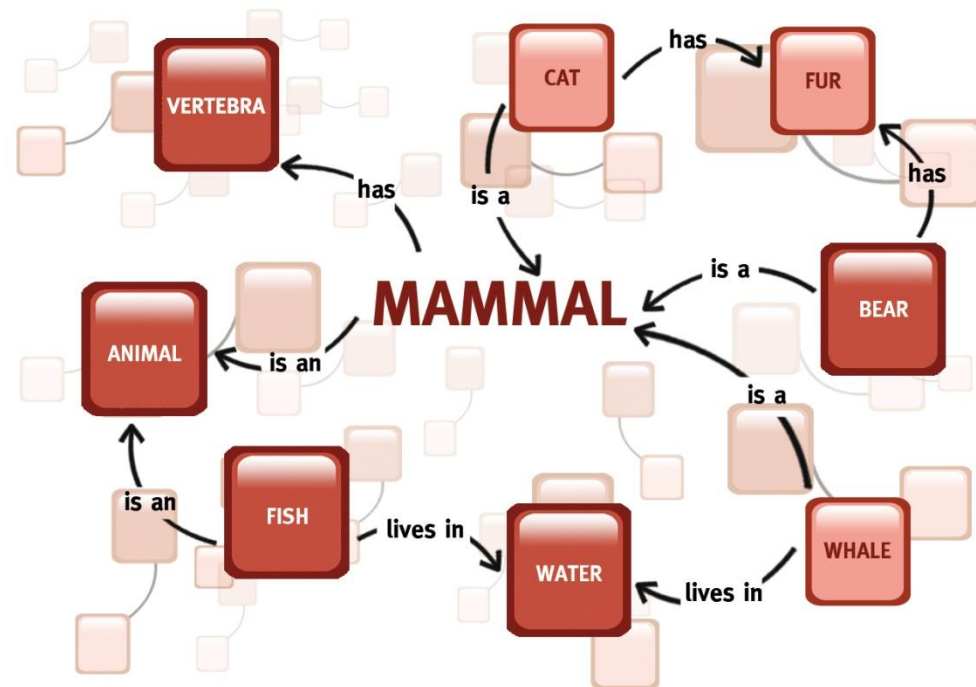
A rich map of associations and meanings of words.

- Includes **all definitions of all words.**
- Includes **relationships between all words.**

The quality of results is derived from the richness and complexity of the semantic network.

COGITO® English
Semantic Network:

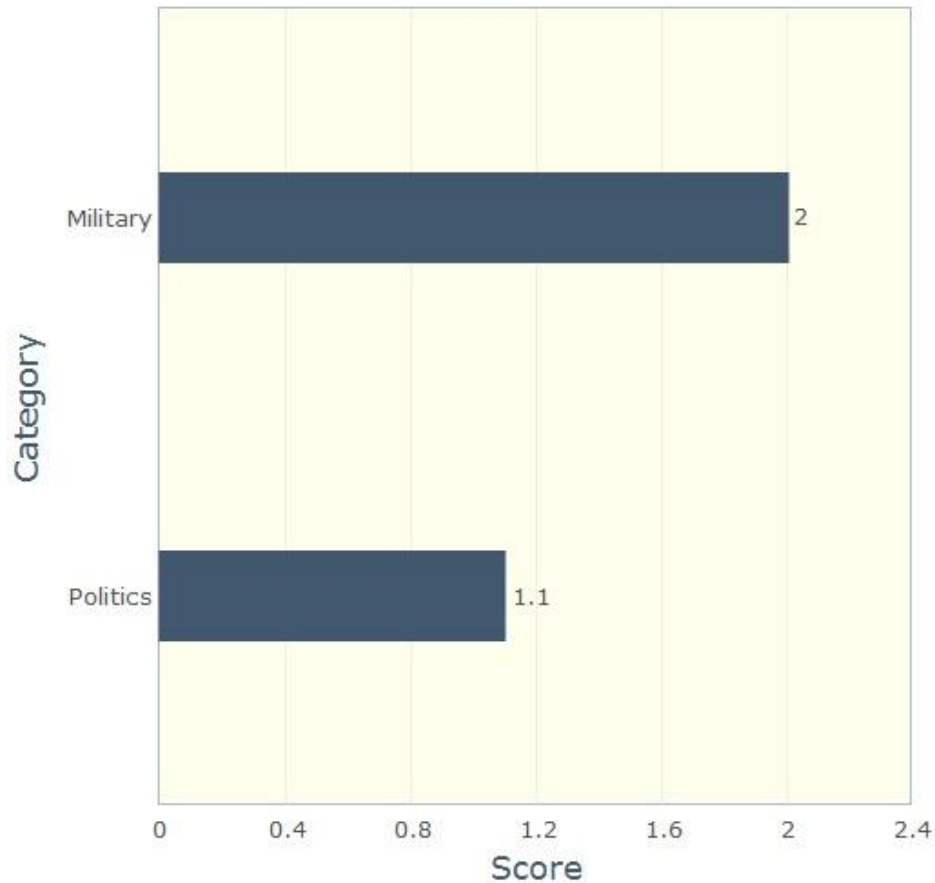
- 350,000 words
- 2.8M relationships



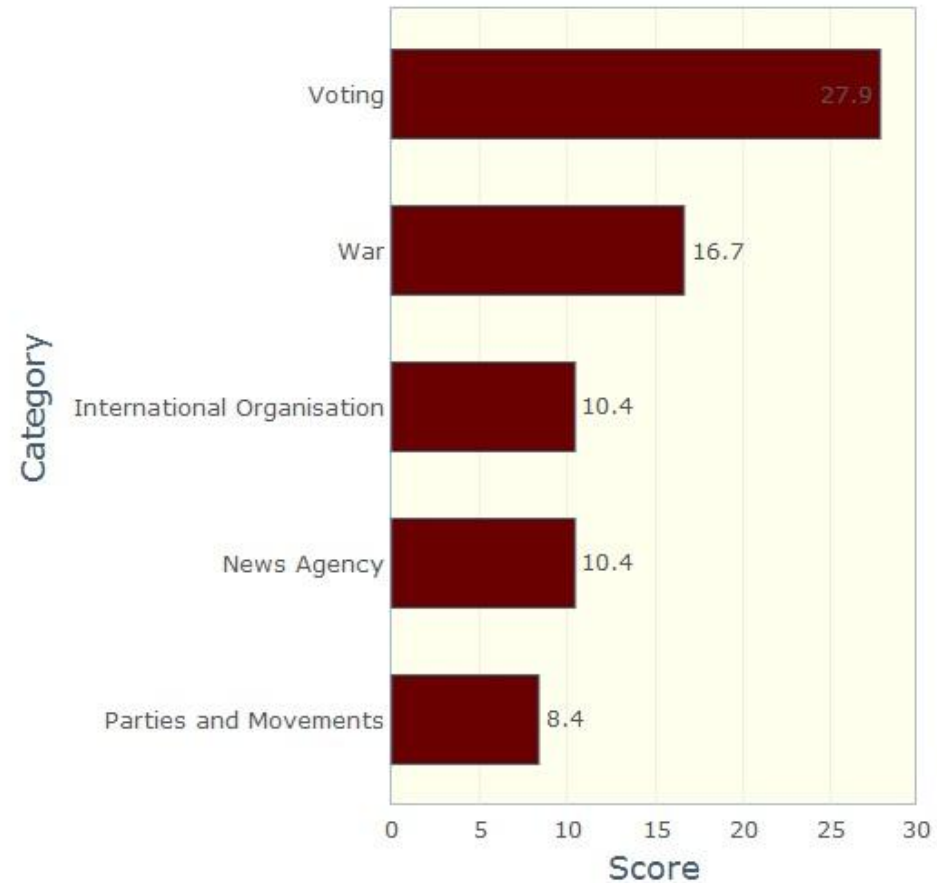
CUSTOM TAXONOMIES

Categorization

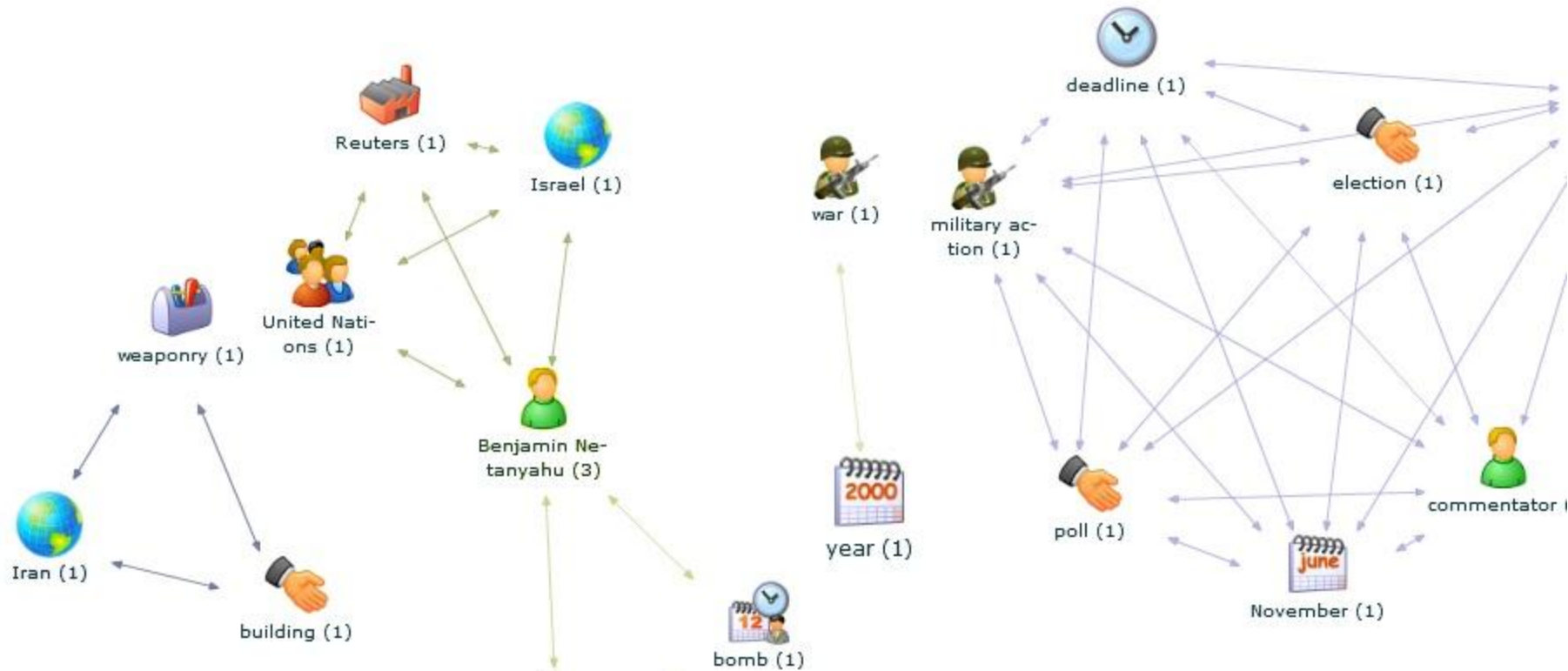
Standard



IPTC Based



WHO: RELATIONSHIPS BETWEEN ENTITIES



WHAT: CONTEXT AND CONCEPTS OF INTEREST

Main concepts

What's happening?

People, Organizations and Places	
Places (2 items)	
	Iran
	Israel
People (1 item)	
	Benjamin Netanyahu (Prime Minister)
Organizations (2 items)	
	Reuters
	United Nations

Semantic Tagging	
Main elements	
Benjamin Netanyahu	(16.5%)
red line	(6.2%)
United Nations	(6.1%)
deadline	(5.8%)
Iran	(5.4%)
speculation	(5.4%)
speech	(5.4%)

Concepts of interest

Elements	
	Company
Reuters (#225910)	News agency: a London news agency providing...
	Country
Iran (#10128582)	unitary state (Asia)
Israel (#10291909)	unitary state (Asia)
	Event
bomb (#138261)	A performance that is a commercial or...
	Month
November (#65628)	The month following October and preceding December...
	Tool
weaponry (#22244)	Weapons considered collectively
	Year
year (#65576)	A period of time containing 365 (or...
	MilitaryAction
military action (#3882)	A military or naval action (as a...
war (#3951)	The waging of armed conflict against an...

Note that the original text was "a cartoon bomb" therefore, the word bomb has been disambiguated in this way



WHERE: INTEGRATION WITH MAPS



Iran

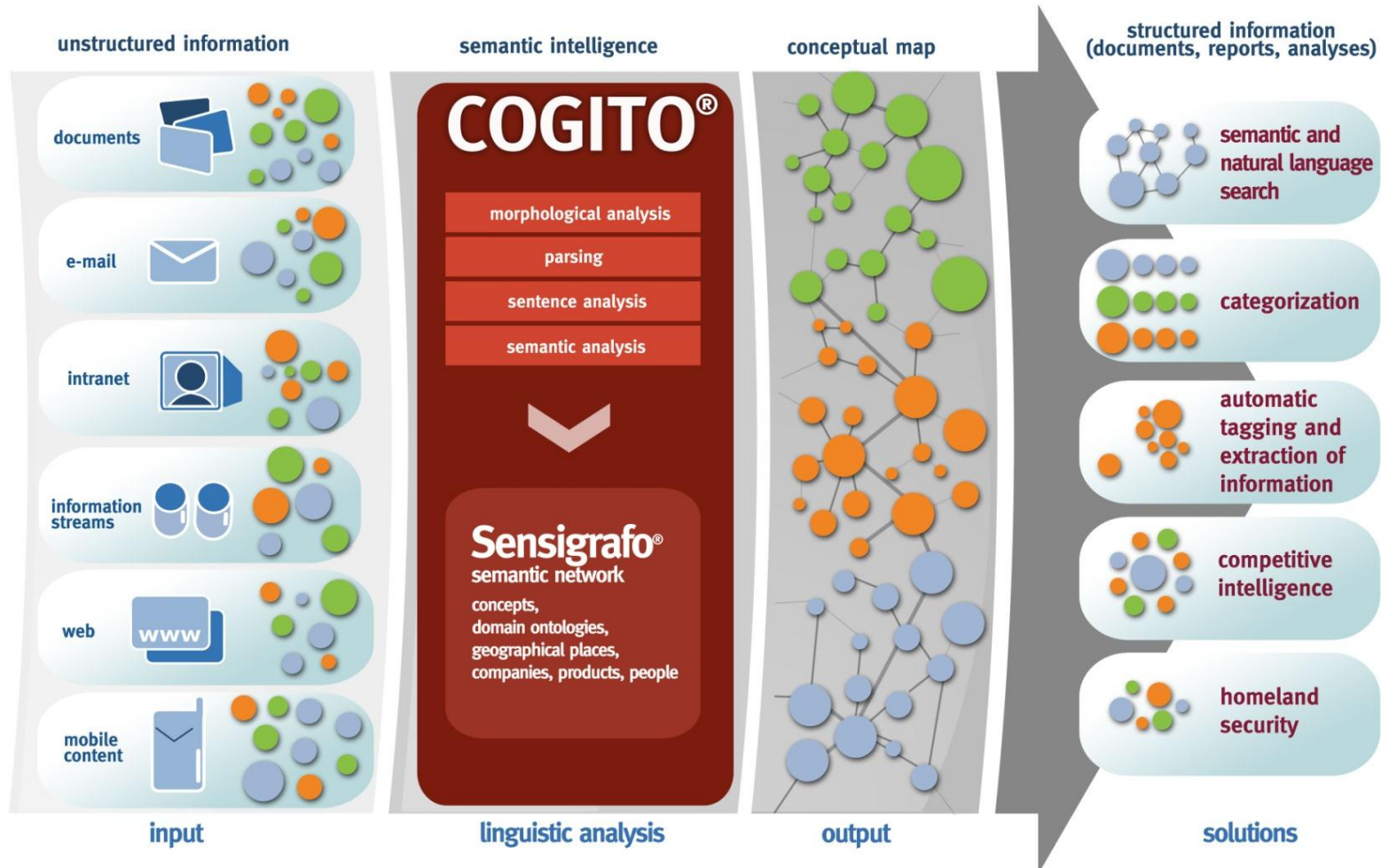
...show how close **Iran** was to building nuclear...

WHEN and HOW

Automatic identification of the **timeline** of events and **how** the different entities were involved (type of entities, role in the event, etc.).

see (#68528)		
+ sbj	People	commentator (#46365)
+ obj	Time	deadline (#65455)
+ other	MilitaryAction	military action (#3882)
+ other	Date	2013 (#v299992)
+ other	Action	election (#672)
+ time	Month	November (#65628)

HOW COGITO WORKS

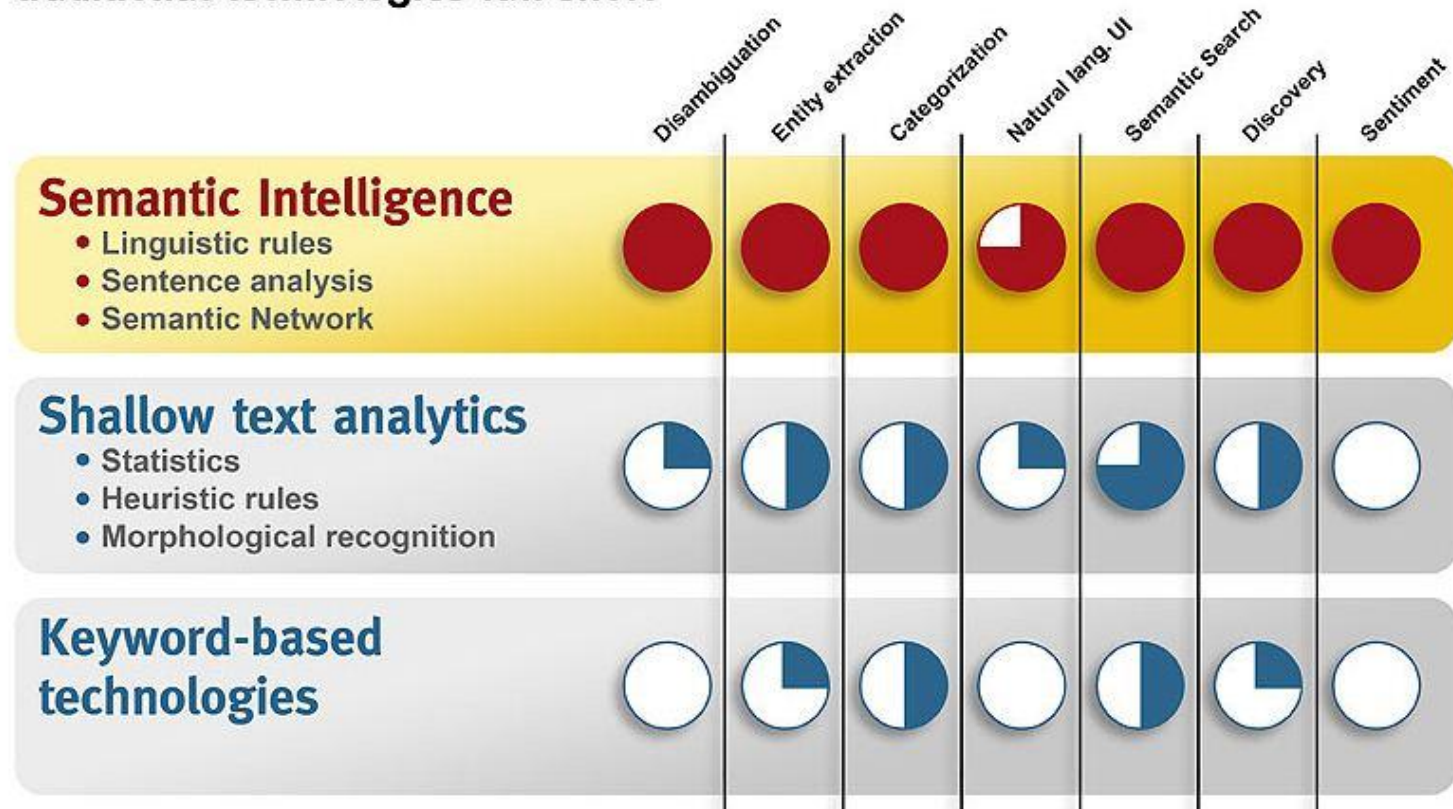


NEXT GENERATION TECHNOLOGY

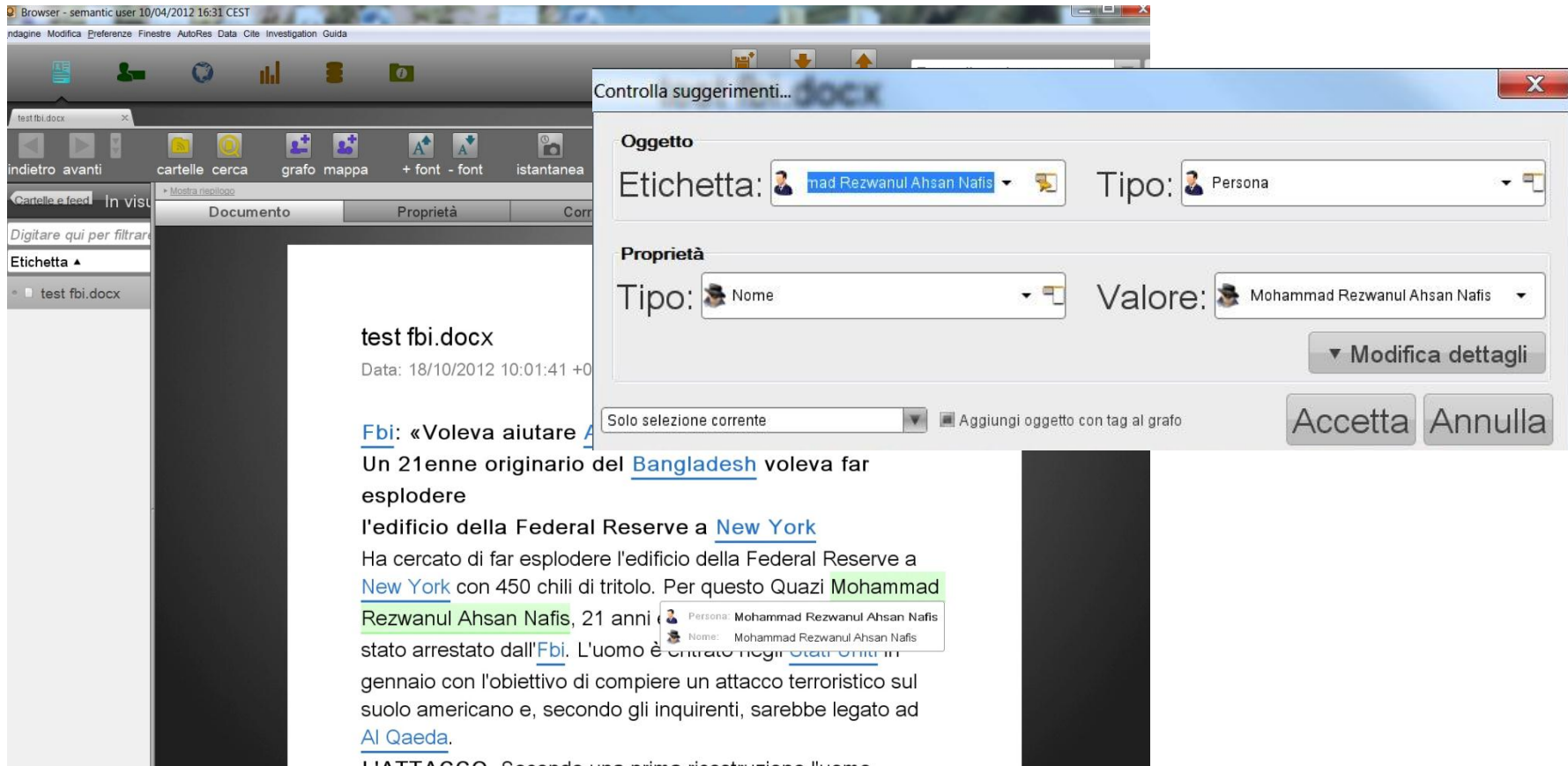
100% semantic technology for
next-gen text analysis

Excels in the areas where
traditional technologies fall short

COGITO®



PALANTIR © INTEGRATION EXAMPLE



The screenshot displays a web application interface for document management and semantic analysis. The main window shows a document titled "test fbi.docx" with a date of "18/10/2012 10:01:41 +0". The document content is partially visible, showing a news article snippet about a man from Bangladesh who wanted to explode the Federal Reserve building in New York. A modal window titled "Controlla suggerimenti..." is open, allowing the user to manage the document's metadata. This window includes fields for "Oggetto" (Object) and "Proprietà" (Properties).

Controlla suggerimenti...

Oggetto

Etichetta: Tipo:

Proprietà

Tipo: Valore:

☐ Aggiungi oggetto con tag al grafo

COGITO's real time entities extration is made available to the user who can immediately validate it

WHO WE ARE



Expert System is the largest, fastest growing semantic software company in the world.

We develop technology, applications and solutions to extract, understand and share information more effectively.



ESTABLISHED MARKET PRESENCE



- Expert System was established in Modena, Italy by three young programmers with an idea. A few months later, Expert System's software was integrated into the Microsoft Office suite.
- **US subsidiary** since 2007.
- Private and Profitable with Revenue doubled in the last three years to **over \$15 million in 2011** and EBITDA above 20%.
- **30% of resources devoted to R&D** and over \$14 million invested in the last 3 years, with \$5M more planned for the next 2 years.
- **More than 100 employees** and offices in Italy, London, Washington, D.C. and Chicago.

RECOGNIZED FOR MATURE AND PROVEN TECHNOLOGY



Identified among the world's leading information access technology developers.



Selected one of the “Innovative Information Access Companies Under \$100M to Watch.”



Recognized for text analytics and superior SharePoint integration capabilities.



One of the few non-Microsoft technologies in the MS Office suite.

CONTACT



Thank You!

Gian Piero Oggero
goggero@expertsystem.net

www.expertsystem.net



COGITO[®] INTELLIGENCE PLATFORM

Demonstration



The Cogito Intelligence Platform supports analysts in all phases of the intelligence cycle:

- ***Acquisition***: Crawler to acquire data from different sources
- ***Exploitation***: Interact with data using semantic analysis
- ***Evaluation***: Easily produce reports using the exploited data
- ***Distribution***: Sharing data with other authorized users


Combines 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
- Social networks

Incorporates a proven approach for intelligence data management, and features the best software components for:

- Speech analysis
- GEO mapping
- Deductive algorithms
- Advanced visualization systems

WORKING WITH CONCEPTS, KEYWORDS AND LEMMAS

COGITO® Intelligence Platform  mdinanni 8:41 AM

IPTC Taxonomy

- Economy, Business and Finance (2)
 - Media (1)
 - News Agency (1)
- Politics (2)
 - Nuclear Policy (2)
- Health (1)
 - Disease (1)
 - Virus Diseases (1)


[View more](#)

Geo Taxonomy [3]

- United States (2)
 - Texas (1)
- Iran (2)
- Israel (2)

Results (0.513 seconds)

1-2 of 2 results













 <http://www.wa>

- Creation date [2011 00:02:26]
- Corpus [English] [http__www_wa]
- Semi-official Iran Fa
- Pourdastan as saying
- that Iran's military i

Nuclear Policy (20%) - I

- Religious Conflict (7%)

Did you mean..

- **worm** as **noun**  
A computer program that invades computers on...
- worm as keyword
- worm as lemma
- worm as noun  
Any of numerous relatively small elongated soft-bodied...
- worm as noun  
Threads gear with the teeth of a...
- worm as noun  
Somebody regarded as contemptible, especially somebody who...
- worm as noun  
The larva of an insect, for example,...
- worm as noun  
An animal that looks or moves like...


Available corpora

- ☐ Public for All Users (11037)
 - ☐ Uncategorized (11037)
 - ☒ English (10158)
 - ☐ Italian (879)


Available sources

- ☐ Public for All Users (11037)
 - ☐ RSS Feeds (11036)
 - ☐ Feeds Bbci Co Uk News (1469)
 - ☐ Europe (304)
 - ☐ US and Canada (200)

WORKING WITH TAXONOMIES AND CATEGORIES

 CIP ▾

COGITO[®] Intelligence Platform


 mdinanni 8:43 AM


IPTC Taxonomy   

- Politics (19)
 - Diplomacy (19)
 - Summit (3)
 - Peace Negotiations (2)
 - Alliances (1)
 - Defence (19)
 - Armed Forces (2)
 - Military Equipment (2)
 - Government (5)
 - Heads of State (3)
 - Government Departments (2)
 - National Government (1)
 - Election (3)
 - Voting (1)
 - Political Campaigns (1)
 - Espionage and Intelligence (3)
 - Foreign Aid (2)
 - Parliament (1)
 - Upper House (1)

National Security  **International Relations** 

Search Clear Sensigrafo

 **Results**  Geo Map  Google Map  Google Earth  Tag Cloud 

 **1-10 of 19 results sorted by** **Creation date**  
(0.625 seconds)

 <http://www.bbc.co.uk/go/rss/int/news/-/news/world-south-asia-13263270>


- Creation date [3 May 2011 12:17:37] - Acquisition date [3 May 2011 10:58:59]
- Corpus [English] - Source [http___newsrss_bbc_co_uk_rss_newsonline_uk_edition_front_page_rss_xml]

But in his opinion piece, Mr Zardari said Pakistan had "never been and never will be the hotbed of fanaticism that is often described by the media".


Key Groups (23%) - **Counter Terrorism** (6%) - **International Relations** (4%) - **War** (2%) - **National Security** (2%)

9 People **2** Countries **2** Places **8** Organizations **6** Cities **0** Urls



[View more](#)

 <http://feedproxy.google.com/~r/TheGlobeAndMail-International/~3/Fz2Rj1zM77A/>

- Creation date [3 May 2011 12:12:49] - Acquisition date [3 May 2011 12:12:49]

Available corpora   


- ☐ Public for All Users (11037)
- ☐ Uncategorized (11037)
 - ☒ English (10158)
 - ☐ Italian (879)

Available sources   


- ☐ Public for All Users (11037)
- ☐ RSS Feeds (11036)
 - ☐ Feeds Bbc Co Uk News (1469)
 - ☐ Europe (304)
 - ☐ US and Canada (295)
 - ☐ Africa (236)
 - ☐ Asia pacific (233)
 - ☐ Middle East (154)
 - ☐ Latin America (132)
 - ☐ South Asia (115)
 - ☐ Feeds

32

USING ENTITIES FOR INTERACTING WITH DATA

 CIP ▾


COGITO® Intelligence Platform

 mdinanni 8:52 AM

IPTC Taxonomy ▾

Geo Taxonomy [16] ▾

Places [10] ▾

People [32+1]   ▾



• Barack Obama (5)

• David Petraeus (4)

• Robert Gates (4)

• Ryan Crocker (2)

View more

Organizations [21+1]   ▾



• Central Intelligence Agency (6)

• White House (4)

• Office of Management and Budget (2)





• North Atlantic Treaty Organization (2)

View more


Leon Panetta  Pentagon  *Insert text..*

person organization

Search Clear Sensigrafo

Results    Tag Cloud 

 **1-6 of 6 results sorted by Creation date (desc)**
(0.452 seconds)

 <http://www.bbc.co.uk/go/rss/int/news/-/news/world-us-canada-13261064>

• Creation date [3 May 2011 12:17:36] - • Acquisition date [3 May 2011 11:14:36]

• Corpus [English] - • Source
[http___newsrss_bbc_co_uk_rss_newsonline_uk_edition_front_page_rss_xml

US President Barack Obama has hailed the death of Al-Qaeda leader Osama Bin Laden as a "good day for America", saying the world is now a safer and a better place.

Unrest, Conflicts and War (25%) - Key Groups (21%) - Counter Terrorism (7%) - Death and Dying (3%) - Counter Terrorist Attack (3%)

8 People



3 Countries

3 Places

9 Organizations

6 Cities

0 Urls



Available corpora   ▾

☐ Public for All Users (11037)

☐ Uncategorized (11037)

☒ English (10158)

☐ Italian (879)

Available sources   ▾

☐ Public for All Users (11037)

☐ RSS Feeds (11036)

☐ Feeds Bbc Co Uk News (1469)

☐ Europe (304)

☐ US and Canada (295)

☐ Africa (236)

☐ Asia pacific (233)

☐ Middle East (154)

☐ Latin

33

CREATING QUERIES USING THE SEMANTIC TAG CLOUD

 CIP

COGITO® Intelligence Platform

amelegari 9:10 AM

▼

▼

▼

▼

▼

IPTC Taxonomy

Geo Taxonomy [49]

Places [44]

People [100]

Organizations [80]

Facebook  Insert text..

facet item

Search Clear Sensigrafo

 Results

 Google Map

 Tag Cloud

 Entity Map

Available corpora  

☐ Public for All Users (11037)

☐ Uncategorized (11037)

☒ English (10158)

☐ Italian (879)

Available sources 

URL [22] 

Date Range 

Data Field:

Creation date 

Start Date:



End Date:



Add constraint

account, act, airship, alert, American, analyst, anniversary, announcement, **Barack**

Obama, Cameron Reilly, candidate, Central Intelligence Agency, Chernobyl Anniversary

Projection, **China,** coal, comment, company, damage, data, data center, data centre,

deficit, disaster, Don Graham, Earth Day, Earth Day Network, economy, **election,** employee,

energy, event, experience, fan, firm, Fukushima, Google, **Greenpeace,**

Hatton Promotions, Hosni Mubarak, incident, information, internet, **Internet,** intifada,

intro, Israel, IT, Joe Chen, Karl Hopwood, **Kate Middleton,** Kent Conservative, kid, Larry

Klayman, **latest,** litigation, Manchester, Manchester United, **Mark Zuckerberg,** meaning,

media, medium, memory, **message,** Mount Sinai, Muhafazat Shamal Sina', name, Neil Lennon, New York

VIEW ENTITIES USING E-R DIAGRAM

COGITO Intelligence Platform amelegari 9:21 AM

Politics (1) Italian (8/9)

Geo Taxonomy [3]

- United Kingdom (1)
 - Wales (1)
 - Northern Ireland (1)
 - England (1)

Places [0]

People [3]

Organizations [1]

Entity Map

The Entity Map displays a network of entities and their relationships. The entities are represented by icons: a group of people for 'Mike O'Brien', a group of people for 'John Shepherd', a globe for 'United Kingdom', and a building for 'Nuclear Liabilities Financing Assurance Board'. The relationships are shown as lines connecting these entities. Mike O'Brien is connected to John Shepherd, United Kingdom, and Nuclear Liabilities Financing Assurance Board. John Shepherd is connected to Mike O'Brien, United Kingdom, and Nuclear Liabilities Financing Assurance Board. United Kingdom is connected to Mike O'Brien, John Shepherd, and Nuclear Liabilities Financing Assurance Board. Nuclear Liabilities Financing Assurance Board is connected to Mike O'Brien, John Shepherd, and United Kingdom.

Available sources

URL [0]

Date Range

Data Field: Creation date

Start Date:

End Date:

[Add constraint](#)

USING GOOGLE MAPS TO GEOREFERENCE AND INTERACT

COGITO Intelligence Platform amelegari 9:06 AM

Geo Taxonomy [98]

- **United States** (5098)
 - Washington (1765)
 - New York (738)
 - District of Columbia (606)
 - California (521)
 - Texas (253)
 - Florida (246)
 - Virginia (215)
 - Massachusetts (183)
 - Michigan (174)
 - Colorado (171)
 - Ohio (151)
 - North Carolina (147)
 - Maryland (132)
 - Wisconsin (112)
 - Missouri (110)
 - Nevada (103)
 - Hawaii (98)
 - Arizona (94)
 - Pennsylvania (91)
 - Illinois (90)
 - Alabama (88)
 - Alaska (81)
 - New Jersey (72)
- **United Kingdom** (2315)
 - England (1351)
 - Wales (171)
 - Scotland (164)

Search Clear Sensigrafo

Results Google Map Tag Cloud Entity Map

Alaska
Geoname Id: 5879092
[Show Documents \(67\)](#)
[Add Constraint](#)
Powered by Cogito Intelligence Platform
Expert System S.p.A.

Mappe Satellite

Available sources

URL [100]


Date Range

Data Field: Creation date

Start Date:

End Date:

Add constraint



KEY TARGETS ARE HIGHLIGHTED IN EACH DOCUMENT

COGITO Intelligence Platform amelegari 9:24 AM

IPTC Taxonomy **Available corpora**

RSS Feed [ED531E7EBA79487EA078694FD6E68FE0] - Detail

People

Organizations

- Nuclear Liabilities
- Financing Assurance Board

URLs

Countries

- United Kingdom

Cities

Places

- England
- Northern Ireland
- Wales

http://www.worldnuclear.org/news_database/rss_detail_features.cfm?objID=85DDAF72-89A7-488E-8FDFA93D3A335A3A

• Creation date [29 Apr 2011 20:33:01] • Acquisition date [26 Apr 2011 01:13:01]
• Corpus [English] • Source [http://www.worldnuclear.org/rss_publicnews_xml]
• Language [ENG]

Nuclear Power (16%) - Waste Management and Pollution Control (14%) - Nuclear Policy (6%)

Available highlight layers: ☒ Search constraints ☐ People ☐ Organizations ☐ URLs ☒ Countries ☐ Cities ☐ Places

Energy and climate change minister Mike O'Brien said the new **Nuclear Liabilities Financing Assurance Board (NLFAB)** would be chaired by Lady Balfour of Burleigh.

As part of any application to build a new nuclear power plant in England, Wales and Northern Ireland, operators must submit plans for decommissioning and waste management which will include arrangements for financing those plans.

The **NLFAB** will provide independent scrutiny and advice on the financing arrangements of the plans, which will have to be approved by the government. The first meeting of the **NLFAB** is expected to be held in January 2009.

Mr O'Brien said: Nuclear energy is an affordable, low carbon, dependable and safe technology that is important for our low carbon future. But we've always said the taxpayer should be protected from the costs of decommissioning and waste disposal arising from new nuclear power stations. The **NLFAB** will be another piece of armour to help ensure they get that protection".

The **UK**'s Office for Nuclear Development also issued the first of three discussion papers yesterday to hear the views of the general public on estimates of the costs of decommissioning and waste management.

The UK government gave the go-ahead for the possible construction of a new generation of nuclear power plants in the country in January 2008.

Enter search term...

INTEGRATION WITH GIS SYSTEMS

Critical infrastructures categories [5]

IPTC categories [3]

• Economy, Business and Finance

• Energy and Resource

• Oil and Gas - Upstream
Activities (3)

• Energy (general) (1)

• Macro Economics

• Imports (1)

• Exports (1)

• Disaster and Accident

• Fire (1)

• Environmental Issue

• Environmental Pollution (2)

[View more](#)

Countries categories [36]

• Russia (3)

• Turkmenistan (2)

• China (2)

• Algeria (2)

[View more](#)

People [35]

Organizations [40]

oil Natural Gas United States
lemma info category country

Show results as: ER Map

1-7 of 7 results sorted by Custom
(0.804 seconds)



RSS Feed crawled document 65605

[RSS Feed] - 7 Oct 2010 19:27:49

Oil Spill's Ripple Effect Interviewee: Michael A. Levi
Download Audio * MP3 Michael A. Levi The oil spill
Deepwater Horizon (Nature) in the Gulf of Mexico
United States has seen in the last twenty years,
environment.

Environmental Pollution (12%) - Oil and Gas - Upstream (12%)
- Natural Gas (7%) - Environmental Issue (6%)

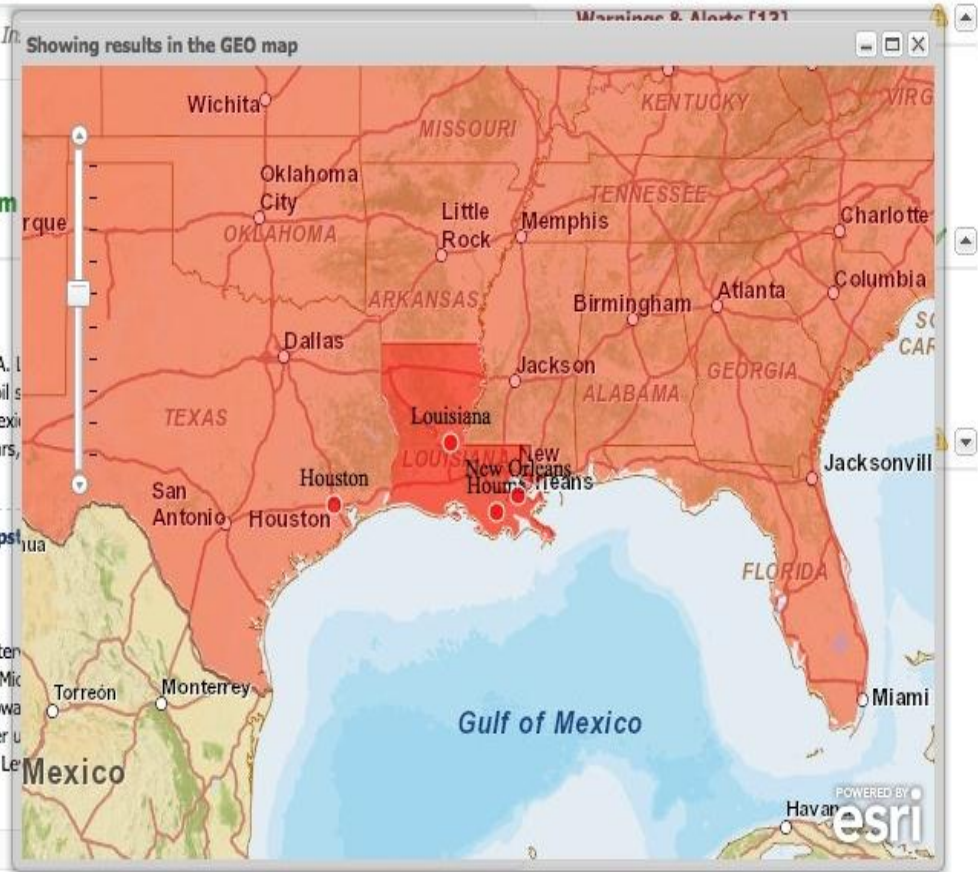
Oil Production (4%)

Oil Spill's Ripple Effect Interviewee: Michael A. Levi Interview
May 4, 2010 Streaming Audio Download Audio * MP3 Michael A. Levi
resulting from last week's explosion of the oil rig Deepwater
the Gulf of Mexico has led to an environmental disaster
United States has seen in the last twenty years, says Michael Levi
energy and the environment.



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 - Civil Unrest (8)
 - Religious Conflict (4)
 - Revolutions (4)
 - War (6)
 - Crisis (3)
 - Demonstration (1)
 - Armed Conflict (1)- Crime, Law and Justice (15)
 - Judiciary (System of Justice) (7)
 - Judge (1)
 - Corporate Crime (4)
 - Corruption (4)
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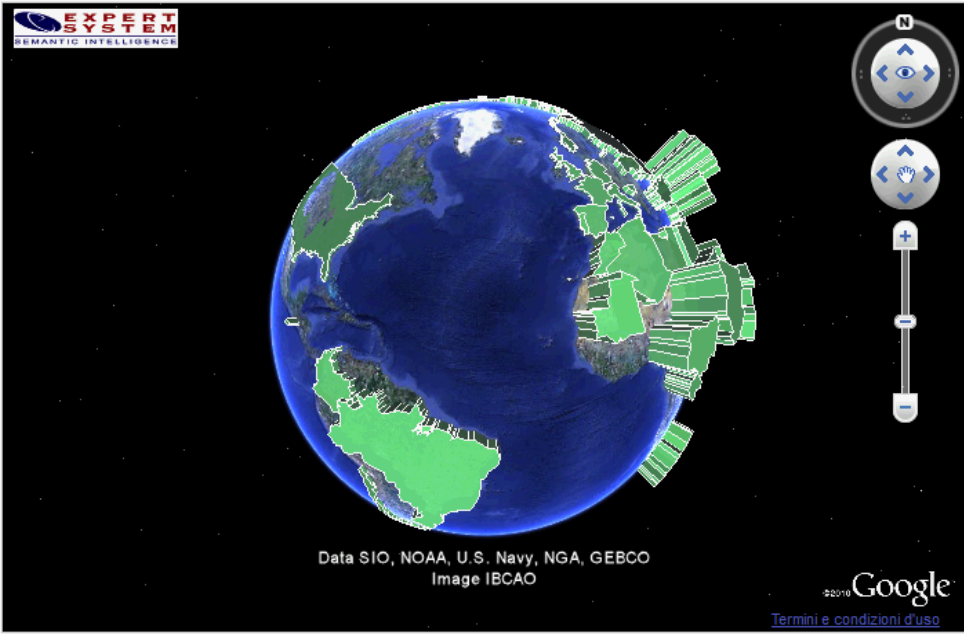
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EXPERT SYSTEM SEMANTIC INTELLIGENCE

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