



# The European Commission's science and knowledge service

Joint Research Centre

Directorate I - Competences  
JRC I.3 Text and Data Mining Unit

# **Text Mining and Analysis**

**Summer School in Public Audit and Accountability**

**Pisa 25/07/2018**

**Jakub Piskorski**

# Outlook

- What do we do?
- Europe Media Monitor (**EMM**) family of applications
- Event Extraction
- Importance of multilingual processing
- OSINT Suite (Open Source Intelligence)
- References & Events

# Text and Data Mining Unit



**EMM**

Europe Media  
Monitor



**Text and Data Mining**



**SITAF**

Statistics and Information  
Technologies for Anti-Fraud



**TIM**

Tools for Innovation  
Monitoring



**BigData & EOSS**

Earth Observation & Social  
Sensing Big Data Pilot Project

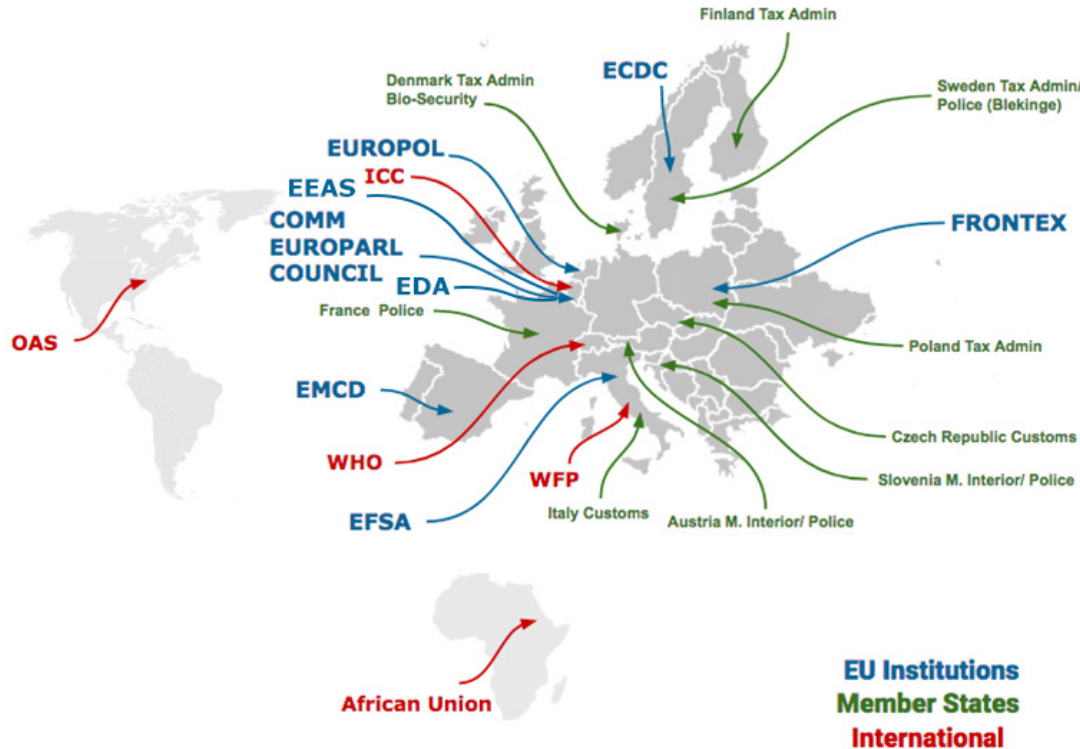
# I3: Synergy



Interest and feedback from  
real world customers and  
policy makers for operational  
product, stimulating  
research and innovation

Interest from academia for  
collaboration and applied  
research in dynamic  
operational environment

# CLIENTS



**EU Institutions,  
EU Agencies,  
UN Agencies,  
African Union,  
Organization of  
American States,  
Member States  
Tax Agencies and  
Customs**

# I3: EMM - Philosophy

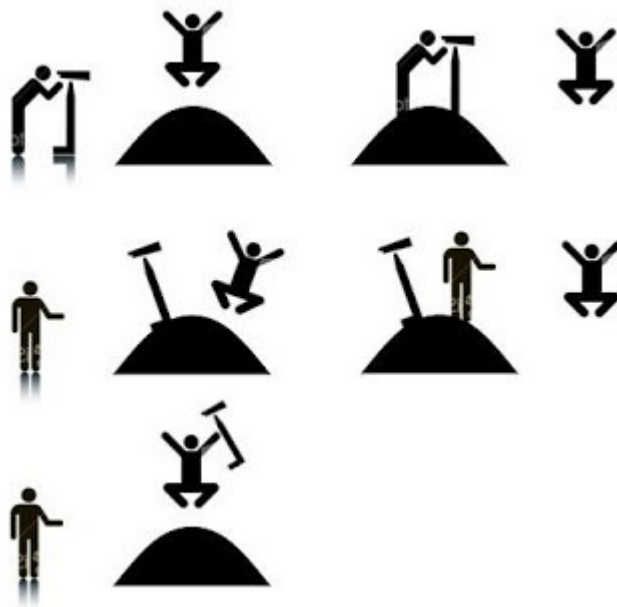
*A complex system that works is invariably found to have evolved from a simple system that worked. A complex system designed from scratch never works and cannot be patched up to make it work. You have to start over with a working simple system. – John Gall (1975)*

# Is Natural Language Processing Easy?

*“I saw the man on the hill with a telescope”*

# Is Natural Language Processing Easy?

*“I saw the man on the hill with a telescope”*

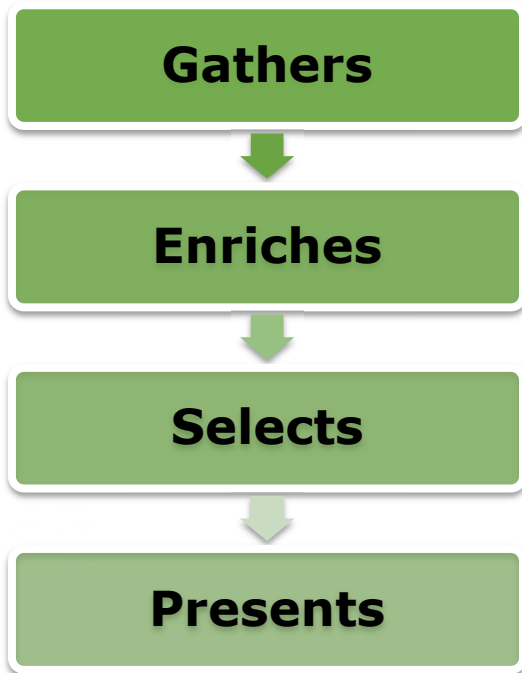
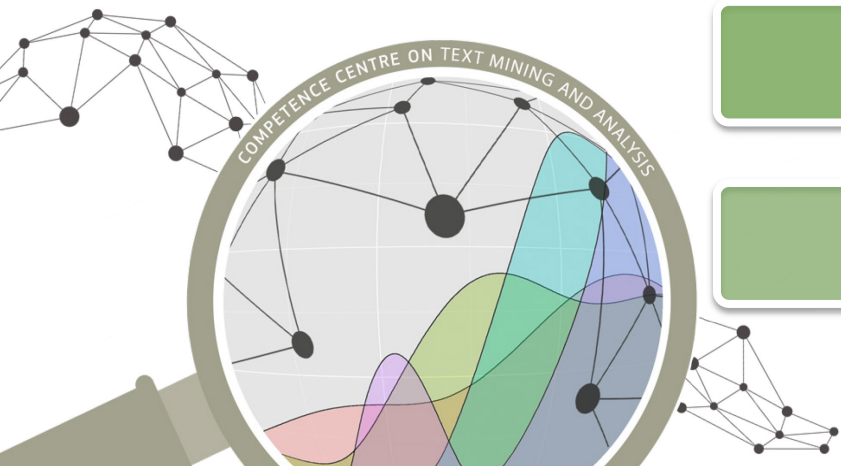


# Media Monitoring for Open Source information analysis

- Started in 2002 to provide Internet Media Monitoring to complement/replace traditional cut-and paste
- Information for decision makers, spokes persons: mainly 'political events'
- Initially main customer DG COMM. Evolved into monitoring for other kinds of events: disasters and crisis, security, health threats, countries, etc.

# What is EMM

Objective: Find knowledge that is hidden in text



Results: Find perhaps 100 relevant articles a day from 300 000

# What is EMM

A tool to monitor, analyse and aggregate online and other electronically available sources

## Wide Coverage

- Local, Regional, National and International
- Multi-Lingual

## Rapid Updates

- High Frequency (5min)

## Sources Covered

- Online media
- News wires
- Blogs
- BBC Monitoring
- Oxford Analytica
- Etc...

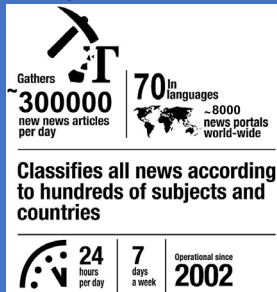


## Full Text Analysis



# EMM Architecture

*Custom Domain  
(Sources and Topics)*



*EMM Open Source  
Monitoring Engine*

*Newsbrief*

*Medisys*

*NewsDesk*

*Other  
Uses*

*End Use  
Applications*

# What EMM can do for you

**Reduce amount of data to be analysed**

Filter out relevant information based on predefined categories

**Provide additional information**

Other categories, places, people, quotes

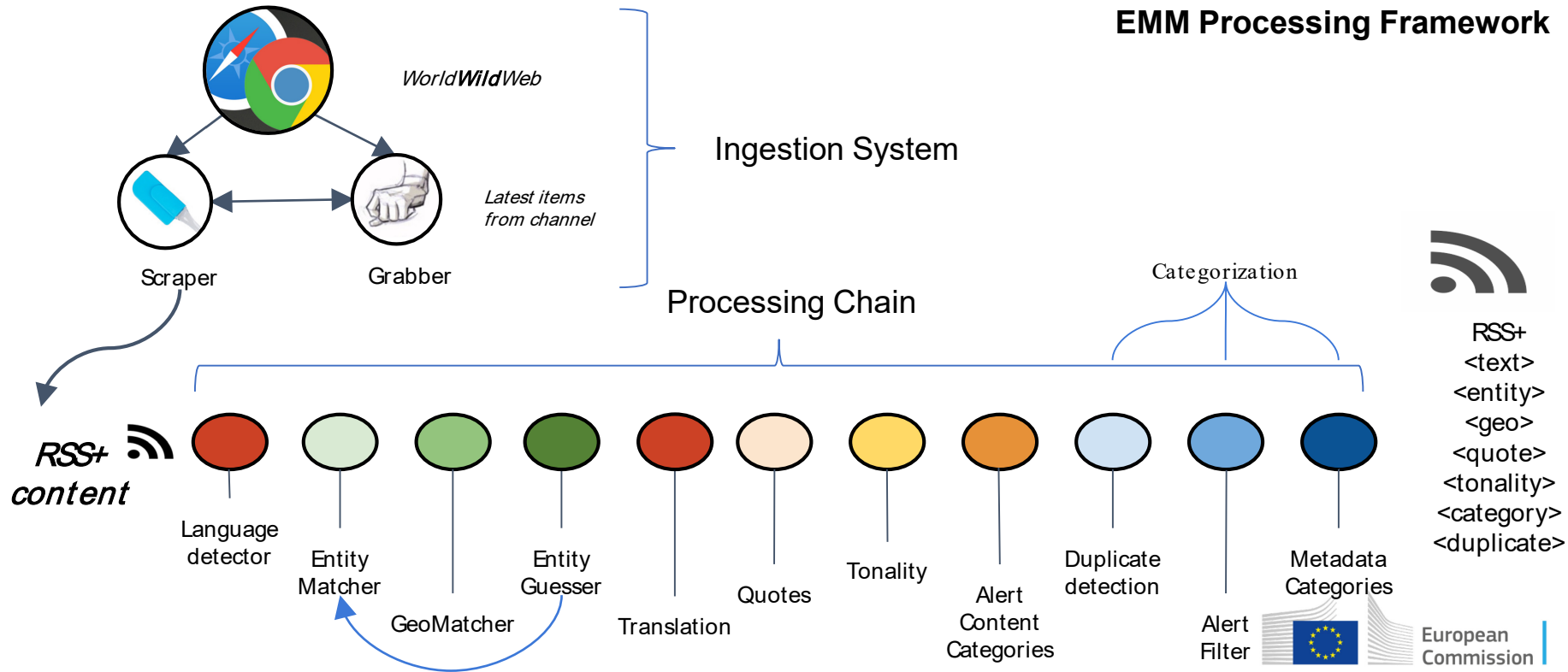
**Provide automatic alerting functionality**

Simple email Breaking news

Breaking news per category

**Replaces manual searching in selected sources**

# EMM Architecture



# Language Detection

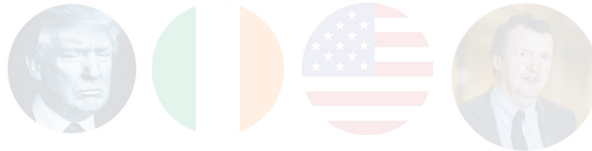


Language:  
English

US president Donald Trump intention to cut the US corporate tax rate to 15 per cent may not be achievable with the border adjustment tax, which might have funded the reduction, now off the table. Irish tax experts remain convinced that US tax reform, whatever shape it takes, will not adversely damage Ireland's economic prospects, suggesting incentives for US multinationals to base operations here will continue. "All in all, I wouldn't be unduly worried at this juncture," Alan McQuaid said.



We cover ~ 70 languages



"All in all, I wouldn't be unduly worried at this juncture"



# Entity Detection

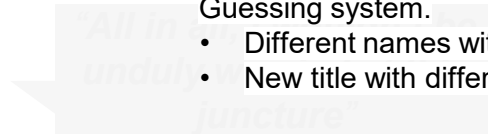


US president Donald Trump intention to cut the US corporate tax rate to 15 per cent may not be achievable with the border adjustment tax, which might have funded the reduction, now off the table. Irish tax experts remain convinced that US tax reform, whatever shape it takes, will not adversely damage Ireland's economic prospects, suggesting incentives for US multinationals to base operations here will continue. "All in all, I wouldn't be unduly worried at this juncture," Alan McQuaid said.



Our entity DB is built on an Entity Guessing system.

- Different names with same title
- New title with different name



Database with  
> 1 million entities



# Named Entity Detection

An entity is only associated with his name

- Various spellings
- Acronyms
- Short/long forms and aliases

The entity system does **not** do any disambiguation

## Joseph "Joe" Borg

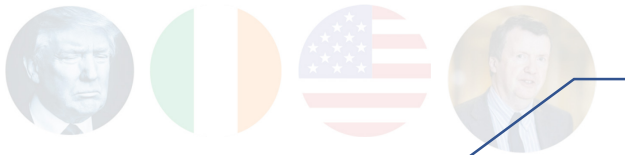
- Maltese politician, former Commissioner for Fisheries and Maritime Affairs
- Maltese soccer player
- American financial regulator who has served as the Securities Commissioner of Alabama since 1994

# Update Known Entities

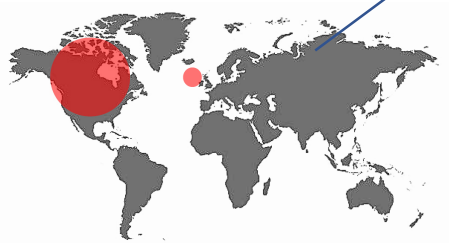
- Guessed entities are used to enrich and keep up-to-date the known entity resource
- 600 unknown names per day are compared daily with  $\sim 1,500,000$  known name variants
- 120 are automatically merged with known entities

# Geo Detection

**US** president Donald Trump intention to cut the **US** corporate tax rate to 15 per cent may not be achievable with the border adjustment tax, which might have funded the reduction, now off the table. Irish tax experts remain convinced that **US** tax reform, whatever shape it takes, will not adversely damage **Ireland**'s economic prospects, suggesting incentives for **US** multinationals to base operations here will continue. "All in all, I wouldn't be unduly worried at this juncture," Alan McQuaid said.



Database with  
1.3 million entries



# Geo Dissambiguation

- **Matching**

Bill Clinton went to Venice during his visit in Italy

- **Disambiguation**

~~Clinton:Pennsylvania:USA cls: -3~~

Entity

~~Venice:Veneto:Italy cls:-3~~

Venice:Venice:Veneto:Italy cls:2

The most specific wins!

~~Venice:Madison:Illinois:USA cls:5~~

Nothing USA related

Italy cls: -1

- **Result**

georss: Venice:Venice:Veneto:Italy fullgeo: Italy



# Entity-Geo Disambiguation

## Montenegro

- Common place name (country, cities, regions)
- Common person surname
- Spanish famous fiction character
- Italian bitter liquor

## Other examples:

- Hannah Montana
- Paris Hilton
- Asia Argento
- Michael Jordan

# Machine Translation



- Statistical Machine Translation (*planning for NMT*)
- Only from original language to English.
- 14 EU languages
  - Czech, Danish, Dutch, Finnish, French, German, Greek, Italian, Latvian, Lithuanian, Polish, Portuguese, Spanish and Swedish
- + Russian, Farsi, Chinese\* and Arabic.



# Quote Detection



US president Donald Trump intention to cut the US corporate tax rate to 15 per cent may not be achievable with the border adjustment tax, which might have funded the reduction, now off the table. Irish tax experts remain convinced that US tax reform, whatever shape it takes, will not adversely damage Ireland's economic prospects, suggesting incentives for US multinationals to base operations here will continue. **"All in all, I wouldn't be unduly worried at this juncture," Alan McQuaid said.**



Quotes are both "From & "About" in 19 Languages:

ar,bg,da,de,em,es,et,fr,it,nl  
no,pl,pt,ro,ru,sl,sv,sw,tr



***"All in all, I wouldn't be unduly worried at this juncture"*** Alan McQuaid



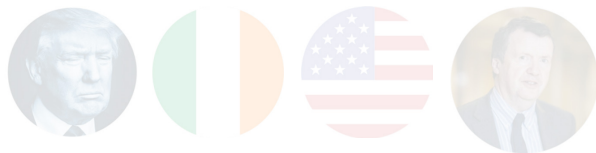
# Categorisation



US president Donald Trump intention to cut the US **corporate tax** rate to 15 per cent may not be achievable with the **border adjustment tax**, which might have funded the reduction, now off the table. Irish **tax experts** remain convinced that US **tax reform**, whatever shape it takes, will not adversely damage Ireland's **economic prospects**, suggesting incentives for US multinationals to base operations here will continue. "All in all, I wouldn't be unduly worried at this juncture," Alan McQuaid said.



Categorization:  
**Taxation**  
**Economy**  
**EU-US trade**



3.000 categories/topics  
based on more than  
60.000 keywords



European  
Commission

# Powerful Categorisation Engine

- Based on user defined **keywords/patterns**
- **Boolean combinations, proximity, wildcards**
- Support for **Arabic** and similar (automatic noun-prefix processing)
- *Support* for **Chinese** and similar (no whitespace).
- Categories can be overlapping, **no ontology**

# Complex criteria...

The screenshot displays the 'Category Editor' v1.4.4.3 interface. The 'File Tree' on the left shows a hierarchy with 'Drugs' selected. The 'Header Information' panel for 'Drugs' includes configuration options like 'Display Name', 'Editor's Email', 'Max Articles', and 'Max Article Age'. The 'Combinations Tree' shows a complex AND combination of various criteria. The 'Word-Weight List' on the right shows a table of words and their weights.

Pattern	Weight
בסחר+במים	20
ממים+מסוכנים	20
שימוש+במים	20
מסחר+במים	20
מחר+במים	20
drogfogyasztás%	10
kábítószerfogyasztás%	10
kábítószer+fogyasztás%	10
kábítószer+kereskedelem%	10
kábítószer+kereskedelem%	10
drogkereskedelem%	10
drogmaffia%	10
kábítószer+maffia%	10
kábítószer-maffia%	10
kábítószer+bűnözés%	10
kábítószer+visszaélés%	10
illegális+kábítószer+kereskedelem%	10
хранение%+наркотик%	10
о оборот%+наркотик%	10
drogenhandel%	10
drogenkonsum%	5
drogeneinfluss	10
drogenrott%	10
drogenschnugg%	10
drogenbekämpfung	10
drogenmafia	10
spaccio+di+droga	10
operazione+antidroga	10
traffico+di+droga	10
traffico+internazionale+di+droga	10
tráfico+internacional+de+drogas	10
traffico+di+stupefacenti	10
trafic+de+stupefiant	10
narcotrafic	10
drugshandel%	10
narkotikahandel	10
narcotráfico	10
illegal+drug+trade	10
drug%+trafficking	10
tráfico+de+drogas	10
narcotrafico	10
narcotraficant	10

No Panic!

- we deliver trainings (1-2 days)
- We provide support too.

You should provide:

- domain knowledge
- some translations

# Tonality



US president Donald Trump intention to cut the US corporate tax rate to 15 per cent may not be achievable with the border adjustment tax, which might have funded the reduction, now off the table. Irish tax experts remain convinced that US tax reform, whatever shape it takes, **will not adversely damage Ireland's economic** prospects, suggesting incentives for US multinationals to base operations here will continue. **"All in all, I wouldn't be unduly worried at this juncture,"** Alan McQuaid said.



*"All in all, I wouldn't be unduly worried at this juncture"*



Tonality:  
+  
**POSITIVE**



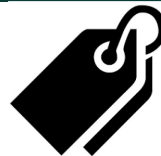
European  
Commission

# Structured data: logical view



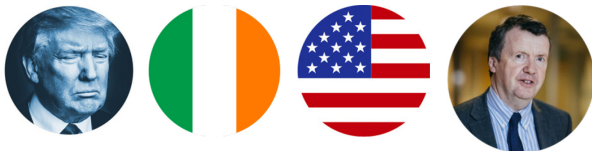
Language:  
English

US president Donald Trump intention to cut the US corporate tax rate to 15 per cent may not be achievable with the border adjustment tax, which might have funded the reduction, now off the table. Irish tax experts remain convinced that US tax reform, whatever shape it takes, will not adversely damage Ireland's economic prospects, suggesting incentives for US multinationals to base operations here will continue. *"All in all, I wouldn't be unduly worried at this juncture,"* Alan McQuaid said.



Categorization:  
Taxation  
Economy  
EU-US trade

Entities:



Quotes:

*"All in all, I wouldn't be unduly worried at this juncture"*

Geo:



Sentiment:

+

POSITIVE



European  
Commission

## Main Menu

[Top Stories](#)  
[24 Hours Overview](#)  
[Events Detection](#)  
[Most Active Themes](#)  
[Help about EMM](#)  
[Overview](#)  
[Advanced Search](#)  
[Sources list](#)  
[Web Site Map](#)

## EU Focus

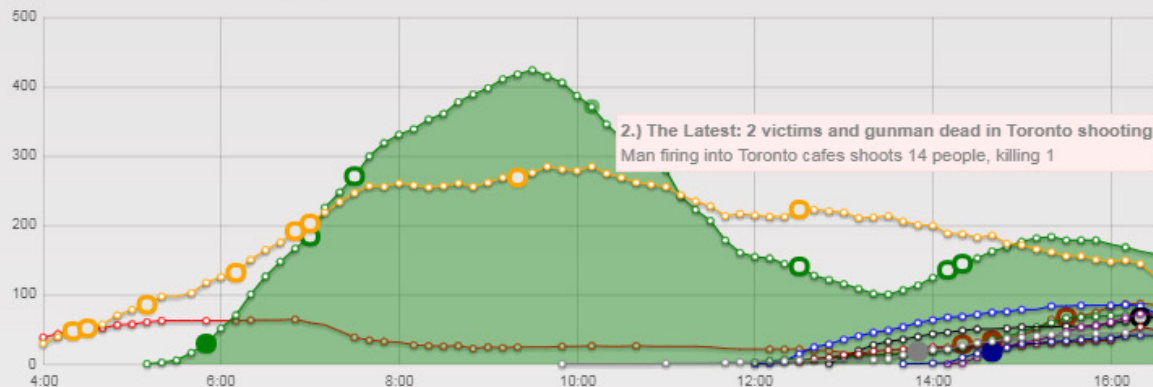
[Jean-Claude Juncker](#)  
 (Commission President)  
[Commission Vice-Presidents](#)  
[Commissioners](#)  
[EC News](#)  
[Investment Plan for Europe](#)  
[Council President](#)  
[EP Presidency](#)  
[Brexit](#)  
[European Pillar of Social Rights](#)  
[Austrian Presidency of the EU Council](#)

## EU Policy Areas

[Agriculture and Rural Development](#)  
[Better Regulation, Inter-Institutional Relations, the Rule of Law and the Charter of Fundamental Rights](#)  
[Budget and Human Resources](#)

## Current top 10 stories

Language: en Period: Jul 23, 2018 4:30 AM - Jul 23, 2018 4:30 PM



### The Latest: Lebanese analyst: US, Iran on 'brink of war'

Articles : 883 | Last update : Jul 23, 2018 4:17:00 PM | Start : Jul 21, 2018 11:28:00 PM | Sources : 333 | Peak : 1 | Current rank : 1

### Politics The Latest: Trump security adviser echoes warning to Iran

🇺🇸 boston Monday, July 23, 2018 4:17:00 PM CEST | info [other]

Entities: [Hassan Rohani](#)[6]; [Kamel Wazne](#)[1]; [Benjamin Netanyahu](#)[1]; [Heshmatollah Falahatpisheh](#)[1]; [Javad Zarif](#)[2]; [Sarah Huckabee Sanders](#)[1]; [Vladimir Putin](#)[1]; [Christofer Burger](#)[1]; [Donald Trump](#)[8]; [Gholam Hossein](#)[1]; [Prophet Muhammad](#)[1]; [Kim Jong Il](#)[1]; [Kim Jong un](#)[2];

Other categories: [JRC Safeguards](#); [JRC Nuclear Security](#);

#### Quotes in this article

[Sarah Huckabee Sanders](#) says: "if anybody's inciting anything, look no further than to Iran"

[Hassan Rohani](#) comments: "America must understand well that peace with Iran is the mother of all peace and war with Iran is the mother of all wars"

[Christofer Burger](#) said: "threats of military force are never helpful, and I think that particularly in the tense situation in the Middle East this is not a helpful means of discourse"

She says: "The president consults with his national security team on a daily basis." 8:10 a.m. The White House says President Donald Trump's threatening tweet shows he's not going to tolerate critical rhetoric from Iran, but claims the U.S. leader isn't

## Tools

Monday, July 23, 2018  
4:36:00 PM CEST

[RSS](#) | [MAP](#)

[Facebook](#)

[subscribe](#) | [manage](#)

[info](#)



## Languages

Select top stories in other languages.

<a href="#">ar</a>	<a href="#">bg</a>	<a href="#">cs</a>	<a href="#">da</a>	<a href="#">de</a>	<a href="#">el</a>
<a href="#">en</a>	<a href="#">es</a>	<a href="#">et</a>	<a href="#">fi</a>	<a href="#">fr</a>	<a href="#">hr</a>
<a href="#">hu</a>	<a href="#">it</a>	<a href="#">lt</a>	<a href="#">lv</a>	<a href="#">mt</a>	<a href="#">nl</a>
<a href="#">pl</a>	<a href="#">pt</a>	<a href="#">ro</a>	<a href="#">ru</a>	<a href="#">sk</a>	<a href="#">sl</a>
<a href="#">sv</a>	<a href="#">sw</a>	<a href="#">tr</a>	<a href="#">zh</a>		

Show additional languages

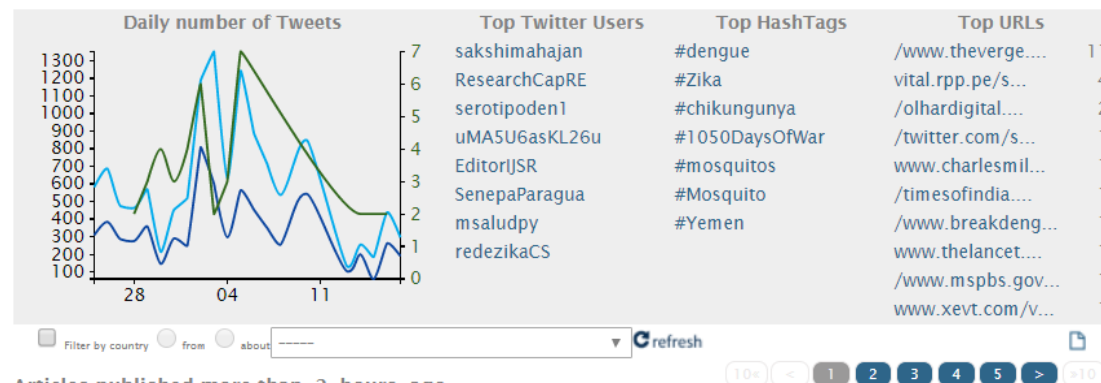
Interface: en - English

Legend

Country Watch

- Top Stories
- Event Extraction
- Recent Disease Incidents
- Alert Statistics
- Communicable Diseases
- Symptoms
- Bioterrorism
- Nuclear
- Chemical
- ECDC
- EFSA
- EMCDDA
- ENV\_RISKS
- Food Security
- SAM
- Medical Devices
- Vaccination
- Other
- Continents
- Official Sources
- Sources List

## Latest News About - Dengue Fever



Articles published more than 3 hours ago

**مأرب تعلن الحرب على عدة حشرات مؤذية للمجتمع**  
 [marebpress Tuesday, July 24, 2018 8:19:00 PM CEST | info [en] [other] [4]]  
 Trigger words: [DengueFever] [1]; حمى الضنك[4];  
 Entities: أحمد الجادي[1];  
 Other categories:  
 تتواصل لليوم الثاني على التوالي حملة الرش الضبابي لمكافحة البعوض الناقل لحمى الضنك بمديرتي الوادي ومدينة مأرب؛ التي ينفذها مكتب الصحة بالمحافظة بالتعاون مع جمعية الإصلاح الإجتماعي الخيرية CSSW. وأكد الدكتور عبدالعزيز الشداي مدير عام مكتب الصحة بالمحافظة أن الحملة تأتي ضمن الإجراءات التي اتخذها المكتب في مواجهة حمى الضنك والحد من انتشارها....

**Delhi: Malaria cases outpace dengue this season**  
 [timesofindia Tuesday, July 24, 2018 7:58:00 PM CEST | info [other] [4]]  
 Trigger words: [DengueFever] Aedes aegypti[1]; dengue[4];  
 Other categories: WHO; Malaria; Pharmaceuticals;

NEW DELHI: is turning out to be the fastest mosquito-borne disease this As per municipal data released on Monday, 75 people have been affected by malaria as on July 21 this year. It is higher than the number of people affected by dengue (43) and chikungunya (34), the two other mosquito-borne diseases, in the said

**Tools**

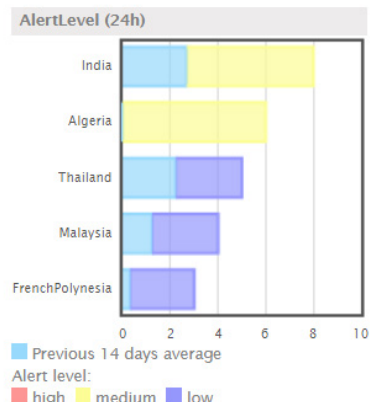
Tuesday, July 24, 2018  
 11:40:00 PM CEST

RSS | MAP

subscribe | manage

current page | all pages

info | definition



[illegible]

# MyNews: Hashtags



**BREAKING NEWS** 30 Jan 07:22: "Le volet agricole de l'accord avec le Mercosur pas acceptable en l'état" (Charles M...)

session started: 30 Jan 2018, 11:43 [Logout](#)

[Chat](#) [Sign in with Twitter](#)


## My News

1247 / 1249 Articles

Content shown for the following languages: af,am,ar,be,bg,bs,ca,cs,da,de,el,en,es,et,fa (50 more)

[Home](#) [Add a new channel...](#) [Refinement filters...](#) [Get Newsletter](#) [Hide similar items](#) [EU Press Releases](#) [Press Agencies](#) [Main Sources](#) [Online Sources](#)

[Set #2](#) > [Brexit](#) >



**Budget airline Ryanair has signed a formal recognition agreement with the British Airline Pilots Association \_ a significant milestone in addressing the company's often testy relations with its employees**

LONDON (AP) — Budget airline Ryanair has signed a formal recognition agreement with the British Airline Pilots Association, a significant milestone in addressing the company's often testy relations with its employees. The voluntary agreement means that union representatives will be involved in....

Trigger words: British, European Union, Britain, negotiations, European  
ap-en \_PRESS AGENCIES lang:en pub: 30 Jan 2018, 11:42

**Κυβερνητική έκθεση παραδέχεται οικονομικό πλήγμα από Brexit**

Τη μη δημοσιευμένη έκθεση με ημερομηνία Ιανουαρίου 2018 και με τίτλο «Ανάλυση Εξόδου από την ΕΕ – Ενημέρωση Συνόλου του Whitehall» αποκαλύπτει η ενημερωτική ιστοσελίδα BuzzFeed. Συντάχθηκε από αξιωματούχους όλων των υπουργείων για λογαριασμό του Υπουργείου Εξόδου από την ΕΕ.

Trigger words: EE, Brexit  
riknews \_ONLINE SOURCES lang:el pub: 30 Jan 2018, 11:42

**YOU'VE BYN HAD How Labour are repeatedly forced to row back on wild promises Corbyn makes The Labour leader has a history of making bold policy statements only to have them quickly talked down by his spokespeople.**

Confusion over whether compulsory purchases of vacant properties is the latest in a long line of incidents where aides were forced to row back on policy promises. On Sunday's Andrew Marr Show the veteran leftie was asked if homeless people should be handed empty luxury flats, replying said: "We....

Trigger words: EU, UK, Brexit, Theresa May  
s \_ONLINE SOURCES lang:en pub: 30 Jan 2018, 11:44

pages: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

### Twitter hashtags

Analysed tweets from the last 36 hours

## #Brexit

## #StopBrexit

## #FBPE #EU #UK

## #BrexitShambles

## #WATON #Remain

## #UKIP #r4today #ABTV

## #europe #StopBrexitSaveBritain

## #TheresaMay #Britain #bitcoin #Airdrop

## #etherium #cash #etherdelta #btc #Airdrops #ether #bth

## #Article50 #news #NHS #Labour #BBC #Corbyn #FinalSay


## #Tories #Trump #Politics #Tory #ReleaseTheMemo #Brexiters

## #BrexitReality #customsunion #Legatum #SingleMarket #LBC

## #British #Skvoaers #Malta #MavMustGo #Leave #lexit


Items from co

Items about c



European Commission

# MyNews: Most retweeted tweets



**BREAKING NEWS** 30 Jan 11:16: Zone euro: la croissance atteint 2,5% en 2017, au plus haut depuis 10 ans

User: podaval session started: 30 Jan 2018, 11:43 Logout

## My News

1247 / 1249 Articles

Content shown for the following languages: af,am,ar,be,bg,bs,ca,cs,da,de,el,en,es,et,fa (50 more)

Home Add a new channel... Refinement filters... Get Newsletter Hide similar items EU Press Releases Press Agencies Main Sources Online Sources

Set #2 > Brexit >

**Budget airline Ryanair has signed a formal recognition agreement with the British Airline Pilots Association** — a significant milestone in addressing the company's often testy relations with its employees

LONDON (AP) — Budget airline Ryanair has signed a formal recognition agreement with the British Airline Pilots Association, a significant milestone in addressing the company's often testy relations with its employees. The voluntary agreement means that union representatives will be involved in...

Trigger words: British, European Union, Britain, negotiations, European  
ap-en\_PRESS AGENCIES lang:en pub: 30 Jan 2018, 11:42

**Κυβερνητική έκθεση παραδέχεται οικονομικό πλήγμα από Brexit**

Τη μη δημοσιευμένη έκθεση με ημερομηνία Ιανουαρίου 2018 και με τίτλο «Ανάλυση Εξόδου από την ΕΕ – Εννήμερη Σύνοδο του Whitehall» αποκάλυπται η ενημερωτική ιστοσελίδα BuzzFeed. Συντάχθηκε από αξιωματούχους όλων των υπουργείων για λογαριασμό του Υπουργείου Εξόδου από την ΕΕ.

Trigger words: EE, Brexit  
riknews\_ONLINE SOURCES lang:el pub: 30 Jan 2018, 11:42

**YOU'VE BYN HAD How Labour are repeatedly forced to row back on wild promises Corbyn makes The Labour leader has a history of making bold policy statements only to have them quickly talked down by his spokespeople.**


Confusion over whether compulsory purchases of vacant properties is the latest in a long line of incidents where aides were forced to row back on policy promises. On Sunday's Andrew Marr Show the veteran leftie was asked if homeless people should be handed empty luxury flats, replying said: "We..."

Trigger words: EU, UK, Brexit, Theresa May  
... ONLINE SOURCES lang:en pub: 30 Jan 2018, 11:44

pages: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

### Most retweeted tweets

Analysed retweets from the last 36 hours



**James Melville**  
@JamesMelville


A Brexiter recently stated that I am wasting my time calling for a second EU referendum.

He claimed that support for another referendum is dwindling. Rather predictably he added: "you lost, get over it."

To prove he's wrong, please retweet if you want a second EU referendum.

6:31 PM - Jan 24, 2018

524 14,279 4,653



**Donald Tusk**  
@eucopresident

Unless there is a change of heart among our

Items from cc

GB	DE	IT	FR	US	ES	BE	GR	RO	IE	NL	CZ	HU	CY	SK	PL	FI	CH	BG	DK	PT	TR	LU	SE	AT	UA	NO	AL	MT	IR	0	50
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	----

Items about c

GB	BE	DE	CN	IE
----	----	----	----	----

# MyNews: Most Active Users



**BREAKING NEWS** 11 Mar 17:16: Taxes sur l'acier : Trump pose ses exigences, l'UE est surprise

User: podaval session started: 12 Mar 2018, 10:19 Logout

## My News

### Brexit

108 / 1247 Articles

Content shown for the following languages: af,am,ar,be,bg,bs,ca,cs,da,de,el,en,es,et,fa (50 more)

Home Add a new channel... Refinement filters... Get Newsletter Source list Hide similar items EU Press Releases Press Agencies Main Sources Online Sources

TEST > Brexit >



km-DNS-SE\_MAIN SOURCES lang:en pub: 12 Mar 2018, 00:01

20 29 5 13

#### Sweden cannot afford to wait for Brexit negotiation (opinion article)

Paula Röttorp writes in an opinion article in Svenska Dagbladet that the Brexit negotiations are moving too slowly, and that the financial sector in London can wait no longer. Companies are acting on their plans to invest in another EU country to enable their operations after Brexit. Likewise, Sweden cannot afford to wait for the end of the negotiations. It should focus on attracting the investments that are aimed at EU countries and investigating which rules should apply to companies or parties from a third country, focusing on the United Kingdom.

Trigger words: EU, Brexit, negotiations  
km-DNS-SE\_MAIN SOURCES lang:en pub: 12 Mar 2018, 07:58

1 7 2 2

#### Swedish Prime Minister Lofven meets with Luxembourg Prime Minister Bettel

News agency TT reports that a potential EU-US trade war was the focus of Swedish Prime Minister Lofven's meeting with Luxembourg Prime Minister Bettel. The two leaders also discussed the Multiannual Financial Framework (MFF). Mr Lofven stated that a higher EU budget is not acceptable for Sweden, as all of its reform funds would have to go to the EU. If the EU wants to focus more on issues such as the fight against terrorism, it will have to reduce structural and agricultural funds, said Mr Lofven. Moreover, Mr Lofven and Mr Bettel discussed Brexit, and Mr Bettel stated that there are no winners of Brexit and that the negative outcome must be mitigated.

Trigger words: EU, Brexit  
km-DNS-SE\_MAIN SOURCES lang:en pub: 12 Mar 2018, 07:56

2 14 2 3

#### Interview with Manuel Navarrete: "The return of mass jihadists that we feared has not occurred"

In an interview by ABC with Manuel Navarrete, Head of the European Anti-Terrorist Center, he talks about jihadism in Europe. He comments that, "In the EU we were expecting a strong return of potential terrorists from Syria and Iraq since 2016 and, therefore, we maintain a very intense monitoring because we thought that the reduction of territory under the control of the Islamic State would produce an avalanche of returns to Europe. However, the countries do not inform us that this is happening." When asked about if the Brexit will have negative effects, he states that it is necessary to "maintain the best possible levels of cooperation".

Trigger words: EU, Europe, Brexit, European  
km-DNS-ES\_MAIN SOURCES lang:en pub: 12 Mar 2018, 07:55

#### Twitter users

Analysed tweets from the last 36 hours

**Andrew Adonis**  
@Andrew\_Adonis  
Labour peer, 'Twisted Weasel' (Nigel Farage). Once Transport Secretary, Schools Minister & NIC Chair. Author '5 Days in May' & 'Education, Education, Education'

Followers: 59605  
Following: 786

**Vince Cable**  
@vincecable  
MP for Twickenham. Leader of Liberal Democrats.

Followers: 137302  
Following: 3900

**Socialist Voice**  
@SocialistVoice  
Labour Party & Jeremy Corbyn Supporter | Social Justice & Disability Rights Campaigner | LGBTQIA+ | Brexiteer | Democratist  
Socialist | #FreePalestine

Followers: 52480  
Following: 49319

**A C Grayling** #FBPE #ABTV #WATON #OFOC  
@acgrayling  
Philosopher, Author @NCHLondon

Followers: 47555  
Following: 1821

**Nick Reeves - #FBPE**  
@nickreeves9876  
Each day that passes makes clearer that implementing #Brexit will be immensely destructive to our country & its people.

Followers: 21135  
Following: 8341

**Tim Walker**  
@ThatTimWalker  
A point of view mandrake@thenewseuropean.co.uk

Followers: 23353  
Following: 898

109 103 1960 quote 151 17

#### Sources

##### Items from country



##### Items about country



#### Attributes

EU  
EURO and Economic and monetary union





European  
Commission

[illegible]

# EMM News Desk

Workspace - NewsDesk - Mozilla Firefox

https://newsdesk.emm4u.eu/NDI/workspace.html?c=1428793153960

Default Filter OFF R.0.8.0.0 sally.brown

**Latest News** (Latest News) Total Articles:4

**1. ANTI-CORRUPTION REPORT (2)**

Parlamentswahl in Tschechien: Der Berlusconi von Prag (Parliamentary elections in Czech Republic: the Berlusconi of Prague) [tsz](#)

Czech left set to win election but new parties cloud outlook [reuters](#)

**2. FIGHT AGAINST FRAUD (2)**

Mikhail Khodorkovskiy "a dû choisir entre l'exil et la prison" (Mikhail Khodorkovskiy had to choose between exile and prison) [LePoint](#)

Livstid för toppolitiker står fast (Life for top politicians stand) [Sydsvenskan](#)

**Feeds**

- Medical
  - EbolaHemorrhagicfever
- All Diseases
- Security
  - Crime
    - CercaTrove
    - Drugs
    - FinanciaEconomicCrime
    - ForgeryMoney
    - HumanTrafficking
    - InformationSecurity
    - OLDCyberCrime
- Saved Searches
- User defined Feeds
  - sally.brown

**DEM0 > General > Security > Crime > Drugs >**

**Chart** Local Filter >

Nov '14 Dec '14 Jan '15 Feb '15 Mar '15 Apr '15

**La migración ilegal es "insostenible": primer ministro de Bahamas - (illegal migration is 'unsustainable': prime minister of Bahamas)**

**telam** 12 Apr 2015 00:36, **Language: es es fr it de zh**  
 El primer ministro de Bahamas, Perry Christie, manifestó su preocupación este sábado en la VII Cumbre de las Américas, por la migración ilegal que vive actualmente su país y dejó claro que no está "pidiendo disculpas por las acciones que hemos tomado para devolver a estos migrantes". (The prime minister of the Bahamas, turn Perry Christie, expressed its concern this Saturday in the 7th summit of the americas, by illegal migration currently facing their country and made it clear that it is not "by apologising for the actions we have taken to restore these migrants".)

**(Duplicate) Detienen a jefe de banda internacional de narcotráfico requerido por EE.UU. - (Stop to head of international band narcotrafic required by usa)**

**noticias-teca** 12 Apr 2015 00:42, **Language: es es fr it de zh**  
 La Policía Antinarcóticos de Colombia detuvo en la ciudad de Barranquilla (norte) a Carlos Enrique Samuets Durán, alias "Samy", supuesto jefe de una organización internacional dedicada al narcotráfico y pedido en extradición por EE.UU., informó hoy la institución. (The colombian anti-drug police arrested in the city of Barranquilla (north) to Carlos Enrique Samuets Durán, alias "Samy", head of an international organisation devoted to drug trafficking and requested in extradition by the usa, reported today the institution.) [noticia-teca](#)

**Soutien canadien de 156 millions de dollars pour l'amélioration de la santé, de la sécurité et... - (Canadian support of 156 million dollars for improving health, safety and...)**

**monarca** 12 Apr 2015 00:38, **Language: fr es fr it de zh**  
 Montréal, 11 avr. 2015 (MAP) - Le Premier ministre canadien Stephen Harper a annoncé, samedi à Panama City, le soutien de plusieurs initiatives en matière de santé, de sécurité, de gouvernance démocratique et de gestion frontalière dans les pays d'Amérique latine et aux Caraïbes, d'un montant global de 156 millions de dollars. (Montréal, 11 avr. 2015 (MAP) - the canadian prime minister Stephen Harper announced Saturday in Panama City, the support of several initiatives in health, security, democratic governance and border management in the countries of latin america and the caribbean, a total amount of 156 million dollars.)

**Saisie de 600 kilogrammes d'héroïne dans l'est de la Turquie - (Seised 600 kg of heroin in eastern turkey)**

**monarca** 12 Apr 2015 00:38, **Language: fr es fr it de zh**  
 Istanbul, 11 avr. 2015 (MAP) - Les services de police turcs ont procédé à la saisie samedi d'une quantité de 600 kilogrammes d'héroïne dans la province orientale d'Elaçiz, rapporte la presse locale. Des éléments de la police ont intercepté un camion transportant la drogue qui provenait de la province... (Istanbul, 11 Avr. 2015 (MAP) - the police turks have made the seizure Saturday for a quantity of 600 kilograms of heroin in the eastern province of Elaçiz, reported the local press. Elements of the police have intercepted a truck carrying drugs which stemmed from the province.)

**Detienen a jefe de banda internacional de narcotráfico requerido por EE.UU. - (Stop to head of international band narcotrafic required by usa)**

**noticias-teca** 12 Apr 2015 00:37, **Language: es es fr it de zh**  
 Bogotá, 11 abr. - La Policía Antinarcóticos de Colombia detuvo en la ciudad de Barranquilla (norte) a Carlos Enrique Samuets Durán, alias "Samy", supuesto jefe de una organización internacional dedicada al narcotráfico y cuya extradición fue pedida por Estados Unidos, informó hoy la institución. (Bogotá, 11 Apr. - the colombian counter-narcotics police arrested in the city of Barranquilla (north) to Carlos Enrique Samuets Durán, alias "Samy", head of an international organisation devoted to drug trafficking and whose extradition was requested by the United States, reported today the institution.) [noticia-teca](#)

**(Duplicate) Barrueros: no vamos a ser detenidos en el extranjero - (Barrueros: we won't be arrested abroad)**



**Presidential Wires**  
28 Apr 2015 - Edition 08:00

## INDEX

EU-Ukraine Summit in Kiev	1
Greece	7
Economy / ECB	24
Financial and Oil Markets	25
Financial Services and Capital Markets	29
Migration	32
Fight Against Terrorism / Security Policy	35
UK elections campaign	37
Russia	42
Member States	43
Nepal - earthquake	44
Middle East	45

© Disclaimer: The content of this document is protected by copyright law. Only a printed copy of it may be used for internal working purposes. It is forbidden to fax, to scan, to save or to share the content or part of it on your computer or any other device for work offline, or to supply an electronic copy of it to any other person.

Powered by JRC G2 and COMM A3

Internal Document



European  
Commission

# EMM Mobile



# End-to-End solution

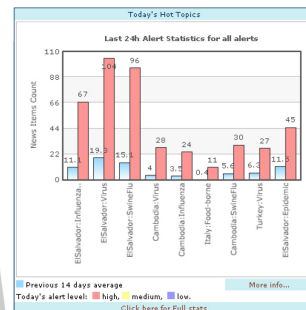
## EMM (Europe Media Monitor)



- 8.000 News Sites
- 300.000 articles per day
- 70 Languages
- 3000 Categories/Topics
- 60000 keywords
- Runs 24/7
- Visitors 25000/day

### Domains:

- Border Security, Cybercrime & Fighting Crime
- Socio Political Event Monitoring
- Public Health Threats & Food Safety
- Conflict Early Warning
- Science and the Citizen



# Event Metadata Extraction

**“To detect automatically who/what did what to whom when, why, with what instruments and determine the consequences”**

- Information Extraction Task as opposed to Information Retrieval
- Extracting information in order to fill slots of database-like structures
- Try to maintain EMM approach of being as much as possible language agnostic “syntactic lightweight”

“Baghdad 12/01/2010 American soldiers involved in a firefight shot dead five Iraqi insurgents today during a routine patrol in Baghdad, 2 US soldiers were slightly injured with minor wounds. The firefight started after...”

Slot Name	Value
TYPE:	Shooting
PERPETRATOR:	American Soldiers
DEAD	Iraqi Insurgents
DEADCOUNT	5
INJURED	US Soldiers
INJUREDCOUNT	2
LOCATION :	Baghdad
TIME:	12.01.2010

### Violent Crisis Event Types



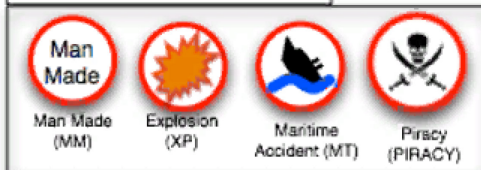
### Natural Disaster Crisis Event Types



### Other Crisis Event Types



### Man Made Disaster Crisis Event Types



Google Earth



European Commission

Places

My Places

EMM Layers

Key to Symbols

NEXUS-Crisis Events

Live in Real Time

English Events

French Events

Italian Events

Spanish Events

Russian Events

Arabic Events

Portuguese Events

Turkish Events

Last Week

NEXUS Maritime

Medisys-NEXUS (Medinex)

24 hour EN

7 Day EN

24 hour FR

7 Day FR

EMM Moderated Events

News Clusters

General Alerts

NewsBrief BNS

Events

Layers

Primary Database

Borders and Labels

Places

Photos

Roads

3D Buildings

Ocean

Weather

Gallery

Global Awareness

More

Terrain

More than 100 animal rights activists protesting against animal cruelty with a mock bullfight on the eve of Pamplona's famous San Fermín festival throughout the narrow, cobblestone streets of the city are the main feature of the news.

Slot Name  
 TYPE:  
 SUBTYPE:  
 DATE:  
 LOCATION:  
 PERPETRATOR\_DESCRIPTOR:  
 event-location:  
 SNIPPET:  
 articles:

Activists  
 "blood"

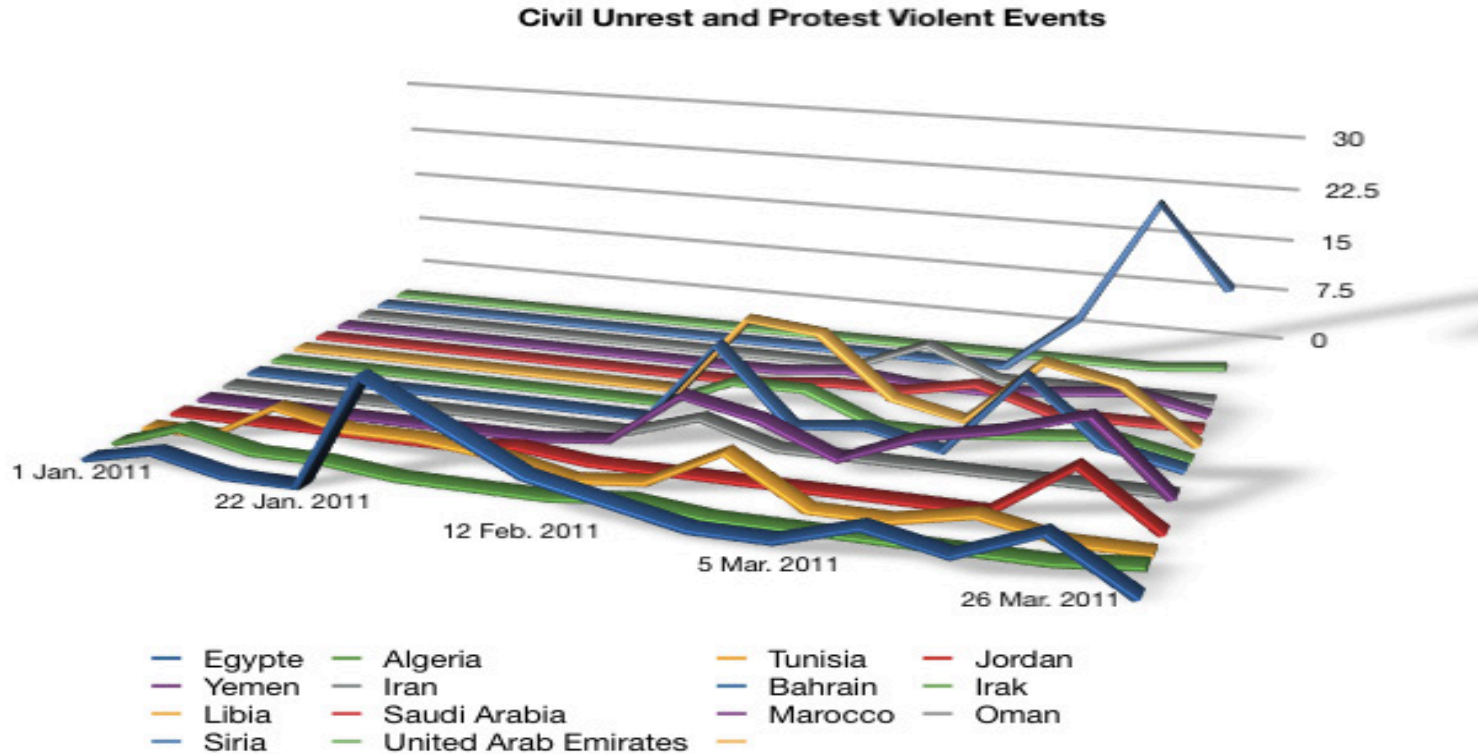
Valencia  
 Po  
 Public Demonstration  
 2018-07-05  
 Pamplona  
 Pamplona:Navarra:Navarra, Comunidad Foral De:Spain[42.8133,-1.65298]  
 Activists protest against bullfight in Spain, Mayawati meets ...  
 5

## Fire crews battle Aberdeen wildfire

Image caption The wildfire is covering an area measuring about 50m by 30m. Firefighters are dealing with a gorse fire at an Aberdeen golf course. Two fire engines and a wildfire unit were called to Links Road, close to the Royal Aberdeen course, at about 04:40 on Thursday. [...More](#)

Slot Name Value  
 TYPE: Social  
 SUBTYPE: Wildfire  
 DATE: 2018-07-05  
 LOCATION: Aberdeen  
 event-location: Aberdeen:Grampian:Scotland:UK[57.1408,-2.13011]  
 SNIPPET: ...40am this morning at Royal Aberdeen Golf Club in Bridge of Don. A spokesman said: "Two units attended the ...  
 articles: 3

# Basic Aggregation Analysis over Space and Time



Crisis Events	en,fr,it,es,pt,ru,ar,tr,bg[zh]
Border Security Events	fr,it,es,ar,(en,ru)*
Medical Events	en,fr,tr

\*1500 moderated events were imported into the Frontex Eurosur system, the event extraction and moderation systems were also used as inspiration define the policy for Eurosur (exchange of border security related events between Member States)

# Event Moderation

Search

Countries:  Languages:

Types:  Date from:  Date to:

Status:  Severity:  Sources:  Dead:  Injured:

Search events

Events List

Title	Pub Date	Lang	Type	Article	Severity	Dead	Injured	Country
⊕ Somalia's al Shabaab says has stormed military base i...	23 Jul 18	en	🚩	8	Not Set	27	7	SO
⊕ 11 Killed In Attack On Taxi Drivers In S'Africa	23 Jul 18	en	🚩	5	Not Set	11	4	ZA
⊕ Afrique - 11 jihadistes tués par l'armée malienne	23 Jul 18	fr	🚩	4	Not Set	12	0	ML
⊕ السيطرة على حريق نشب داخل مخزن الحبوب بمصر القديمة دون إصابات	23 Jul 18	ar	🚩	6	Not Set	3	0	EG
⊕ مصرع 11 ارهابيا على ايدي الجيش الليبي	23 Jul 18	ar	🚩	7	Not Set	11	0	ML
⊕ الطور على فلسطينيين من خان بولس متوقفين بشقتهم في الجزائر	23 Jul 18	ar	🚩	7	Not Set	1	0	DZ
⊕ مصدر: ترحيل منتج لمحكمة القاهرة لإجراء المعارضة على أحكام صادرة ضده	23 Jul 18	ar	🚩	1	Not Set	0	0	EG
⊕ Report: Islamic State group leader killed in Egypt's...	23 Jul 18	en	🚩	1	Not Set	1	0	LY
⊕ التفاهة: تفتح مكتب جمال عبدالناصر مجالا للجمهور انتقالا بأورة يوليو	23 Jul 18	ar	🚩	1	Not Set	0	0	EG
⊕ La photo du jour	23 Jul 18	fr	🚩	1	Not Set	0	0	MA
⊕ Condutores são julgados hoje em Luanda	23 Jul 18	pt	🚩	1	Not Set	0	0	AO
⊕ 8 worshippers dead in Konduga attack	23 Jul 18	en	🚩	1	Not Set	0	0	NG
⊕ BREAKING: 8 worshippers dead in Konduga attack	23 Jul 18	en	🚩	1	Not Set	8	3	NG
⊕ Cameroun: l'ambassadeur du Sénégal a tiré sa rév...	23 Jul 18	fr	🚩	1	Not Set	1	0	CM
⊕ Dans le Cameroun anglophone, un prêtre assassiné	23 Jul 18	fr	🚩	1	Not Set	1	0	CM
⊕ Afrique du Sud : onze chauffeurs de taxi abattus à ...	23 Jul 18	fr	🚩	1	Not Set	0	0	ZA

Displaying events 1 - 30 of 38797

Event Details

Save changes < Prev Next >

Title: 11 Killed In Attack On Taxi Drivers In S'Africa

Snippet: Gunmen in South Africa ambush taxi drivers; 11 killed ...

Description: Eleven taxi drivers have been shot dead in South Africa after gunmen opened fire on a minibus carrying members of a taxi drivers' association, police have said. Police spokesman Jay Naicker said on Sunday the drivers were on their way home from the funeral of a colleague on Saturday evening when their vehicle was ambushed in KwaZulu-Natal province.

Link: http://139.191.34.50:8181/Nemo/hemo/story/leadership-8cbc769d4102d01337c39fe1ef62422

Country: South Africa Language: English

Pub. Date: 23 Jul 2018 Severity: Not Set

Dead: 11 Injured: 4

Type: Shooting

Slots	
Name	Value
generated	Mon, 23 Jul 2018 10:42:56 CEST
dead	11
injured	others
perpetrator	gunmen
targets	minibus
firstitem	2018-07-23T05:37+0200
lastitem	2018-07-23T09:01+0200

Sources

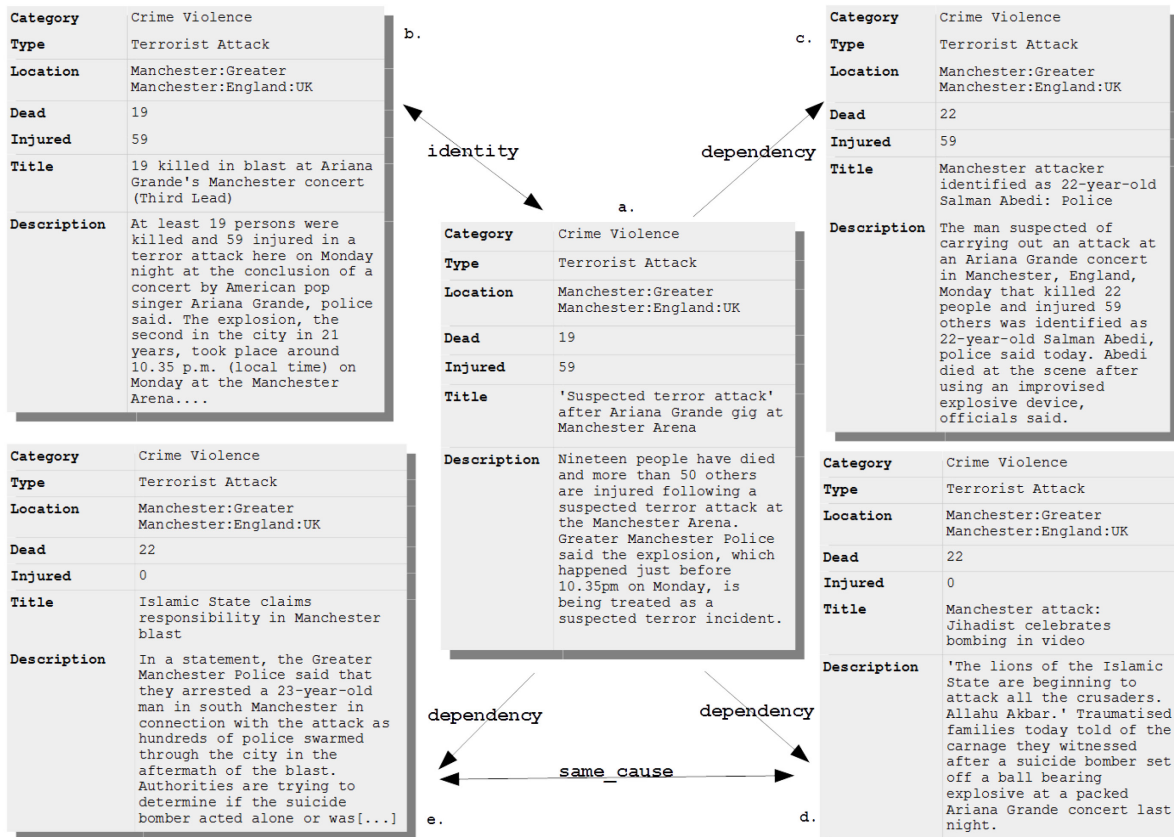
Title	Pub Date	Lang
⊕ Gunmen in South Africa ambush taxi drivers; 11 killed	23 Jul 18 09:01 +0200	
⊕ Eleven taxi drivers shot dead after attending funeral in ...	23 Jul 18 07:38 +0200	
⊕ 11 Killed In Attack On Taxi Drivers In S'Africa	23 Jul 18 07:21 +0200	
⊕ South Africa shooting: Eleven taxi drivers killed in amb...	23 Jul 18 05:44 +0200	
⊕ 11 South African Taxi Drivers Killed in Ambush	23 Jul 18 05:37 +0200	

Map

Page 0 of 1

No articles to display

# Event Linking



Features with high discriminative power for event linking:

- Named-Entity Overlap
- Weighted Content Word Overlap
- Hypernym Overlap
- Location Information



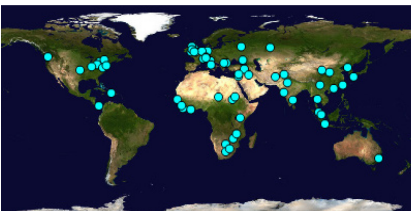
# Importance of Multilinguality



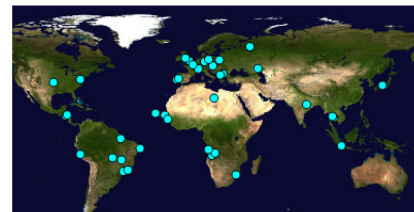
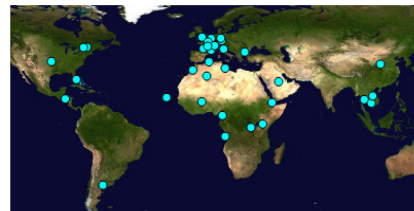
*Italian - German*



*English - French*

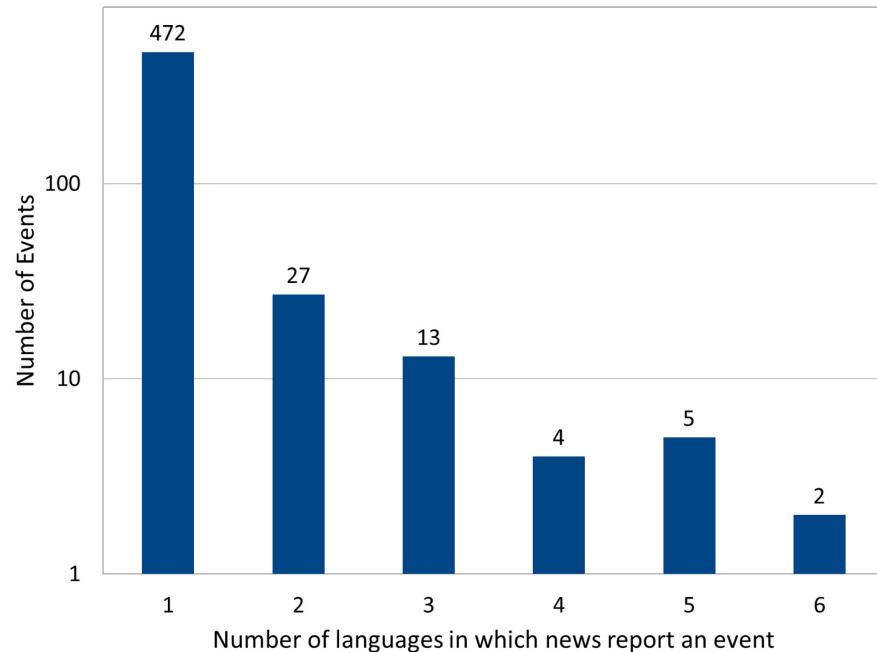


*Spanish - Portuguese*



# Importance of Multilinguality

- A random selection of 523 events from 22 non-consecutive days in 2010 (6 languages)
- **~10% reported in >1 language**
- **~67% reported in non-English news only**
- **~2% reported in non-English news are reported in >1 language**



# Importance of Multilinguality

The screenshot displays a web application interface for 'FRONTEx REAL-TIME NEWS EVENT EXTRACTION'. On the left, there is a search bar and a 'Places' sidebar with a tree view of event categories: Portuguese Events, Turkish Events, 7 Days, English Events (selected), English Events (N...), English Events (P...), French Events, Italian Events, Spanish Events, Russian Events, Arabic Events, Portuguese Events, and Turkish Events. The main area features a map of Europe with several event markers, including a red circle with a scale icon labeled 'Evil', a red circle with a 'VOLUNTEER' sign, and a red circle with a question mark labeled 'UNDER'. A detailed popup window for an 'Arrest' event is open, showing the following information:

**Arrest**  
**Smuggling tunnel found under EU border with Ukraine**

Two arrested after police uncover underground train used to smuggle people and contraband cigarettes into EU A 700-metre tunnel with its own train used for smuggling has been discovered running between Slovakia and Ukraine, the Slovak government said on Thursday. [...More](#)

Slot Name	Value
TYPE:	Crisis
SUBTYPE:	Arrest
DATE:	2012-07-19
LOCATION:	Ukraine
COUNTRY:	Ukraine
COUNTRY ID:	UKR
ARRESTED:	Two, more than 2 (-1)
NUMBER_ARRESTED:	2 (-1)
SNIPPET:	...into the EU, bypassing customs duties. Police seized more than 2.5m contraband cigarettes in 13,100 cartons." ...
twitterlinks:	<a href="http://www.ua-reporter.com">www.ua-reporter.com</a> , <a href="http://www.heraldsun.com.au">www.heraldsun.com.au</a>

The bottom of the screen shows a 'Layers' panel with 'EMM' and 'unbeds' selected, and a footer with logos for the European Commission and Google.

# Importance of Multilinguality

UAR  
UA-REPORTER.COM  
Репортер с Вами уже 10 лет!

25 Июля 2012 Среда

ВОЙТИ | РЕГИСТРАЦИЯ  
Сделать стартовой!  
Добавить в Избранное!

RSS / Экспорт


ГЛАВНАЯ БЛОГИ RU UA EN РЕКЛАМА

Вся лента новостей Все новости за сегодня

Горячий телефон UA-Reporter.com 0959115248 . Вы можете сообщить нам новость и прислать фото - MMS.

**В Ужгороде нашли дом, с которого начинается тоннель в Словакию (ФОТО, ВИДЕО)**

19.07.2012 (16:43)



**В Ужгороде по улице Запорожская нашли подземное сооружение**

Сегодня пограничники показали некоторым журналистам дом в Ужгороде, с которого начинается тоннель в Словакию. Несмотря на современную технику, пограничники не смогли обнаружить этот тоннель только из-за того, что подземное сооружение находится на глубине 5-6 метров.

Об этом в комментарии журналистам сообщил Виктор Потетенин, временный и.о. начальника Чопского пограничного отряда.

По его словам, тоннель простирается на 700 метров, - это первый подобный случай в Украине.

Поиск  
Google Пользователь Поиск

Отправить новость, фото, видео

Резонанс

Это читают Это комментирую

**ДТП в Ужгороде: два "Мерса" не поделили один перекресток (ФОТО)**  
Просмотров: 2,668

**В закарпатском лесу задержали вооруженных до зубов бандитов**  
Просмотров: 2,211

**Ужгород уже давно стал городом миллионеров**  
Просмотров: 1,677

**Закарпатская целительница изгоняет глисты и лечит руками (ФОТО)**  
Просмотров: 1,505

**На Закарпатье УРАЛ перевернулся и свалился в пропасть, есть жертвы**  
Просмотров: 1,316

**Мукачевский ГО УМВД продолжает розыск преступников! (ФОТО)**  
Просмотров: 1,270

**Закарпатская милиция считает, что поймала дерзкого наркодилера**  
Просмотров: 1,132

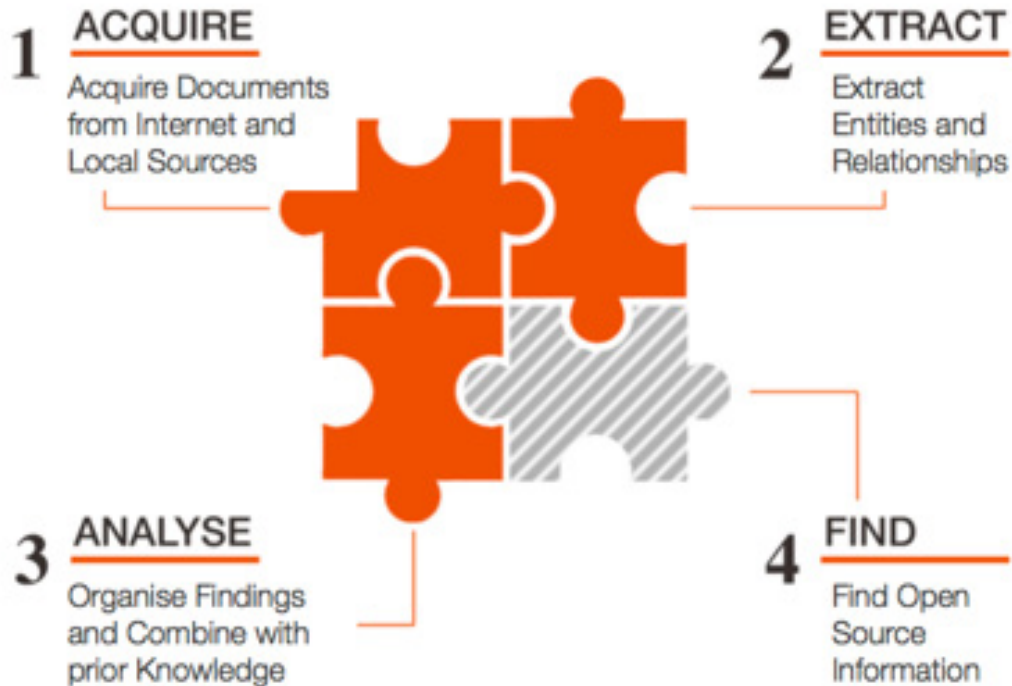
**5 тысяч баксов - и нелегал попадает из Закарпатья в Словакию, но не всегда**

Note that the site is not in English even though the reported event was.



European  
Commission

# EMM Open Source Intelligence Suite



# EMM OSINT Suite: *Acquire Documents*

- **Web search**
  - interface for exploiting results returned by most popular search engines
  - facility to integrate new search engines
- **Crawl** of targeted web sites
- Import of **local document collections**
- **Conversion of documents into plain text**
  - HTML, PDF, Microsoft Office and Open Office
- **Creation of metadata**
  - Unique File ID, Acquisition Source, Language ID, ...

# EMM OSINT Suite: *Extract Information*

- **Extraction of "generic" built-in entity types**
  - Person, organisation and location names
  - Time and numeric expressions
  - Identifiers (e.g., email/postal addresses, URLs, IBAN/VAT numbers, phone numbers, currency expressions, etc.)
- **Extraction of user-defined entities**
  - Lists of known entities and their variants
  - Regular expressions
- **Categorisation of documents** (similar as in EMM/Medisys)

# EMM OSINT Suite: *Analyse Data*

- Viewing extracted entities in **Entity Browser**
  - links to documents in which they appear
  - frequency-based list of co-occurring entities
- **Creation of entity graph**
  - based on co-occurrence information
  - to derive intelligence about relationships which are not necessarily obvious
- **Creation of reports**
  - Predefined (e.g., related entities, list of URLs, etc.)
  - Customised by the user

EMM OSINT Suite 2.2.0 (64-bit)

File Edit Project Suite Web Window Help Debug

Workspace Navigator Entity Browser

Analysis

Bookmarks

Bing\_2013-07-30\_11-53

- Ayman al-Zawahiri
- Aforismi di Ayman Al-Zawahiri
- Ayman al-Zawahiri - Wikipedia
- Ayman al-Zawahiri - Wikipedia, woln...
- Al Jazeera English - News
- Al-Qaeda, Al-Shabab officially merge, Ayman al-Zawahiri says ...
- Al Qaeda, al-Zawahiri invita gli egiziani a...
- Al Qaeda, il nuovo capo è al Zawahiri...
- Al Qaeda, il nuovo leader Zawahiri...
- Al Qaeda, Osama bin Laden, Ayman al-Zawahiri - 9/11 Encyclopedia ...
- Al Qaeda: Al Zawahiri nuovo capo Gli Usa...
- Al Qaeda: Ayman al Zawahiri è il nuovo...
- Al Qaeda's New Leadership: Ayman al-Zawahiri (washingtonpost.com)
- Al-Qaeda Chief Ayman Al-Zawahiri Calls On Muslims To Support ...
- Al Qaeda chief Ayman al-Zawahiri in Pakistan: Clinton - Khaama ...
- Al Qaeda comeback - The Daily Beast
- Al Qaeda contro Obama - Al Zawahiri: servo...
- Al-Qaeda Emir Ayman Al-Zawahiri On Coup In Egypt: "The Islamic ...
- Al-Qaeda leader, Ayman al-Zawahiri, sends a message to - YouTube
- Al-Qaeda Leader, Sheikh Jihad Ayman Al-Zawahiri calls for Ummah to ...
- Al Qaeda leader Ayman al Zawahiri in Al-Pak region: US | NDTV.com
- Al Qaeda leader Ayman al Zawahiri tells Syrians to unite against ...
- Google\_2013-07-30\_11-51
- Al-Nusra Commits to al-Qaida, Deny Iraq Branch 'Merge' — Naharnet
- Al-Qa'ida head Ayman al-Zawahiri posts video call for Syrians to ...
- Al-Qaeda: The Next Goal Is to Liberate Spain from the Infidels ...
- Al-Qaeda's Ayman al-Zawahiri: Osama bin Muslim Brotherhood ...
- Al-Qaeda's New Boss: The U.S. Hunt for al-Zawahiri Begins - TIME
- Al Qaeda #2: We'll Attack Iran | Danger Room | Wired.com
- Al Qaeda appoints Ayman al Zawahiri as new leader - NYPOST.com
- Al-Qaeda boss Zawahiri urges support for Somalia rebels: News ...
- Al-Qaeda chief urges Saudis to rise up | thetelegraph.com.au
- Al Qaeda in Iraq publicly rebuts al Qaeda's leader Ayman al-Zawahiri
- Al-Qaeda Leader, Ayman al-Zawahiri, Calls on Muslims to Unite in ...
- Al Qaeda Leader Ayman Al Zawahiri: Latest News, Photos, Videos ...
- Al-Qaeda Leader Ayman Al-Zawahiri Calls Upon Muslims To Join ...
- Al Qaeda leader Ayman al-Zawahiri - Globalist Report
- Al Qaeda leader Ayman al Zawahiri is hiding in Egypt says gossip ...
- Al Qaeda Leader Ayman al-Zawahiri Urges For More Protests, Holy ...

Search Tools Reports

Bing

Blekkio

Yahoo

Google

Al Qaeda, il nuovo leader Zawahiri annuncia: "Continueremo la guerra santa contro USA e Israele" | Focus On Israel

Al-Qaeda chief urges Saudis to rise up | thetelegraph.com.au

http://www.focusonisrael.org/2011/06/17/al-qaeda-zawahiri-guerra-santa/

focus on ISRAEL

Antisemiti Disinformare Gaza West Bank

Al Qaeda, il nuovo leader Zawahiri annu  
"Continueremo la guerra santa contro U

Emanuel Baroz  
17 giugno 2011

Hi piace 38 Tweet 0

Terrorismo – Al Zawahiri sul trono del terrore: avanti con Jihad

L'ascesa al vertice di Al Qaida annunciata in un comunicato

DUBAI, 16 giu. – Il medico egiziano Ayman al Zawahiri è il nuovo capo di al Qaida, pronto a proseguire la jihad contro americani e israeliani. L'annuncio dell'incoronazione del successore di Osama bin Laden alla guida dell'organizzazione terroristica islamica più temuta al mondo, è stato dato con un comunicato diffuso oggi sui principali siti islamisti. Considerato il "cervello" di Al Qaida, Ayman al Zawahiri – che compirà 60 anni fra pochi giorni e sulla cui testa pende una taglia da 25 milioni di dollari del Dipartimento di stato americano – è stato designato "dopo consultazioni" dal "comando generale di al Qaida".

Sotto la guida del suo nuovo leader, Al Qaida si impegna a proseguire la guerra santa contro gli Stati Uniti e Israele. La rete terroristica porterà avanti "la jihad contro gli

azione  
sori dalle

alle forze  
occhia da  
due figlie

FOCUS ON ISRAEL piace a 3.357 persone.

Facebook sociale di Facebook

Per noi, popolo ebraico, questa risoluzione è fondata sull'odio, sulla falsità e sull'arroganza ed è priva di qualunque valore morale o legale. Per noi, popolo ebraico, questo non è altro che un pezzo di carta e noi lo tratteremo così" ["Il sionismo è una forma di razzismo e di discriminazione razziale" - Risoluzione ONU Novembre 1975]

Ultimi Commenti Tag Cloud

66 Emanuel Baroz  
Champagne per Priebe e i soliti ebrei soli a

The original web page can be accessed by double clicking on the desired bookmark

The links of the search results are stored under the "Bookmarks" folder. Each bookmark contains URL, timestamp and search engine used.

EMM OSINT Suite 2.3.1 (64-bit) EVALUATION ONLY - PLEASE OBTAIN A VALID LICENSE

File Edit Project Web Window Help Debug

Workspace Navi... Entity Browser Category Brow...

Select Project: CaseProjectTerrorists

All entities of project

Entities	freq	docs
toponym		
person		
Ayman al-Zawahiri	434	57
Bin Laden	102	16
Osama bin Laden	96	30
Ayman Al-Zawahiri	80	15
Mohammed	52	19
Tempest Publishing	36	1
Al Zawahiri	28	11
Al Hilal	26	6
Tova Dvorin	26	14
Ayman Muhammad Ri	25	16
Ayman al-Zawahri	23	9
Usama bin Laden	21	6
Abu Bakr al-Baghdadi	20	10
Abu Bakr	20	9
L. Mansfield	19	1
Abu Ghaith	17	2
counterjihadreport	16	
www.theguardian	1	
Ibrahim	17	10
Osama Bin Laden	15	6
Thomas Joscelyn	14	4
Anwar Sadat	14	10
Sayyid Qutb	12	7
Ayman Al	12	3
Bakr al-Baghdadi	11	8
You Might	10	2
Abd Al-Nasser	10	2
Mohammed Rabie	9	3

Search Tools Reports

Bing Yahoo Google Google Scholar

smallwarsjournal.com.blog.journal.docs.temp.405.singh.pdf

counterjihadreport.com.tag.ayman.al.zawahiri.html

News ~ Resources ~ Activism Search Main menu. Tag Archives: [Ayman al-Zawahiri](#) Post navigation. Posted on September 8, 2014 by Al Qaeda chief [Ayman al-Zawahiri](#). Brian Fairchild: On September 4, 2014, al Qaeda leader [Ayman al-Zawahiri](#) announced the creation of a new al Qaeda organization called – Qaedat al Jihad in the [Indian](#) Subcontinent (QJIS). The mission of the new affiliate is to consolidate the jihad movement in [Kashmir](#), [Bangladesh](#), [Myanmar](#) (formerly Burma), and India, an area that has heretofore been an operational backwater for al Qaeda. This new al Qaeda organization is headed by Asim Umar, a former [Pakistani](#) Taliban commander, which may be the key to understanding this new development, and an indicator that Zawahiri is planning to attack the [United States](#), and has the capability to do so. The announcement comes at a time when Zawahiri's ideological and operational leadership over the international jihad movement is being fundamentally challenged in an actual jihadi civil war between his Syrian affiliate, the [Nusra Front](#), and [Abu Bakr al-Baghdadi](#)'s Islamic State of Iraq and [Syria](#) (ISIS). Clashes between the [Nusra Front](#) and [ISIS](#) began in early 2013, but increased when al [Baghdadi](#) publicly claimed that the [Nusra Front](#) was part of [ISIS](#) and would be merged with it. Al Nusra's commander [Abu Muhammad al-Jawlani](#), however, refused to merge, and the dispute became increasingly violent. Jawlani subsequently appealed to Zawahiri to arbitrate the conflict. Zawahiri sided with al Nusra, and ordered al [Baghdadi](#) to dissolve [ISIS](#) and return to Iraq. Al [Baghdadi](#), however, dismissed Zawahiri's ruling, routed al Nusra from the Syrian city of ar-Raqqah and took control of 80 percent of its foreign fighters. [ISIS](#) then swept through [Syria](#) and Iraq taking control of the cities of [Fallujah](#) and [Ramadi](#) in the first few days of January 2014. In February 2014, as a direct result of his insubordination and the brutality of his campaign, Zawahiri officially and publicly disowned [ISIS](#). In response, al [Baghdadi](#) disdainfully stated "I have to choose between the rule of God and the rule of Zawahiri, and I choose the rule of God", and he continued his conquest. He took [Mosul](#) in early June, and then, on June 29, 2014, he announced the creation of the Islamic "caliphate" naming himself as the new leader of all Muslims and calling for all jihad groups to obey him and gather under his banner, and he changed the name of his organization from [ISIS](#) to the Islamic State. Al [Baghdadi](#)'s creation of the "caliphate" is central to understanding the degree to which he has undermined Zawahiri's prestige and authority because it brings to fruition the goal that Zawahiri himself explicitly defined as vital for the success of the jihad movement, or illustrated in the following quote from his book [Knights under the Prophet's Banner](#), published in 2001: "Armies achieve victory only when movement will not triumph against the world coalition unless it possesses an Islamist base in the state of caliphate in the heart of the Islamic world." That the prized "caliphate" was established face to Zawahiri, and illustrates that this internecine war is not just a spat between jihad group leadership and operational direction of the entire international jihad movement. In addition to believes that maintaining Muslim public support is paramount to the survival of the jihad movement would lose this support, such as rigidly forcing Sharia law on Muslims, conducting sectarian war prisoners. Al [Baghdadi](#), on the other hand, doesn't care about Muslim public opinion, believes law, he actively foments sectarian war between the Sunni and Shia, and he frequently uses the weapon. At present, al [Baghdadi](#)'s Islamic State, flush with money, manned by a flood of foreigners and having realized the dream that Zawahiri has always called for – the establishment of the "caliphate" problems do not stop there. Not only is the [Nusra Front](#) losing, but there is also growing factionalism over it – one faction wants to rapidly increase the number of foreign fighters into the ranks while the other wants to limit such an expansion in order to ensure that all within the [Nusra Front](#) establish an Islamic emirate in [Syria](#) to compete with al [Baghdadi](#). It gets worse for Zawahiri. His successes have caused dissension and desertions in the ranks of Zawahiri's heretofore loyal and against loyal jihad group to or against, and every direction of a vacancy within the jihad movement and on the world stage. The anemic announcement of a new affiliate that will why now? In the context of all his tribulations, neither the announcement, and another role for the new affiliate to play. another successful attack on the American homeland, strated by him and [Osama bin Laden](#), would restore his to claim credit for the attacks, and thus they would have to s, which may be precisely why he announced the creation of s. The leadership and operational capability of "core" al

After performing the entity extraction, each document can be reviewed using the Document Viewer, highlighting all recognized entities

All named entities recognized in each document are shown in the Entity Browser organized by type (person, organization, toponym, etc.) It also shows the frequency and the number of documents in which each entity appears

# Advanced Extraction Pattern Language

```
person  :> ((dictionary & [TYPE: "first_name",  
                           SURFACE: #first])  
  
          (dictionary & [TYPE: "initial",  
                           SURFACE: #in]  
  
          token & [SURFACE: "."]) ?  
  
          (token & [TYPE: "first_capital_word",  
                           SURFACE: #last])):name  
  
-> name: person & [NAME: #full_name,  
                  FIRST_NAME: #first,  
                  LAST_NAME: #last,  
                  INITIAL: #in  
                  AMOUNT: "1"]  
  
      & #full_name := ConcWithBlanks(#first,#in,#last)  
      & ValidatePersonName(#full_name).|
```



# Advanced Extraction Pattern Language

```
credit_card_number := ( separator
    ( digit & [SURFACE: #d1]
      ( digit & [SURFACE: #d2]
        ( sym & [SURFACE: "-"] )?
      )+
    ):card
  separator
)

-> card: credit_card_number & [SURFACE: #final_card,
    ISSUER: #card_type]
    & #final_card := Trim(#d1,#d2)
    & #card_type := CreditCardIssuer(#final_card)
    & LuhnTest(#final_card).
```



EMM-OSINT Suite 2.2.0 (64-bit)

File Edit Project Web Window Help Debug

Workspace Navigator Entity Browser

Select Project: Ayman al-Zawahiri

All entities of project

- person
  - organization
  - toponym
  - vat number
    - IT97475000150
  - email address
  - url
  - ip address
    - 110.4.44.55
    - 139.191.71.16
    - 66.206.32.165
  - credit card number
    - 000020101119
    - 1372708503000
    - 1394556075176588792
    - 8965799404979645327
    - 9780743278911
    - 9780761924081
    - 9781847288806
  - date
  - phone number
    - 00000000
    - 00002004
    - 0012124454859
    - 00748930153
    - 00777910159
    - 00906801006
  - zip code
    - 1178 BC
    - 1425 BC
    - 1427 AH
    - 1431 AH

Search Tools Reports

- Bing
- Sleeko
- Yahoo
- Google

Al-Qaeda Second-in-Command Ayman Al-Zawahiri: The Only Hope for Palestine

[July 19, 2010] n/a Posted on 07/19/2010 3:22:37 PM PDT by Cindy July 19, 2010 second-in-command Ayman Al-Zawahiri reaffirms Al-Qaeda's basic strategy regarding Afghanistan, and Pakistan. The video, dated Rajab 1431 (June-July 2010), was pro mention of the 2002 Rottla incident, which took place in late May."

ON THE INTERNET: www.youtube.com/user/asd48uw ia360701.us.archive.org/6

Note: Photo included. NOTE The following text is a quote: Wanted Ayman al-Zawahiri, Abu al-Mu'ic, The Doctor, The Teacher, Nur, Utaz, Abu Mohammed Government and seeks its overthrow through violent means. Al-Zawahiri is belie The individual listed above has been indicted on the following charges: Murder of Abdullah Mohammed, Fahid Mohammed Ally Msalam, Sheikh Ahmed Salim Salim and Kenya on August 7, 1998. The embassy bombings killed 224 civilians and w

This guy (along with UBL, Hek and Haq) all remain alive because we have not allowed the MI/SOF/SF side to create their own targets and gather their own intel for hits inside Pak border regions....Outsourcing this, completely to the CIA/OGAs is what has allowed them to continually stay outside our OODA loop. It is a damn shame.

Oh hell, they have one of their own in the White House of the United States of America (aka "The Great Satan"). Small wonder they're so confident.

Previously: Top Ten Jihad Forums, 19 July 2010 INTERNET-HAGAH.com ^ | July 19, 2010 | n/a Posted on July 18, 2010 2:58:25 PM PDT by Cindy 18 July 2010 "TOP TEN JIHAD FORUMS 19 JULY 2010" (Excerpt) Read more at internet-hagah.com Text | Online

Progress View Console Search Local Files Related Entities

- person
  - AYMAN AL-ZAWAHIRI
  - Abdel Muaz
  - Abdullah Ahmad
  - Abdullah Ahmed Abdullah
  - Abdullah Azzam
  - Abdullah Mohammed
  - Abdullah bin Abdulaziz al Saud
  - Abdullahi Yusuf
  - Abou Mohammed
  - Abu Abdullah
  - Abu Fatima
  - Abu Muhammad
  - Ahmed Abdullah
  - Ahmed Mohamed Hamed Ali
  - Ahmed Salim
  - Ahmed Salim Swedan
  - Ali bin Abi Talib
  - Anas al-Liby
  - Ayman al-Zawahiri
  - Blue Dog
  - Fahid Mohammed Ally Msalam
  - Fazul Abdullah Mohammed
  - Great Satan
  - Ibrahim Abou
  - John Robinson
  - Maktab al-Khadamat
  - Male Nationality
  - Male Weight
  - Mohamed Abbou
  - Mohamed Hamed Ali
  - Mohamed Nour
  - Mohammed Ally Msalam
  - Mohammed Hameed
  - Mohammed Ibrahim
  - Muhammad Abou
  - Olive Build
  - Osama bin Laden
  - Ping List
- organization
  - AMERICAN EMBASSY
  - Al Qaeda
  - CIA
  - Egyptian Government
  - Egyptian Islamic Jihad
  - FBI
  - Hamas
  - Intel Corporation
  - Islamic Jihad
  - ON
  - State Department
  - United States Department
  - White House
  - White House of the United States
  - youtube
- toponym
- ip address
- date

EMM-OSINT can show the Related Entities (those that appear within the same document as the target entity)

The terrorists Al Zawahiri, Osama bin Laden and Ahmed Abdullah are considered "related" because they appear in the same documents

Also related to Al Zawahiri:

- Al Qaeda
- Hamas
- Islamic Jihad

EMM OSINT Suite 2.2.0 (64-bit)

File Edit Project Web Window Help Debug

Workspace Navigator Entity Browser

Select Project: Ayman al-Zawahiri

Search

Entities related to "Osama bin Laden"

- person
- organization
- toponym
- email address
- url
- ip address
- date
- phone number
- 00748930153
- zip code

Progress View Console Search Local Files

Search query: Search

Search results:

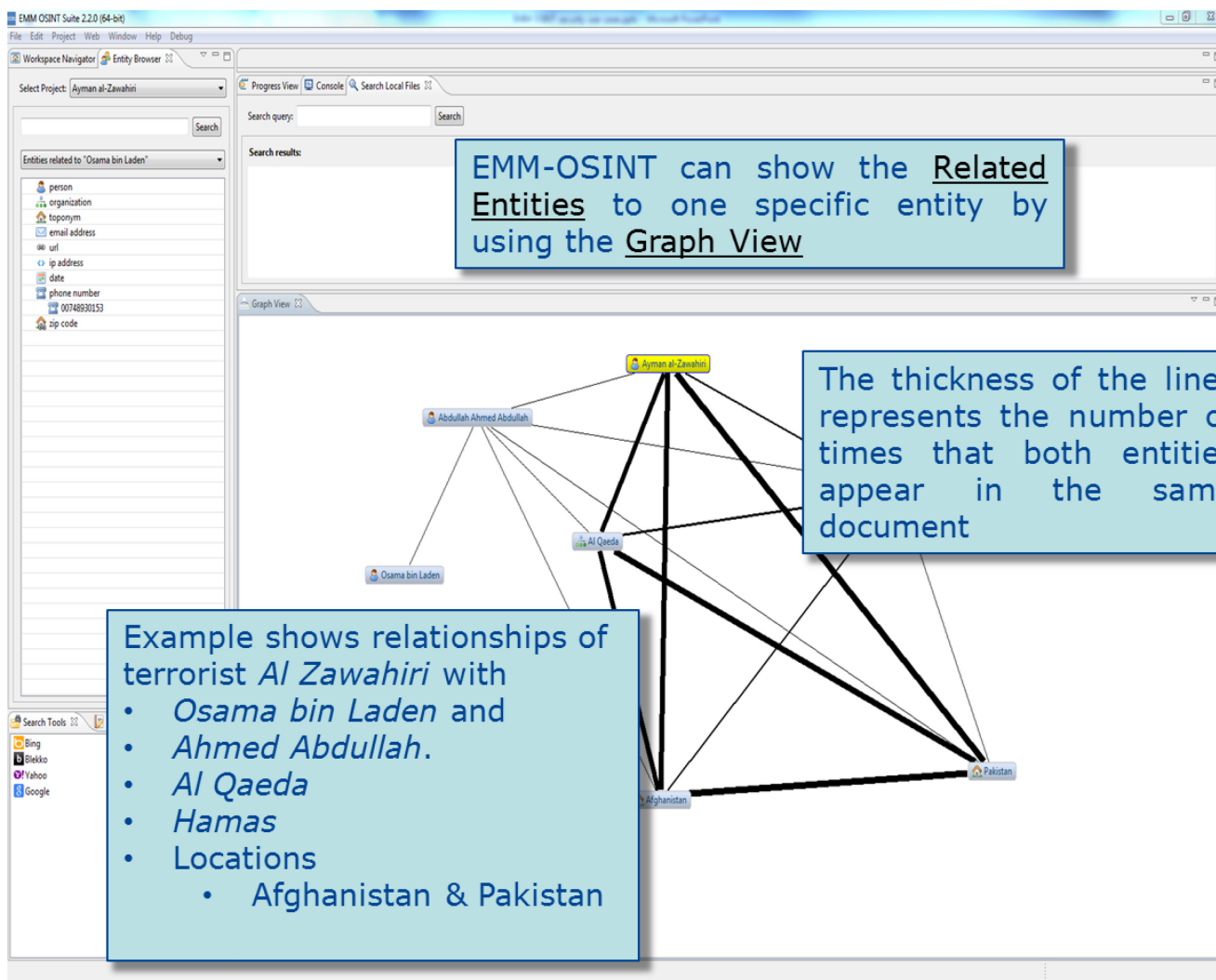
Graph View

Example shows relationships of terrorist *Al Zawahiri* with

- *Osama bin Laden* and
- *Ahmed Abdullah*.
- *Al Qaeda*
- *Hamas*
- Locations
  - Afghanistan & Pakistan

EMM-OSINT can show the Related Entities to one specific entity by using the Graph View

The thickness of the lines represents the number of times that both entities appear in the same document



EMM OSINT Suite 2.2.0 (64-bit)

File Edit Project Web Window Help Debug

Workspace Navigator Entity Browser

Ayman al-Zawahiri

- Analysis
- Bookmarks
- Crawler
- Documents
- RelatedEntities\_Entity\_Ayman\_al-Zawahiri.html
- RelatedEntities\_Entity\_Ayman\_al-Zawahiri.ort\_2013-07-26\_16-00.html

Ayman al-Zawahiri Reports

- Entity Extraction
- Reporting
  - AllEntities.html
  - AllEntities.ort
  - Bookmarks.html
  - Bookmarks.ort
  - GraphML.graphml
  - GraphML.ort
  - RelatedDocuments\_Entity.html
  - RelatedDocuments\_Entity.ort
  - RelatedEntities\_Entities-for-Ayman\_al-Zawahiri.htm
  - RelatedEntities\_Entity\_Ayman\_al-Zawahiri.ort
  - RelatedEntities\_Entity.html
  - RelatedEntities\_Entity.ort
  - Select-Ayman\_al-Zawahiri.js
  - SelectEntity.js
- Search Tools
- Omar Shafik Hammami

## Related entities of Entity "Ayman al-Zawahiri"

List of related entities of type "person" containing the word "Abdullah" and sorting alphabetically:

- Abdullah bin Abdulaziz al-Saud
- Fazul Abdullah Mohammed
- Ahmed Abdullah
- King Abdullah
- Abdul Aziz bin Abdullah
- Abdullah Azzam
- Ramadan Abdullah Mohammad Shallah
- Abdullah Mohammed
- Sheikh Abdullah Yusuf
- Abdullah Ahmad
- Abdullah Yusuf
- Abdullah Ahmed Abdullah

List of related entities of type "organization" and starting with the string "A"

- Al Ansar
- Al Quds Al Arabi
- Al Bawaba
- Al Arabiya
- Al Fatah
- Al Shabab
- Al Qaeda

List of related entities of type "toponym" and contain the words "Pakistan" or "Afghanistan":

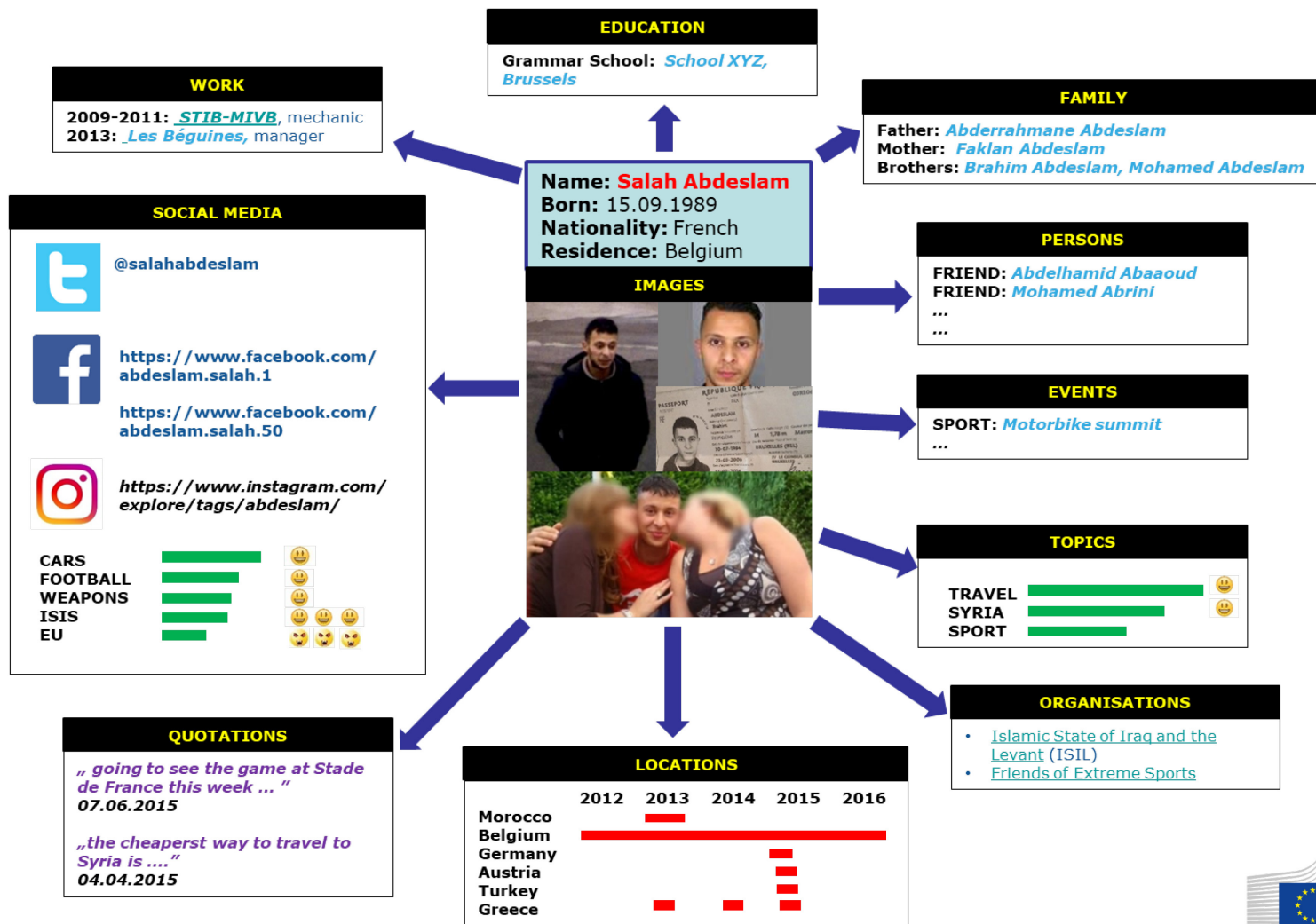
- Afghanistan
- Islamabad-Islamabad-Pakistan
- Bajaur Agency:Fata-Pakistan
- Abbottabad:Abbottabad:Nwfp-Pakistan
- Karachi-Karachi Central:Sind-Pakistan
- Kabul-Kabul-Afghanistan
- Farah:Farah-Afghanistan
- Pakistan
- Jalalabad-Nangarhar-Afghanistan
- Islamabad-Pakistan
- Quetta-Quetta:Balochistan-Pakistan
- Khyber Agency:Fata-Pakistan
- Rawalpindi-Rawalpindi-Pakistan

Search Tools Reports

- Bing
- Bleko
- Yahoo
- Google

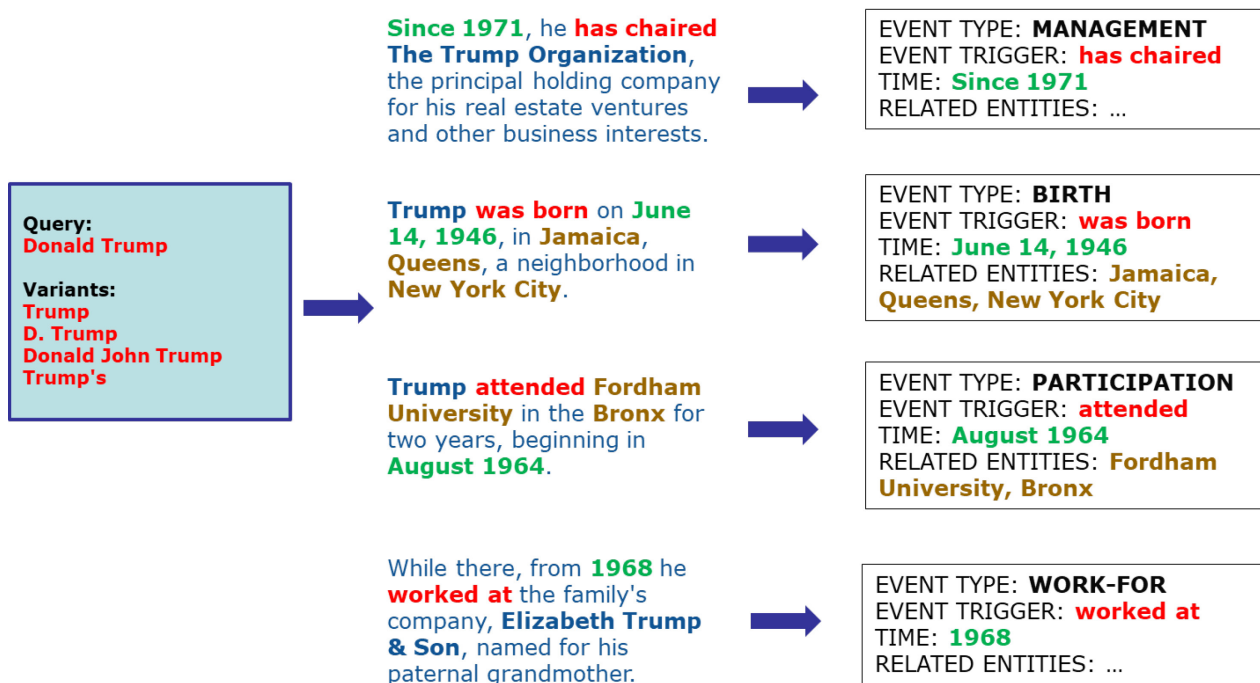
This example shows some related entities for the terrorist *al-Zawahiri*. OSINT allows to customize what type of entities will be included in the report

EMM-OSINT can generate customized reports in html or csv format about related entities found in the documents



# Timelines Extraction

## TIMELINES EXTRACTION



# References

- **EMM Newsbrief:** <http://emm.newsbrief.eu>
- **Medisys:** <http://medisys.newsbrief.eu/>
- **Event Extraction (KML):** <http://labs.emm4u.eu/view.kml>
- **EMM OSINT Suite:**  
<https://wiki.emm4u.eu/confluence/display/osintpublic/EMM+Open+Source+Intelligence+Suite>
- **EMM Language Technology Resources:**  
<https://ec.europa.eu/jrc/en/language-technologies>
- **More:** <http://emm.newsbrief.eu/overview.html>

# OSINT Workshop

- **When:** 25-27 September (3 full days)
- **Where:** Villa Cagnola, Gazzada, Italy (<http://www.villacagnola.it/>)
- **What:**
  - Sharing experience of using OSINT tools/methods
  - Latest Developments in Research
  - Tutorials (EMM News Desk, OSINT Suite, Advanced Topics – IE, Machine Learning)
- **Audience:**
  - MS experts from national authorities
  - Practitioners from EC and other EU institutions
- **More Info:** [Jakub.Piskorski@ec.europa.eu](mailto:Jakub.Piskorski@ec.europa.eu)



# Thank you!

## Any questions?

You can find us at [JRC-TMA-CC@ec.europa.eu](mailto:JRC-TMA-CC@ec.europa.eu)

EMM support: [JRC-EMM-SUPPORT@ec.europa.eu](mailto:JRC-EMM-SUPPORT@ec.europa.eu)