

GCHQ, the British signals intelligence agency, prepared the following PowerPoint slideshow presentation for a top-secret intelligence conference in 2012, revealing a pilot program called Squeaky Dolphin.

Documents taken from the National Security Agency by Edward Snowden and obtained by NBC News detail how British cyber spies demonstrated to their U.S. partners in 2012 the ability to monitor YouTube and Blogger in real time and collect addresses from the billions of videos watched daily, as well as some user information, for analysis. At the time the documents were printed, GCHQ was also able to spy on Facebook and Twitter. Called "Psychology A New Kind of SIGDEV," (Signals Development), the presentation includes a section that spells out "Broad real-time monitoring of online activity" of YouTube videos, URLs "liked" on Facebook, and Blogspot/Blogger visits. The monitoring program is called "Squeaky Dolphin."

NBC News is publishing the documents with minimal redactions to protect individuals. NBC News has also withheld two slides for further review. The last five pages shown here are from an earlier GCHQ document in 2010. NBC News has added annotations on two slides in yellow boxes.

Read the article online at investigations.nbcnews.com.

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Psychology

A New Kind of SIGDEV

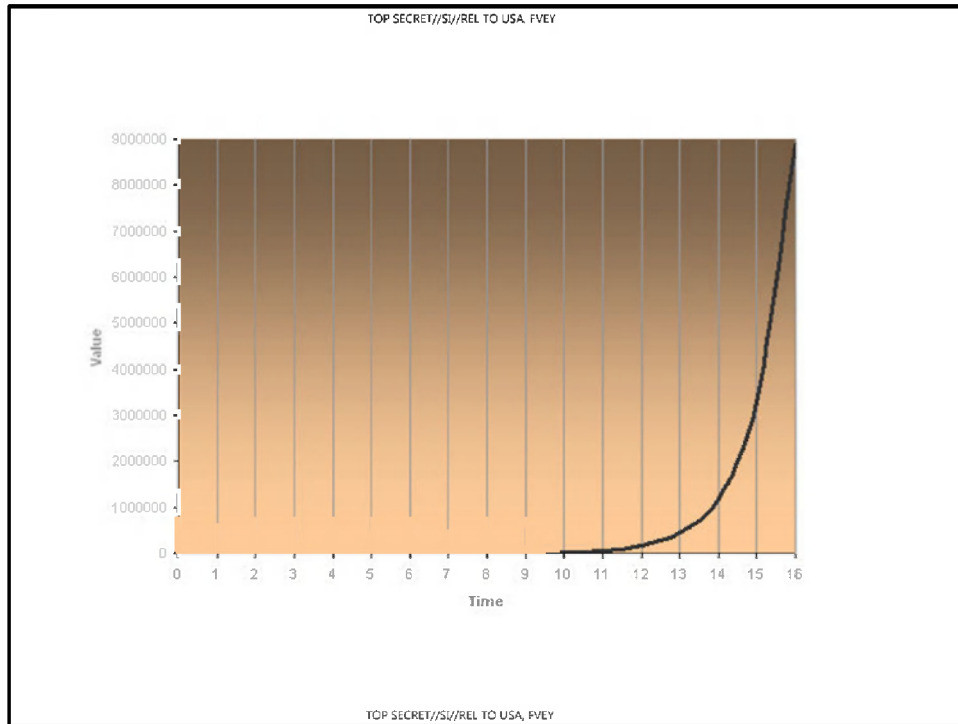
Establishing the Human Science Operations Cell

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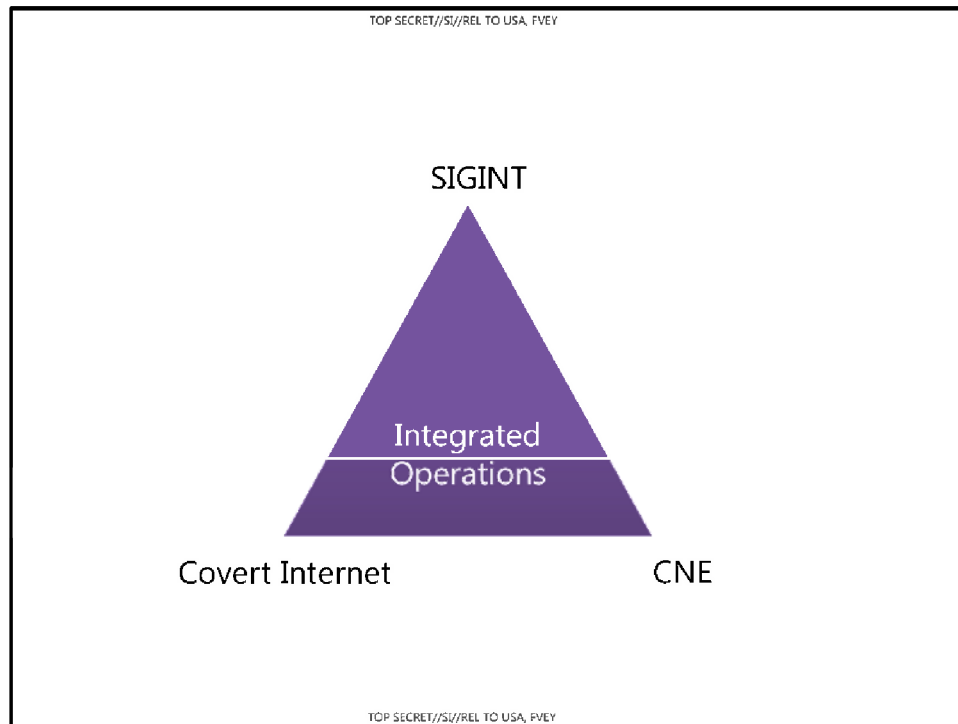
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Online
HUMINT

Strategic
Influence

Disruption
and CNA

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Psychology 101 concepts illustrated:



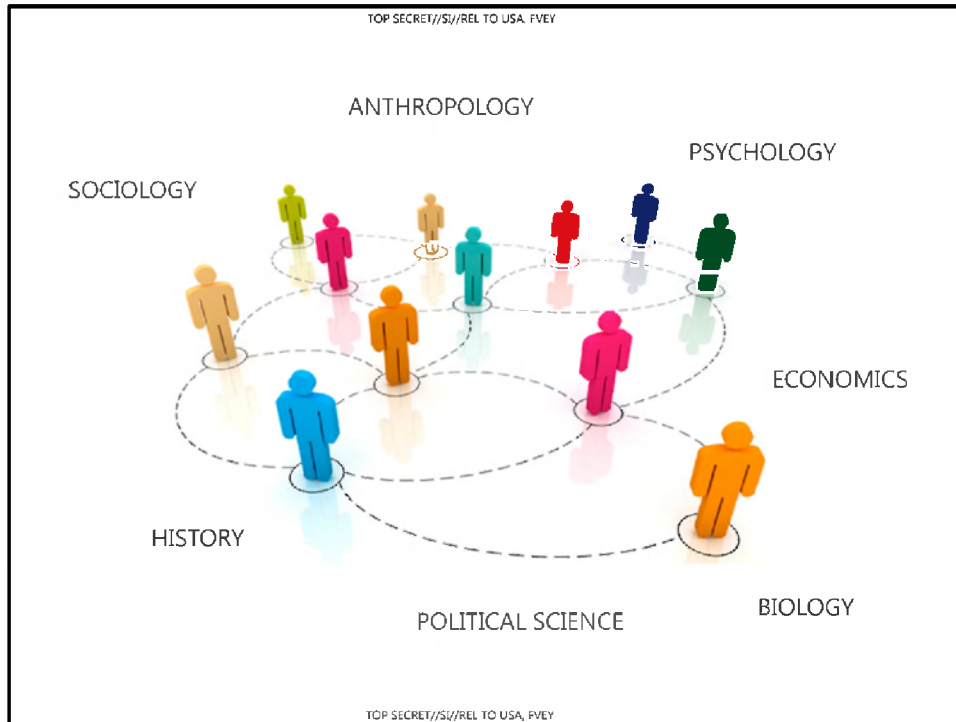
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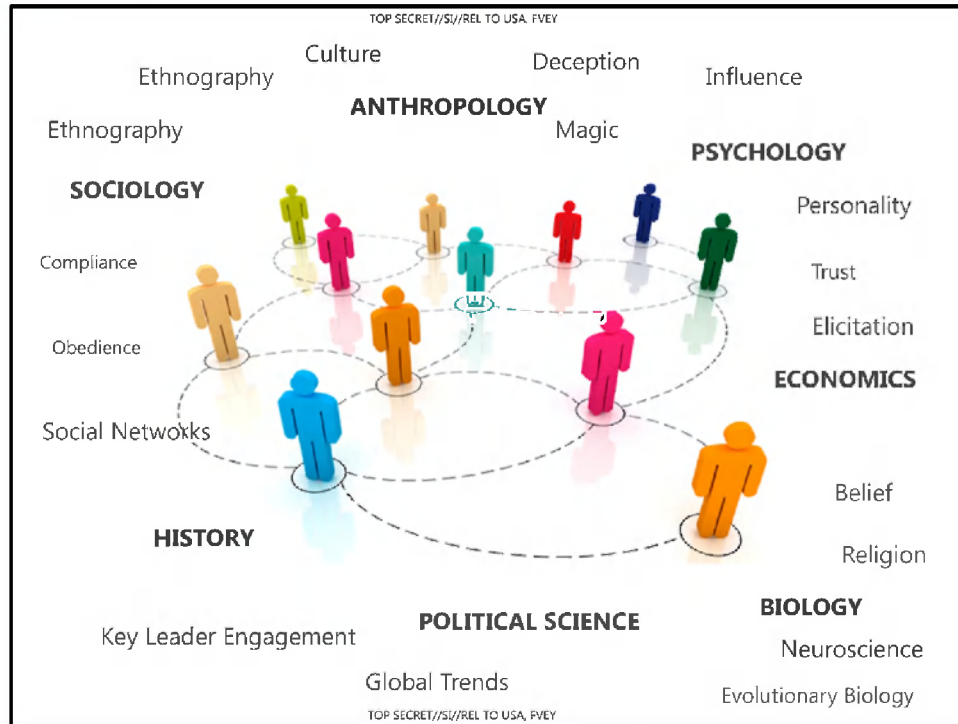
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Human Science?

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S4

SCIENCE

SIGINT

SKILLS

SYSTEMS

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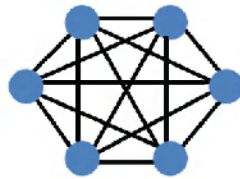


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Individuals



Groups



Socio-Cultural

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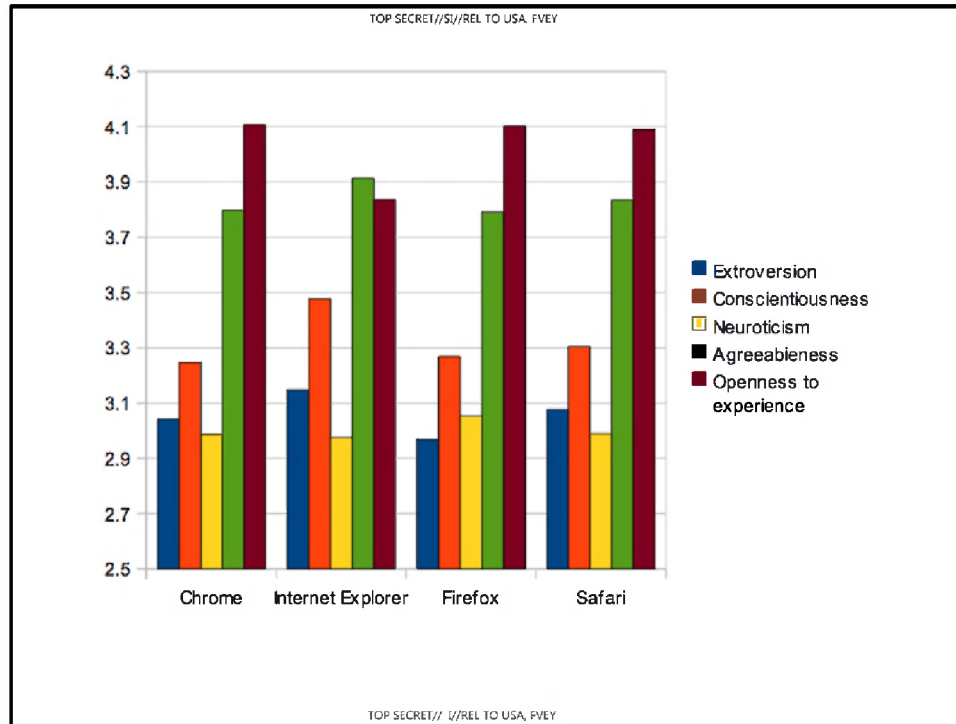
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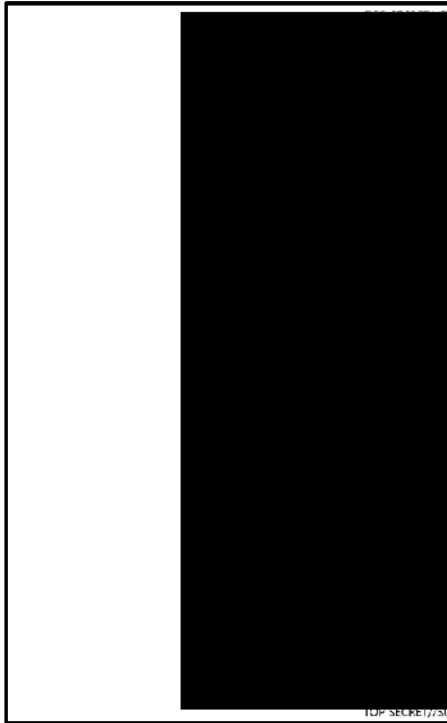


VS

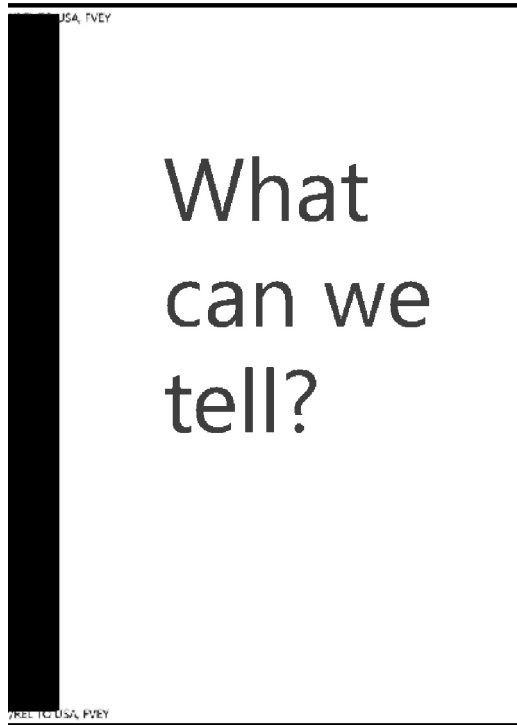


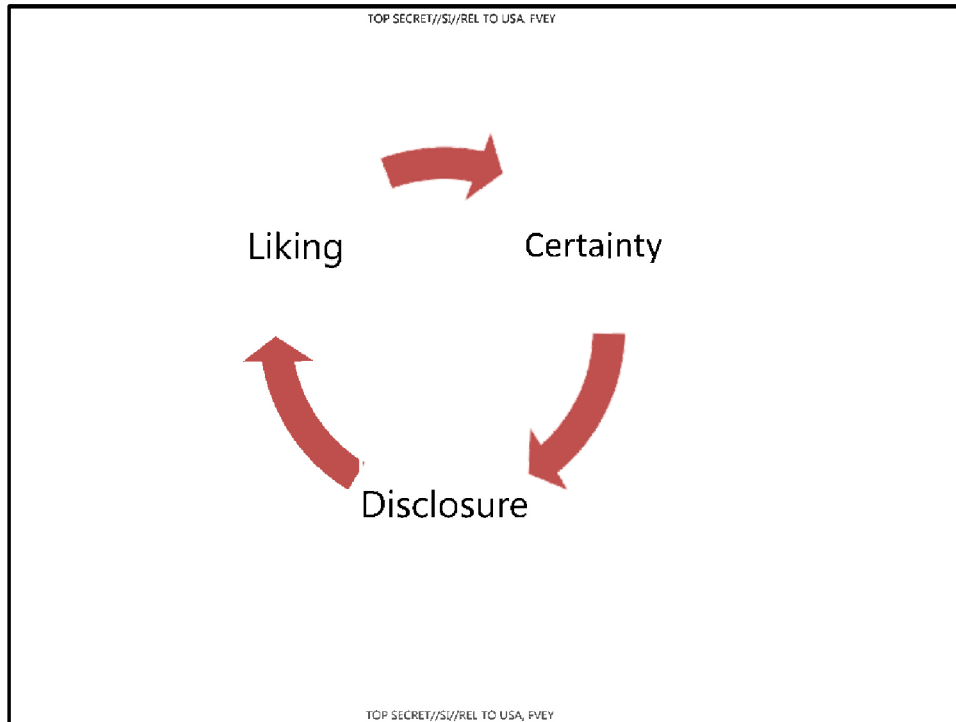
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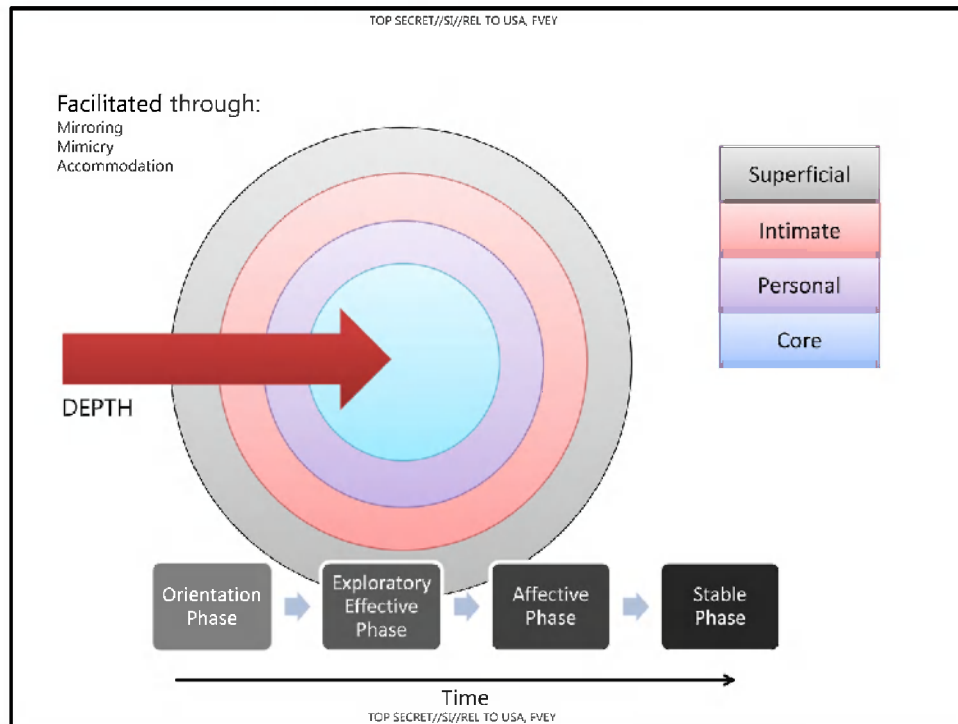




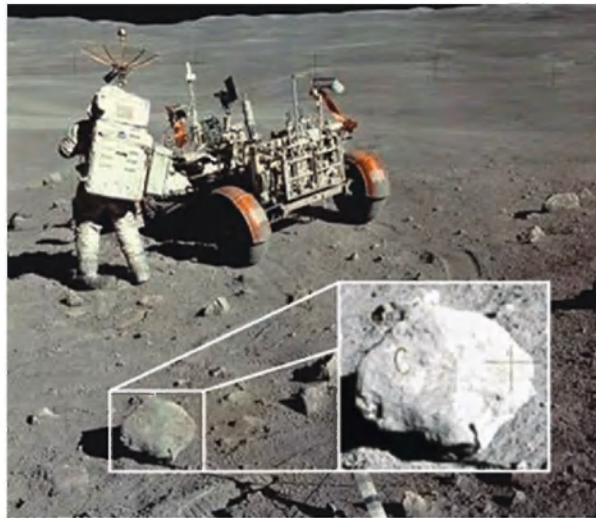
investigations.nbcnews.com



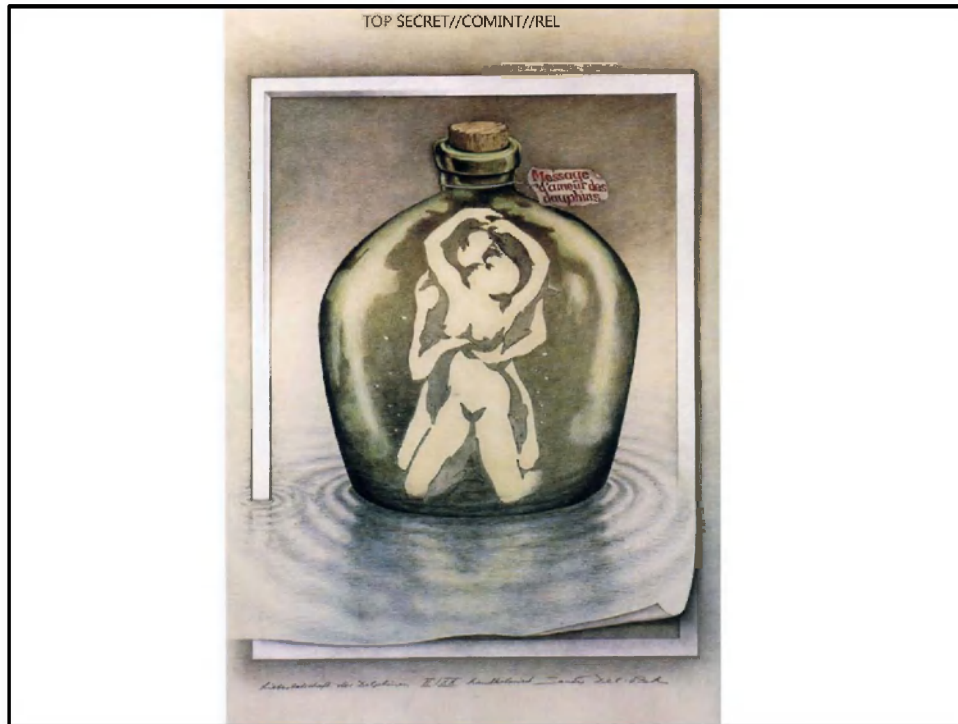




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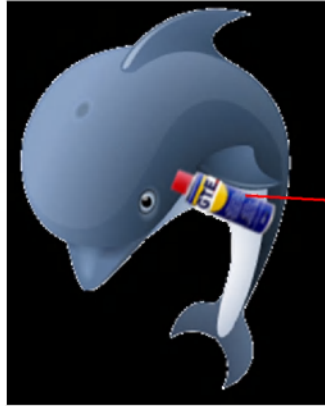
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SQUEAKY DOLPHIN



Can SIGDEV help us understand and shape
the Human Terrain?

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GTE=Global
Telecoms
Exploitation,
a GCHQ unit
that collects
data from
fiberoptic
cables

Signals
Development

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SQUEAKY DOLPHIN

Broad real-time monitoring of online activity of:

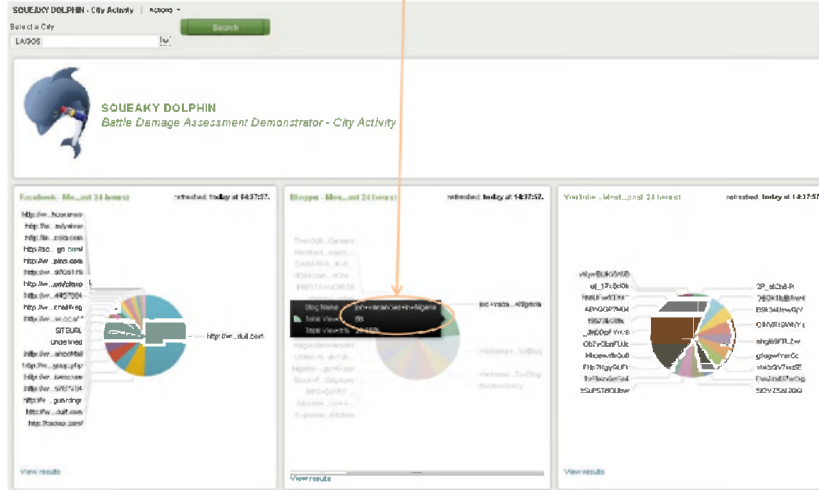
- YouTube Video Views
- URLs 'Liked' on Facebook
- Blogspot/Blogger Visits



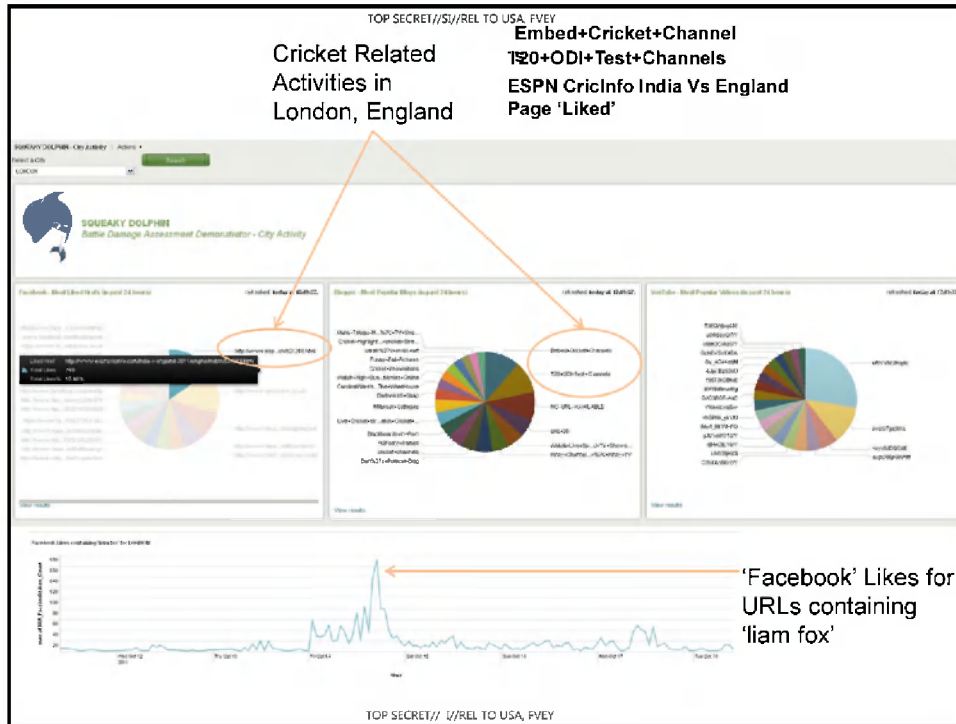
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Job Vacancies in Lagos, Nigeria



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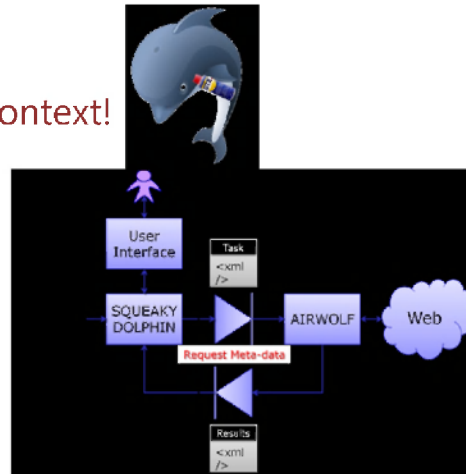
'Facebook' Likes for
URLs containing
'liam fox'

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*So Passive gives us...
Scalability.*

But, we don't have context!

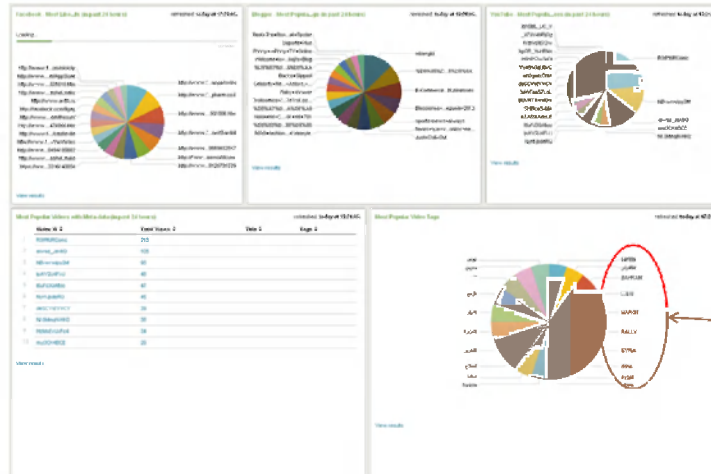
Targeted
enrichment
is the
solution.



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YouTube
 Across the world on 13th February 2012:
 the 14th Feb & Syrian Rally



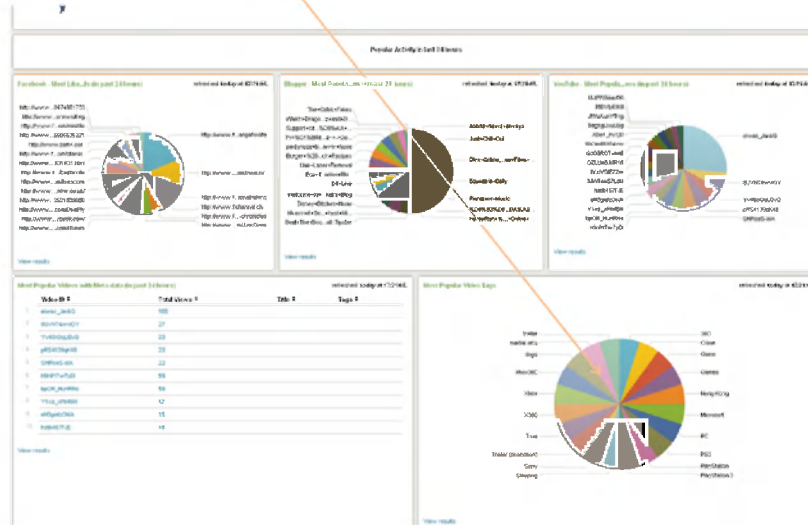
YouTube
Tags

**14FEB
 BAHRAI
 N
 MARCH
 RALLY**

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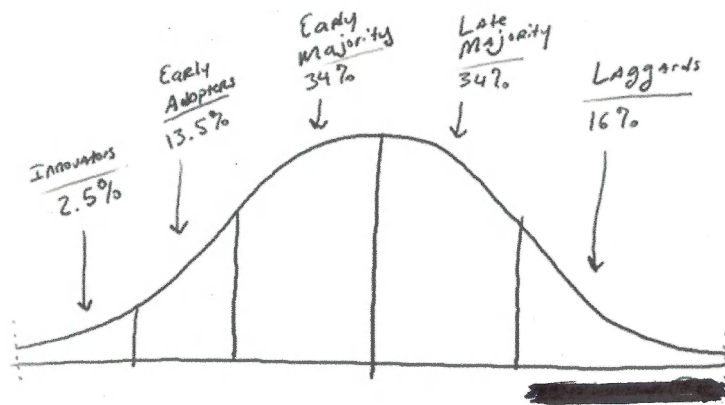
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YouTube Game Trailer in London, England



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HOLLOW POINT

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Optimising Influence

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NEWTONS CAT



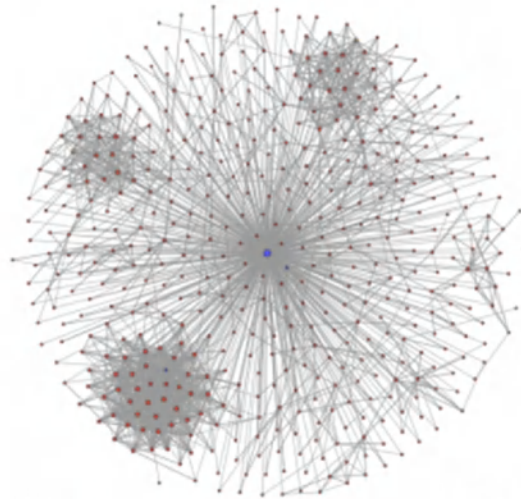
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██████████
@██████████ Right on bro
██████████ 2 hours ago

██████████
RT @██████████ @██████████ Yeah, so true! you mean I
should be suspicious of you? or that @██████████ should be
challenged?
16 hours ago

██████████
@██████████ Yeah, so true!
10 hours ago

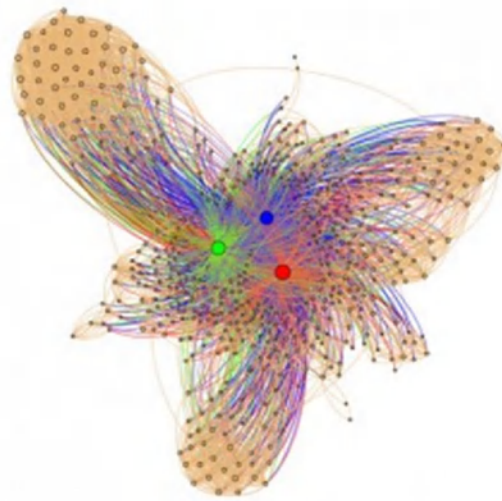
██████████
RT @██████████ @██████████ you might want to be suspicious
about ██████████ -> what do you say @██████████?
11 hours ago

██████████
RT @██████████ @██████████ auto-alert: am monitoring for spam:
@██████████
11 hours ago

██████████
@██████████ you might want to be suspicious about
██████████
12 hours ago

██████████
@██████████ auto-alert: am monitoring for spam: ██████████
5 Feb

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Influence @ Scale

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English 2.0 Login

Fire Ant

Open Source Visualization

SUBMIT A REPORT

HOME REPORTS SUBMIT A REPORT GET ALERTS CONTACT US

FILTERS: 10000 NEWS PICTURES VIDEO ALL

Scale = 1:250k 60.00000 27.00000 8755.00000

From: May 2012 To: May 2012 Filter

2000
1500
1000
500
0

0 May 5 May 10 May 15 May 20 May 25 May 30 May 31 May

2012

ALL CATEGORIES

- RBCM TAGS
- IRAQ
- CHINA
- CIVILIANS
- DEATHS
- IRAN
- PAKISTAN
- PROPERTY LOSS
- REPORT SOURCE
- RIOTS

HOW TO REPORT

1. [Click on the map](#)
2. [Building a form](#)

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GTE

[REDACTED]
[REDACTED] Human Sciences - HSOC
[REDACTED]

[REDACTED]
[REDACTED] - GTE
[REDACTED]

Joint Threat
Research
Intelligence
Group, a
GCHQ unit
focused on
cyber
forensics,
investigations
and covert
operations

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These last five pages are from an earlier GCHQ document, from 2010.



investigations.nbcnews.com

UK TOP SECRET STRAP1

Information Operations: The Social Web

The Twitter logo, consisting of the word "twitter" in a light blue, lowercase, rounded sans-serif font with a white outline.

The YouTube logo, featuring the word "YouTube" in white, lowercase, sans-serif font inside a red rounded rectangle with a white play button icon.

The Facebook logo, consisting of the word "facebook" in white, lowercase, sans-serif font inside a dark blue rounded rectangle.

The Flickr logo, consisting of the word "flickr" in a blue, lowercase, sans-serif font.

Deliver messages and multimedia content across Web 2.0

Crafting messaging campaigns to go 'viral'

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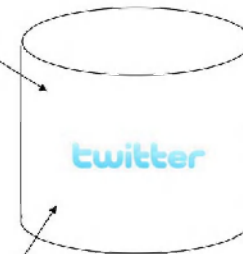
UK TOP SECRET STRAP1

CNIO Twitter TDI Development



Need SIGINT coverage across protocols,
Not necessarily consistent with target SIGDEV priorities

```
_twitter_sess=BAh7DjoTcGFzc3dvcmRfdG9rZW4iLWFhMGI3  
ZDk0OTIiNTJkOWQzMzMyYTc2%250AOTkyNjM0Y2ZmM2Y  
5NDNjYmQ6DGNzcmZfaWQlJTZmYjRhNTk5ZDVkMjlkMmF  
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mV3X3VzZXJfZmxvdzA6EXRyYW5zX3Byb21wdDA6CXVz%  
250AZXJpBAPZMAEiCmZsYXNoSUM6J0FjdGlvbkkNbnRyb  
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VkewA6B2klVhZDRiOGM2NmM0ZjRkM2U2NGI5%250AZG  
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Q%253D%253D-  
a3894361aa489c2cd51ff326358c92f2e4d39cd8.
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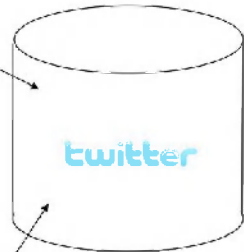
CNIO

Twitter TDI Development



Base64 + double encoded URL

```
0000000 004 Nb { 016 | 023 p a s a v o e d _ t
0000320 o k e a * - a a 0 b 7 d 5 4 3 9
0000340 b 5 2 d 9 d 3 3 3 2 a 7 6 3 3 2
0000360 6 3 4 e f f 3 f 9 4 3 o b d : Nt
0000380 e a x f _ i d * % 6 f b 4 a 5 9
0000400 9 d 5 d 2 9 d 2 a a 7 e f d 7 3
0000420 9 c 6 a a f 4 7 9 * i s h o v _
0000440 d i a c o v e r a b i l i t y _
0000460 f o x _ a o l o _ o a l y 3 : 025
0000480 i a _ b a v _ u s e r _ f l o w
0000500 0 : 021 t x a b s _ p r o a p t 0
0000520 : Nt u s a x 1 004 003 331 0 001 * Na f 1
0000540 a s b l C : A o t i o n C o a
0000560 t x o l i a e _ F l a e x : :
0000580 F l a s b B a s b { N0 005 : Np 9 u
0000600 a a d { N0 : 007 i d * % a d 6 e 9
0000620 c 6 6 c 4 f 4 d 3 a 6 4 b 3 d t
0000640 f 0 b f 8 a c d 8 4 2 : 012 o r e
0000660 a t e d _ a t l + Nb e 202 % : 001
0000680
```



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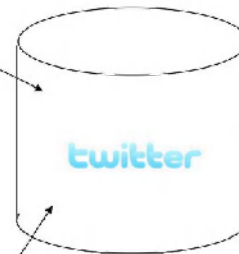
CNIO

Twitter TDI Development



PPF application across 10G Environment

1272671024 **81.169.145.25**
128.242.240.20 6 55489 80 Login-
twitter.com 31 **solo_only@twitter.com**
TDI-Scope 4 User Route 13
81.169.145.25 HHFP-Hash 8 38
4646d4 User-Agent 52 Twitter Tools
Geo-IP-Src 28
49.00;8.39;**KARLSRUHE;DE;5MVV**
Geo-IP-Dst 33 39.0062;-
77.4288;STERLING;U
S;7LLM Event-security-label 6 10007F
Stream-security-label 10 400023E0FF



**Millions of events per day feeding
BLACKHOLE**

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UK TOP SECRET STRAP1

CNIO
Twitter TDI Development



Given a country:

Who are the top Twitter Users?

Or given a user:

Are they really in Kawestan?

SIGDEV augments the IO process to aid targeting and takeup of message

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