

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](http://investigations.nbcnews.com).

TOP SECRET//SI//REL TO USA, FVEY



# Psychology

## A New Kind of SIGDEV

Establishing the Human Science Operations Cell

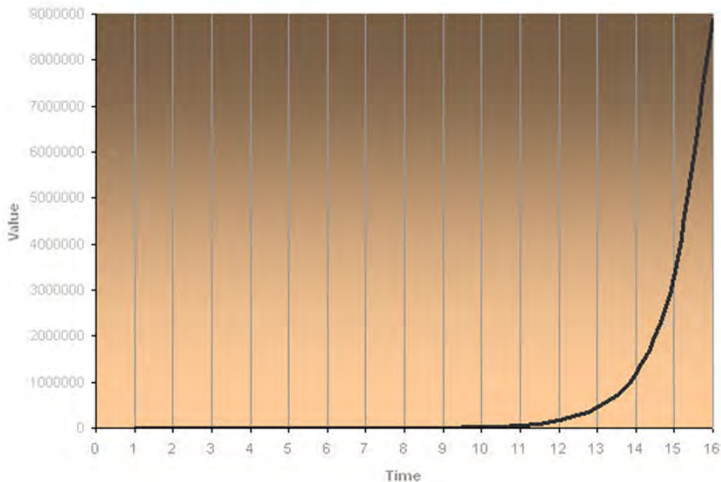
TOP SECRET//SI//REL TO USA, FVEY

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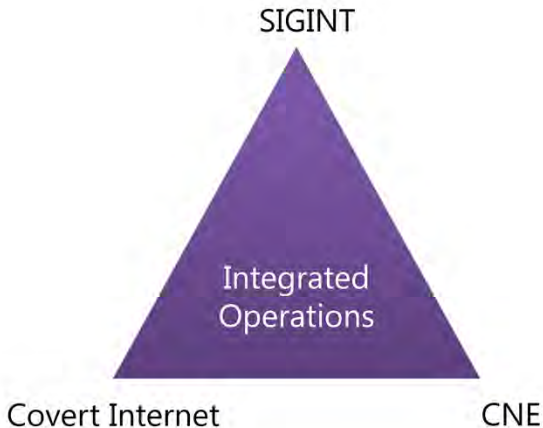
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Online  
HUMINT

Strategic  
Influence

Disruption  
and CNA

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Human Science?

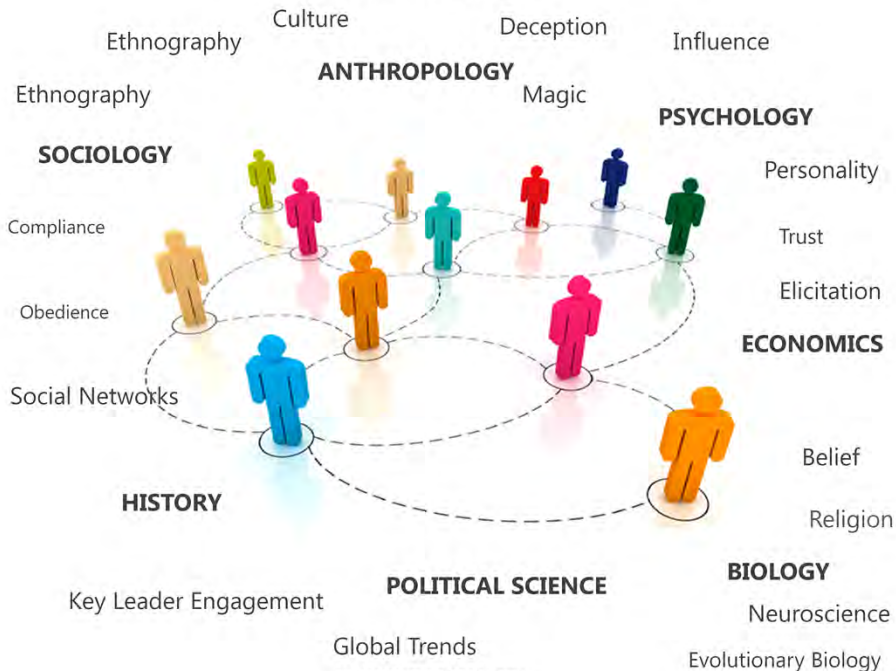
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S4

SCIENCE

SIGINT

SKILLS

SYSTEMS

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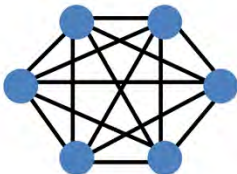


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Individuals



Groups



Socio-Cultural

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TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY

# OCEAN





TOP SECRET//SI//REL TO USA, FVEY

# OCEAN

Openness      Conscientiousness      Extroversion  
Agreeableness      Neuroticism

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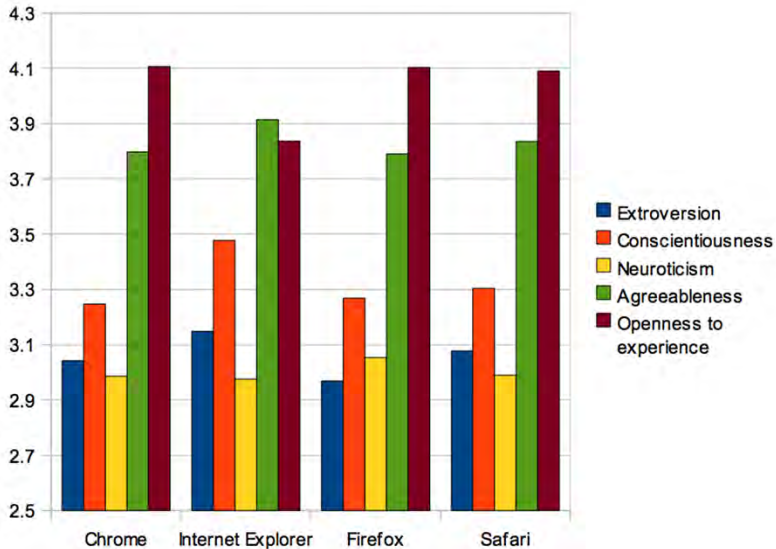


VS



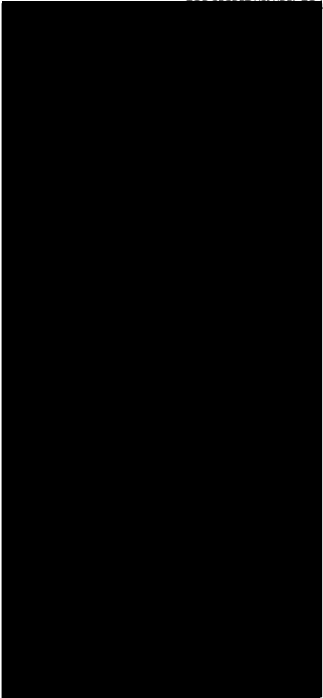
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USA, FVEY

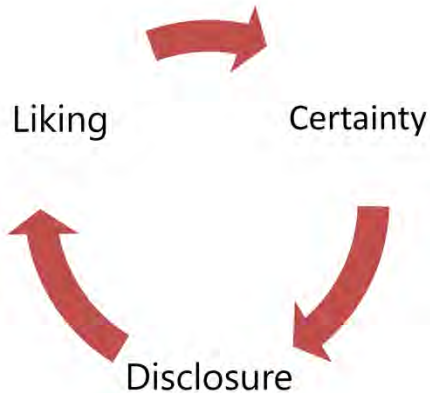


What  
can we  
tell?

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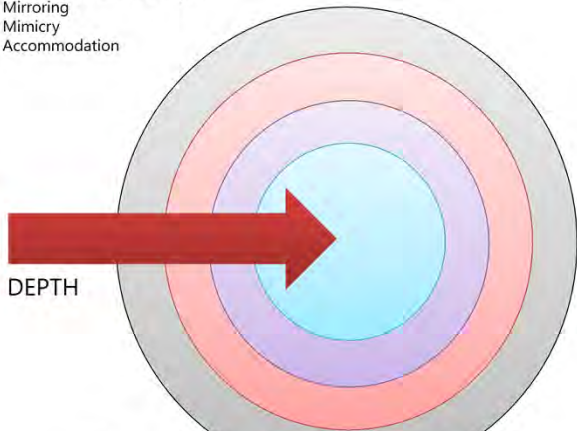


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Facilitated through:

Mirroring  
Mimicry  
Accommodation



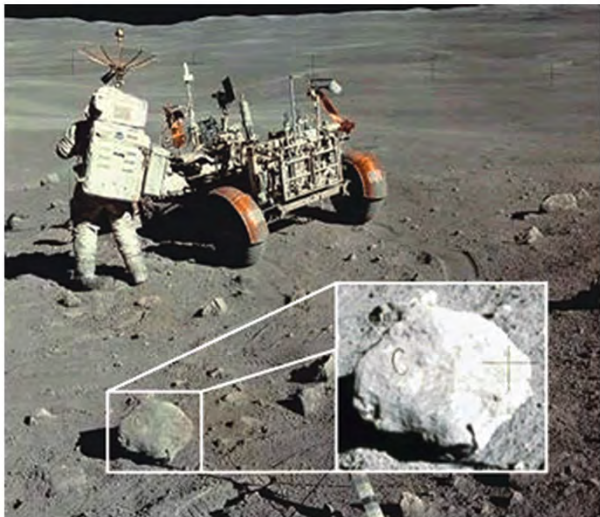
DEPTH



Time

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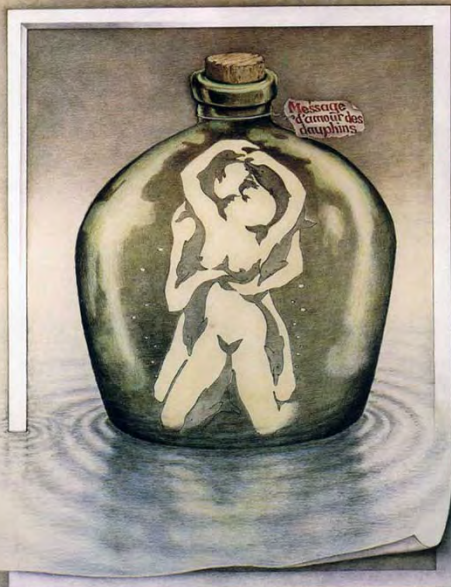
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TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//COMINT//REL



*Le message d'amour des dauphins. II/III.huile sur toile. 1968. 100 x 100 cm.*

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# SQUEAKY DOLPHIN



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

Can SIGDEV ~~help us understand and shape~~  
the Human Terrain?

Signals  
Development

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# SQUEAKY DOLPHIN

Broad real-time monitoring of online activity of:

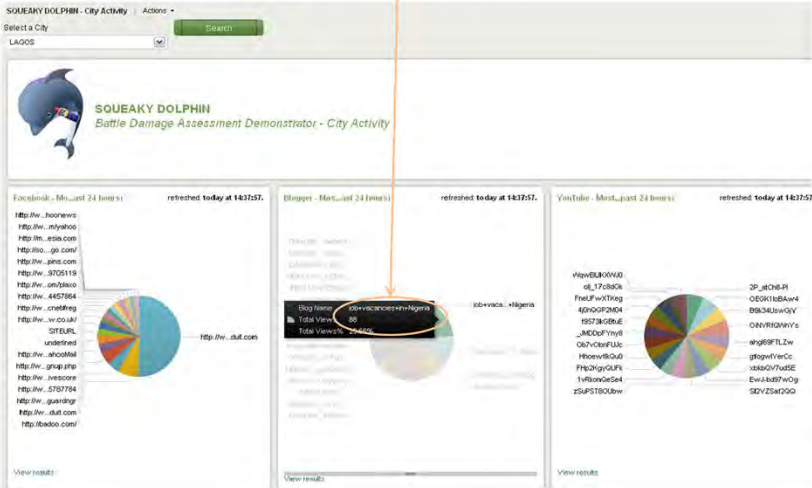
- YouTube Video Views
- URLs 'Liked' on Facebook
- Blogspot/Blogger Visits



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## Job Vacancies in Lagos, Nigeria



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## Cricket Related Activities in London, England

**Embed+Cricket+Channel**  
**T20+ODI+Test+Channels**  
**ESPN CricInfo India Vs England**  
**Page 'Liked'**

SQUEAKY DOLPHIN - City Activity | Actions

Set a City  
LONDON



**SQUEAKY DOLPHIN**  
 Battle Damage Assessment Demonstrator - City Activity

Facebook - Most Liked Words (up past 24 hours)

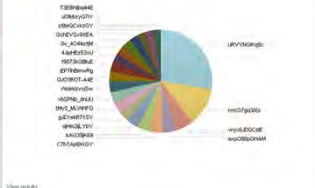
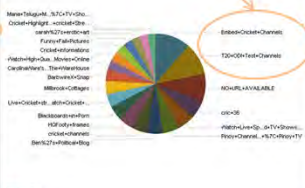
retweeted today at 17:05:37

Retweet - Most Popular Words (up past 24 hours)

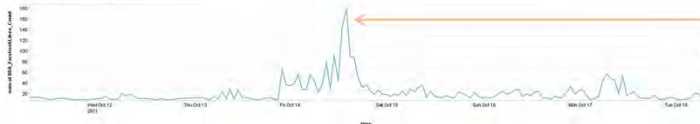
retweeted today at 17:05:37

Twitter - Most Popular Words (up past 24 hours)

retweeted today at 17:05:37



Facebook Likes containing 'liam fox' for LONDON



'Facebook' Likes for  
URLs containing  
'liam fox'

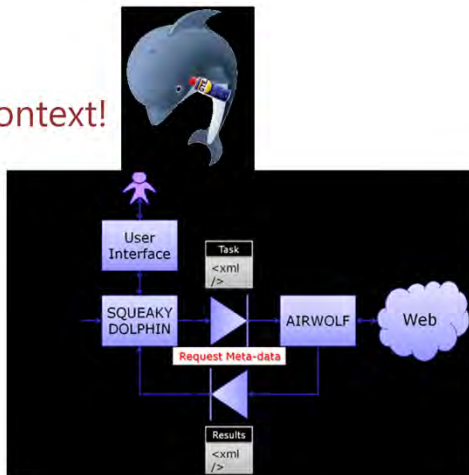
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*So Passive gives us...  
Scalability.*

But, we don't have context!

Targeted  
enrichment  
is the  
solution.



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## YouTube

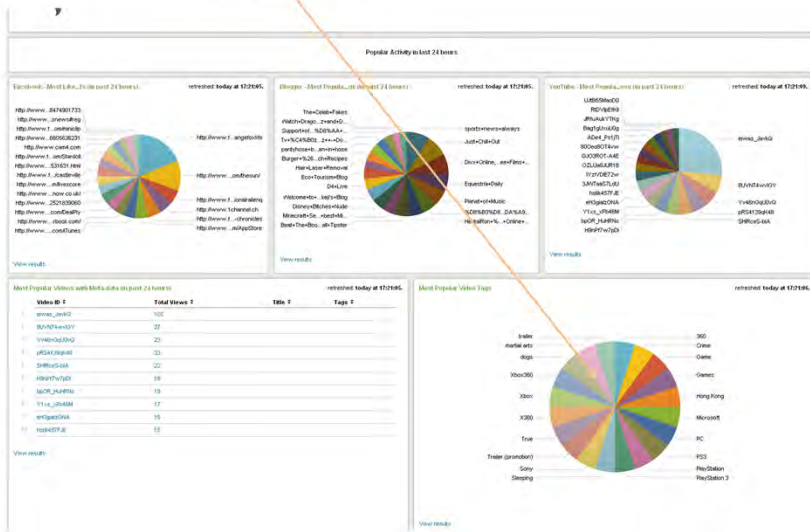
Across the world on 13<sup>th</sup> February 2012:  
the 14<sup>th</sup> Feb & Syrian Rally





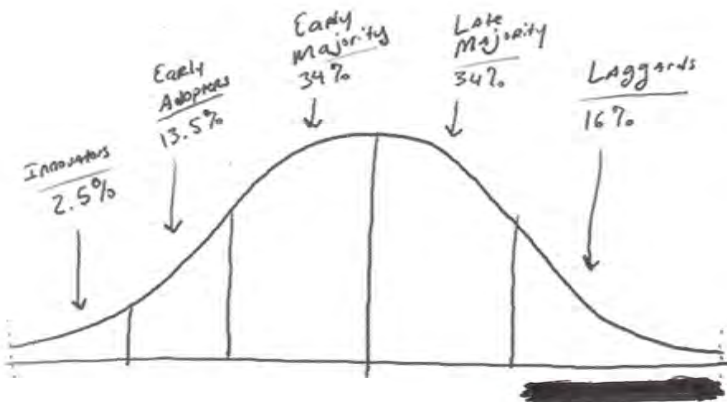
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# YouTube Game Trailer in London, England



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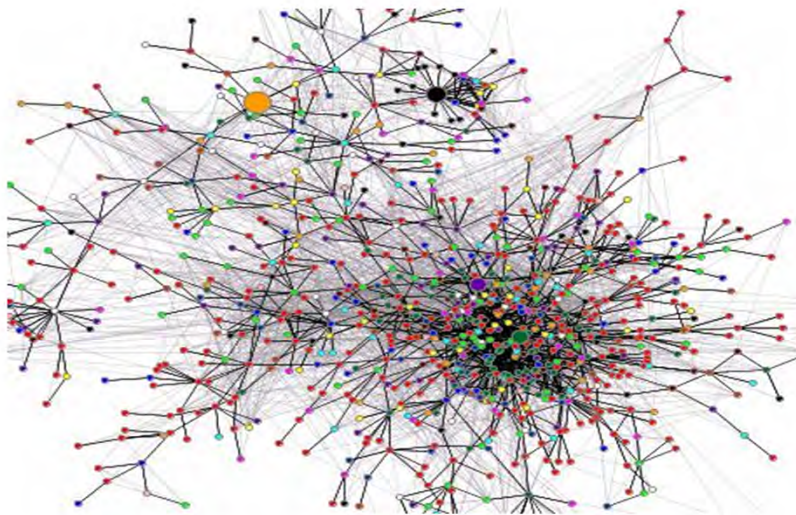
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HOLLOW POINT

TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



Optimising Influence

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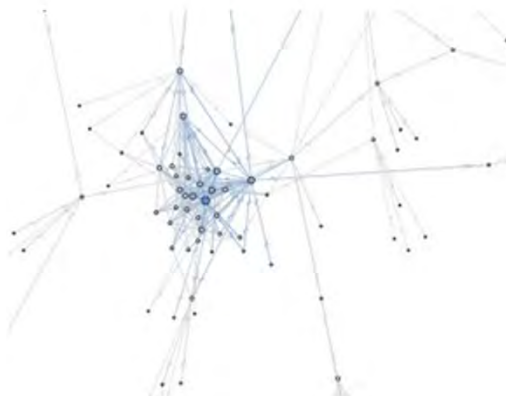
TOP SECRET//SI//REL TO USA, FVEY

# NEWTONS CAT



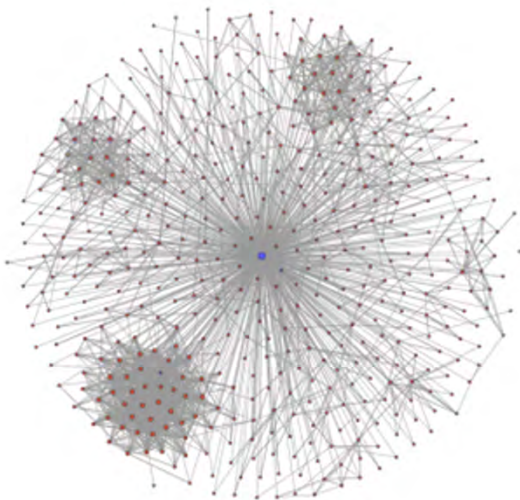
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TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY

TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY



TOP SECRET//SI//REL TO USA, FVEY

[REDACTED]  
@ [REDACTED] Right on bro  
8 hours ago

[REDACTED]  
RT @ [REDACTED] @ [REDACTED] Yeah, so true! you mean I  
should be suspicious of you? or that @ [REDACTED] should be  
challenged?  
10 hours ago

[REDACTED]  
@ [REDACTED] Yeah, so true!  
10 hours ago

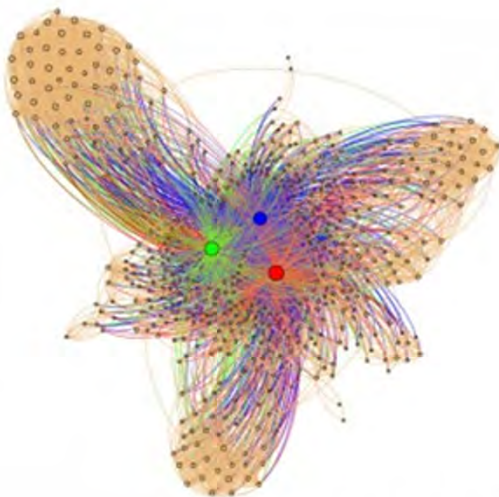
[REDACTED]  
RT @ [REDACTED] @ [REDACTED] you might want to be suspicious  
about [REDACTED] >> what do you say @ [REDACTED] ?  
11 hours ago

[REDACTED]  
RT @ [REDACTED] @ [REDACTED] auto-alert: am monitoring for spam:  
@ [REDACTED]  
11 hours ago

[REDACTED]  
@ [REDACTED] you might want to be suspicious about  
[REDACTED]  
12 hours ago

[REDACTED]  
@ [REDACTED] auto-alert: am monitoring for spam: [REDACTED]  
5 Feb

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Influence @ Scale

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English (US)

Search

Login

# Fire Ant

Open Source Visualisation

SUBMIT A REPORT

HOME REPORTS SUBMIT A REPORT GET ALERTS CONTACT US

FILTERS **REPORTS** NEWS PICTURES VIDEO ALL



Free May 2012 May 2012



CATEGORY FILTER [HIDE]

ALL CATEGORIES

BBCM TAGS

IRAQ

CHINA

CIVILIANS

DEATHS

IRAN

PAKISTAN

PROPERTY LOSS

REPORT SOURCE

RIOTS

## HOW TO REPORT

1. By sending an email to [bscho.gov.uk](mailto:bscho.gov.uk)
2. By filling this form

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**GTE**



Human Sciences - HSOC



- GTE



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.

UK TOP SECRET STRAP1

## Information Operations: The Social Web

twitter

You Tube

facebook

flickr

**Deliver messages and multimedia content across Web 2.0**

**Crafting messaging campaigns to go 'viral'**

UK TOP SECRET STRAP1

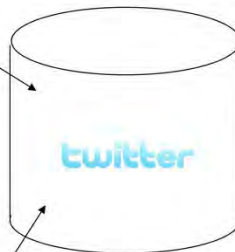
CNIO

## Twitter TDI Development

twitter

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

```
_twitter_sess=BAh7DjoTcGFzc3dvcmRfdG9rZW4iLWfhMG13
ZDk0OTliNTJkOWQzMzMyYTc2%250AOTkyNjM0Y2ZmM2Y
5NDNjYmQ6DGNzcmZfaVQiaTJmYjRhNTk5ZDVkMjlkMmF
h%250AN2U4ZDczOWM2ZWFMNDc5lidzaG93X2Rpc2Nvd
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mV3X3VzZXJfZmxvdzA6EXRyYW5zX3Byb21wdA6CXVz%
250AZXJpBAPZMAEiCmZsYXNoSUM6J0FjdGlvbknVbnRyb
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VkwA6B2lkiVhZDRIOGM2NmM0ZjRkM2U2NGI5%250AZG
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Q%253D%253D--
a3894361aa489c2cd51ff326358c92f2e4d39cd8;
```



Login Server

UK TOP SECRET STRAP1

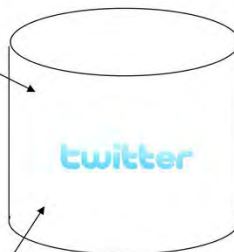
CNIO

Twitter TDI Development

twitter

Base64 + double encoded URL

```
0000000 004 \b { 016 : 023 p a s s w o r d _ t
0000020 o k e n " - a a 0 b 7 d 9 4 9 9
0000040 b 5 2 d 9 d 3 3 3 2 a 7 6 9 9 2
0000060 6 3 4 c f f 3 f 9 4 3 c b d : \f
0000100 c s r f _ i d " % 6 f b 4 a 5 9
0000120 9 d 5 d 2 9 d 2 a a 7 e 8 d 7 3
0000140 9 c 6 e a f 4 7 9 " ' s h o w _
0000160 d i s c o v e r a b i l i t y _
0000200 f o r _ s o l o _ o n l y 0 : 025
0000220 i n _ n e w _ u s e r _ f l o w
0000240 0 : 021 t r a n s _ p r o m p t 0
0000260 : \t u s e r i 004 003 331 0 001 " \n f l
0000300 a s h I C : A c t i o n C o n
0000320 t r o l l e r : : F l a s h : :
0000340 F l a s h H a s h { \0 006 : \n @ u
0000360 s e d { \0 : 007 i d " % a d 4 e 8
0000400 c 6 c 4 f 4 d 3 e 6 4 b 9 d f
0000420 f 0 b f 8 e c d 8 4 2 : 017 c r e
0000440 a t e d _ a t l + \b e 202 % : 001
0000460
```



Login Server

UK TOP SECRET STRAP1

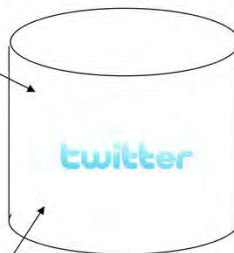
CNIO

Twitter TDI Development

twitter

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

UK TOP SECRET STRAP1

CNIO

Twitter TDI Development

twitter



**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**