

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.

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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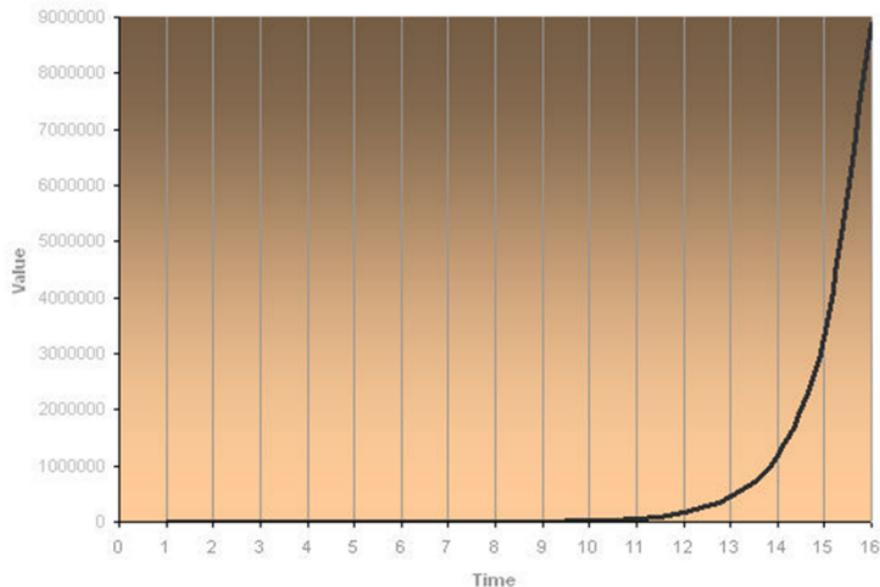
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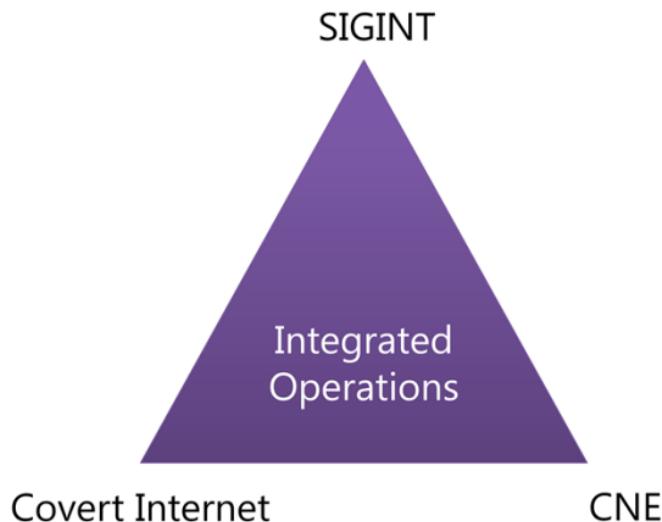
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Online
HUMINT

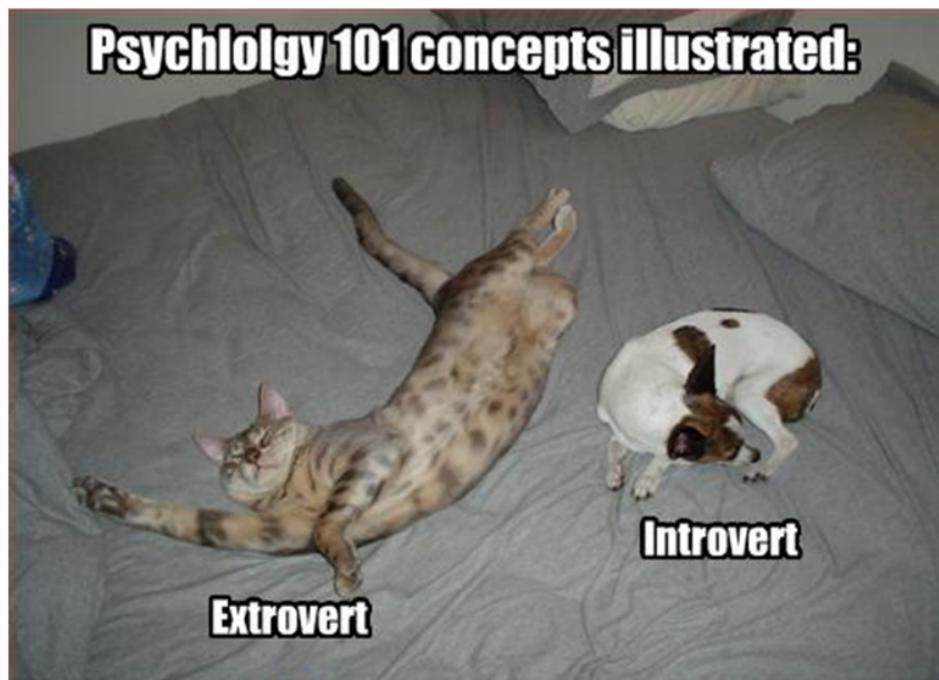
Strategic
Influence

Disruption
and CNA

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Psychology 101 concepts illustrated:



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Human Science?

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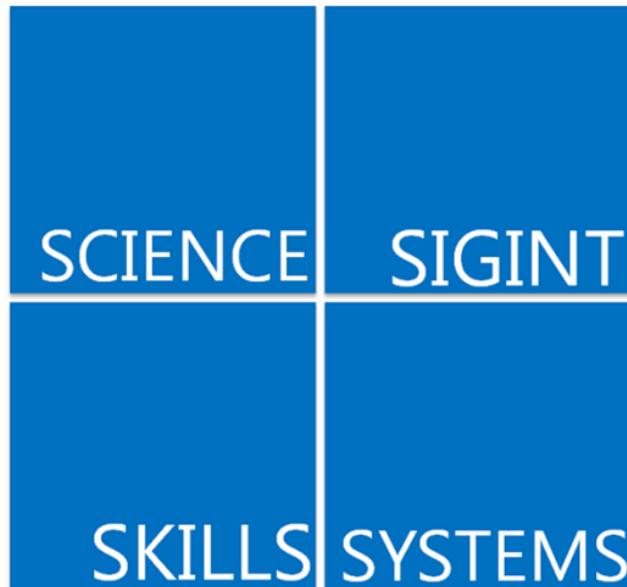
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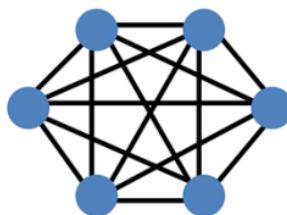
-Viktor-

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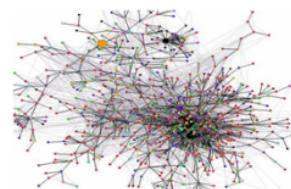
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Individuals



Groups



Socio-Cultural

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



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OCEAN



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OCEAN



Openness Contentiousness Extroversion
Agreeableness Neuroticism

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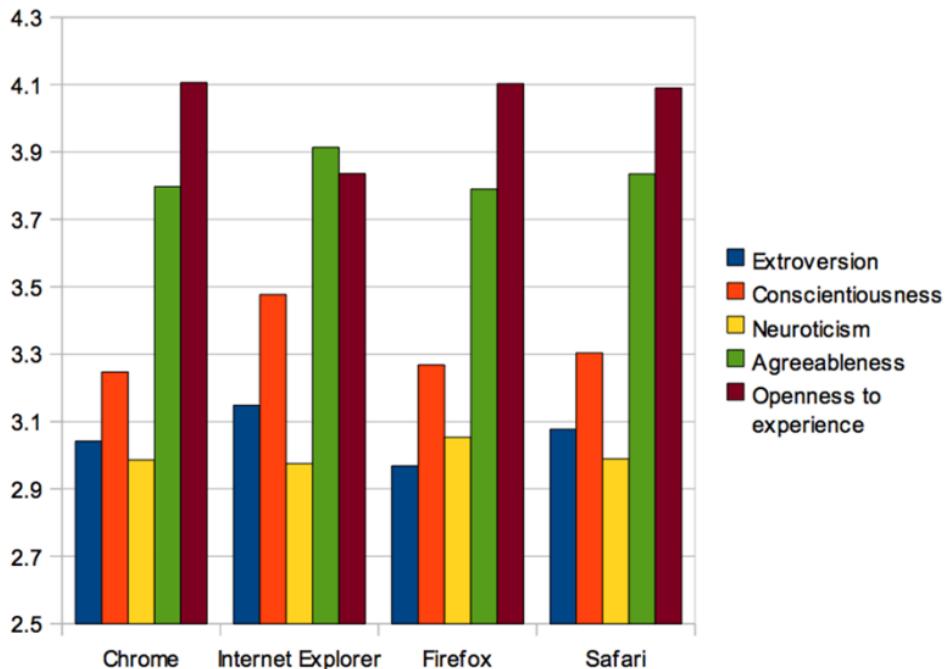


VS



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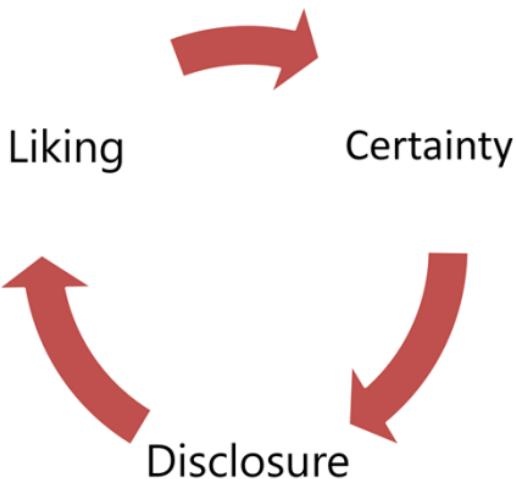
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USA, FVEY



What
can we
tell?

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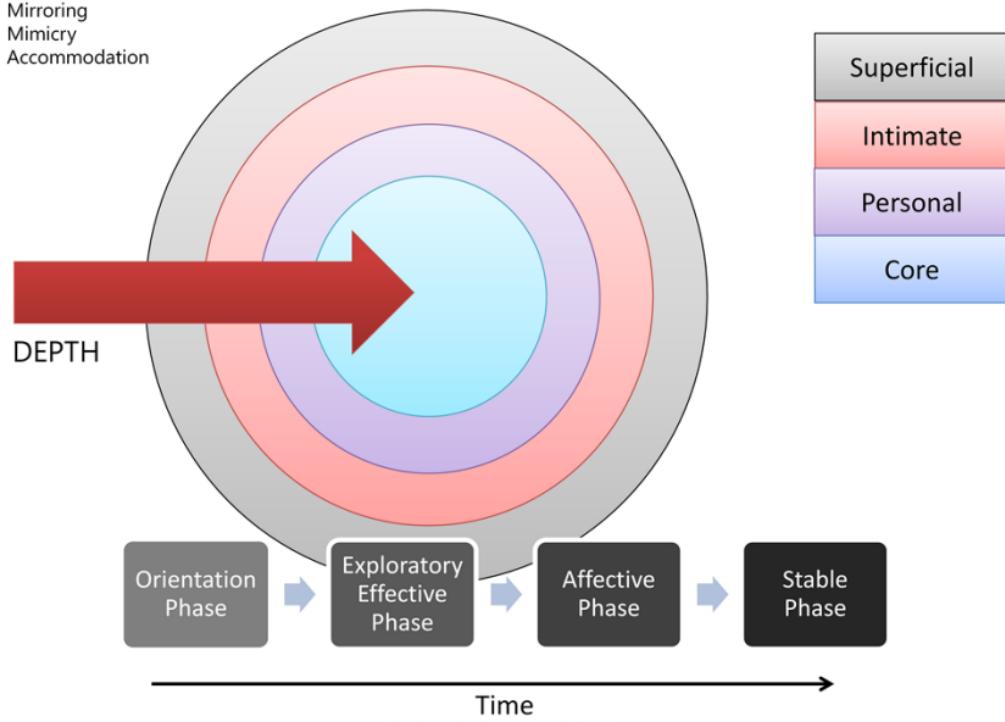


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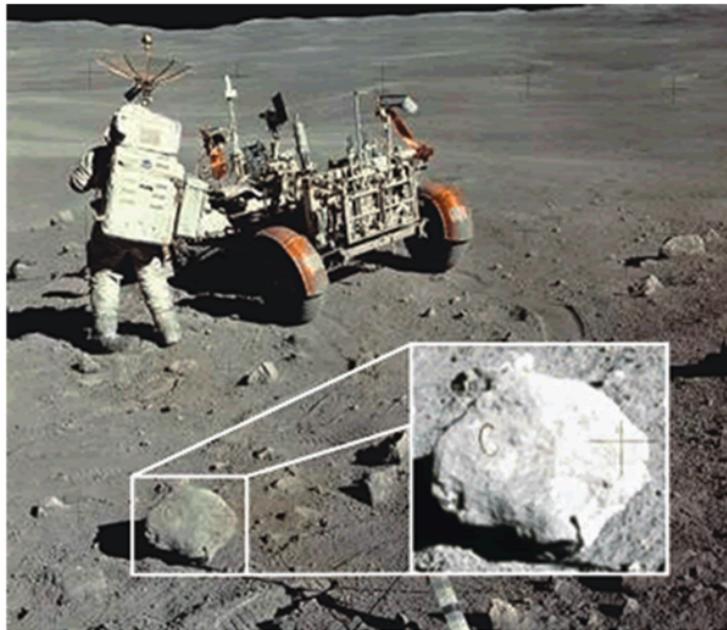
Facilitated through:

Mirroring
Mimicry
Accommodation



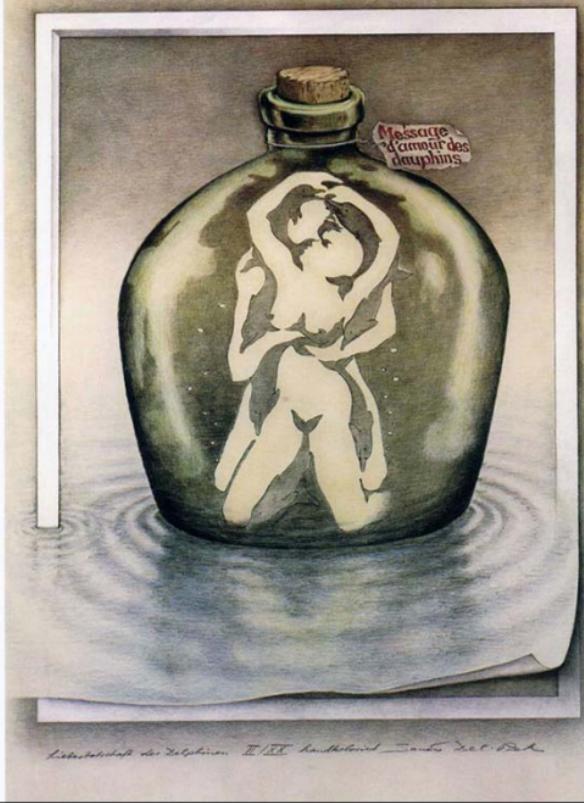
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TOP SECRET//COMINT//REL



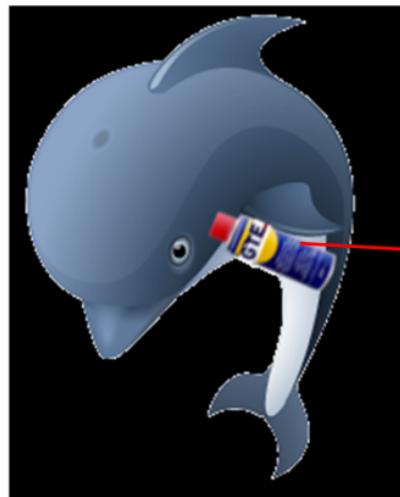
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SQUEAKY DOLPHIN



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

SQUEAKY DOLPHIN - City Activity | Actions ▾

Select a City

LAOS

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

Facebook - Most...ast 24 hours) refreshed today at 14:37:57.

Http://nbc...oonews
Http://nbc...myshoo
Http://nbc...esia.com
Http://nbc...go.com/
Http://nbc...pie.com
Http://nbc...9705119
Http://nbc...onlylaxo
Http://nbc...4457864
Http://nbc...cretfreq
Http://nbc...w.co.uk/
SITEURL
undefined
Http://nbc...shootMe
Http://nbc...group.php
Http://nbc...rescore
Http://nbc...5787784
Http://nbc...gawking
Http://nbc...dot.com
Http://nbc...com/

[View results](#)

Blog Name: job+vacancies+nigeria
Total Views: 88
Total View's %: 100%

Instagram - movies
OrlineHt...dFun
Nigerian_gy...Guide
StockP...Odyssey
INFO-DIARY...
Johnson...ns+...
Experine...Kitchen

[View results](#)

YouTube - Most...past 24 hours) refreshed today at 14:37:57.

vNqvEBJU00XUD
oL17c8dOk
FirstFwxtKleg
4j0nOOP2M04
19573kG8tE
_MDOpfYnq8
Ob7vCteFUJc
HoewwGQ0
HPbDkgYfRk
1vRkonGe5e4
z1dP5T80Ubw

2P_aCh8_Pi
OEGK1kbAwh4
Bfk3UwvqV
ONVRRIQWVYs
ahg69fTLzr
gtog6WYerCc
xb8kGv7udSE
EwJbdh7wOg
SZVZSA3QG

[View results](#)

Diagram: An orange arrow points from the "job+vacancies+nigeria" entry in the center column towards the right column, specifically targeting the YouTube section.

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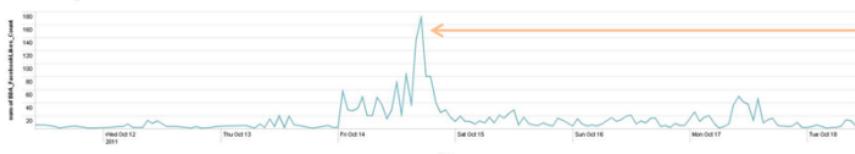
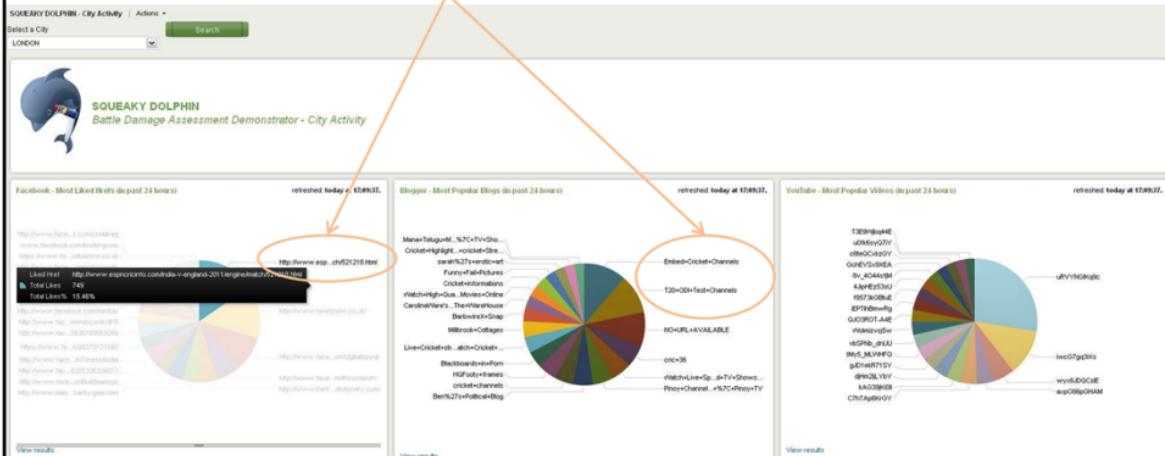
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Cricket Related Activities in London, England

Embed+Cricket+Channel

T20+ODI+Test+Channels

ESPN CricInfo India Vs England Page ‘Liked’



‘Facebook’ Likes for URLs containing ‘liam fox’

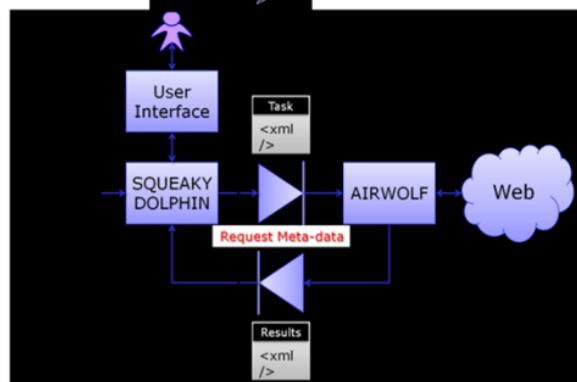
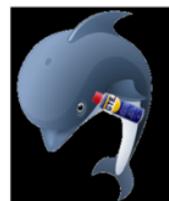
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*So Passive gives us...
Scalability.*

But, we don't have context!

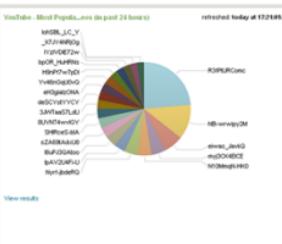
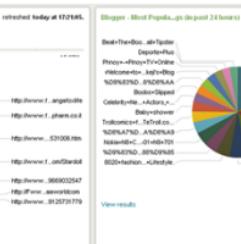
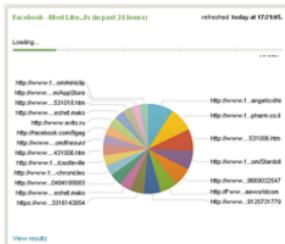
Targeted
enrichment
is the
solution.



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



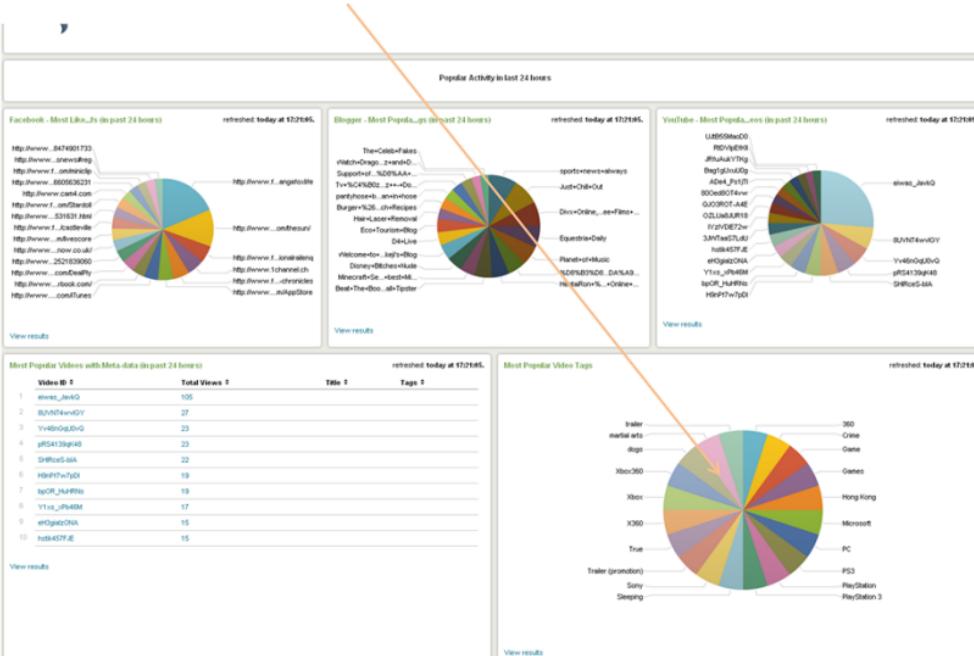
**YouTube
Tags**

14FEB
BAHRAI
N
MARCH
RALLY

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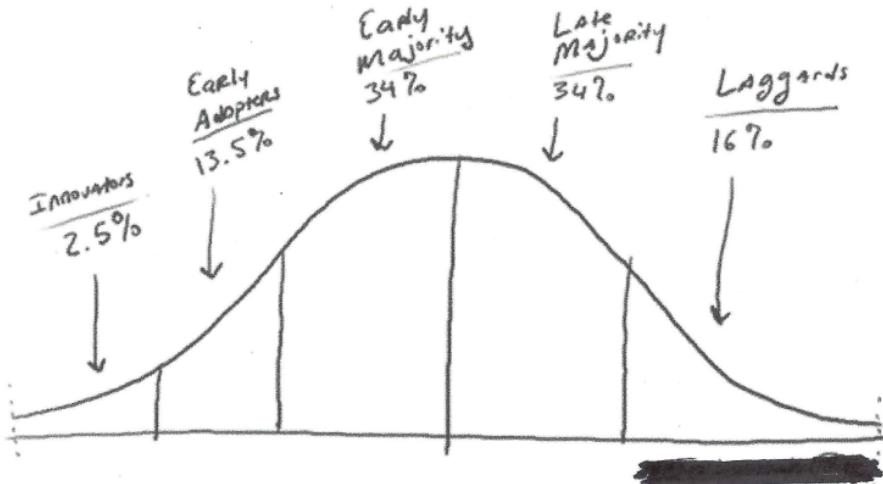
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YouTube Game Trailer in London, England



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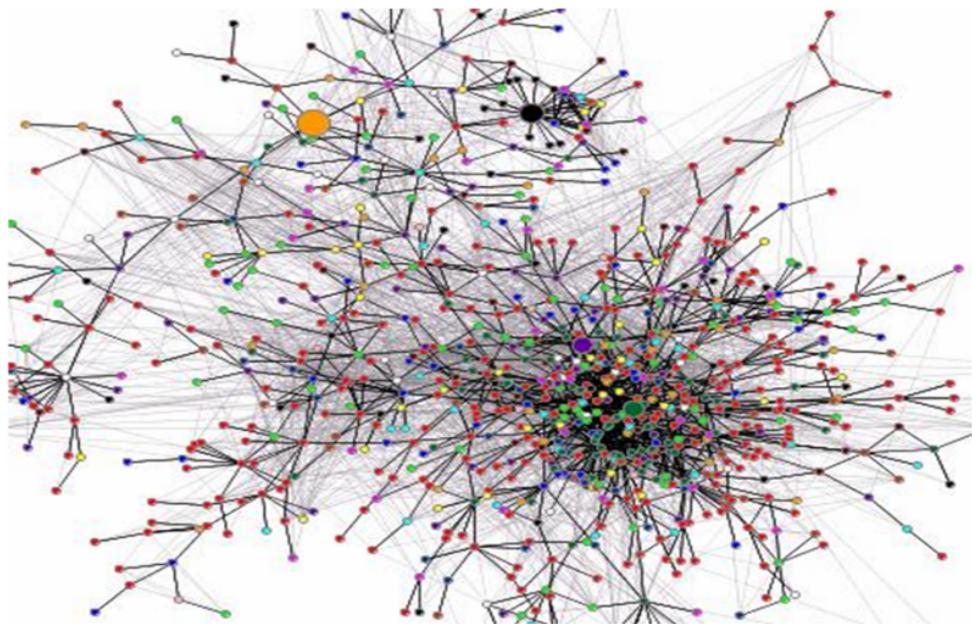
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HOLLOW POINT

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Optimising Influence

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NEWTONS CAT



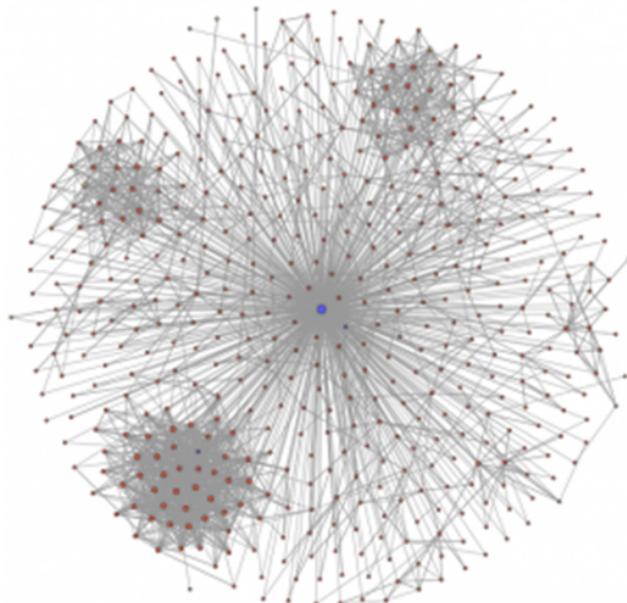
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TOP SECRET//SI//REL TO USA, FVEY

@ [REDACTED] Right on bro

8 hours ago

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

10 hours ago

@ [REDACTED] Yeah, so true!

10 hours ago

RT @ [REDACTED] @ [REDACTED] you might want to be suspicioous
about [REDACTED]>> what do you say @ [REDACTED]?

11 hours ago

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

@ [REDACTED]

11 hours ago

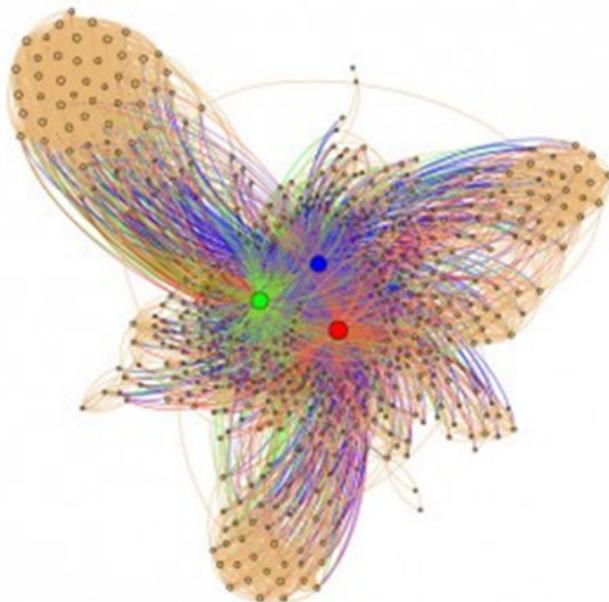
@ [REDACTED] you might want to be suspicioous about

12 hours ago

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

5 Feb

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Influence @ Scale

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

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

English [US]

SEARCH

Login

Fire Ant

Open Source Visualisation

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+ 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 [REDACTED]@bchq.gov.uk
2. By filling this form

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



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

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GTE

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

UK TOP SECRET STRAP1

Information Operations: The Social Web



Deliver messages and multimedia content across Web 2.0

Crafting messaging campaigns to go 'viral'

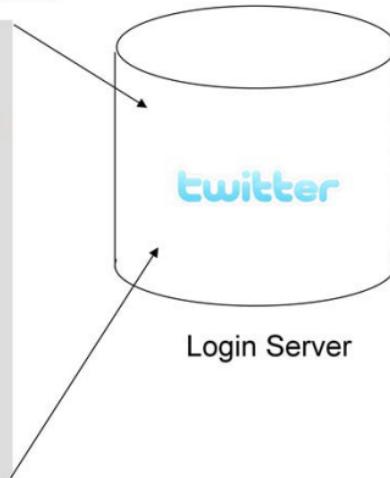
CNIO

Twitter TDI Development



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

```
_twitter_sess=BAh7DjoTcGFzc3dvcnRfdG9rZW4iLWFhMGI3  
ZDk0OTiNTJKOWQzMzMyYTc2%250AOTkyNjM0Y2ZmM2Y  
5NDNjYmQ6DGNzcmZfaWQiJTZmYjRhNTk5ZDVkMjkMmF  
h%250AN2U4ZDczOWM2ZWFrNDc5ldzaG93X2RpC2Nvd  
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mV3X3VzZXJfZmxvdzA6EXRyYW5zX3Byb21wdDA6CXVz%  
250AZXJpBAPZMAEiCmZsYXNoSUM6J0FjdGlvbkNvbN Ryb  
2xsZXI6OkzsYXNoOjpG%250AbGFzaEhhc2h7AAY6CkB1c2  
VkeWA6B2IkliVhZDRIOGM2NmM0ZjRkM2U2NGI5%250AZG  
ZmMGJmOGVjZDg0MjoPY3JIYXRIZF9hdGwrCGWCJS4nA  
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```



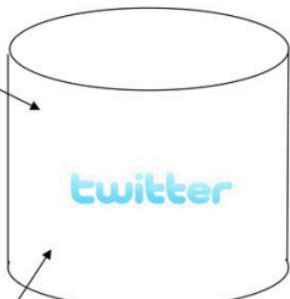
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Twitter TDI Development



Base64 + double encoded URL

```
0000000 004 \b { 016 : 023 p a s s v 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 i y 0 : 025  
0000220 i n _ n e w _ u s e r _ f l o v  
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 1  
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 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 1 + \b e 202 % . ' 001  
0000460
```



Login Server

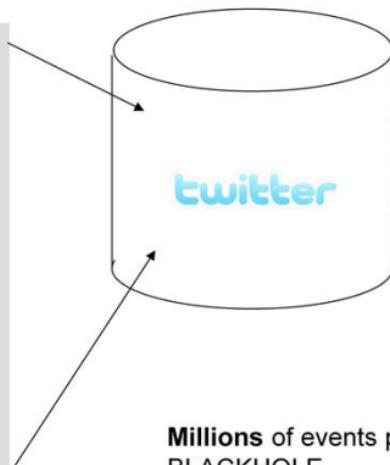
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Twitter TDI Development



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

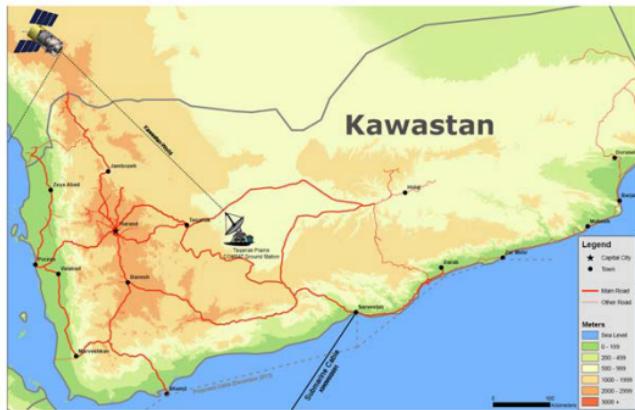


**Millions of events per day feeding
BLACKHOLE**

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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