





#### WHAT IS SOCIAL ANTHROPOID?

- A CONVERGED COMMS DATABASE. IT ALLOWS YOU TO SEE WHEN YOUR TARGETS HAVE COMMUNICATED:
  - VIA PHONE
  - OVER THE INTERNET
  - OR USING CONVERGED CHANNELS(EG SENDING E-MAILS FROM A PHONE OR MAKING VOICE CALLS OVER THE INTERNET).





# WHAT ABOUT EXISTING COMMS DATABASES?

■ WHEN SOCIAL ANTHROPOID CONTAINS
ALL THE NECESSARY DATA AND HAS ALL THE
CORE FUNCTIONALITY OF THE LEGACY TOOLS,
SOCIAL ANIMAL,
REFORMER/HAUSTORIUM AND
SALAMANCA WILL BE DECOMMISSIONED.





#### WHY?

- SCALING HUGE VOLUMES OF EVENTS, EXISTING SYSTEMS ARE CREAKING.
- CONVERGENCE.
- APPROPRIATE DESIGN.

#### BUT STILL NEED TO:-

- ENRICH
- VISUALISE
- MERGE WITH NSA DATA SOURCES





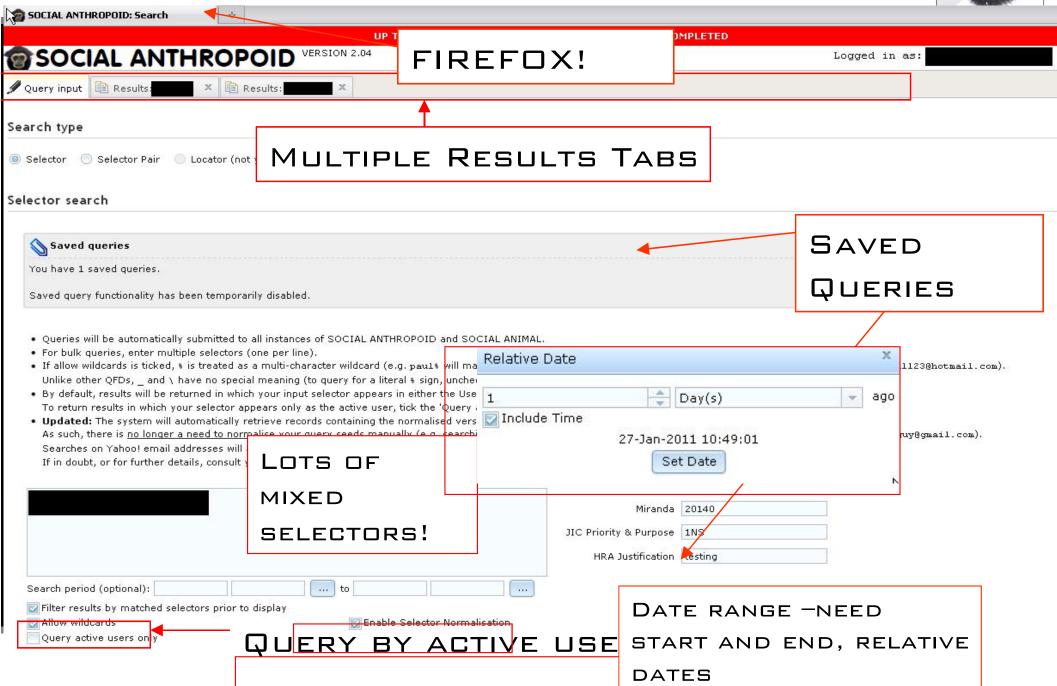
#### WHAT DATA IS IN SOCIAL ANTHROPOID?

- ALL OF SALAMANCA
- SOCIAL ANIMAL
- INSTANT MESSENGER
- WEBMAIL
- SIP AND H323 VOIP, YAHOO VOICE
- BLACKBERRY
- MMS
- SMS
- GTP (GPRS SESSION SET UPS)
- SMTP, POP3 AND IMAP



#### QUERY SCREEN



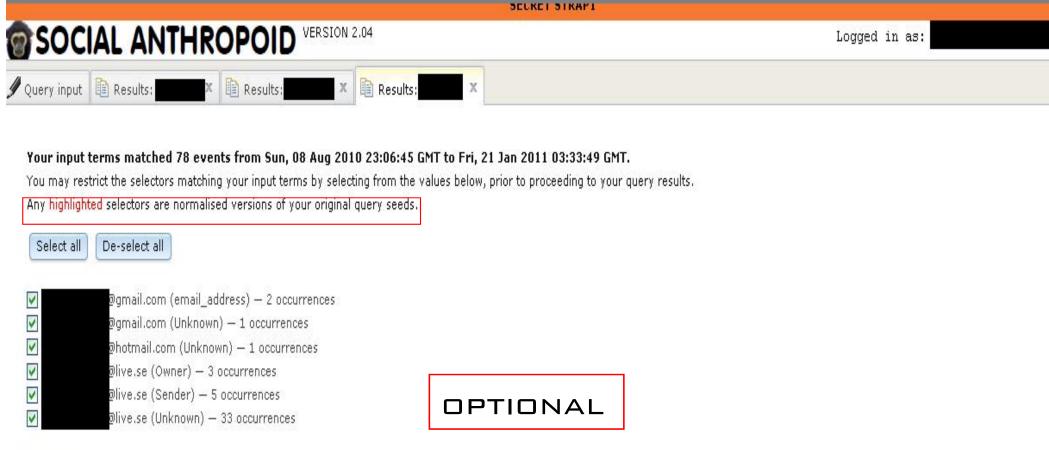




Continue

#### SECOND STAGE QUERY SCREEN





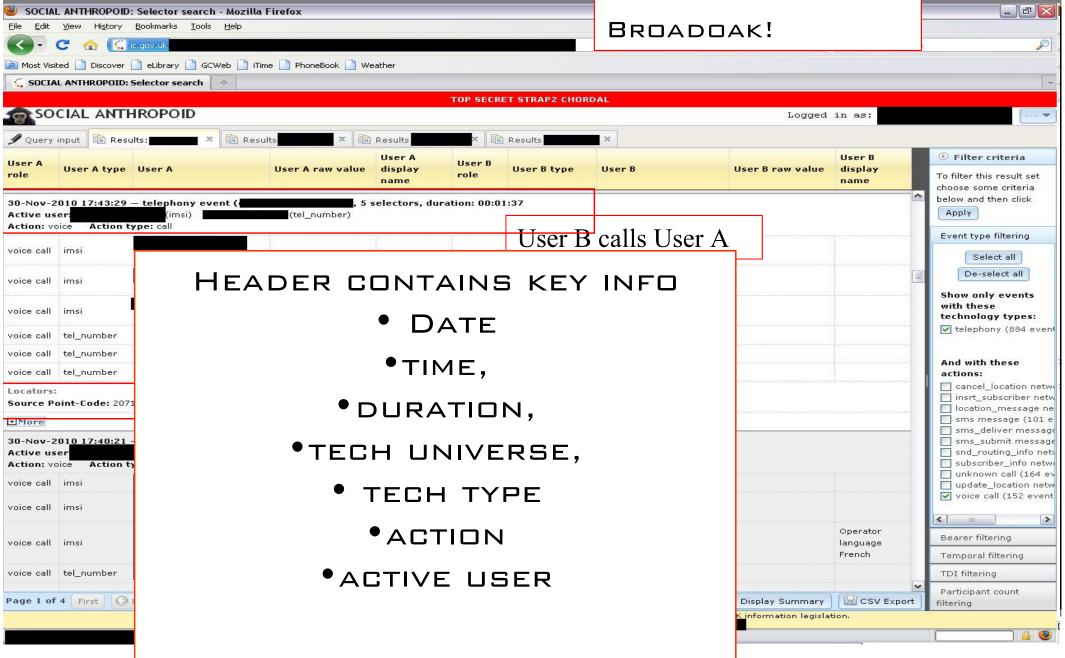
🔯 Filter results by matched selectors prior to display.



#### RESULTS SCREEN

WILL BE BETTER WITH







# RESULTS : MORE METADATA



SOCIAL ANTHROPOID: Selector search	:h - Mozilla Firefox									
<u>File Edit View History Bookmarks Tool</u>	s <u>H</u> elp									
G → C · C · C · C · C · C · C · C · C · C									P	
Most Visited Discover eLibrary G	CWeb 📄 iTime 📄 PhoneBook 📄 V	Veather .								
50CIAL ANTHROPOID: Selector search	44									-
			TOP SECR	ET STRAP2 CHO	RDAL					
SOCIAL ANTHROPOID							Logged	in as:		🔻
Query input Results:	X Results: X	Results	×	Results	×				_	
User A		User A	User B		122			User B		Filter criteria
role User A type User A	User A raw value	display	role	User B type	User B		User B raw value	display name		To filter this result set
30-Nov-2010 17:43:29 — telephony e	vent ( ), 5	selectors, dur	ration: 00:0	1:37					^	choose some criteria below and then click
Active user:										Apply
Action: voice Action type: call				······································	1					
voice call imsi				Called-MSC						Event type filtering
										Select all
voice call imsi			caller	tel_number						De-select all
				Called-MSRN						Show only events
voice call imsi				Called-MSKN						with these technology types:
voice call tel_number				Called-MSC						▼ telephony (884 event
voice call tel_number				Called-MSRN						4,7 ,70 1,5
voice call tel_number		İ	caller	tel_number	НО	VER D	VER TO			And with these actions:
Locators:					F	PLAY	THE TOOL	TIPS		actions.  cancel_location netwo
	INFO IN (	JED		FAK	Γ	,, <b>_</b> , (,				☐ insrt_subscriber netw ☐ location_message ne
ELESS UNITED IN INC.		ع ، ہ	יי כי		F	R THE	METADAT.	A		sms message (101 e
SRI:										sms_deliver message
Bearer: NEUKB54601 SigAd: UKC-121	PDDG: ON									snd_routing_info net
Source:										subscriber_info netwo
BLACK HOLE filename: 20101130-19000	0-SALAMANCA-done/salextf_02U2	ZWW.gz <b>Key:</b> 4	CF56FC9938	0FC051DAB1BE6	0000243C	Plugin: S v2				unknown call (164 ev
Additional meta-data:		. 48								voice call (152 event
	ADDITIONAL_NUMBER_2:	0								and the second s
ADDITIONAL_NUMBER_TYPE_2: N, CALL_ANSWERED_STATE: A, CALL_DIRECTION: MT, CALL_END_STATE: C, CALL_SUBTYPE_INDICATOR: Normal Telephone call,  CALL_TYPE_INDICATOR: E, CALLING_ADDRESS_IND: I, CALLING_COUNTRY_CODE: 234, CALLING_PARTY_CATEGORY: O, CIRCUIT_ID_CODE: 39, CLI_INCLUDED: 1,								<u> </u>		
COLLECTION_EQUIPMENT_ID : RJ, DE	급하는 경기를 가지 않는 것이 없는 것이 없는 그들이 있다면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면							LODED . I,		Bearer filtering
DIALLED_COUNTRY_CODE: 44, DIALL	ED_NUMBER_INFERRED : I, EL	APSED_TIME :	000137, <b>IM</b>	SI_INFERRED:	I, INTERN	NATIONAL_INDI	CATOR: 1,			Temporal filtering
INTERNETWORK_INDICATOR: 0, LOCA ORIGINATION_POINT_CODE: 20082, F	: . ' 1 1 1 1 1 1 1	2/8/201	RN:			XCHANGE_NAMI		(MESLOT : 25		TDI filtering
GRIGINATION_POINT_CODE : 20082, F	C. OKN_SIG_IIMESCOI : OKNE	D34001, <b>3AIEL</b>	TTIE_TMDI	CATOR: 0, 515	LEN_ID : F	MACCI, FLR:	*OICE_II	Inicaco ( ; 25	~	
Page 1 of 4 First Previous 1	2 3 4 O Next La	st (4)	Go		<b>Ž</b> ↓ Cha	inge Sort Order	Display Summary	CSV Exp	ort	Participant count filtering
	This information is exempt under			Act 2000 (FOIA) ai	nd may be	exempt under oth	ner UK information legislat	tion.		-
Transferring data from	Refer an	y FOIA queries t	o GCHQ on							



# FILTERS, SUMMARISATION AND DRILL-DOWN SEARCHES



					TOI SE	CINET STIMILE V	TORDAL				
SOCIAL	ANTHRO	POID								Log	ged in as: ▼
<b>∮</b> Query input	Results:	x R	Results: ×								
User A role	User A type	User A	User A raw value	User A display name	User B role	User B type	User B	User B r	aw di	ser spl am	• Filter criteria  To filter this result set choose some criteria below and then click Apply
08-Dec-2010 09: Active user: Action: unknown	:17:03 — te Action typ	(imsi)	, 1 selector, dur	ation: 00	:00:00						Participant count filtering
unknown call Locators: Source Origin-Poi	imsi int-Code: 20	147 Source MSC:	Des	tination D	est-Poin	not_available	not available				Show only events in which the participant count:  Is greater than
<b>±</b> More			<u> </u>								R
08-Dec-2010 09: Active user: Action: update_location		lephony event ( (imsi) ion type: network	), 1 selector, dur	ا خا			MMAR EHAVII				
Locators: Source MSC:		Source VLR:			1						
08-Dec-2010 09: Active user: Action: unknown	Action typ	(imsi)	, 1 selector, dur	ration: 00	:00:00	not available	not available		-		
Locators:	111121			.1		1,70C_available	not available				Bearer filtering
	int-Code: 20	147 Source MSC:	Des	tination D	est-Pnin	t-Code: 60432				>	Temporal filtering
Page 1 of 59 Firs	st   ( Pre	vious 1 2	3 4 5 6	. Next	t 21 c	Change Sort Ord	der Display S	Summary	CSV Exp	ort	TDI filtering
Last (59)	Go										Participant count filtering
Source MSC:  +More  08-Dec-2010 09: Active user: Action: unknown unknown call Locators: Source Origin-Poi  Page 1 of 59 First	Action typ imsi int-Code: 20 st Pre	lephony event (imsi) e: call	Des	tination D	est-Pnin	t-Code: 60432	not available der Display S	Gummary	☐ CSV Exp	>	Temporal filtering TDI filtering





# QUICK WINS

AKA NEW THINGS WE CAN DO IN SOCIAL ANTHROPOID THAT WE COULDN'T DO BEFORE



#### REDIRECTED CALLS



SOCIAL ANTHROPOID: Selector search - Mozilla Firefox							
Elle Edit View History Bookmarks Looks Help						· 1879	
C & C icaox.u						☆ + <b>★</b> + Searc	th GCWeb P
Most Visited Discover Clibrary CCWeb Time PhoneBook Weather							
SOCIAL ANTHROPOID: Selector search 💠		100000000000000000000000000000000000000					
SOCIAL ANTHROPOID		TOP SE	CRET STRAP2 UK	EYES ONLY CHOR	DAL	Logged	in as:
						209924	111 431
Query input Results:	X						*
User A type User A User A raw value	User A display	User B	User B type	User B	User B raw value	User B display	① Filter criteria
	name	roic				name	To filter this result set choose some  criteria below and then click   Apply
28-Oct-2010 14:36:02 — telephony event	00:00:00					L <sup>*</sup>	Event type filtering
Action: voic							
LULATURS: MUCH MORE		ller	tel_number		in the second se		
Source Cell							Show unly events with these technology types:
<b>±</b> More							✓ telephony (11024 events)  ✓ tunnel (45 events)
28-OLL-201 CONTEXT IN SOCIA	\ L				•		
Active user Action: voic	-						And with these actions:
		ller	tel number				create funnel (45 events)
ANTHROPOID		noi	Redirection-				sms message (305 events)
voice call			Number				sms_deliver message (503 events) sms_submit message (293 events)
Locators:			to constitution of the second				✓ unknown call (3783 events) □ update location network (40 events)
Source Point-Code: 40545 Destination Point-Code: 40103							✓ voice call (4206 events)
Loss							1
SRT:  Bearer: INQASSIMIT SigAd: IKC-203 PDDB: F3							
Source:							
BLACK HOLE filename: 20101028 140000 SALAMANCA dono/salextf_02QPGU.gz Key: 4CC0	A60F9380FC05	60387E320	0003967 Plugin:	S v2			
Additional meta-data:							
ADDITIONAL NUMBER 1: ADDITIONAL NUMBER TYPE 1:5, CALL ANS CALL TYPE INDICATOR:E, CALLING ADDRESS IND:I, CALLING COUNTRY CODE:						ATOR : Diverted, T ID : RO,	
DESTINATION_EXCHANGE_NAME : DOHA, DESTINATION_POINT_CODE : 40545, DIALLI	ED_ADDRESS	IND : N,	DIALLED_COUNT	RY_CODE : 9/4, EI	APSED_TIME: 000010, INTERNA	TIUNAL_INDICATUR : 1,	
<pre>INTERNETWORK_INDICATOR: 0, ORIGINATION_EXCHANGE_NAME: MUMBAI/ISC5, ORI : RADI1, VOICE TIMESLOT: 09</pre>	IGINATION_P	OINT_COD	E: 40103, RETUR	N_SIG_TIMESLOT	; QAINS80401, <b>SATELLITE_INDI</b>	CATOR: 0, SYSTEM_ID	
28-Oct-2010 13:50:05 — telephony event (voip), 2 selectors, duration: 00:00:13							
Action: unknown Action type: call							
unknown	Ī		i		i		
call tel_number		dialled	tel_number				( ) mi
Locators:							Bearer filtering
Source Point-Code: 40235 Source IPV4: Destination IPV4:						<u> </u>	lemporal filtering
Page 1 of 160 First Previous 1 2 3 4 5 6 Next Last	(160)	Gυ			Change Surt Order Dis	play Summary   🕍 CSV Export	TDI filtoring
							Participant count filtering
This information is exemp	pt under the Fre Refer any FOIA	edom of In	iformation Act 2000 GCHO un	(FOIA) and may be	exempt under other UK information	legislation.	
	2.2. 2.1, 1.02	4					A 6



#### CONVERGENCE







# THERE ARE Z PRIMARY VECTORS FOR CONVERGED EVENTS:

- GRX (GPRS ROAMING EXCHANGE) USES GTP (GPRS TUNNELLING PROTOCOL).
- CORE INTERNET COLLECTION LEAKY GATEWAYS.



#### **LEAKY GATEWAYS**

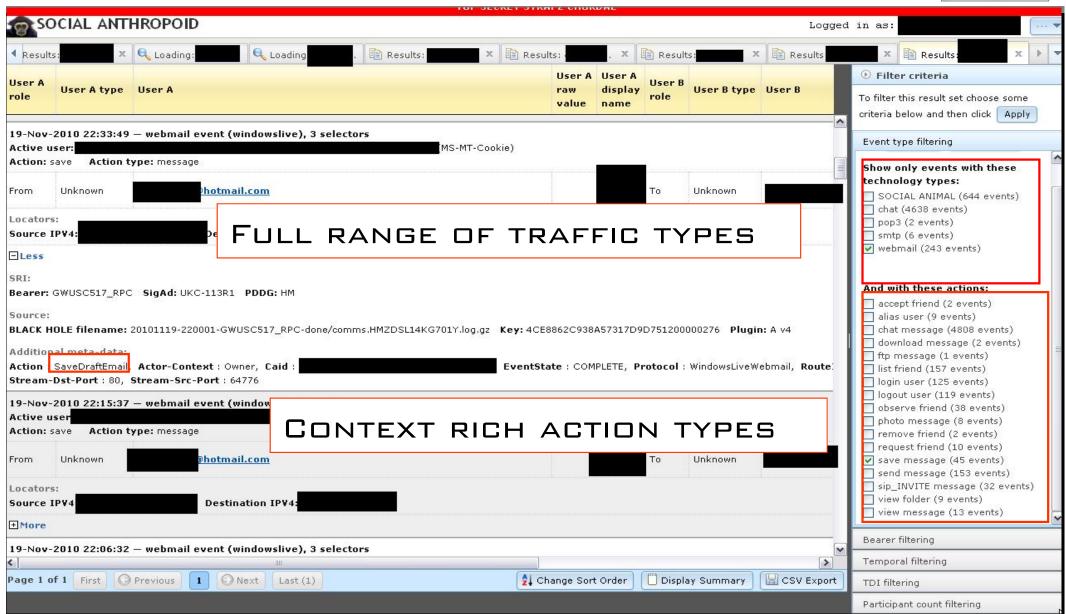


								_ =
<u>File Edit Yiew History Bookmarks Tools Help</u>						200		
C X 🏠 🗓 ic.gov.uk						☆ - Sea	arch GCWeb	
Most Visited 🗋 Discover 📄 eLibrary 📄 GCWeb 📄 iTime 📄 PhoneBook 📄	Weather							
SOCIAL ANTHROPOID: Selector search								
		TOP SECRE	T STRAP2 C	HORDAL				
SOCIAL ANTHROPOID						Logged in as:		
<b>∮</b> Query input  Results: X								
User A role User A type User A	User A raw value	User A display name	User B role	User B type	User B		er B raw lue	User B display name
+ More								^
24-Oct-2010 06:11:57 — webmail event (yahoo), 3 selectors  Active user: (UserId) (AccountOwner Action: send Action type: message	r)	(MachineId)		(X-huawei	-IMSI)			
From Unknown @yahoo.com			From	Unknown	@ y a	hoo.com		
Locators: Source IPV4: Destination IPV4:								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Less								
				H	ARD AS	SOCIA	TIO	N
SRI: Bearer: IRUKC035_C0109 SigAd: UKC-113CV PDDG: HM								
Source:								=
BLACK HOLE filename: 20101024-060000-IRUKC035_C0109-done/comm	ns.HMZDSVF4U6	601Y.log.gz <b>K</b> e	<b>y:</b> 4CC3F79	89380FC0522D0999	9A000002B8 Plugin: A	<b>1</b> 4		
Additional active user information:					_			
User agent: SAMSUNG-GT-S5233A/1.0 SHP/VPP/R5 Jasmine/1.0 Nextrea	ming SMM-MMS/	/1.2.0 profile/MI						<u> </u>
		Zizio promorriz	DP-2.1 confi	guration/CLDC-1.1				
Additional meta-data: Action : SendEmail, Actor-Context : Owner, Caid : Dst-Port : 80, Stream-Src-Port : 17069, Via : infoX WAP Gateway V3	00R001, Huawei	EventS			YahooWebmail BouteIn	Q4 .	da i DD Str	e am-
Action : SendEmail, Actor-Context : Owner, Caid :  Dst-Port : 80, Stream-Src-Port : 17069, Via : infoX WAP Gateway V3		EventS			More		JL	VFO
Action : SendEmail, Actor-Context : Owner, Caid +  Dst-Port : 80, Stream-Src-Port : 17069, Via : infoX WAP Gateway V3  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors  Active user: (UserId) (AccountOwned Action: send Action type: message		EventS Technologies		LETE, Protocol : \	More		JL 11	VFO
Action : SendEmail, Actor-Context : Owner, Caid :  Dst-Port : 80, Stream-Src-Port : 17069, Via : infoX WAP Gateway V3  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors  Active user: (UserId) (AccountOwner Action: send Action type: message  From Unknown		EventS Technologies	tate : COMP	LETE, <b>Protocol</b> : 1	More	USEFL	JL II	VFO
Action : SendEmail, Actor-Context : Owner, Caid :  Dst-Port : 80, Stream-Src-Port : 17069, Via : infoX WAP Gateway V3  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors  Active user: (UserId) (AccountOwner Action: send Action type: message  From Unknown @yahoo.com  Locators:		EventS Technologies	tate : COMP	LETE, <b>Protocol</b> : 1	More	USEFL	JL 11	NFO
Action: SendEmail, Actor-Context: Owner, Caid+ Dst-Port: 80, Stream-Src-Port: 17069, Via: infoX WAP Gateway V3  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors Active user: (UserId) (AccountOwner Action: send Action type: message  From Unknown @yahoo.com  Locators: Source IPV4: Destination IPV4:		EventS Technologies	tate : COMP	LETE, <b>Protocol</b> : 1	More	USEFL	JL II	VFO
Action: SendEmail, Actor-Context: Owner, Caid+ Dst-Port: 80, Stream-Src-Port: 17069, Via: infoX WAP Gateway V3  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors Active user: (UserId) (AccountOwner Action: send Action type: message  From Unknown @yahoo.com  Locators: Source IPV4: Destination IPV4:	r)	EventS Technologies	tate : COMP	LETE, <b>Protocol</b> : 1	MORE	USEFL	JL	VFO
Action: SendEmail, Actor-Context: Owner, Caid: Dst-Port: 80, Stream-Src-Port: 17069, Via: infoX WAP Gateway V3  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors Active user: (UserId) Action: send Action type: message  From Unknown @yahoo.com  Locators: Source IPV4: Destination IPV4:  More  24-Oct-2010 06:10:16 — webmail event (yahoo), 5 selectors	r)	EventS Technologies (MachineId)	tate : COMP	(X-huawei	MORE	USEFL hoo.com		VFO



### C<sub>2</sub>C







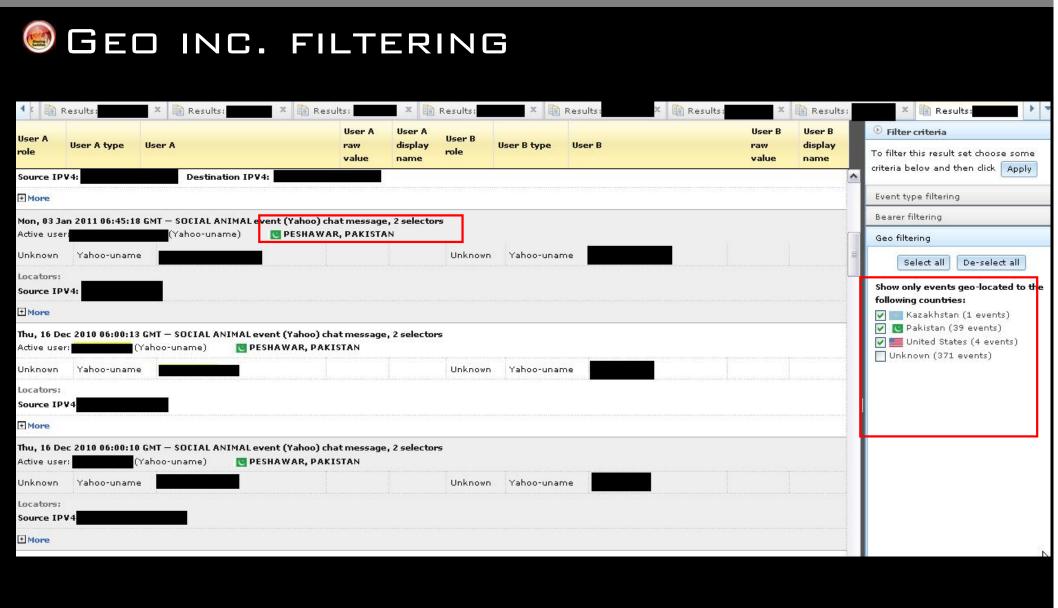


#### WHAT FEATURES ARE WE GETTING NEXT?

- SCALE
- GEO INCLUDING NEW FILTERING OPTIONS
- SELECTOR PAIRS QUERY
- BROAD OAK ENRICHMENT
- LOCATOR QUERY
- EMAIL DOMAIN QUERY
- TDS
- DISPLAYNAMES









Search type

Selector Selector Pair

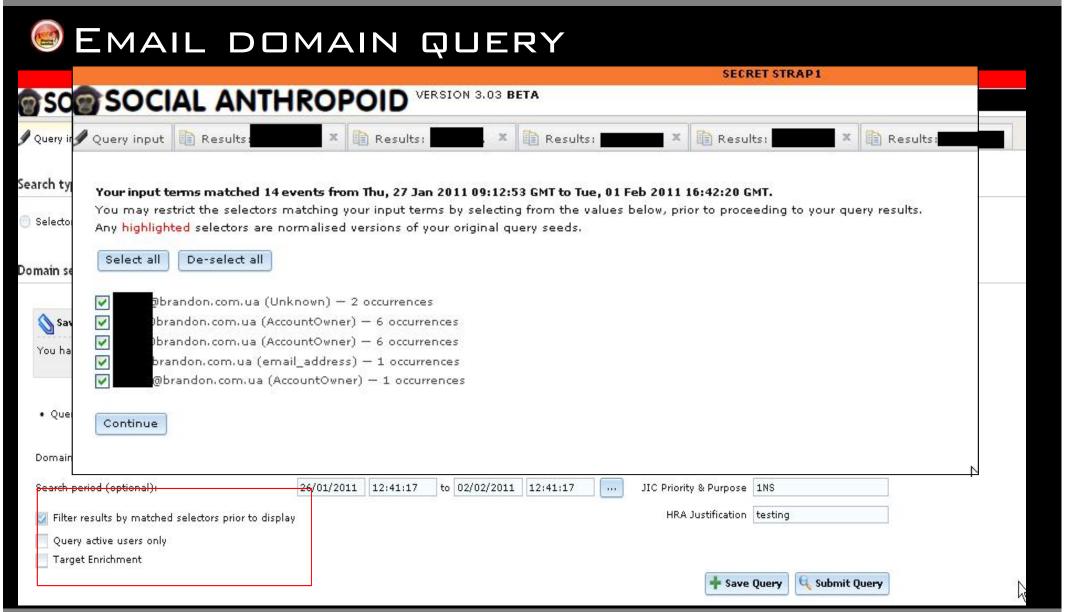


# SELECTOR PAIRS QUERY

hotmail.com hotmail.com	hotmail.com notmail.com	Miranda 20140  JIC Priority & Purpose T  HRA Justification preparing slides for training
Search period (optional):  Filter results by matched selectors pri Allow wildcards  Query active users only	r to display	+ Save Query Submit query











## ● LOCATOR QUERY

# Selector Selector Pair & Locator Email domain Locator search Saved queries You have 1 saved queries.

- · Queries will be automatically submitted to all instances of SOCIAL ANTHROPOID but NOT to SOCIAL ANIMAL.
- For bulk queries, enter multiple locators (one per line).
- If allow wildcards is ticked, \* is treated as a multi-character wildcard.

  Unlike other QFDs, \_ and \ have no special meaning (to query for a literal \* sign, uncheck 'allow wildcards' rather than 'escaping' the wildcard.
- By default, results will be returned in which your input locator appears in either the Source or Other locator column

  Use the checkboxes below to change which of the source, other and destination columns you guery.
- Selecting "Search all types" will return all matches regardless of the locator type.

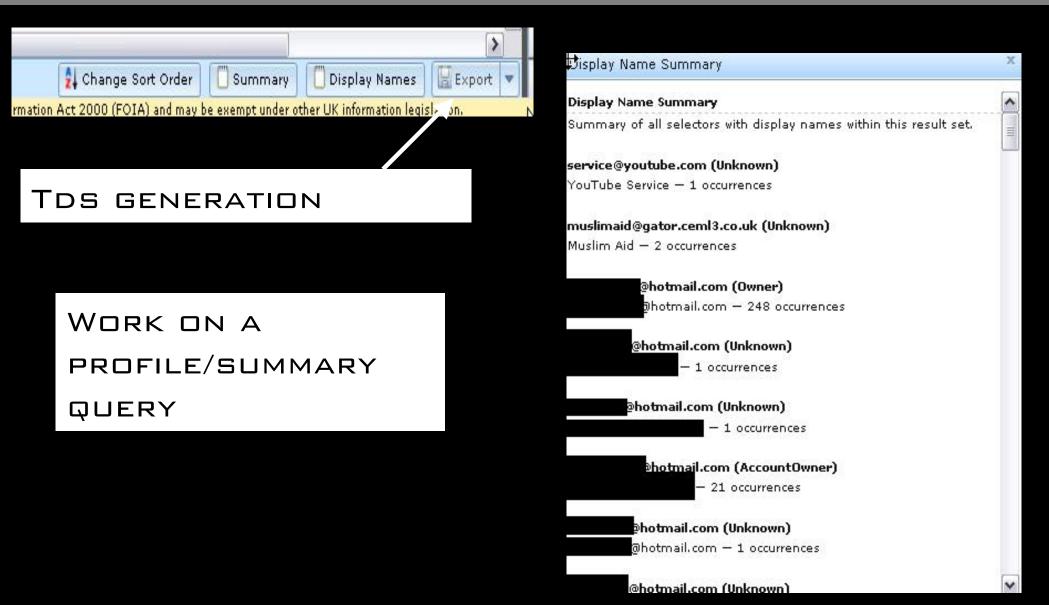
  When "Search all types" is false, you must select at least one type. Locators have to match one of these types to be returned. You can only pick the types that are available for the database columns (source, destination and/or other) you have selected.

Locators:	Types to query:	
	Cell-Global-Identifier Miranda 2  Dest-IP-Address	0140
	Dest-Point-Code JIC Priority & Purpose 1	NS
	Flight-Number HRA Justification to	esting
	INMAR SAT-Service-	
Search period (optional):		
Allow wildcards	Query for source locators	
Search all types	Query for other source locators	iery 🔍 Submit Query
Target Enrichment	Query for destination locators	

h



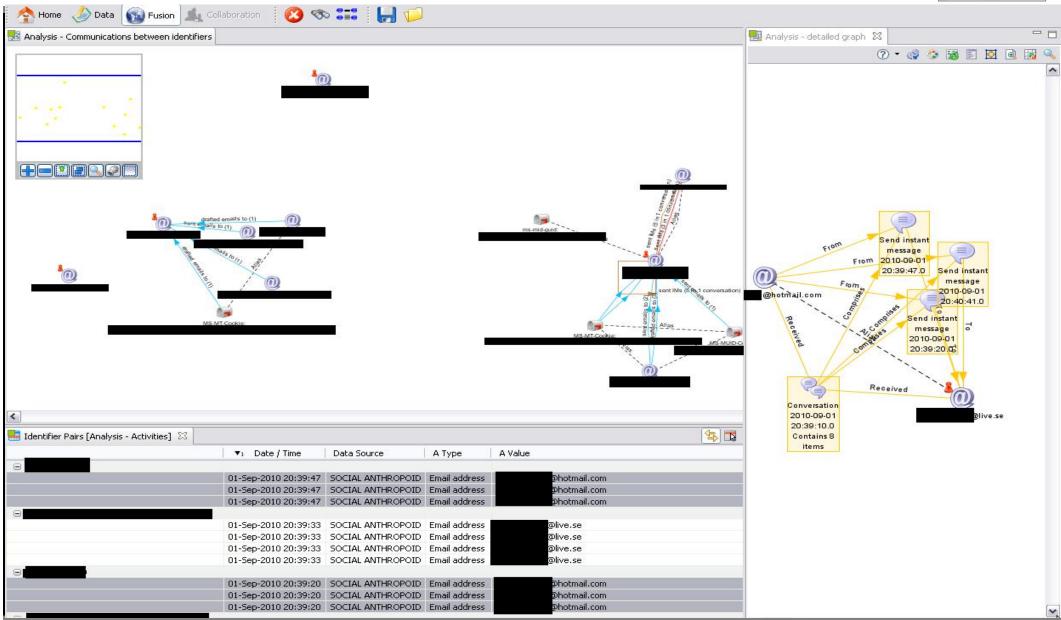






#### VISUALISATIONS









- ROLL OUT PLAN.
  - TRANCHE 1 WC 24 JAN 100 USERS
  - TRANCHE 2 WC 31 JAN 260 USERS
  - TRANCHE 3 WC 7 FEB 100 USERS
  - TRANCHE 4 WC 14 FEB MOP UP USERS

■ ROLLOUT TO SALAMANCA USERS WILL FOLLOW





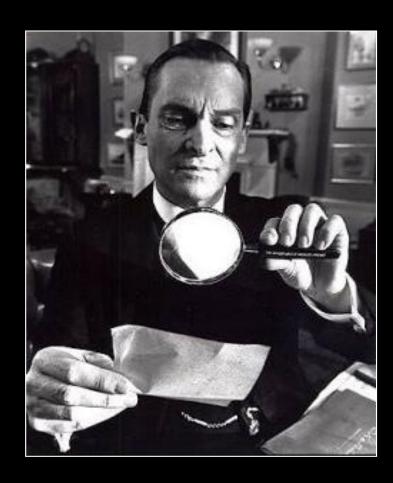
## CONTACTS

**Senior Users:** 

**Business Change:** 







• Questions?