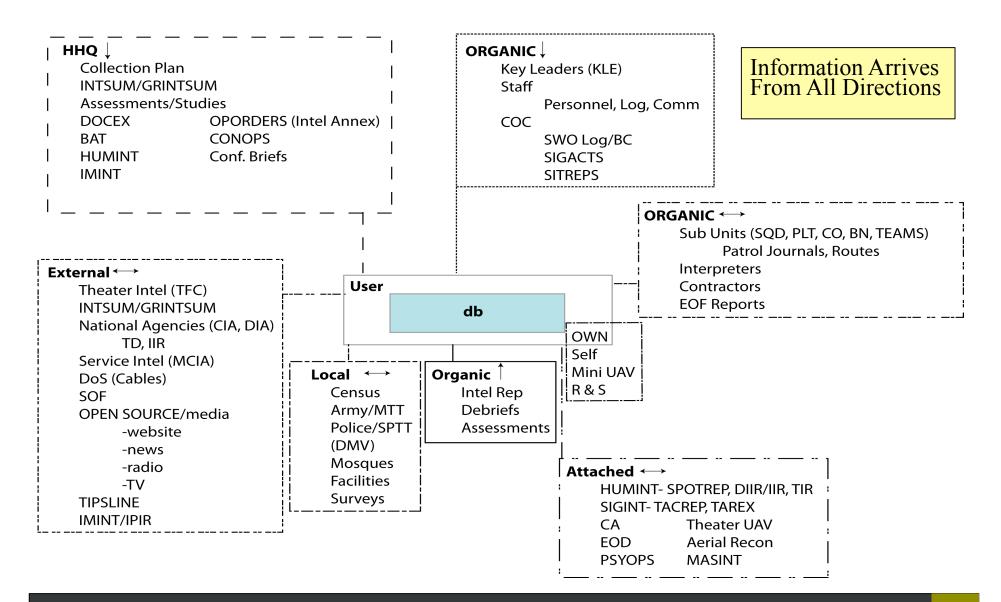
Semantic Wiki for Tactical Intelligence Applications: A Demonstration



Ontology for the Intelligence Community George Mason University 3 - 4 December 2008



A user-centric solution to the "data in the wild" problem



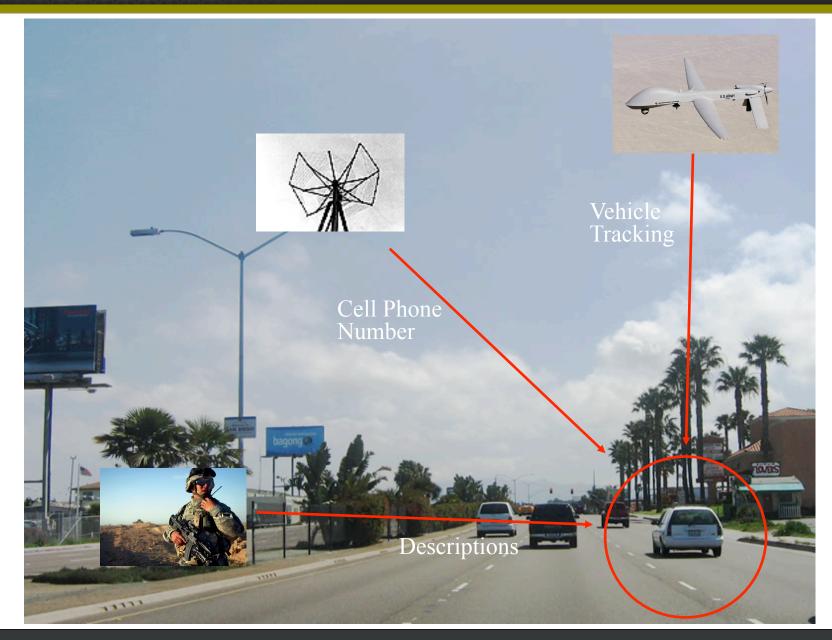
Sample "Data in the wild" sources and formats

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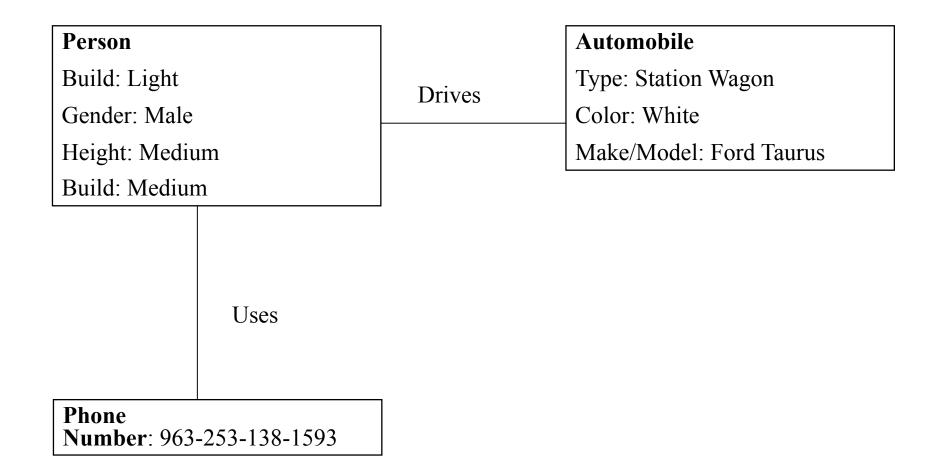
Source	Subject	Format			0.001		Telegraphic Dissemination (TD)				
HHQ	Operations Order Intel Annex	.doc	Units	Patrol Routes	GPS*	CIA	Report	.doc	Theater UAV	SPOTREP	.txt
HHQ	Concept of Operations (CONOPS)	.doc	Units	Patrol Routes	.ppt	CIA	Briefing	.doc	Theater UAV	INTREP	.doc
HHQ	Intelligence Summary (INTSUM)	.doc	Units	Patrol Report	.doc	DIA	Report (IIR)	.doc			
HHQ	Intelligence Collection Plan	.xls	Units	Incident After Action Report (AAR)	.txt	NGO/PVO	Aid support update	.html	Aerial Recon	Mission Report (MISREP)	.doc
HHQ	Study	.doc	Units	Friendly static positions	.xls	DOS	Crisis update	.html	CA	KLE report	.doc
HHQ	Document Exploitation (DOCEX)	.doc	Units	Mobile positional data	BFT*	DOS	Message/Cable	.doc	CA	Meeting notes	.doc
HHQ	BATS database update	.sql	Units	List of checkpoints	.xls	DOS	Alert/Warning	RSS	CA	Patrol report	.doc
HHQ	SIGINT roll up	.doc	Units	Checkpoint (CP/VCP) statistics	.xls	DOS	F-77 report	.xls	СА	Infractructure study	.xls
HHQ	HUMINT roll up	.doc	Interpreters	Atmospherics	.wav	DOS	Emergency Action Plan (EAP)	.doc		Infrastructure study	
HHQ	HUMINT report (IIR)	.doc	Contractors	Information reports	.doc	DOS	Intellipedia posting	.html	CA	Personality study	.ppt
HHQ	Tactical Interrogation Report (TIR)	.doc	Unit intel	Information reports	.doc	DOS	OSAC message	.html	PSYOPS	Atmospherics	.doc
HHQ	SIGINT Target Exploitation (TAREX)	.doc	Unit intel	Patrol debrief	.doc				PSYOPS	Patrol report	.doc
HHQ	SIGINT Tactical Report (TACREP)	.doc				USAID	Projects	.doc	PSYOPS	Media (SCAME) report	.doc
HHQ	List of checkpoints	.xls	Unit intel	Incident debrief	.doc	CDC	Medical assessment	.doc	P510P5	Media (SCAME) report	.uoc
HHQ	Spot Report (SPOTREP)	.txt	Unit intel	Incident photo	.jpg	SOF	After Action Report	.doc	Engineers	Atmospherics	.doc
HHQ	Be On the Look Out (BOLO) list	.xls	Unit intel	Assessment	.doc	SOF	Facility survey	.html	EOD	Infrastructure data	.doc
HHQ	Detainee status tracker	.xls	Unit intel	Intelligence Report (INTREP)	.txt	OSINT	Update (VOA/BBC)	RSS	Self	IED analysis	.doc
HHQ	Detainee list	.xls	Unit intel	Atmospherics	.txt	OSINT	Media summary	.html	016		
HHQ	Link diagram	.anb	Unit intel	Captured document	.jpg	OSINT	Website search	.html	Self	Intelligence Report (INTREP)	.doc
HHQ Theater	CERP payments	.xls	Unit intel	Captured video	.mpg	OSINT	Google Earth	.kml	Self	Photographs	.jpg
Intel	IED TTP roll up	.doc	Unit intel	Person/vehicle photo	.jpg	OSINT	Academic database (JSTOR, LXS-	.html	Self	Atmospherics	.doc
Theater Intel	Trends/tactics summary	.ppt	Unit intel	Captured photo	.jpg	Local forces	NXS) Census data	.xls	Self	Intelligence Summary (INTSUM)	.doc
Theater Intel	Assessment	.ppt	Unit intel	Graffiti photo	.jpg	Local forces	Black list/target list	.xls	Self	OpOrder Intel Annex	.doc
Theater Intel	Study/Reference (Janes)	.doc	HUMINT Tm	Link diagram	.ppt	Local forces	Intelligence Summary (INTSUM)	.doc	Self	Local Collection Plan	.xls
Theater Intel	IMINT IPIR	.doc	HUMINT Tm	Spot Report (SPOTREP)	.doc	Local forces	Intelligence Report (INTREP)	.doc	Self	List of Named Areas of Interest	.xls
Theater	IMINT Product	.ppt	HUMINT Tm	Draft IIR	.doc	Local forces	Photograph	.jpg	0.16	(NAI)	
Intel Theater		.ppt	HUMINT Tm	Tactical Interrogation Report (TIR)	.doc	Local forces	Captured document	.jpg	Self	List of Targets	.xls
Intel	Intelligence Summary (INTSUM)	.doc	HUMINT Tm	Route recon	.mpg	Local forces	Interrogation recording	.wav	Self	Black list/target list	.xls
Theater Intel	Graphic INTSUM	.ppt	HUMINT Tm	Route data	GPS*	Local forces	Mosque atmospherics	.doc	Self	BATS query	.sql
Theater Intel	Target package	.html	SIGINT Tm	Vulnerability assessmnt	.doc	Local forces	Personnel roster	.xls	Self	Link diagram	.anb
Theater Intel	Weather report	.html	SIGINT Tm	Spot Report (SPOTREP)	.doc	Local forces	Military ID records (verification)	.doc	Self	BOLO list	.ppt
Theater	Black list/target list	.xls	SIGINT Tm	Tactical Report (TACREP)	.doc	Local forces	Arrest records	.xls	Self	Geospatial product	.gif
Intel Theater	Tribe list	.xls	MASINT	Target Exploitation (TAREX)	.doc	Local forces	Prison roster	.xls	R&S	Intelligence Report (INTREP)	.txt
Intel Theater	Tipsline Report	.doc	MASINT	Tracking data (vehicle)	GPS*	Local forces	Atmospherics	.doc	R&S	Target photographs	.jpg
Intel		.000								••••	

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Ontology: Key to Multi-INT threat id and prosecution



Ontology: Key to multi-source connected intelligence



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From Contextual Questions to Tactical Alerts

Contextual Questions (Sample)

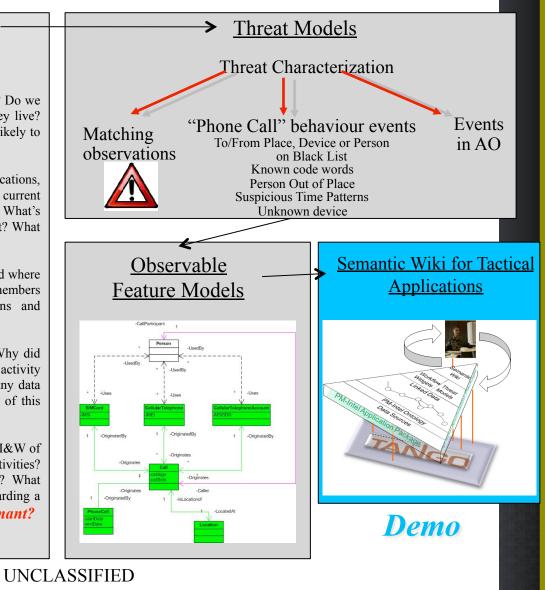
• <u>People</u> – Who are the high threat level individuals? Where are they? Do we know their name? Could they have multiple identities? Where do they live? Where do they hang out? Where have they been, and where are they likely to be? Do they have any identifiers we can track or spot?

• <u>Places</u> - Where are the enemy bases of operations, bed-down locations, potential planning bases where several targets gather? What's the current status of these locations? Are they active? Who occupies this place? What's the main purpose (religious, political, business, factory)? Who owns it? What are its structural details?

• <u>Organizations</u> – Are these two individuals connected? How? Who and where are the influential individuals in the organization? Where have all the members of this group been in relation to one another (dates, locations and associations)?

• <u>Events</u> - Who and where are the likely perpetrators of an event? Why did they select this target? Why did they not select this other target? Is this activity a threat precursor, based on known tactics and trends? Do we have any data that supports the assumption that this individual was the perpetrator of this attack?

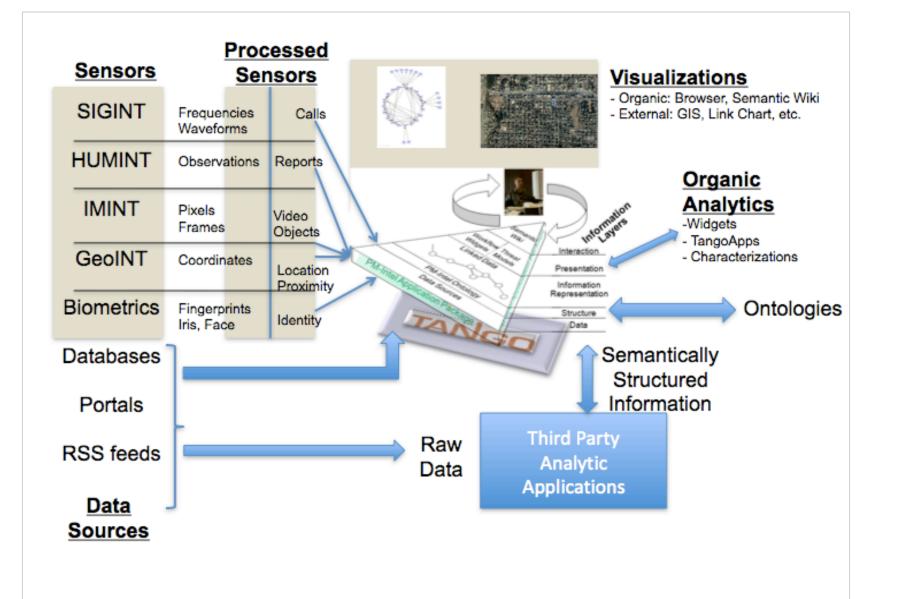
• <u>Information</u> - What's the current AO threat condition? Are there any I&W of threats in progress in our AO? Any SAR regarding surveillance activities? Who are the high intelligence value individuals? Where are they? What information do we have from high intelligence value individuals regarding a group or Person of Interest? *Is this individual a trustable informant?*



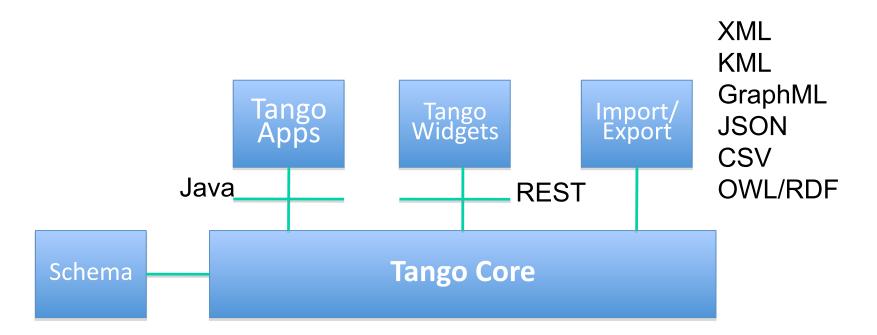


- Next-generation (Web 3.0) collaborative information management software
- Enables people and computers to collaborate in linking and organizing information
- Collect, organize and keep up to date critical data regarding people, places, events and other types of entities
- Connected Intelligence by Semandex.

Connected Intelligence: A Systems View



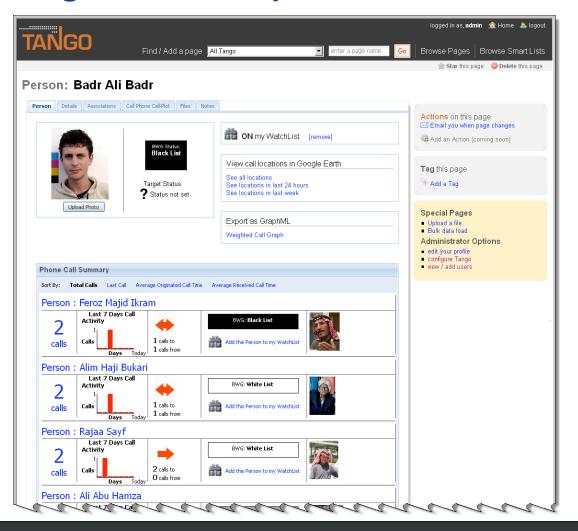
Functional Architecture



- SWIM is a Tango-based solution consisting of:
- 1.Domain-specific schema
- 2. Customized Tango Apps
- 3.Customized Tango Widgets
- 4. Specialized Import/Export templates

Designed for Ease of Use in the Wild

 All relevant information is accessible with a web browser, organized and up-to-date



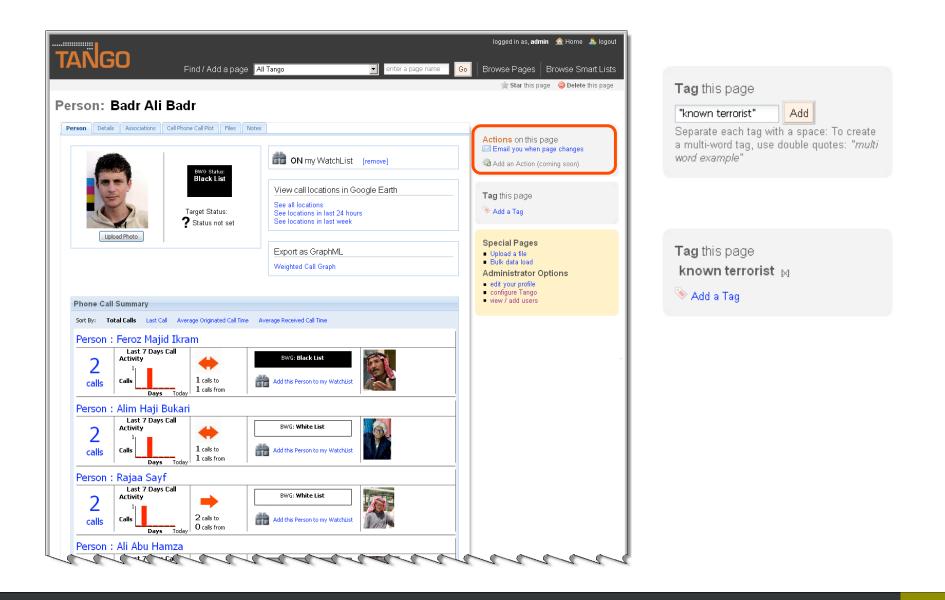
Semantics dictate how users edit and update pages

High Value Target			Hair Color			Beard Color	
	~		select a Hair Color	~		select a Beard Color	~
Religion			Hair Length			Beard Style	
enter a new Religion		0	select a Hair Length	~		select a Beard Style	*
Gender			Hair Style			Beard Style	
select a Gender	~		select a Hair Style	~		select a Beard Style	~
Sexual Orientation			Hair Comments			Beard Comments	
select a Sexual Orientation	~		enter a new Hair Comments	•	0	enter a new Beard Comments	00
Weight (lbs)			Build			Eye Color	
enter a new Weight (in lbs)		0	select a Build	~		select a Eye Color	~
Height (inches)			Race			Eye Comments	
Height (inches) enter a new Height (in inches)		0	Race select a Race	~		Eye Comments enter a new Eye Comments	• •
- 1 /	•	0		~			••
- 1 /	•	٢	select a Race		0		• •

Semantics dictate how users link pages

		logged in as, admin 🏠 Home 🛛 🚴 logout
TANGO Find / Add a pag	enter a page name	Good Browse Pages Browse Smart Lists
		🚖 Star this page 🛛 🤤 Delete this page
Person: Badr Ali Badr		
Person Details Associations Cell Phone Call Plot Files	Notes	
Phones (IMEI) associated with this person	Member of these Organizations	Actions on this page Email you when page changes
none	none	🕲 Add an Action (coming soon)
add a new Phone (IMEI)	add a new Organization	Tag this page
		≫ Add a Tag
Associated Facilties		Special Pages
none	none	■ Upload a file ■ Bulk data load
add a new Facility	NI Tango enter a page name Go Browse Pages Browse Smart Lists	

...and users can add their own tags to any page too



Semantics lets users create Smart Lists

enter a page name ose the type of pages you wish and then Add filters to Assets (cont)	
ose the type of pages you wish and then Add filters to	narrow the list down to exactly what you want.
	narrow the list down to exactly what you want.
Assets (cont)	
	Assets (cont)
Persons on the Neutral Target List Persons on the Off Limits Target List Persons on the White List Persons on White List Calling from Facilities on Black List All PhoneCalls Phone Calls Mentioning Code Words PhoneCalls Any -> BlackList	PhoneCalls BlackList -> Any PhoneCalls BlackList -> BlackList PhoneCalls BlackList -> GreyList PhoneCalls BlackList -> WhiteList PhoneCalls GreyList -> BlackList PhoneCalls WhiteList -> BlackList
List each Cell Phone Account (MSISDN) t (blank values are ignored) Properties	hat matches ALL of the following rules:
Name is	· ·
Links	
Any Link to this page	
What's a Smart List? name of smart	
	Persons on the White List Persons on White List Calling from Facilities on Black List All PhoneCalls Phone Calls Mentioning Code Words PhoneCalls Any -> BlackList List each Cell Phone Account (MSISDN) t (blank values are ignored) Properties Name is

Semantics help find likely people

- Tango App runs multiple weighted local queries and scores results
 - Persons Associated With Call Sign (Exact Match)
 - Persons Associated With Call Sign (Sounds Like)
 - Persons Associated With Call Sign (String Contains)
 - Persons By Name (Sounds Like)
 - Persons By Name (String Contains)
 - Persons Linked to IMSI
 - Persons Linked to IMEI
 - Persons Linked to MSISDN

my v	VatchList	People	*	Mohammed	Search
sult	s (Persons already linked to th	e call are in bold):			
	Person	Score	Hits	Reason(s)	Link to this Call
	Abu Karim bin Mohammed Al Tikriti	0.7	2	Finds persons given a full or partial name	\$ \$ \$ \$
	Ali Muhammad Ata	0.66499999999999999	91	Finds persons given a full or partial name	* * * *

Establish identity of caller by provided call sign

- Operators link devices to people
- Tango automatically links people to call ends
- Tango searches call transcripts of linked calls
- Tango returns likely people

		logged in as, admin 🛛 🏤 Home 🛛 🌲 logout
TANGO	Find / Add a page All Tango	Go Browse Pages Browse Smart Lists
		Star this page Delete this page
Dhana Cally TEST INSI 2 sell to TEST INS	4 -4 2008 00 27740-46-20 000 04-00	84 F - M F - M -
Phone Call: TEST-IMSI-2 call to TEST-IMS	-1 at 2008-09-27119:16:30.000-04:00	
Phone Call Notes Exports		
Originator	Find Person(s) to attach as originator of this Phone Call	Actions on this page Email you when page changes
	Search (view people on your WatchList, let Tango find likely people, or run a search)	d Add an Action (coming soon)
IMSI TEST-IMSI-2	My WatchList Find Likely People V Oncle Search	
Call Sign		Tag this page
Oncle	Results (Persons already linked to the call are in bold):	📎 Add a Tag
	Rank Person Score Hits Reason(s) Link to this Call 1 All Abu Hanza 0.65 1 Person linked to Cal Sign that sounds like search term Image: Call Sign term <td></td>	
Attach a Person as Originator	2 Rajaa Sayf 0.85 1 Person linked to Call Sign that sounds like search term 2 2 2	Special Pages
TACREPs		 Upload a file Bulk data load
none		Administrator Options
Create a TACREP		configure Tango
		view / add users
Gist		
TX: Trouble at mill. RX: Oh no. What sort of trouble?		
TX: One on't cross beams gone owt askew on treddle. RX: Pardon?		
TX: One on't cross beams gone owt askew on treddle. RX: I don't understand what you're saying.	Create an Unknown' Person Link this call to a new Unknown person (you can update properties of that person as you gain information)	
TX: One of the cross beams has gone out askew on the treddlell! RX: Well what on earth does that mean?		
TX: I don't know. Mr Wentworth just told me to come in here and say that there was RX: Nobody expects the Spanish Inquisition! Our chief weapon is surprise, surprise	rouble at the mill, that's all -I didn't expect a kind of Spanish Inquisition. and fearfear and surprise our two weapons are fear and surpriseand ruthless efficiency Our three weapons are fear, surprise, and ruthless efficiencyand ar	na

Users import data from external sources

	ioggod in do, alangese n	andex.net 🟦 Home 🚴 logout	
NGO	Find / Add a page enter a page name	jes Browse Smart Lists	
	Find / Add a page enter a page name Go Browse Pa		
t Data			
ith this page, you can upload a bulk amount of Ta	ingo page properties by a copy-and-paste from programs like Excel or	otepad. List the names	
r each property in the first row and the values for e Example:	each page in the rows thereafter.		
name,iso2,iso3 United States.US.USA			
Canada,CA,CAN		DataLoader	2
Mexico,MX,MEX aste your comma delimited or tab delimited d	lata koro		
iste your comma deminied of tab deminied o	iata nere	Package: Load Preview	
		Name % Complete	Errors
			% Complete Errors 100% 1 100% 1 100% 1 100% 0 100% 1 100% 1 100% 1 100% 1 100% 1 100% 0
With each new page			
🗖 Add it to your homepage		TextFile:GraphImporter - system-tangoapp-enable.txt(3233) 100%	1
📎 Tag it	and a second second	→ (
To tag pages with mu	Jltiple tags, separate with spaces		
ick the Type of data you are importing		Loaded 72 of 72 lines for ToriTreeTemplate.xml using data from /tmp/tan	ao-content18
C Address	C Operation	lines/s, NaN concepts/s]; 0 total concepts loaded	
C Affiliation	O Operation Task		
C Area	C Outsourced Employee		
C Area Characterization	C Path		
O Building	O Path Finder Task		
C Characterization C Company	C Photograph C Place Type		
	Place Type		

Users are kept always up-to-date

Phone MSISDN MSISDN Call Plot Associations No		Actions on this page
People who use this account Ali Jabber Al-Fulani add a new Person	[k] Cell Phones Linked to this Account [k]	Calemail you when page changes
		N Add a Tag
Made these Calls Call originated by 1112223333 at 200649-0114 300 0002 Call originated by 1112223333 at 200649-0115 600 0002 Call originated by 111223333 at 200649-0115 600 0002 Call originated by 1112223333 at 200649-0115 600 0002 Call originated by 1112223333 at 200649-0112 600 0002 Call originated by 1112223333 at 200649-0112 600 0002 Call originated by 1112223333 at 200649-0112 600 0002 Call originated by 111222333 at 200649-0112 600 0002 C	Received these Calls Call received by 111222333 at 2006-09-10718; 14 Call received by 111222333 at 2006-09-10718; 14 Call received by 111222333 at 2006-09-10717; 14 Call received by 111222333 at 2006-09-01717; 14 Call received by 111222333 at 2006-09-0171; 16 Call received by 11222333 at 2006-09-0171; 16 Call received by 11222333 at 2006-09-0171; 16 Call received by 11222333 at 2006-09-0171; 16	00.0002 i Upload afile 00.0002 i Buik data load 00.0002 i Buik data load 00.0002 i Buik data load 00.0002 ii Administrator Options 00.0002 ii edit your profile 00.0002 ii configure Tango 00.0002 iii our profile 00.0002 iii our profile

@2008 Semandex Network:

Event pages are automatically created

		logged in as, admin 🖙 Home 🛛 歳 logout
	nd / Add a page 🛛 All Tango 📃 enter a page nam	e Go Browse Pages Browse Smart Lists
		👚 Star this page 🛛 🥥 Delete this page
	1575229 call to 9643871578904 at 113400	0Z
Phone Call Notes Originator MSISDN 9643871575229	Receiver MSISDN 9643871578904	Actions on this page Email you when page changes Add an Action (coming soon)
Call Sign - DataLoader Attach a Person as Originator	Call Sign Khalifa - DataLoader Attach a Person as Receiver	Tag this page ^S Add a Tag
TACREPs 68cb911b-b285-4d10-b9c1-e7f81e2a Create a TACREP		Special Pages Upload a file Bulk data load Administrator Options edit your profile configure Tango view / add users
TX: Do you think the Americans mi	all that's going on that someone may have her. ight have her? o they usually take people at night. He disappeared during the day. ve her? king around. a yet.	

Users set and receive alerts for when new data is added

TANGO			logged in as, admin 🛛 🏠 Home 🛛 🚴 logo
ANGU	Find / Add a page All Tan	go enter a page name	Go Browse Pages Browse Smart List
			🚖 [remove star] 🛛 🤤 Delete this page
erson: Abdul C	}uddus Al-Kabir		
Person Details Associations	Cell Phone Call Plot Files Note:	5	
	BW/G Status:	Add Abdul Quddus Al-Kabir to my WatchList	Actions on this page Email you when page changes Add an Action (coming soon)
	Not Set (elick to set) Target Status: ? Status not set	View call locations in Google Earth See all locations See locations in last 24 hours See locations in last week	Tag this page ≫ Add a Tag
Upload Photo		Export as GraphML Weighted Call Graph	Special Pages • Upload a file • Bulk data load Administrator Options • edit your profile
Phone Call Summary			 configure Tango view / add users
٢	There are no phone calls on re	cord for Abdul Quddus Al-Kabir	

Analysts workflow is captured linking widgets together

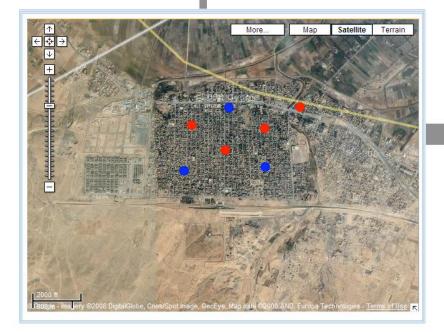
2

Homepage: admin

edit your profile | configure Tango | view / add users | view Tango status

Add a widget to your homepage

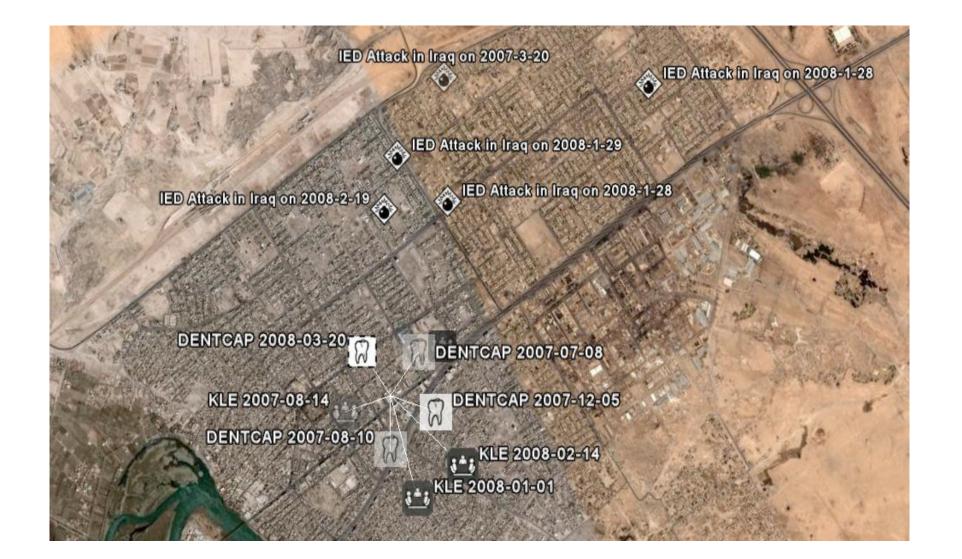
Tagged with "Homepage"		@ X
Page	Last Updated	
Judicial Acts	Today	^
Criminal Acts	Today	~



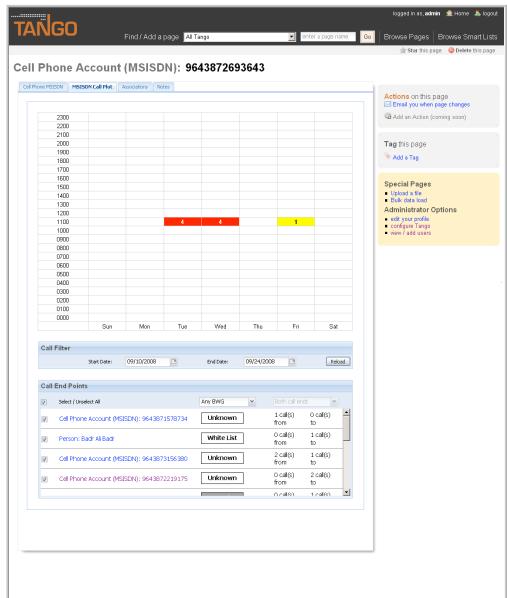
Page	Last Updated	
Assault & Battery	Today	
Burglary	Today	1
Murder	Today	
Burglary	Today	
Detainment	Today	
Arrest	Today	
Detainment	Today	
Indictment	Today	

Page	Last Updated	
Assault & Battery	Today	1
Perpetrator(s): Hakim Farook Al-Mouniri Victim(s): Saad 'Abd Al-Tahiti Description: Hakim struck Saad in the head with a hand tool (shovel) during an argumen boundaries and grazing rights. Minor injuries including a cut on left temple, welt.		

Semantics facilitate location-based analysis



Event-based architecture supports time-based analysis

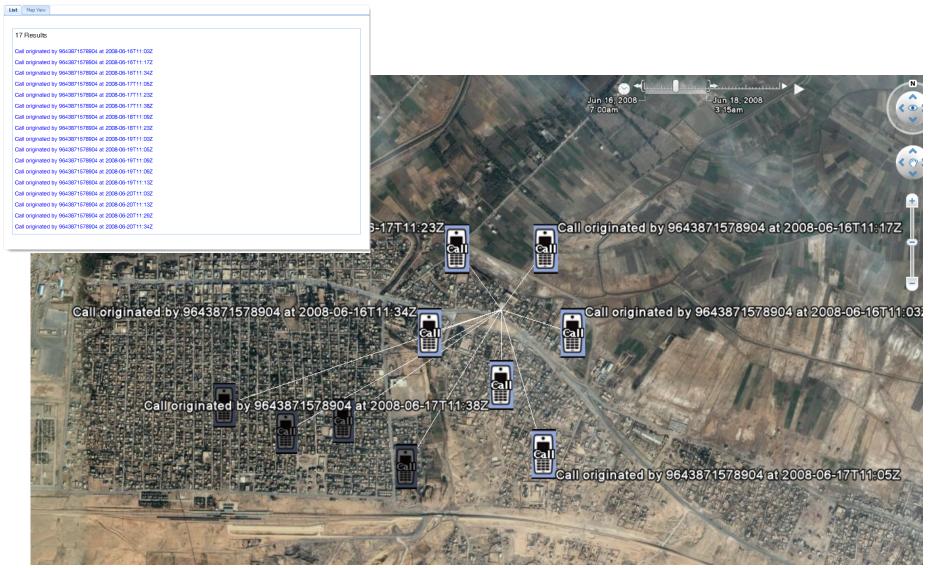


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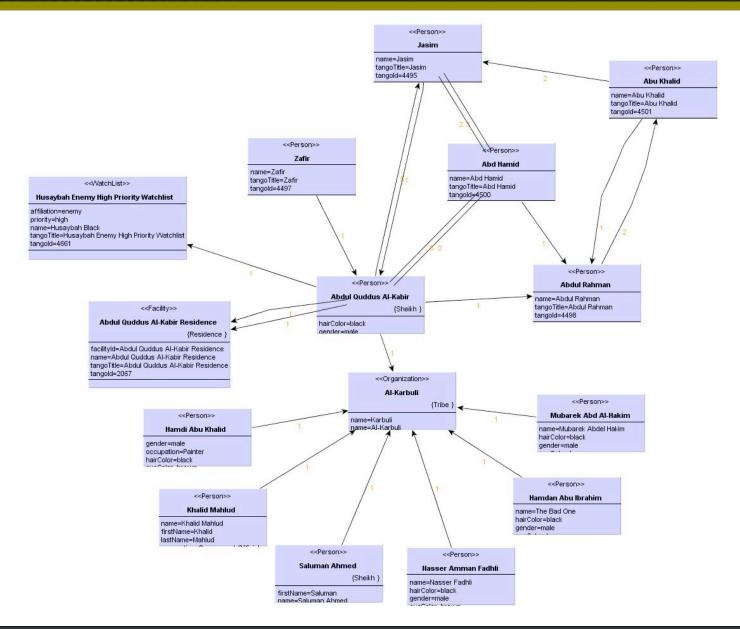
Users maintain situational awareness over space and time

Smart List: Call Within 0.062 miles of Abdul Quddus Al-Kabir Residence

This is a list of: All Call pages

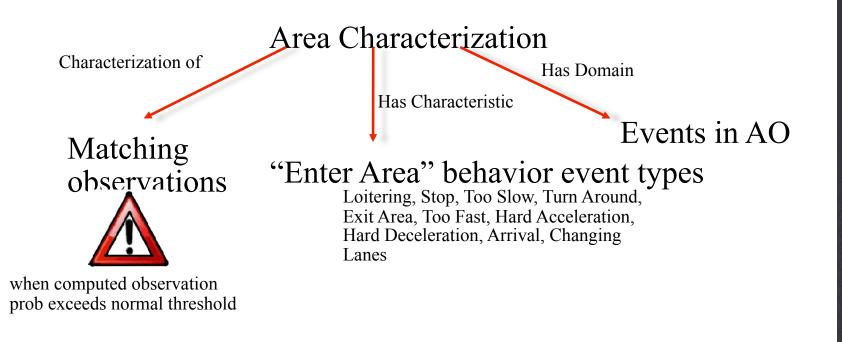


One-click data export enables association-based analysis



Contextual Questions for an IED Attack

- How can we counter the same threat in the future?
 - Can we find any patterns that provide future indications, TTPs or related information?



IED Scenario: Area Characterization Page

		page enter a page name	Go Browse Pages Browse Smart
			🚖 [remove star] 🛛 🧔 Delete this
racterization: Area Characterization			
ription graphml - subscription xml - create radial subscription - create behavior subscription - create dec	composed behavior subscription - the matrix		
ML: (weighted)			
e Location		Show: all properties links resources file	Actions on this page
		onon, ai propertes inte resources in	Email you when page changes
operties			Add an Action (coming soon)
nks			
how All Details		Add New	Link Tag this page
Page 🔺	Page Type	Last Updated	Ndd a Tag
appears On List		•	
Subscription for TangoApp Characterizer(Characterization)	List	Today	 Export this page KML (static)
Subscription for TangoApp VitalSigns(Characterization)	List	Today	 KML (live) GraphML
Characterization of			Include historical locations (KML)
Has Characteristic			
▶ Loitering in AO	List	Today	Special Pages
Stop in AO	List	Today	Upload a fileBulk data load
[▶] Too Slow in AO	List	Today	Administrator Options
[▶] Turn Around in AO	List	Today	 edit your profile configure Tango
a Has Domain			 view / add users
▶ Events in AO	List	Today	
Is Of Interest To			
▶ admin	User	Today	
ternal Resources			
		Add External Reso	

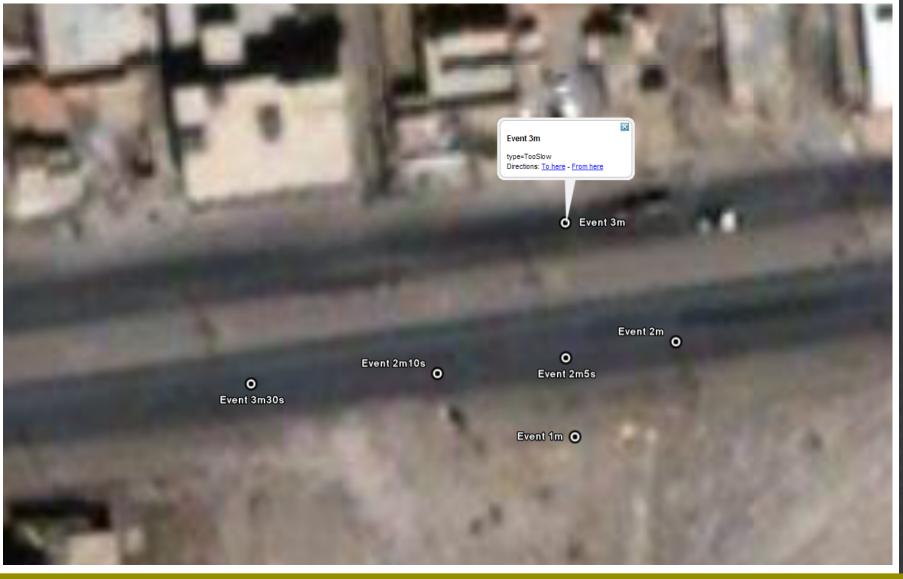
IED Scenario: Area Characterization Page Monitoring Events

				logged in as, admin 🏦 Home 🛛 🚴 log
ANGO		Find / Ad	d a page enter a page name Go	∣ Browse Pages ∣ Browse Smart Li
				🚖 [remove star] 🛛 🤤 Delete this Pa
aracterization: Area Characterization scription graphm1 - subscription xm1 - create radial subscription - create behavior phML: (weighted)	subscription - create decomposed behavior subscription - the	e matrix		
age Location			Show: all properties links resources files no	Email you when page changes
Properties				Add an Action (coming soon)
			Edit Properties	
Name Area Char - admin	Tango Sync ID snapshot			Tag this page Add a Tag
Path Finder ID monitor True - admin Link Count Last Updated	Tango Title Area Char - TangoServer Iearn True - admin normalThreshold			Export this page • KML (static) • KML (live) • GraphML
Tango ID 1285 - TangoServer .inks				Special Pages
Show All Details			Add New Link	 edit your profile
Page 🔺		Page Type	Last Updated	 configure Tango view / add users
🖻 Appears On List				
Subscription for TangoApp Characterizer(Characterization)		List	Today	
Subscription for TangoApp VitalSigns(Characterization)		List	Today	
Characterization of				
EnterArea for Sedan #1 at 2008-04-18T16:35:21.630-05:00		Enter Area	Saturday	
EnterArea for Truck #1 at 2008-04-18T16:34:21.630-05:00		Enter Area	Saturday	
^b EnterArea for Truck #2 at 2008-04-18T16:34:21.630-05:00		Enter Area	Saturday	
EnterArea for Truck #3 at 2008-04-18T16:34:21.630-05:00		Enter Area	Saturday	

IED Scenario: Area Characterization With Profiled Events Detected

					logged in as, admin 🏦 Home 🛛 👗 logout
ANGO			Find / Add	a page enter a page name Go	Browse Pages Browse Smart Lists
					🚖 [remove star] 🛛 🤤 Delete this Page
haracterization: Area C ubscription graphml - subscription xml - create ra raphML: (weighted)	Characterization	Ite decomposed behavior subscription - the ma	atrix		
Page Location				Show: all properties links resources files note	Actions on this page Email you when page changes Add an Action (coming soon)
Properties				•	
Links Show All Details				Add New Link	Tag this page
Page			Page Type 🔻	Last Updated	Note:
Appears On List					
Subscription for TangoApp Characterizer(Cl	haracterization)		List	Today	Export this page
 Subscription for TangoApp VitalSigns(Chara 			List	Today	 KML (static) KML (live)
Characterization of	addreadding				GraphML Include historical locations (KML)
TurnAround for Sedan #1 at 2008-04-18T16:3	36:21.630-05:00		TurnAround	Today	,
TooSlow for Sedan #1 at 2008-04-18T16:35:5			Too Slow	Saturday	Special Pages
Role	Start Date	End Date		9	Upload a file
0.01282051282051282				edit this link	 Bulk data load
Stop for Truck #1 at 2008-04-18T16:34:51.630	0-05:00		Stop	Saturday	Administrator Options
Role	Start Date	End Date			edit your profile
0.038461538461538464				edit this link	 configure Tango view / add users
Stop for Truck #2 at 2008-04-18T16:34:56.630	1-05-00		Stop	Saturday	
Role	Start Date	End Date		٥	
0.038461538461538464				edit this link	
Stop for Truck #3 at 2008-04-18T16:35:01.630	0-05:00		Stop	Saturday	
Role	Start Date	End Date			
0.038461538461538464		-		edit this link	
Loitering for Farmer at 2008-04-18T16:33:51.	630-05:00		Loitering	Saturday	
Role	Start Date	End Date		0	
0.01282051282051282	-	-		edit this link	

IED Scenario: Pre-Attack Events Detected



Questions?

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