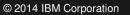
BusinessConnect

A New Era of Smart 5/28/2014

The Modern Intelligence Platform



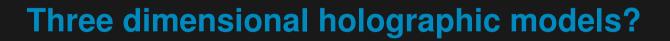
TER



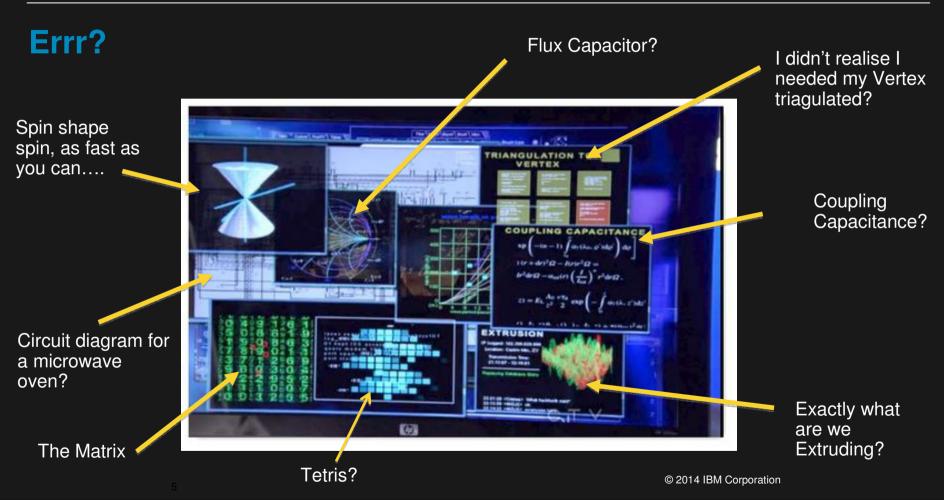
What would you expect?

Lots of arm waving?









And then back to pen, paper and a whiteboard to understand it all.....



Imagine the Challenges

Vast Amounts of Information



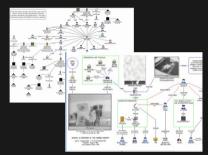
- Siloed Repositories
- Structured and Unstructured Data
- Security Restrictions
- Social Media
- Biometric
- Big Data

Multiple Applications



- Web Based
- Thick Clients
- Multiple Searches
- Manual Data Entry
- Data Duplication

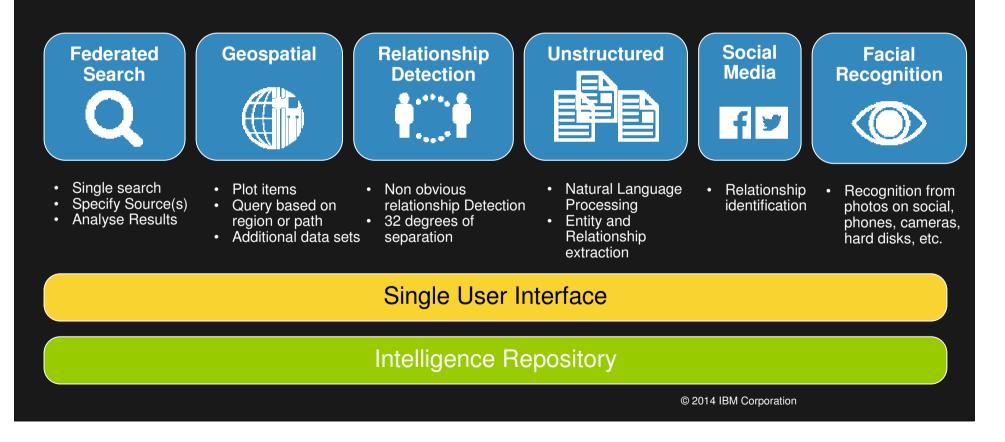
Intelligence Asset Creation



- · Entities and Relationships
- Provenance
- Temporal Analysis
- Social Network Analysis
- Geospatial
- Relationship Detection



Now Imagine the solution



Capabilities Are Used by Clients In Multiple Sectors



National Security Counter Terrorism Counter Intelligence Intelligence Analysis Border Security Cyber Risk



Defense

Establishing Civilian Structures Counter Intelligence Intelligence Analysis Target Analysis and Defense Peacekeeping Force Protection Pattern of Life Analysis Human Terrain Mapping



Law Enforcement

Tactical Lead Generation Counter Terrorism Major Investigations Organized Crime Neighborhood/ Community Policing Public Order/Major Event Management Volume Crime Fusion Centers



Private Sector

Security Investigations Industry Oversight & Compliance Cybercrime

Risk Management

Anti-Money Laundering Fraud



Government

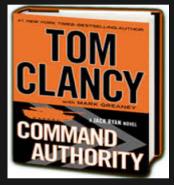
Industry Oversight & Compliance

Cybercrime

Securities Investigations

Anti-Money Laundering Fraud





He (Jack) soldiered on, and through his work on the theft of Galbraith's company he discovered that Gazprom had purchased the pieces of the Scottish-owned gas firm from a series of small foreign companies that sprang up out of nowhere to bid in the auction...To unravel it all, Ryan had a few weapons he could call on...Another tool Jack made use of was **IBM i2 Analyst's Notebook**. It was a data analysis tool that allowed him to put in all manner of different data sets, and then generate quick visual representations via graphs and charts that he could manipulate to track trends, see relationships between people in a target network, and allow himself a more dynamic way of interpreting whichever environment he was studying...Jack knew good data organized effectively was the most important commodity for any analyst.

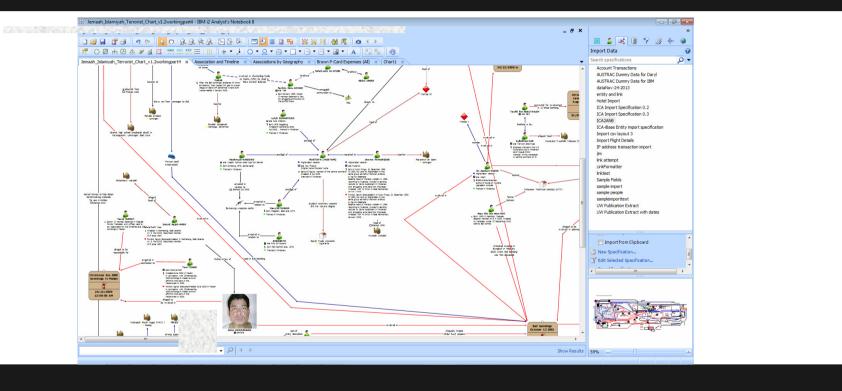
Example Scenario

- Bomb detonated damaging a main rail network
- Need to identify and capture individuals responsible
- A group has claimed responsibility





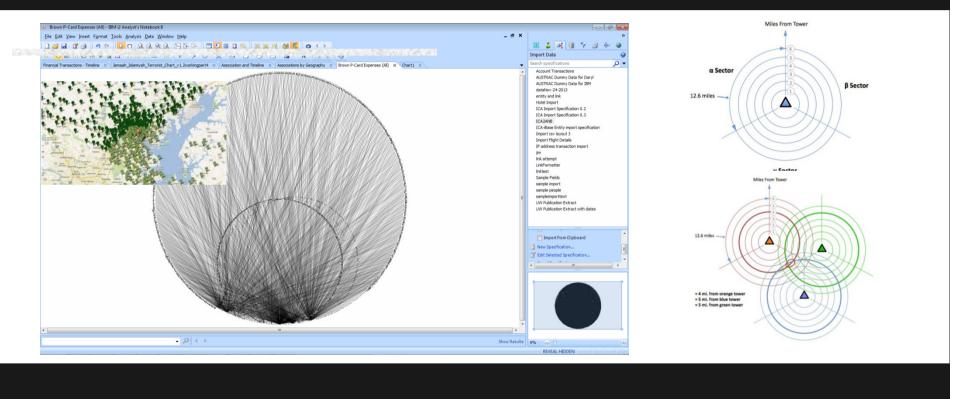




What do we know about the scene – Read through the location reports – other reports



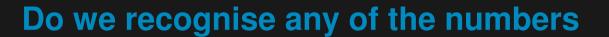
Gain information from local cell towers

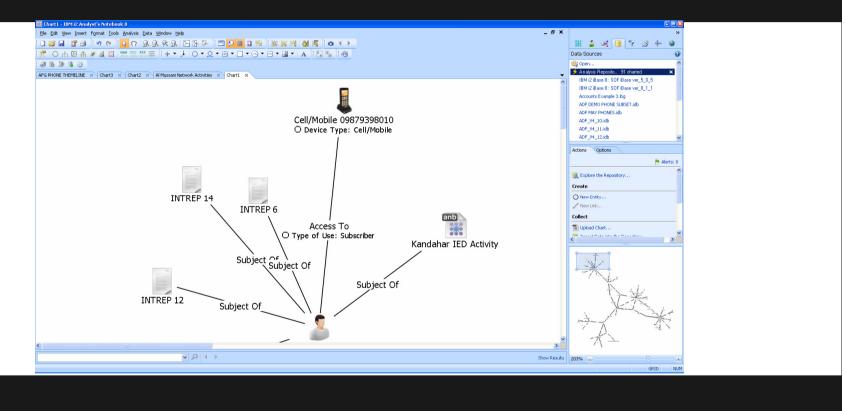




Narrow down phones in the area around the time of the explosion – Geospatial Analysis

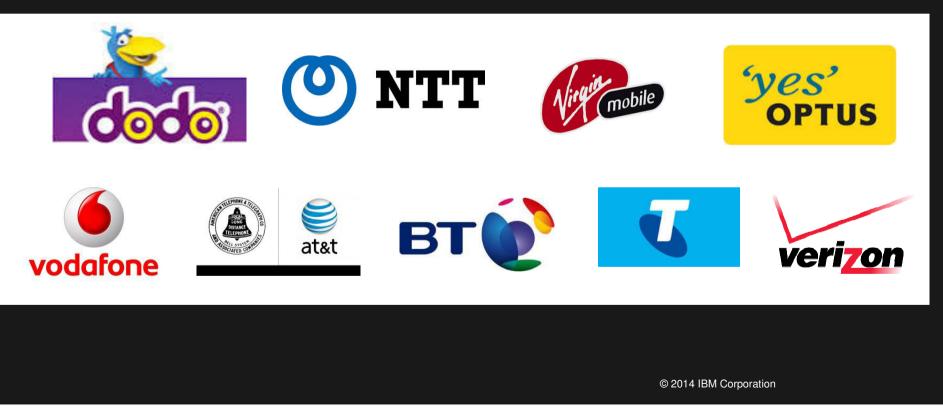
🗱 AFG PHONE THEMELINE - IBM i2 Analyst's Notebook	18					
Elle Edit View Insert Format Iools Analysis Data Y			_ # X »	The second for the second data for the second secon		
			🗰 🛓 💐 🔳 🌱 🥩 🗣 🚳	Tartin .		
	+ • + 0 • Q • 🖻 • 🗋 • 🖂 • 🖂 • 🗛 🕴		Data Sources	in the All A		
3 6 B 6 0			i Open			
AFG PHONE THEMELINE X Chart3 X Chart2 X A	Mussani Network Activities × Chart1 ×		🌩 🗲 Analysis Repository Connector : Local An 🗙			
	Tuesday January 3rd 2012 Tuesday January 3rd 2012	Tuesday January 3rd 2012 Wednesday January 4th 201	2 IBM i2 Base 8 : SOF iBase ver_5_0_5		and the second second	
9:00 PM 10:00 PM 10:50 PM 12:00 AM 3:00 AM 6:1	10 AM 9:00 AM 10:00 AM 12:00 PM 2:00 PM 3:00 PM 4:	оф РМ 5:00 РМ 6:00 РМ 9:00 РМ 12:00 АМ 6:00 АМ 9:00 АМ 10:30 АМ 1	I:OD AM IBM i2 iBase 8 : SOF iBase ver_8_1_1			
u -			Accounts Example 3.lbg		- Silar	
11934016854253471	1	8	ADF DEMO PHONE SUBSET.idb	5 T ()		
O An areat			ADF MAY PHONES.idb			
7165815778			ADF_V4_10.idb			
City: Carostar			ADF_V4_11.idb	27		
O ANIMARAN			ADF_V4_12.idb			
3072625786 A Chy: r-safar O Angeletan			Actions Options			
			Actoris Options	2.7 101.		
7164567899 3 700			P Alerts: 0		CONTRACTOR OF THE OWNER.	
O Angharingan						
9905439985			Explore the Repository			
CRU: PARTA O Alshe Ran			Create	List Rens		
1793324296			O New Entity	Entities Lake Lidentity Semantic Type Representation D *	Date The LabelValue Location-Obs., New Attribute.,	
A Chy: Canadian O Anatomic an			New Link	S01633 01195201343988633 Telecore Team line S01610 0119550145250653 Telecore Team line	1.1005001242 Near e Sharf Alghanitan 1.1005001452 Near e Sharf Alghanitan	Canol
7193378317			A NEW DIK	1396241 011995001452366241 Telecons These Line	1.1995001452 Nazar e Sharif Alighanistan	Help
A Chui meatar O Anteanaan			Collect	M02214 011995001452432214 Telecons These Line 521050 011995001452521008 Telecons These Line	1.1995001452 Nazar e Sharif Alighanistan 1.1995001452 Nazar e Sharif Alighanistan	
716457899	5110	0	Dipload Chart	1023750 01195501604023750 Telecore There Live 11982255 011929430721682255 Telecore There Live	1.1905001604 Neoar e Sharif Alghanistan 1.1909430773 Chtral Palatan	- 1
A City: Canadran			×	20347804 0119292707750347804 Telecono Theme Line 300691 011933001216339691 Telecono Theme Line	1.1929330775 Nardan Pakatan 1.1933001216 Kandahar Afdhanistan	1
O MINING	*	•• •	< >	3412225 01190500145243225 Telecons There Line	1.1905001452 Nazar e Sharif Afghanistan	
Oty: New e shart	0 13.00			4247712 0119290201694247712 Telecons Theme Line 957453 011935212323657453 Telecone Theme Line	1.1929323160 Melekand Pakistan 1.1925012323 Nezer e Sherif Afghanistan	
Archant				011243 01195001452411243 Telecone Theme Line 392275 01195001452362275 Telecone Theme Line	1.1995001452 Nazar e Sharif Afghanistan 1.1995001452 Nazar e Sharif Afghanistan	-
935001452521201				2224477 01195501242294477 Telecons There Une	1.1995001452 Nazar e Sharif Afghanistan 1.1995001242 Nazar e Sharif Afghanistan	
City: Matar e Shari Anghanistan				1381295 011905001452381295 Telecone These Line	1.1905001452 Nezar e Sharif Afghanistan	1
935001452505560				517210 01195501194517233 Telecore There ine 300433 01195501452300433 Telecore There ine	1.1905001594 Nazar e Sharif Alghanistan 1.1905001452 Nazar e Sharif Alghanistan	-
015 01 4025 0556 0				253106 011955001242253108 Telecono There Line	1.1905001242 Nazar e Sharif Alghanistan	1
Velope Er				229428 0119500169429428 Telecons There line 2014725 01191000285404726 Telecons There line	1.1905001684 Nazar e Sharif Afghanistan	
935001452501610				604726 0119300785404726 Telecons There Line 3652753 011935001452652753 Telecons There Line	1.1933007854 Kandahar Alighanistan 1.1935001452 Nazar e Sharif Alighanistan	-
City: Masar e (Shari)				3531203 011935003452831201 Telecone There Line	1.1925001452 Nazar e Sharif Afghanistan	1
City: Hatar e Shari' Angharildan			 Katalar der aller dem så Candulas anderenen. 	1311700 011935001452311700 Telecone These Line	1.1995001452 Nazar e Sharif Afghanistan	
1935 001 4528 3120 1		Q 14.00		004000 0119500199404000 Telecons These Line 522190 01195001452522193 Telecons These Line	1.1995011994 Mazar e Sharif Alghanistan 1.1995011452 Mazar e Sharif Alghanistan	-
City: Hazar e Sherif				362190 01195601452304321 Telecone There une	1.1995001452 Pezar e Sharif Alghanistan	-
City: Hazar e Shari' Angharidan	0 9 00			011905001994022324 Telecone These Line	1.1905001594 Nezer e Sharif Alghanistan	Optens
935001452311511				251165 01195501242251165 Telecore There are 521321 01195501242521321 Telecore There are	1.1925011242 Nazar e Sharif Alghanistan 1.1925011242 Nazar e Sharif Alghanistan	
City: Hame a ShariP				521321 0119560124252321 Telecone Theme Line (290304 01195601452763304 Telecone Theme Line	1.1995011242 Nazar e Sharif Afghanistan 1.1995011452 Nazar e Sharif Afghanistan	Sot
Archan Br				230108/ 0119550145226504 Feecure Inere Line	1.1905011452 Nazar e Srait Arghanistan	Fiter
			N III	2331185 011905001452331185 Telecone Theme Line	1.1905001452 Nezer e Sherif Afghanistan	
				2020495 011024201205650495 Telecore There line 2022647 011055001452202567 Telecore There line	1.1924201205 Labore Palatan	Reveal
				2027647 011935001452007547 Telecone Theme Line 2011774 011935001452011774 Telecone Theme Line	1.1995011452 Near e Sherif Afghanistan 1.1995011452 Near e Sherif Afghanistan	Copy
		Shi	w Results 87% 👝 🗍 🕢	1011774 011905001452311774 Teacons These Line 1106036 011902503004106936 Televines These Line		×
			0000 100		3	Delete
			GRID NU	Salest All Clear All Colarve		
Start			🔦 🔨 🛐 7:04 AM	220 Extitues () under teel), 1995 (and/or teel)	Al Dritties Al Links Replace Dritty Selectors Repl	

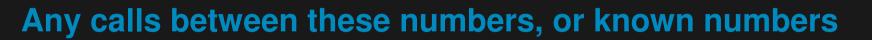


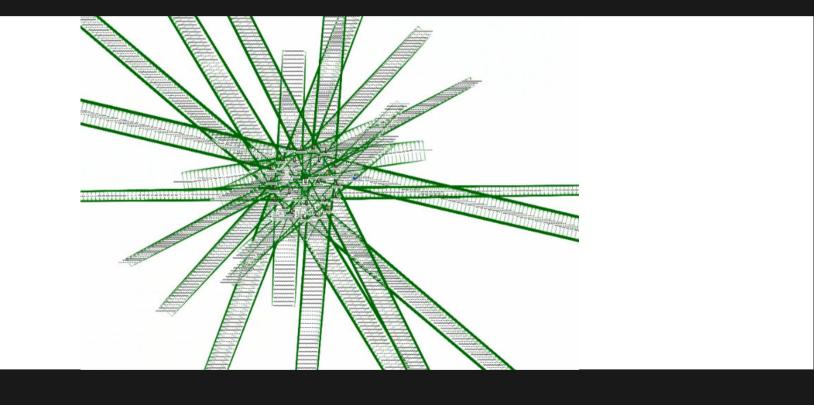




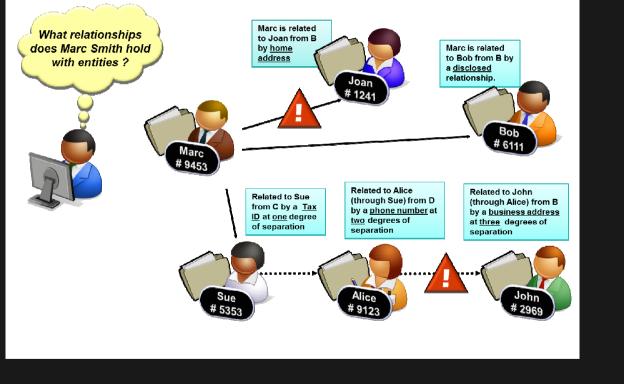
Request call logs for relevant numbers and owners from cell companies

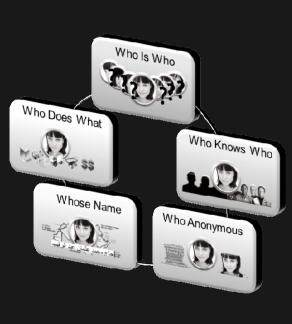






Non-obvious relationship detection

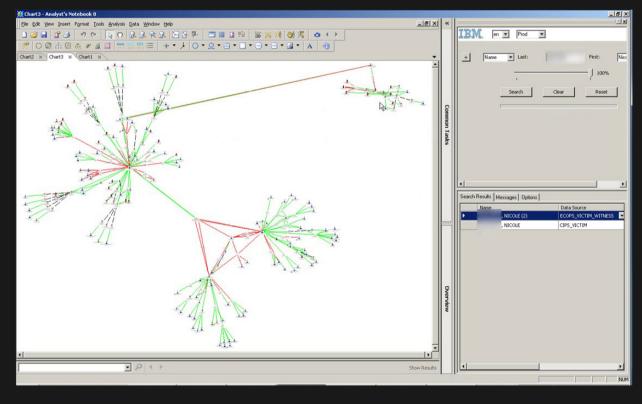








Non-obvious relationship detection





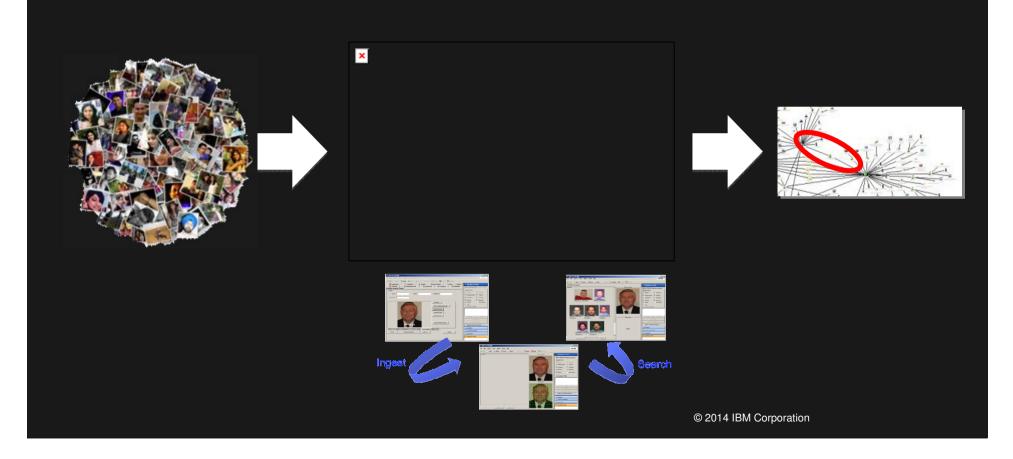
Pull in suspects – seize mobile phone – Rip off information and photographs



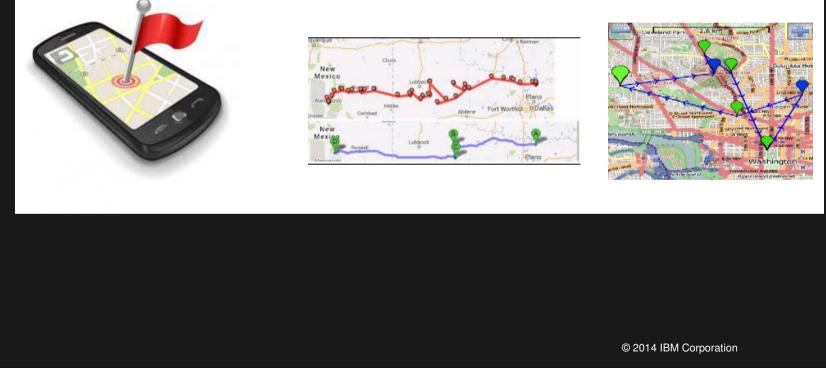
	Identity	Semantic Type	Representation	D V	Date	Time	Label Value	Location - City	New Attribute	^	OK
581633	011935001242581633	Telecoms	Theme Line				1.1935001242	Mazar e Sharif	Afghanistan		
501610	011935001452501610	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		Cance
386241	011935001452386241	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
413214	011935001452413214	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		Help
521088	011935001452521088	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
823750	011935001684823750	Telecoms	Theme Line				1.1935001684	Mazar e Sharif	Afghanistan	-	
1692285	0119294307731692285	Telecoms	Theme Line				1.1929430773	Chitral	Pakistan		
0347804	0119293707750347804	Telecoms	Theme Line				1.1929370775	Mardan	Pakistan		
330691	011933001216330691	Telecons	Theme Line				1.1933001216	Kandahar	Afghanistan		
412225	011935001452412225	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
4247712	0119293201684247712	Telecoms	Theme Line				1.1929320168	Malakand	Pakistan		
657453	011935012323657453	Telecoms	Theme Line				1.1935012323	Mazar e Sharif	Afghanistan		
411243	011935001452411243	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
382275	011935001452382275	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
224477	011935001242224477	Telecoms	Theme Line				1.1935001242	Mazar e Sharif	Afghanistan		
381295	011935001452381295	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
517210	011935001594517210	Telecoms	Theme Line				1.1935001594	Mazar e Sharif	Afghanistan		
300433	011935001452300433	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
253108	011935001242253108	Telecoms	Theme Line				1.1935001242	Mazar e Sharif	Afghanistan		
299428	011935001684299428	Telecoms	Theme Line				1.1935001684	Mazar e Sharif	Afghanistan		
834726	011933007854834726	Telecoms	Theme Line				1.1933007854	Kandahar	Afghanistan		
852753	011935001452852753	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
831201	011935001452831201	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
311700	011935001452311700	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
844880	011935001594844680	Telecoms	Theme Line				1.1935001594	Mazar e Sharif	Afghanistan		
522193	011935001452522193	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
384323	011935001452384323	Telecoms	Theme Line				1.1935001452	Mazar e Sharif	Afghanistan		
822324	011935001594822324	Telecoms	There Line				1.1935001594	Mazar e Sharif	Afghanistan		Ontines
251185	011935001242251185	Telecoms	Theme Line				1.1935001242	Mazar e Sharif	Afghanistan		options
521321	011935001242521321	Telecoms	There Line				1.1935001242	Mazar e Sharif	Afghanistan		Sort
760304	011935001452760304	Telecoms	There Line				1.1935001452		Afghanistan		
331181	011935001452331181	Telecoms	There Line				1.1935001452		Afghanistan		Filter
331185	011935001452331185	Telecoms	There Line				1.1935001452	Mazar e Sharif	Afghanistan		
650495	011924201285650495	Telecoms	There Line				1.1924201285	Lahore	Pakistan		Revea
307547	011935001452307547	Telecoms	There Line				1.1935001452	Mazar e Sharif	Afghanistan		
311774	011935001452311774	Telecoms	There Line				1.1935001452	Mazar e Sharif	Afghanistan		Copy
106936	011932028304106936	Telecoms	There line				1.1932028304	Kabul	Afribacistan	~	_
<									>		Delete

IBM

Facial Recognition



Phone whereabouts – waypoint tracking





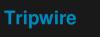
Pull in data from CCTV and run analysis



Motion Detection

Triggers on any motion that fits size/duration constraints





Triggers when object center passes over a virtual line



Directional Motion

Triggers when object moves in a certain of directions



Abandoned Object

Triggers when object appears in region, stops and remains still for period of time.

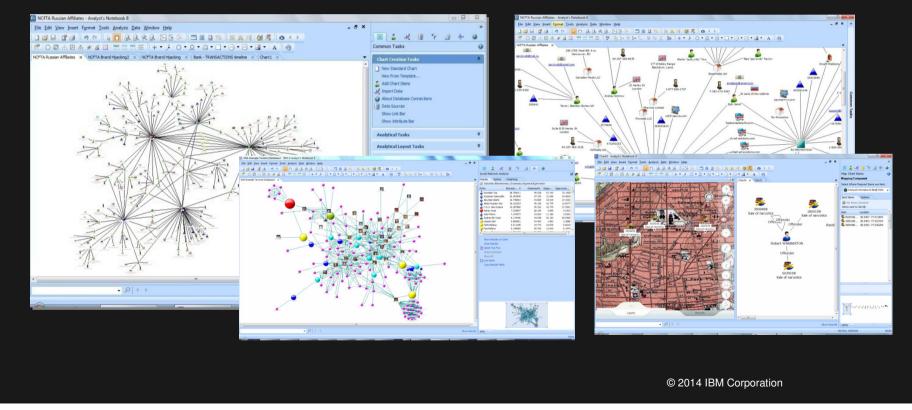


Object Removal

Triggers when object which has been still in image for long time starts to move.



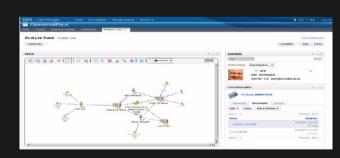
Identifies Individuals, Groups, Events, Locations, Commodities, Communications, etc. and build relationships

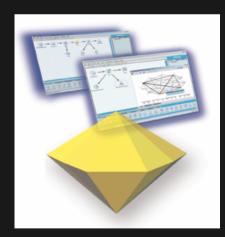




In Summary

- Accessing VAST amounts of information
- Improve productivity during investigations
- Quickly identifying non obvious relationships
- Turning Information into Intelligence
- Reduce the Analysis time cycle through to enforceable actions







TEM	_		
	-		

