





Ron Fellows

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IBM Business Analytics and Optimisation



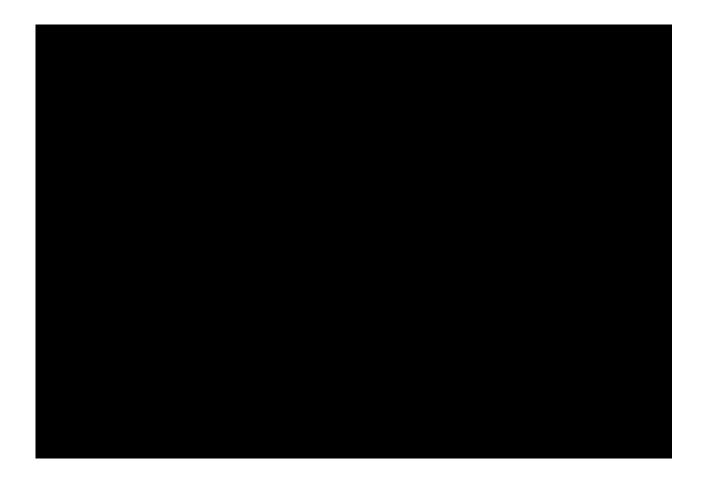


IBM has been involved in Crime Analytics for a long time...

- Rudi Giuliani was NY Mayor from 1994 to 2001
- Espoused the Broken Windows theory of 1992
 - Improve the urban environment
 - Make the citizen feel safer
- NYPD adopted CompStat
 - Geographically-analysed crime
 - Regular management of crime strategy
- IBM's Crime Information Warehouse was born in 1998



The New York experience.....





Compstat grew into the Real Time Crime Centre (RTCC)





The RTCC provides investigators in the field with information about crime scenes, potential suspects and other leads to bring criminals to justice as soon as possible.

Press Conference: www.nyc.gov and search for Real Time Crime Center Video: www.youtube.com and search for "Real Time Crime Center"



RTCC is huge.....and growing

- 24 hours,7 days-a-week
- 15 analyst workstations
- 26 crime analysts
- Access to powerful databases
- Over 5 million NYS criminal records, parole and probation files
- Over 120 million NYC criminal complaints, 911/311 calls and summonses
- Over 31 million national crime records
- Over 33 billion public records
- 25 years of history in some subject areas



Connecting the dots.... Seeing the big picture....

- 9 robbery incidents across 4 boroughs ...
- 3 robbers; rental car,
- 2 chrome plated handguns; mapped escape route ...

Faces covered with stockings and masks.

Citywide patterns across boroughs were hard to detect. "We've had incidents where it's taken time, more time, to identify a citywide pattern," said Police Commissioner Raymond W. Kelly.

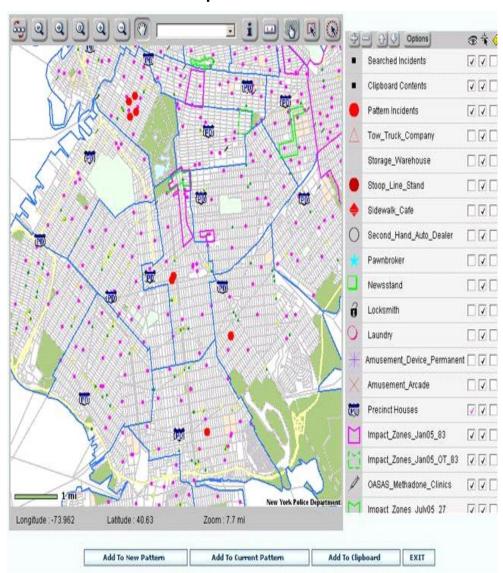




Giving the police access to the data is critical to pattern identification

- Pattern Comparison
- Complaints Analysis
- Map Correlation
- Pattern Management System

Map correlation is critical to visualise relationships among crime incidents and locations of incidents, such as <u>all night pharmacies</u>



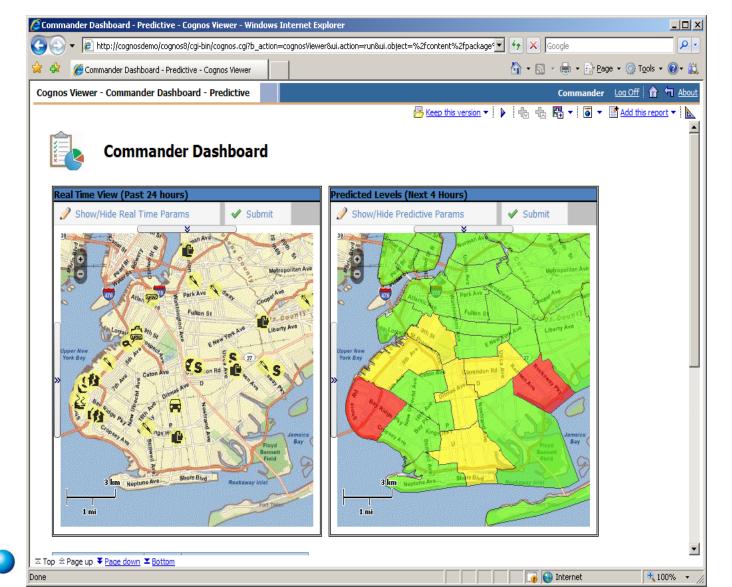


Much of the success has been due to giving access to data





Sometimes just reporting the data isn't enough.....







PC 143 (Hunter)

15 June 2006 23:47

Suspect identified himself as John Setsuko. Matched description given by night club doorman (IC1, Male, Ag 22-24 yrs, blue Everton shirt). Stopped whilst driving White Ford Mondeo, W563 WDL. Address given as 22 East Dene Ridge, Copdock, Ipswich. Searched at scene and found in possession of 1oz Cannabis Resin and lockable pocket knife.

Arresting_Officer	PC 143
Arrest_Date_Time	15/06/2006 : 23:47
Suspect_Forename	John
Suspect_Surname	Setsuko
Suspect_VRN	W563WDL
Suspect_Vehicle_Colour	White
Suspect_Vehicle_Make	Ford Mondeo
Suspect_Addr_Street	22 East Dene Ridge
Suspect_Addr_Town	lpswich
Evidence_1_Description	1 oz Cannabis Resin
Evidence_2_Description	Lockable pocket knife



...and capture from new media is growing



News Sources



Social Media (Boards / Blogs)



Advocacy Groups







From the mass of data, the solution can spot hidden "gems"

POLE analysis allows you to see beyond a single entity to others they are related to ...



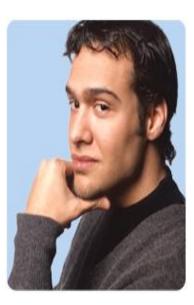
Joseph Carbella

Arrested while driving a car owned by...



Andréa Duval

Who listed the same address as...



David Travers

Suspect in the armed robbery of a bank.
Who shares a phone number with...



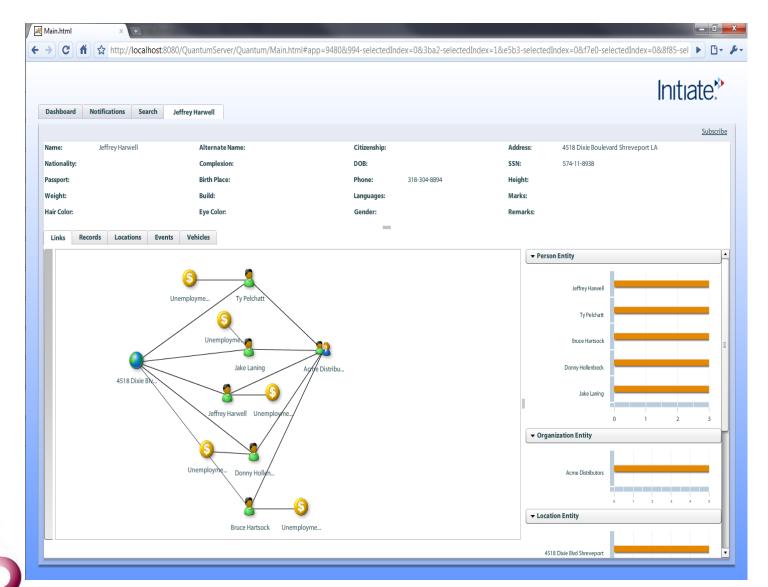
Joshua Clark

Listed on MI5 watch list for funding terrorist activities.





The solutions enable probable relationships to be explored



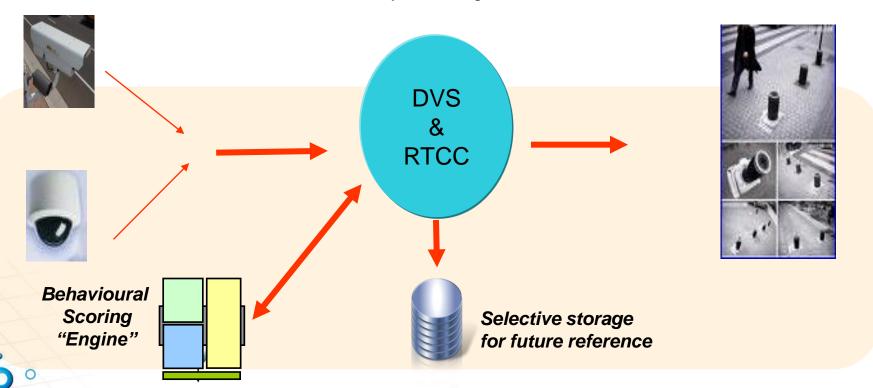


Digital Video Surveillance can trigger intervention



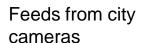
Solution helps the law enforcement officials track 'High Interest' individuals as they come into the city and continually track what they are doing

Generate warning and direct resources





The use of DVS goes beyond the provision of location data



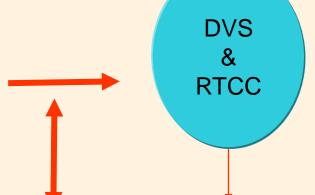
Solution helps the law enforcement officials detect loitering in public places by consolidating video feeds

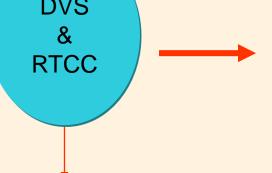
Dispatch Police to the area to address the situation













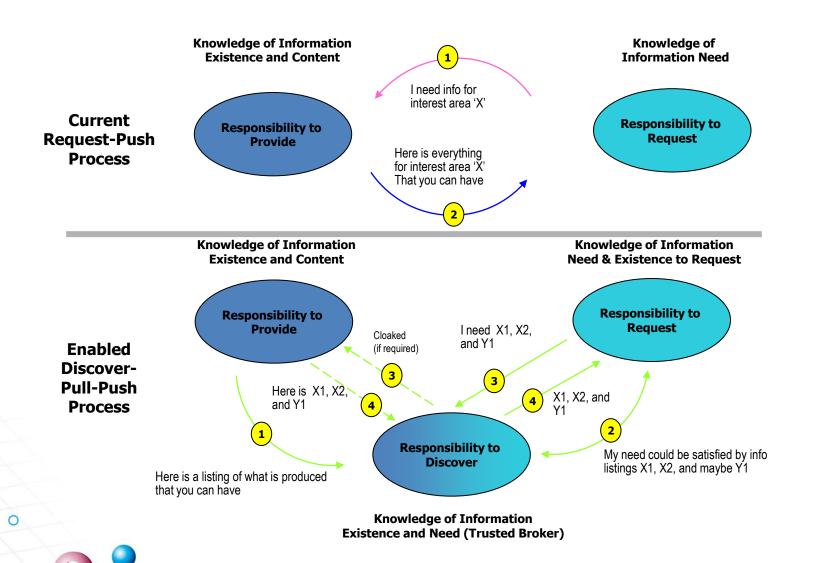




Selective storage for future reference



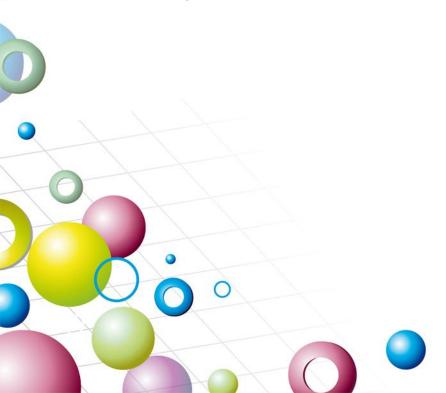
It's no longer enough to work in isolation. Data must be shared...



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Thank You ©

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Unlock the True Value of Your Information

