

POLICING THE FUTURE

USING AI FOR NON INTRUSIVE SURVEILLANCE



What is AI

Artificial intelligence is usually defined as the capability of a computer to perform operations analogous to learning and decision making in humans



Big Data

- Increasing amounts of data available.
- How can this be turned into usable Intelligence

In 2005 Roger Mougalias from O'Reilly Media coined the term **Big Data**:

It refers to a large set of data that is almost impossible to manage and process using traditional business intelligence tools.

Risk Score

- Absorb diverse data sets
- Use Text Analytics
- Create a Person Centric Score:

Personal Risk Score



6.0

Analysis

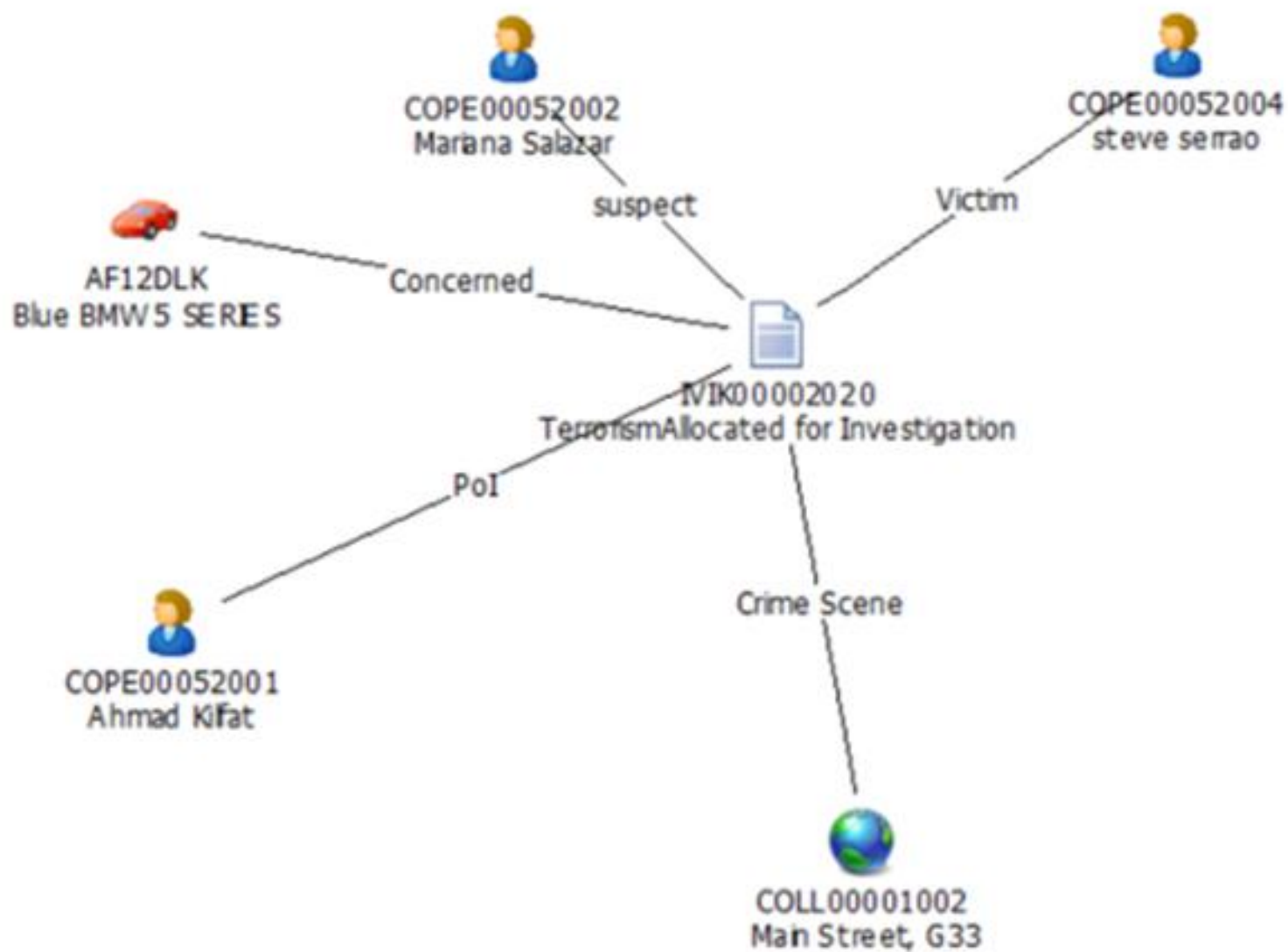
A doctor and his live-in partner were arrested in a buy-bust operation conducted by elements of the San Juan Police Station Drug Enforcement Unit (SDEU) at Brgy. West Crame, San Juan City on Wednesday afternoon. Authorities said Dr. Asiong Macaraeg, 59, and his partner, Dr. Christina Salazar, 36, were arrested during the police operation around 2:15 p.m. along 1st West Crame Corner Santolan

Police noted that the surgeon, who works in a private hospital in Tuguegerao, Isabela City, and his live-in partner were apprehended after a week-long surveillance and a tip from an informant that the physician was the supplier of illegal drugs in their barangay. The informant, identified by SDEU Police Insp. Edwin Malabanan as a former surrenderee under "Oplan Tokhang," transacted with the physician to buy illegal drugs and agreed to meet along 1st West Crame.

Aside from a sachet of illegal drugs, estimated to be worth P500, that the couple handed out to the buyer, the police confiscated another sachet of suspected illegal drug from the woman

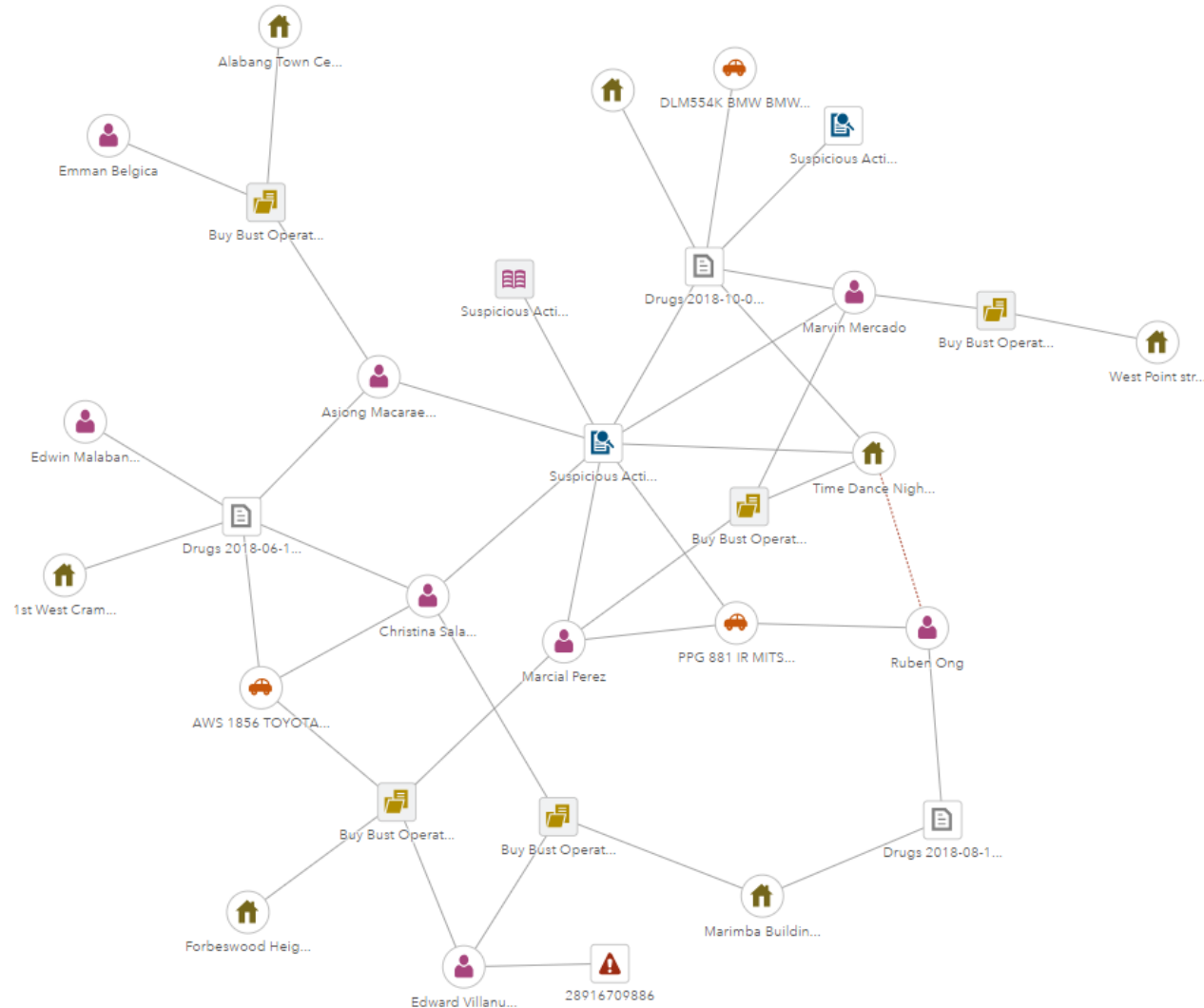
Ramos admitted he was involved in illegal drugs and only returned to practicing his profession in 2018 after five years.

	Label	Type		
	Christina Salazar	Person		
	1st West Crame ...	Address		
	Dr. Asiong Maca...	Person		
	Dr. Christina Sal...	Person		
	Edwin Malabanan	Person		
	Marikina City	Address		
	San Juan Police ...	Address		



People
Objects
Locations
Linked to an
Event

SAS BUSINESS BENEFITS



POLE Methodology:

- See all data and all connections
- In a way that suits your organisation
- Automated
- Self Service

- Prioritised
- Pushed to right user
- In near Real Time
- With Score Card
- And Dynamic Social Network

Proactive Alerts



Score ↓	Actionable Entity Label	Actionable Entity Type	Alert ID	Alert Service Count	Status Datetime
1000	Trainer Dave Dawson	person	20620149600	13	Apr 9, 2019 12:39:28 PM
90	Christina Salazar	person	43213157485	30	Jun 4, 2019 10:24:43 AM

1 - 2 of 2 items

Items per page: 100

90

Jun 4, 2019 10:24:43 AM

Christina Salazar

Person Alert

40

Has multiple warnings

20

Found in multiple Information Reports

30

Alert Information

Alert ID:
43213157485

Actionable entity name:
Christina Salazar

Actionable entity type:
person

Actionable entity ID:
640c2bfc-7cdb-46ab-88d0-75c8e1f2df1a

Score:
90

Queue:
linked_reports_queue

Status:

Network





How would this work in Real Life

Westminster Attack

22nd June 2017



Khalid Masood

Adrian Russel ELMS

Born Kent England 1964

7 Criminal Convictions

Converted to Islam 2000

Known to Security

Services since 2004



Reactive Intelligence

Matches to Watch List
Searches vehicle
Ownership Records
Searches other Car Hire
Checks
Searches RTC
Searches Insurance
Claims
Searches ANPR
Model Vehicles
Behaviour



Privacy

Legal
Ethical
Proportionate
De-personalised



Non Intrusive Surveillance

Event Stream Processing
Comparison to recent use
Proximity to known locations
Pattern of Driving



Conventional Response

- Cell Site analysis
- Intercept
- Production Order



Affecting Real time Outcomes

Could AI have affected the
outcome ?

Could we have prevented this ?



Thank you

