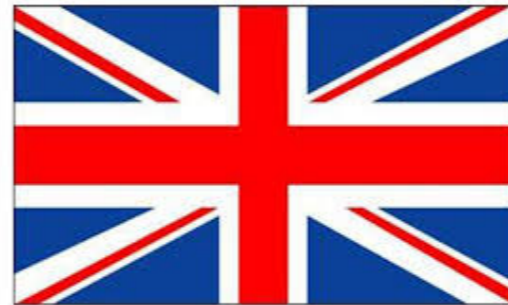


Digital Transformation: UK Policing



Paul Kennedy
UK Blue Light Channel
APCO Canada, 5th November, 2019

Career Background in Police and Technology

- Homicide investigation
- Deputy Chief Constable
- Strategic lead for mobile tech
- National lead for ANPR/LPR
- International Strategic Advisor: Digital Transformation





UK Law Enforcement

Policing By Consent

Efficiency

Effectiveness

Legitimacy

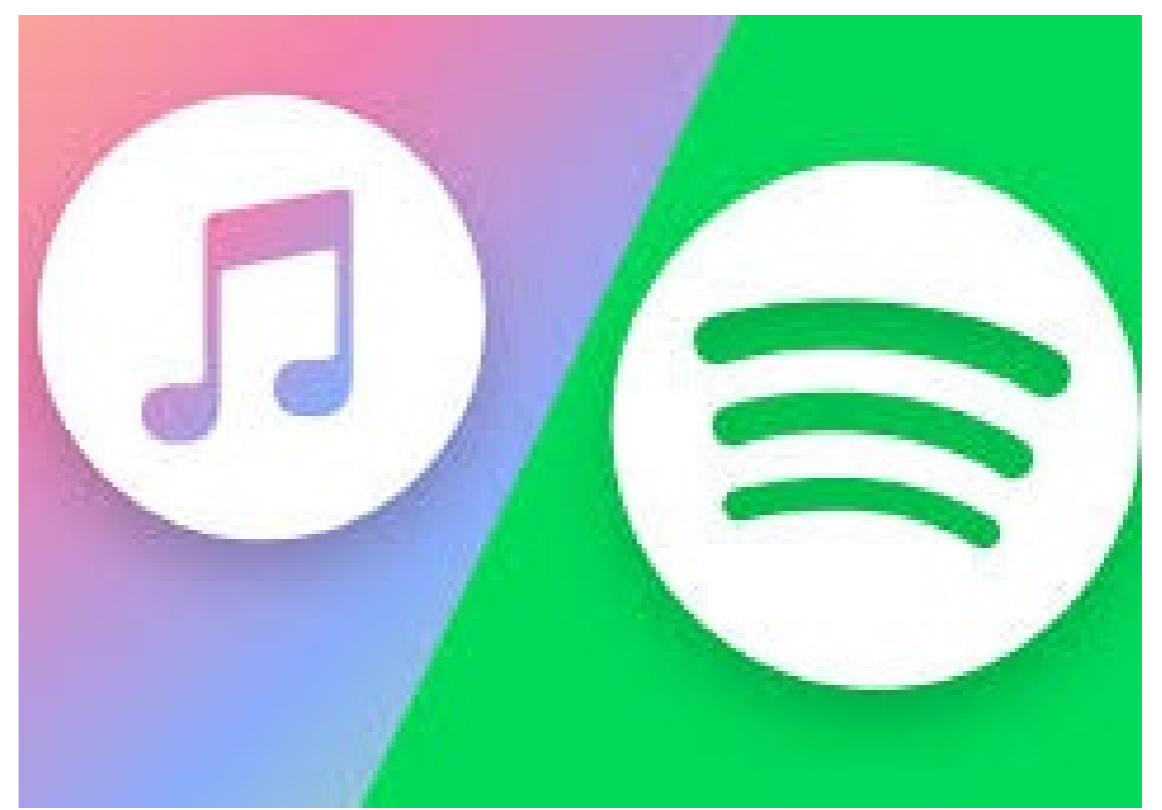




Warriors or Guardians?



Changing Times



Changing Times

- 1988: Criminal Record cards, fingerprints, handwritten intelligence reports on index cards, crime scene photographs
- 2019: BWV, tablets with access to international databases, access to huge amounts of evidence via social media
- New breed to criminals and crime fighters - brought up with google, smartphones, instant access and freedoms.

UK Policing

- 43 Police forces, Chief Constables, Police and Crime Commissioners.
- National Crime Agency
- BAPCO
- Police ICT Company
- Home Office
- County Lines



Crime & Demand

- Transforming Threat
- Increasingly globalised and enabled by tech
- Law enforcement agencies need to radically adapt from analog to digital
- Collaboration with tech industry is key
- How to ensure public trust and legitimacy around data sharing



Strategic Direction

- Policing Vision 2025
- Digital and Data Strategy
- Interoperability
- Digital Policing Programme
- 17 National Tech Programmes
- £1.4b Spend



UK Digital & Data Strategy

- Seamless Public Contact
- Reduce Harm: Who's vulnerable and who's offending?
- Digitally Enabled Staff
- Sharing data and information
- Empower Private Sector: Suppliers or Partners?

UK Stretch

- Artificial Intelligence
- Robotics
- Data Analytics
- Digital Evidence Management
- Cloud
- Smart cities



International Police Challenges?

- Challenges and Opportunities are consistent
- Answers to modern digital policing dilemmas are global
- Vast amounts of structured and unstructured data needs sifting e.g. terrorist attacks



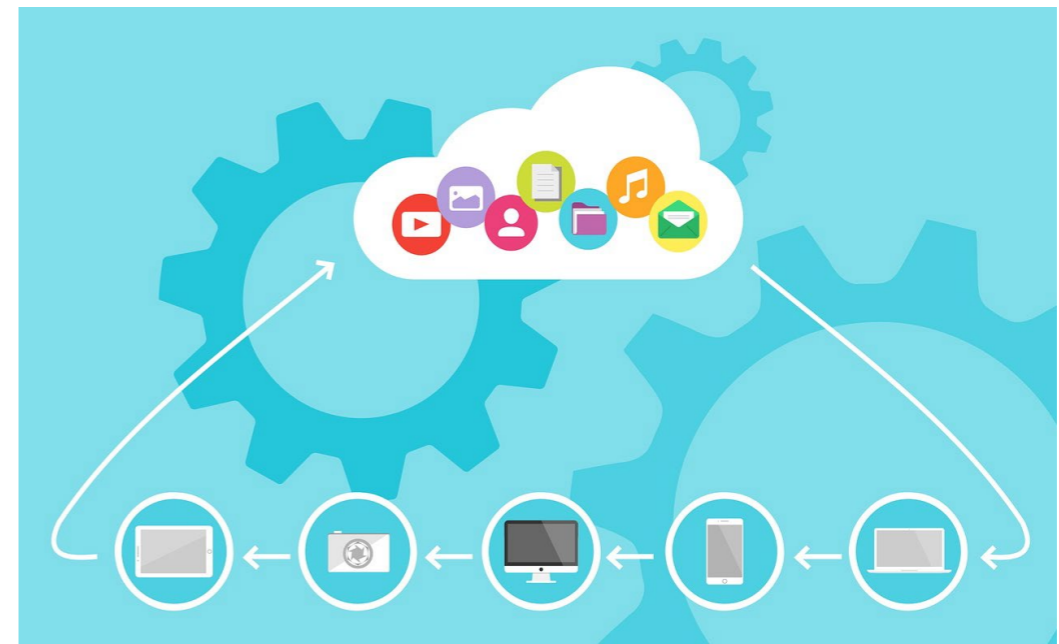
Sleep Walking?

- Artificial Intelligence
- Facial Recognition
- Machine Learning
- Process Automation
- Predictive analysis
- No legal frameworks



Cloud & AI

- Vision - object recognition
- Machine translation - speech recognition and translation
- Automating investigations e.g. from CCTV
- Harness high volume data and intelligence
- Audible and accountable
- Manage bias



Data Driven Policing

- Victims, suspects, witnesses, objects locations
- Lots of sensitive personal data
- Volumes and variety grown exponentially
- Trust and public consent e.g. facial recognition
- Troubled families; violent crime



Robotics and Police Decision Making

- Transactional law enforcement activities: vetting, minor collisions, firearms licensing.
- Critical decision making?
- Policing needs national and international approach to managing complex and technical issues re RPA
- Network of expertise, to support projects from initiation



What's working well?

- Digital Evidence Management
- Single OnLine Home
- Robotics Process Automation
- Mobility
- Biometric Identification
- Innovation
- Ethics committees
- NG 999





Case Study:
Digital Evidence
Management

NICE[®]

The Problem

- 90% digital evidence not timely available
- Investigators logging into multiple systems
- Manually searching high volumes of digital material to find connections
- Wasting time analysing and sharing
- Lost opportunities



The Solution



- NICE Investigate
- Microsoft azure cloud
- All digital evidence silos available from a single log on
- ‘Google type’ search across all connected systems: 999, BWV, crime scene images, CAD, RMS etc
- Automates collection, analysing and sharing
- 6000 users, 500,000 ingested cases, 4.6million searchable evidence items

Engaging with Police Customers (UK)

- What's the policing problem that you're solving?
- What are the key benefits to policing?
- Is your solution a transformation or part of?
- Scalable? Build once, use multiple times.
- Target the decision makers



UK Blue Light Channel

- Global best practice for digital transformation of policing
- Helping police develop digital strategies
- The art of the possible and the here and now
- Helping the tech industry to partner with police





The World Class Policing Awards 2019

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Policing Insight: 14th November, 2019

Thank you

Paul Kennedy
Tel. 0044 (0)7391 655169
pk2023@icloud.com