

First Pacific Islands Capacity Building Workshop on Child Online Protection

Extracting Intelligence to Turn the Tables on Child Abuse Material Traffickers.

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Background

- Former NZ Army Soldier (9 years)
- Former NZ Police Officer (9 years)
 - 5 years as intelligence analyst
- Managed own computer forensic business in NZ for (10 years)
- Moved to Sydney 2008 Head of e.forensics for corporate litigation support company
- 2011 commenced with NSW Police as Senior Electronic Evidence Specialist
- 2013 commenced as Cyber Program Coordinator/Lecturer at PICT, Macquarie University
- 2014 Appointed as an INTERPOL Cyber Security Panel member to, ICGI, Singapore

Education

- Diploma NZ Policing
- Bachelor of Business Studies (Accounting)
- Bachelor of Science (Information Systems)
- Post Graduate Diploma Forensic Science
- Master of Science (Honours)
 - Thesis on Cyber Terrorism
- Doctor of Philosophy
 - Thesis on file movement and concealment

Certifications

- Certified Forensic Computer Examiner (IACIS)
- Certified Fraud Examiner (ACFE)
- Completed over 1000 Digital Forensic Investigations

Cyber Program Coordinator

- What I do:

- Convenor Masters Degree Cyber Courses:

- Cyber Terrorism
 - Cyber Security
 - Cyber Crime
 - Cyber Policing and Intelligence (From 2015)

- Research

- Cyber Terrorism
 - Trafficking of Child Abuse Material

- Supervise

- PhD Students
 - Masters Research Students

The Situation

- A serious approach toward the investigation into the trafficking and possession of Child abuse material is needed.
- Increased efforts in the apprehension of offenders will stem the demand and reduce the supply diminishing the physical, sexual and emotional abuse of children worldwide

The Problem

- Law Enforcement Agencies encounter a magnitude of digital devices each year that have been submitted for investigation into the trafficking and possession of Child Abuse Material.
- Due to excessive workloads, lack of human and other physical resources, many investigations are restricted to gathering sufficient evidence to prove the current matter at hand.



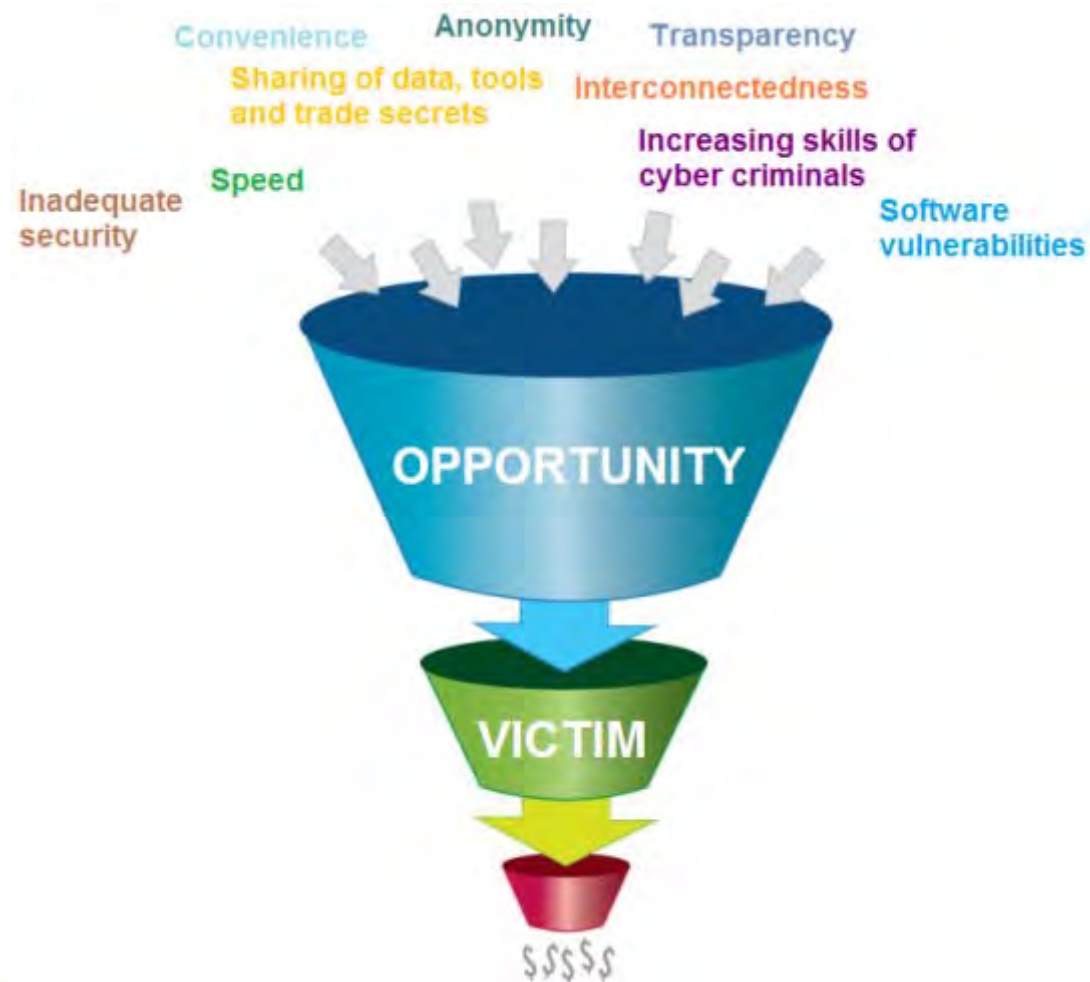
The Opportunity

- Many of these devices will contain other evidence that could locate the source of the material or other locations that the perpetrators have distributed the material to.
- This evidence could provide further inquiries that would expand an investigation to include many others involved in the distribution of the material.

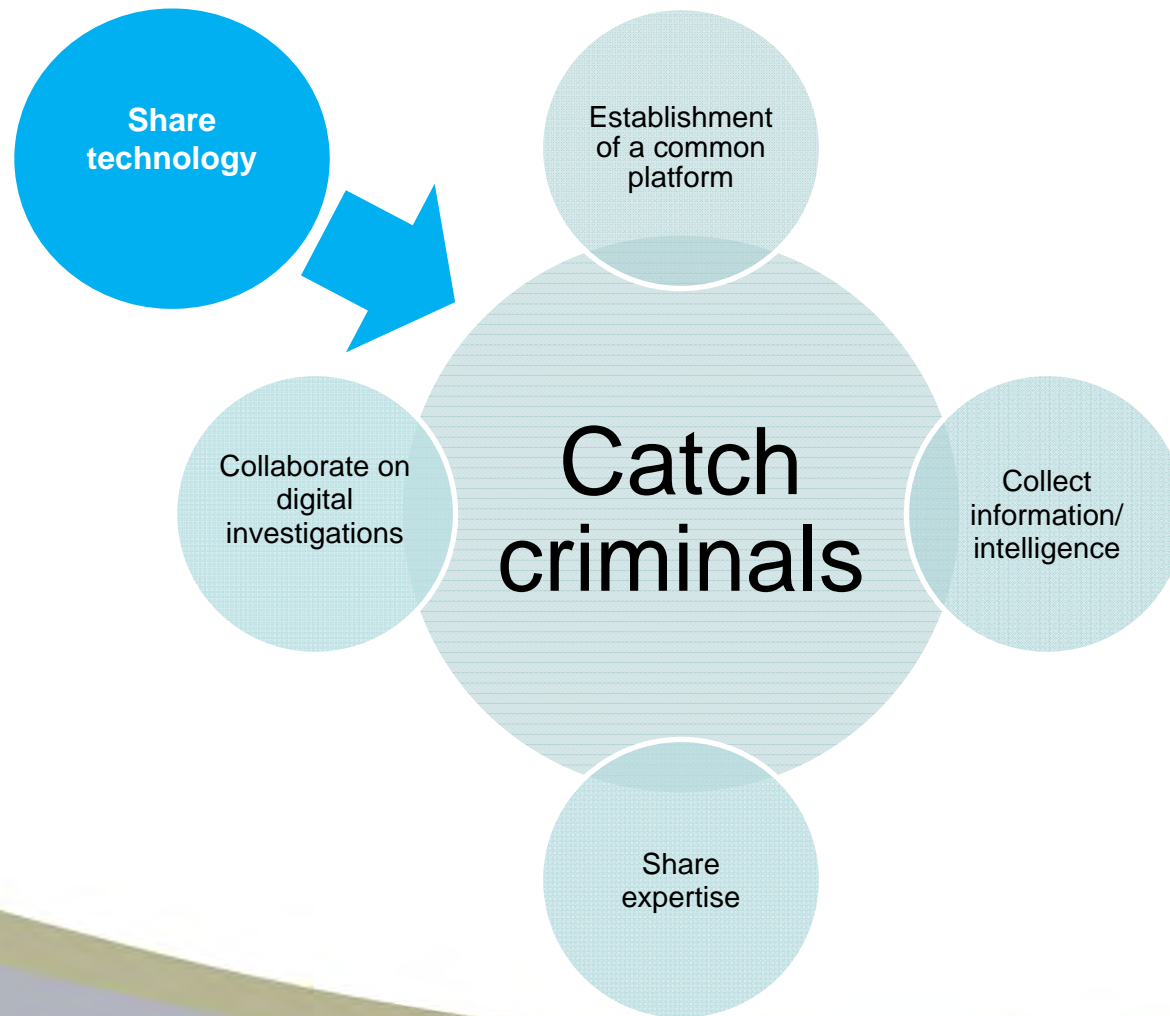
The Solution

- If this was to be conducted currently, manual searches for links to others involved would need to be conducted.
- However, if an automated process and model was available, follow-on investigations could ensue, resulting in a wider net being cast to apprehend those involved.

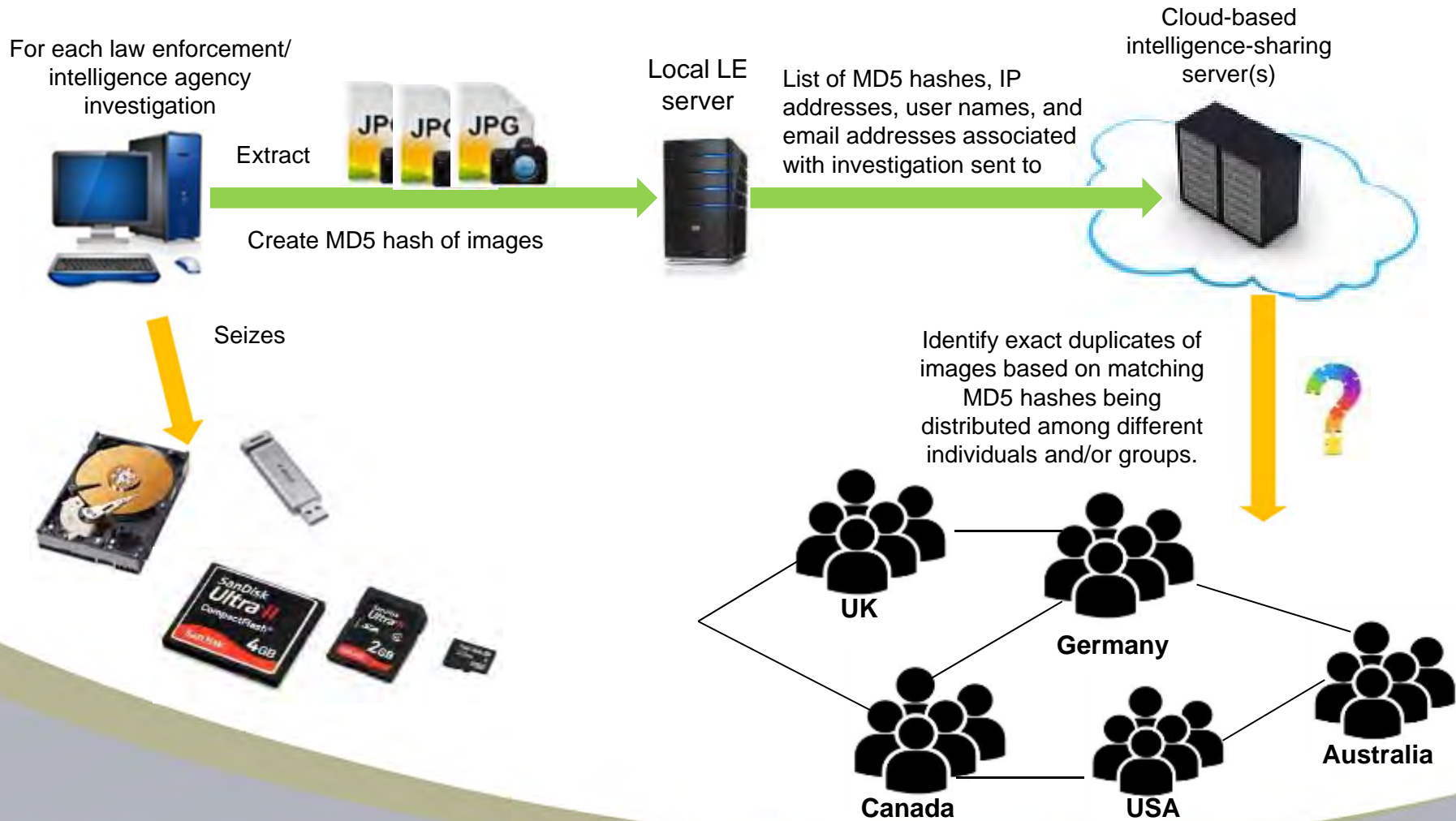
Greater need for intelligence sharing



The benefits of systematic intelligence sharing



Application to child abuse material



Issues to consider when introducing and maintaining an intelligence-sharing initiative

- Is a global intelligence-sharing initiative feasible?
- Who can/should and would want to participate in the intelligence-sharing initiative?
- What would the cost of implementing a global intelligence-sharing system be? Who would bear the cost? Who would manage it?
- How do we deal with the vast amounts/high volumes of data that will be generated?
- How do we deal with duplication of data and different platforms, file formats and file structures?
- Who owns the data held in the intelligence-sharing database?
- How will the data be secured/who will control access?
- How do we deal with language barriers (intelligence in languages other than English)?
- What are the privacy issues/from a legal perspective, how can the data be used?
- How do we deal with the differing laws and regulatory landscapes?

Interpol as a suitable facilitator for the intelligence-sharing initiative

- Global reach
- Already has established relationships
- Intergovernmental law enforcement organisation
- Already has many intelligence-sharing initiatives in place
- Investing heavily in cyber crime research, innovation and outreach to formulate a global security strategy (Interpol Global Complex for Innovation in Singapore)
- Ability to develop the legal, financial and administrative frameworks relating to cyber crime
- Ability to provide operational and investigative support

Any questions?

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