



2014 ACIIA CONFERENCE BALI, INDONESIA

ASIAN CONFEDERATION OF INSTITUTE OF INTERNAL AUDITORS

The Stones Hotel - Legian, Bali 24 - 25 November 2014

Organized by:



Supported by:



Analytics in Action

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Te Puni Kōkiri Realising māori potential

Learning Objectives

- Background
- Types of Analytics
- Case Studies
- Internal Controls
- Tools and Resources
- Summary

Background



What business are we in?



What business are you in?

- You need to understand your business
- You need to understand your risks
- You need to understand your risk appetite

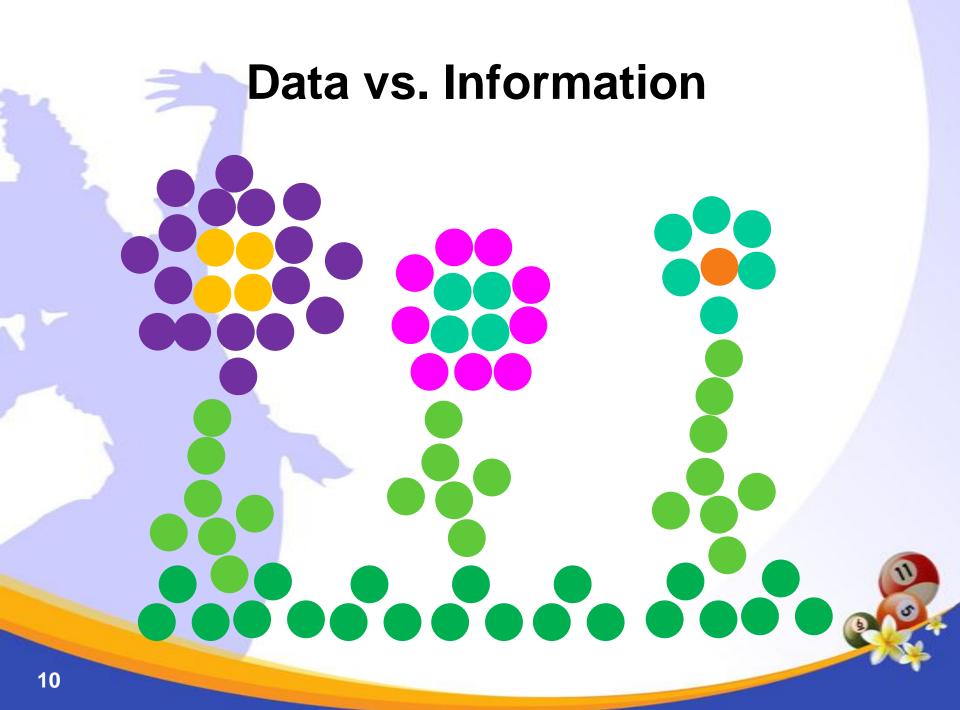


Analytics

Quick Poll

Does your organisation use data analytics in fraud prevention and/or detection?

YesNo



Data Analytics

(Traditional rules based)

- Collect
- Transform
- Mine
- Analyse
- Report

Informed Decisions

Text Analytics (Non-traditional)

- Pattern
- Frequency
- Concept
- Linkages
- Key word association

Based on what you already know

Visual Analytics

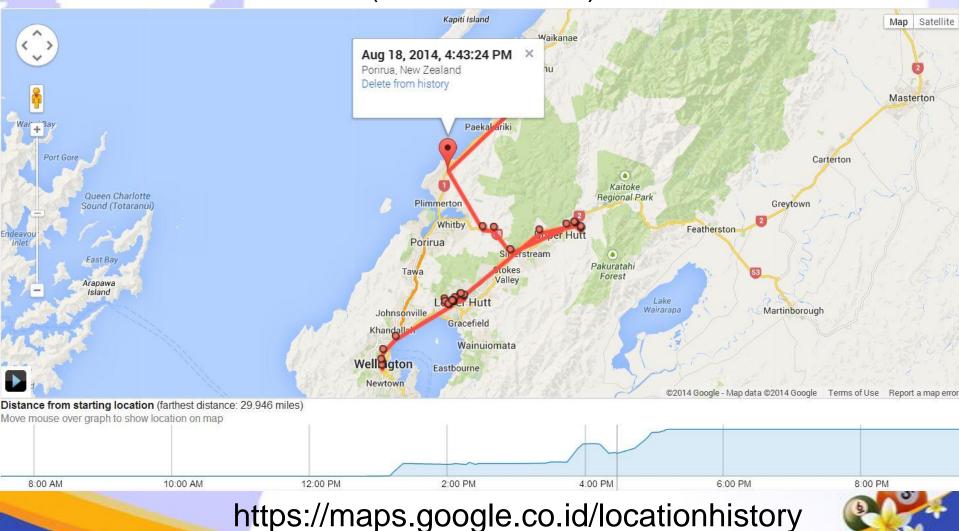
(Non-traditional)

- Coordinate mapping
- Relationship
- Linkages
- Pattern
- Proximity analysis

Based on what you already know

Visual Analytics

(Non-traditional)



Internal Controls

- Internal controls are only as good as the people who administer them. Many organisations claim to have sound control frameworks but in reality very few do.
- A proactive framework requires proactive people; and lots of thinking to identify "what could" and not "what is".
- Most people are reactive, that is human nature.
 To many organisations, to identify "what could" is seen as a waste of resource (time and money).
- End result ? Too much reliance is placed on trust, hope, culture and people.

Search engines

dogpile, webcrawler, duckduckgo, alhea

- Public records for addresses and phone numbers
- Digital footprint
- Birth, death and marriage registrar
- Reverse look ups (phone & addresses)
- PPSR (personal property security registrar) Indonesian equivalent?

- Google Earth (2D, 3D and Areal)
- Physical address search



Is this a real business address?

- Social media (LinkedIn, Facebook, Twitter, etc.)
 #3 Twitter country in the world! More tweets from Jakarta than from Tokyo, London and New York.
 #4 Facebook population in the world!
- Online news sites

Detik.com, Kaskus.co.id, Kompas.com



What do you search for?

- Topical searches
- Boolean logic
- Refine and narrow searches
- Acronyms, aliases and AKA's
- Try common misspellings
- 5 wives and a husband (5W1H)

How do you search

- Known particulars (e.g. DOB)
- Known events
- Use "AND", "OR" and "NOT"
- Quotation marks
- Character strings



Summary

- Understand your business
- Data vs. Information
- Types of analytics
- Case studies
- Limitations of internal control
- How to mine for information

Questions?

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