

The logo for RISK NZ, featuring the word "RISK" in white on a dark blue background and "NZ" in white on a lighter blue background, all enclosed in a dark blue rectangular border.

**RISK NZ**

**PRACTITIONERS' DEVELOPMENT DAY  
13TH OCTOBER 2015**

**WELLINGTON:**

Wharewaka Function Centre  
– Whole of Government  
and Whole of Country  
approaches to Risk Management

**CHRISTCHURCH:**

City Council Civic Centre  
– Applied learnings from  
major risk events

**AUCKLAND:**

Beca Auditorium  
– The external face of  
Risk Management

**Registrations now open: visit [www.risknz.org.nz](http://www.risknz.org.nz)**



RiskNZ gratefully acknowledges the support of our premier sponsor



We also thank our hosts for this event:  
Beca, Navigatus, Christchurch City Council, WEL  
Networks, Unison, Powerco and KPMG

# Cyber Security

**RISK NZ**

August 2015

# Who are we

- Dean Carter
  - Technical Director Information Security
  - Ex QSA
- 
- Shahn Harris
  - Senior information security consultant
  - Finance, local government and telco background



We are coaches not referees,  
We focus on improvement;

not simply on telling you what you are doing wrong. 





# Information





# Recent Examples



**TARGET**

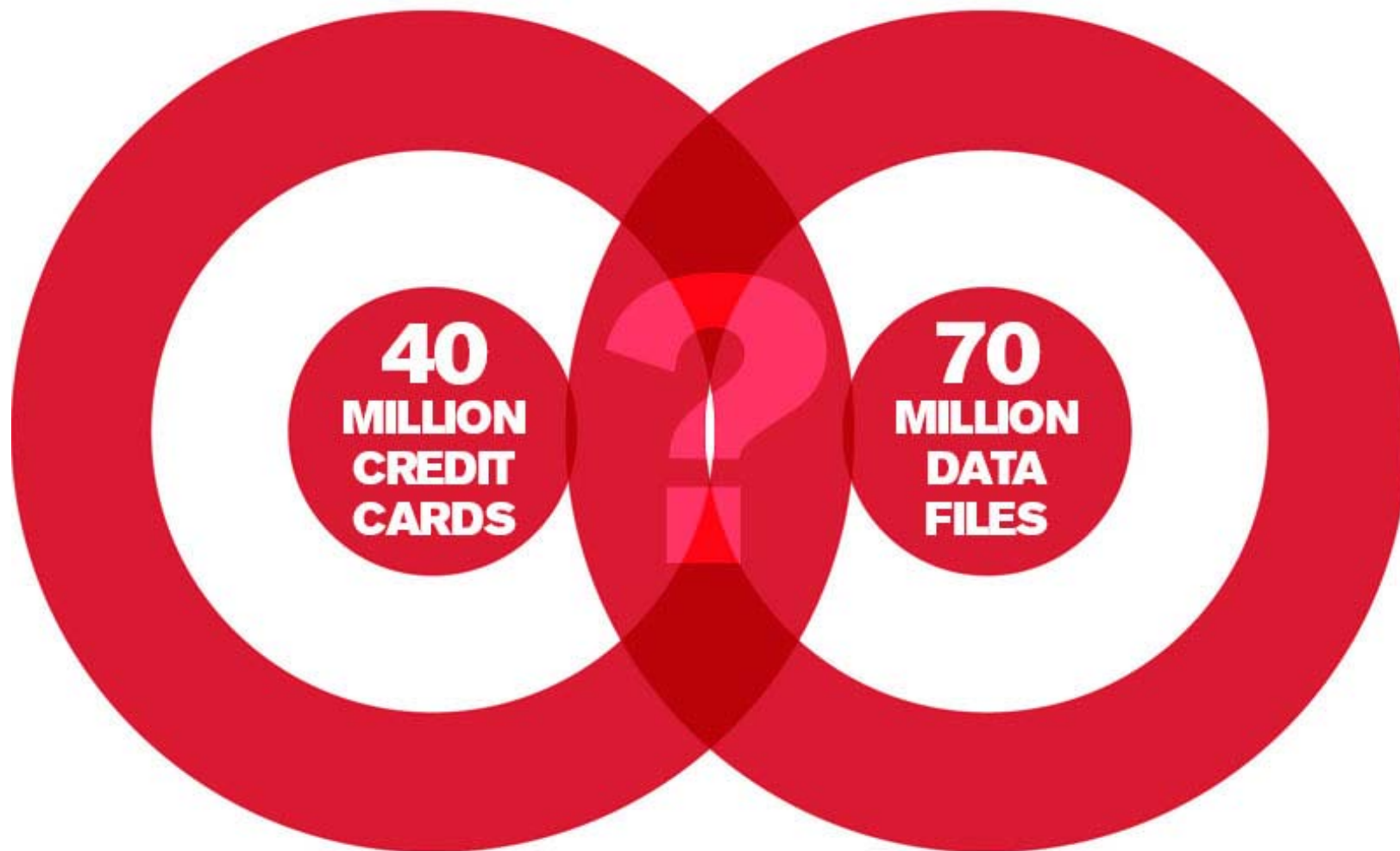


# What does a PCI breach cost?

- Discovery, Response and Notification
  - Employee Productivity Losses
  - Regulatory Fines
  - Restitution
  - Credit Card Replacement
  - Security and Audit Requirements
  - Opportunity Loss
- 
- Bottom Line: **US\$354** per record

Source: Account Data Compromise and the Cost of a Data Breach, MasterCard 2009

# InfoSec Review 2014 - Global



**CYBER**  
**ATTACK**  
**CRIME**  
**INTERNET**  
**COMPUTER**  
**WARFARE**  
**HACKING**  
**INFORMATION**  
**SYSTEM SPAM**  
**PORNOGRAPHY**  
**COMMUNICATIONS**  
**TERRORISM**  
**ILLEGAL**  
**OFFENSIVE**  
**CRIMES**  
**DATA**  
**WEBSITES**  
**ACCESS**  
**COMMITTED**  
**FINANCIAL**  
**OFFICIALS**  
**INFECTED**  
**LIMITS**  
**STALKING**  
**ALLOW**  
**TIME**  
**INDIVIDUAL**  
**UNLAWFUL**  
**ENCRYPTED**  
**STORED**  
**NEEDED**  
**SENDING**  
**MAIL**  
**FUTURE**  
**TECHNICAL**  
**COMBATTING**  
**DEFENSE**  
**PHYSICAL**  
**NATION**  
**USING**  
**INDIVIDUALS**  
**UNAUTHORIZED**  
**INVESTIGATORS**  
**CYBERSPACE**  
**FRAUD**  
**GOING**  
**INCLUDE**  
**PURPOSES**  
**DEPARTMENT**  
**OBSCENE**  
**DURING**  
**HARASSMENT**  
**GOVERNMENT**  
**FACILITATED**  
**ADVANCE**  
**CONSIDERED**  
**WEBSITE**  
**CRIMINAL**  
**GROUPS**  
**VARIETY**  
**RESOURCES**  
**SURROUNDING**  
**THEFT**  
**KINETIC**  
**HATE**  
**CONTENT**  
**HARM**  
**CITATION**  
**TRADES**  
**TRAFFICKERS**  
**DIRECTLY**  
**DEFINED**  
**TOPOLOGY**  
**SECURITY**  
**HACKERS**  
**DOCUMENT**  
**VICTIM**  
**WAY**  
**TRAFFICKING**  
**MALICIOUS**  
**CODE**  
**ELECTRONIC**  
**JURISDICTIONS**  
**BETWEEN**  
**HACKING**  
**AREA**  
**ALIAS**  
**FORM**  
**SEVERAL**  
**SERVICES**  
**ABILITY**  
**ADVANTAGE**  
**FACE**  
**WELL**  
**UNSOLICITED**  
**COUNTS**  
**DEVICES**  
**REFERS**  
**ACCORDING**  
**SPECIFIC**  
**ACTING**  
**USED**  
**GROUP**  
**PEOPLE**  
**CAUSE**  
**HIGH**  
**RING**  
**ROOFS**  
**MAJOR**  
**DISTRIBUTED**  
**DETECT**  
**UNIVERSITY**  
**INCLUDED**  
**CONCERN**  
**SCAMS**  
**RACE**  
**SYSTEMS**  
**INCREASINGLY**  
**ALTERING**  
**CHILD**  
**DRUG**  
**PORNOGRAPHY**  
**ANALYZE**  
**COMMUNICATIONS**  
**TERRORISM**  
**MILLION**  
**BOTNET**  
**TECHNOLOGY**  
**ORGANIZED**  
**DOCUMENTED**



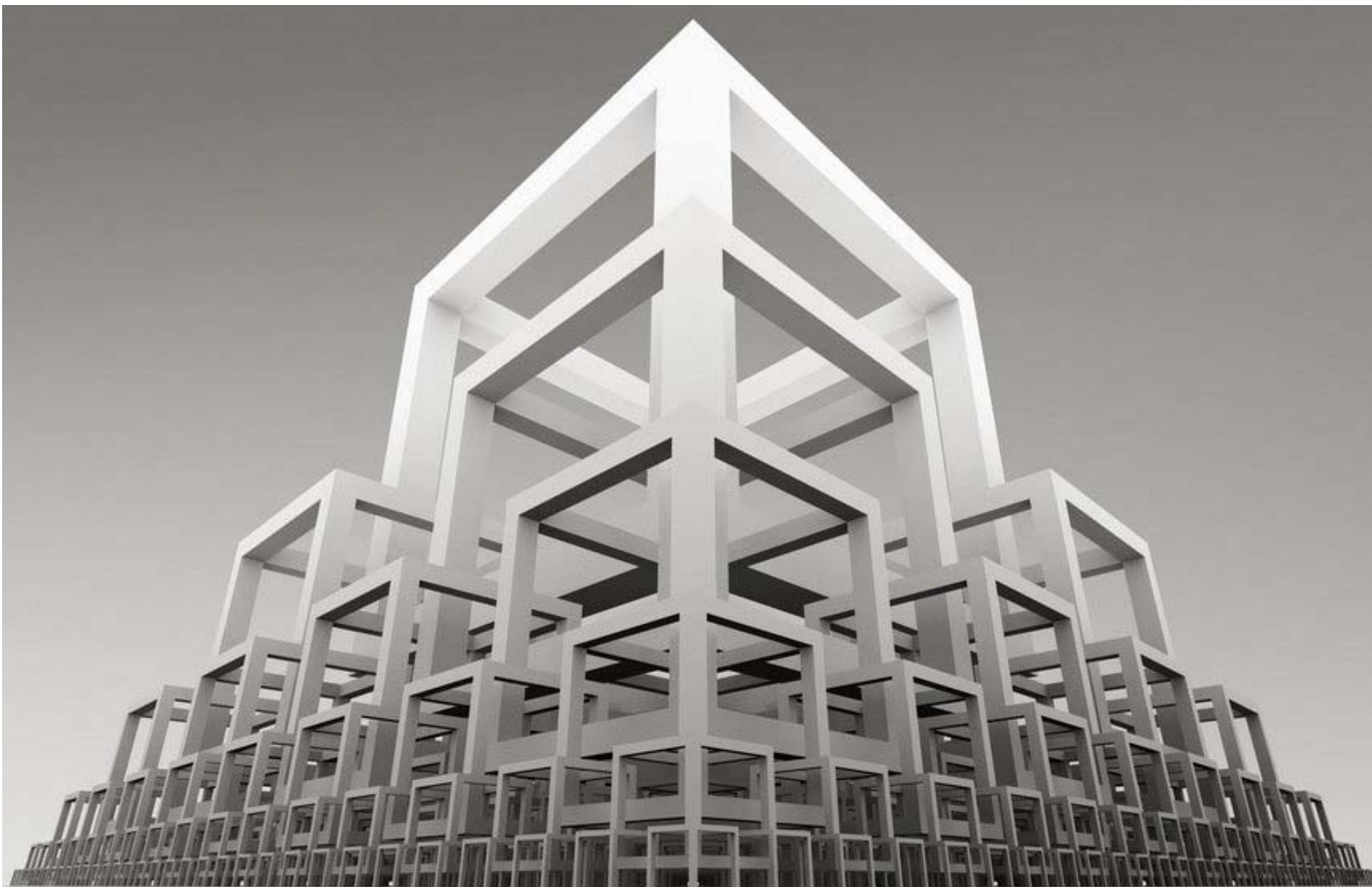






# NZ Insider threat







**TRUST**

# Beware the sales pitch...



# Shadow IT





# Top 10 requirements of any project

- Identify the Data
- Identify the Laws Regulations and standards for that data
- Access controls required for the data
- What is the technology stack?
- Security requirements
- Third party involvement
- End Environment
- Maintenance
- Risk
- Reputational damage

# Lunch is Never Wrong



# Free resources



# Closing points

- Don't forget internal threats
- Technology is changing *fast*
- Standards and control frameworks evolve ... Slowly
- Many risks, not all cyber

# Questions?

