

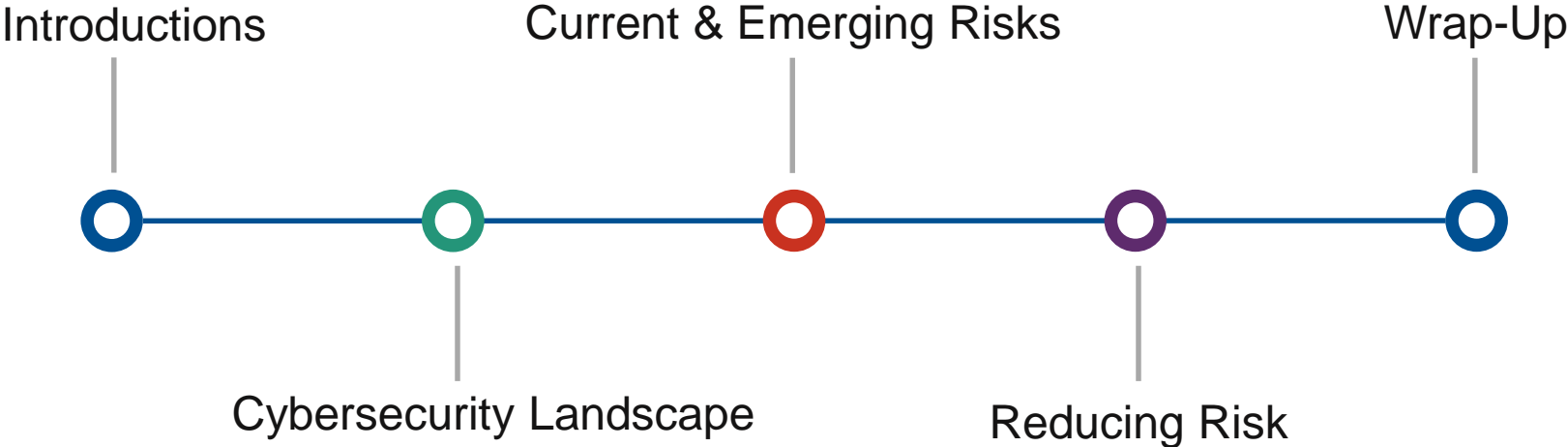


Cybersecurity for Municipalities

2017 AUMA Convention



Agenda



Chris Burchell



Senior Client Solutions Architect Optiv Security

- Over 20 years of experience
- Wide variety of industries
- Diverse experience
- Builder, problem solver

About Optiv



Largest pure-play cyber security solutions provider

Mission:

Partner with organizations to help them plan, build and run successful cyber security programs.

Vision:

To be the world's most advanced, most comprehensive and most trusted partner for cyber security solutions.

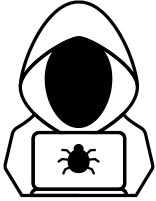
Singular Focus: Cyber security



The Cybersecurity Landscape



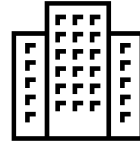
2017 Cybersecurity Headlines



Shadow Brokers



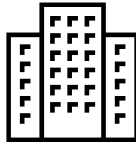
WannaCry



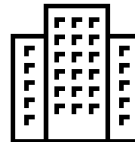
Petya / NotPetya



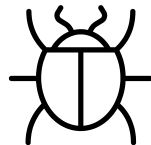
199 Million
Voter Records



University of
Calgary



MacEwan
University



and the list goes on...

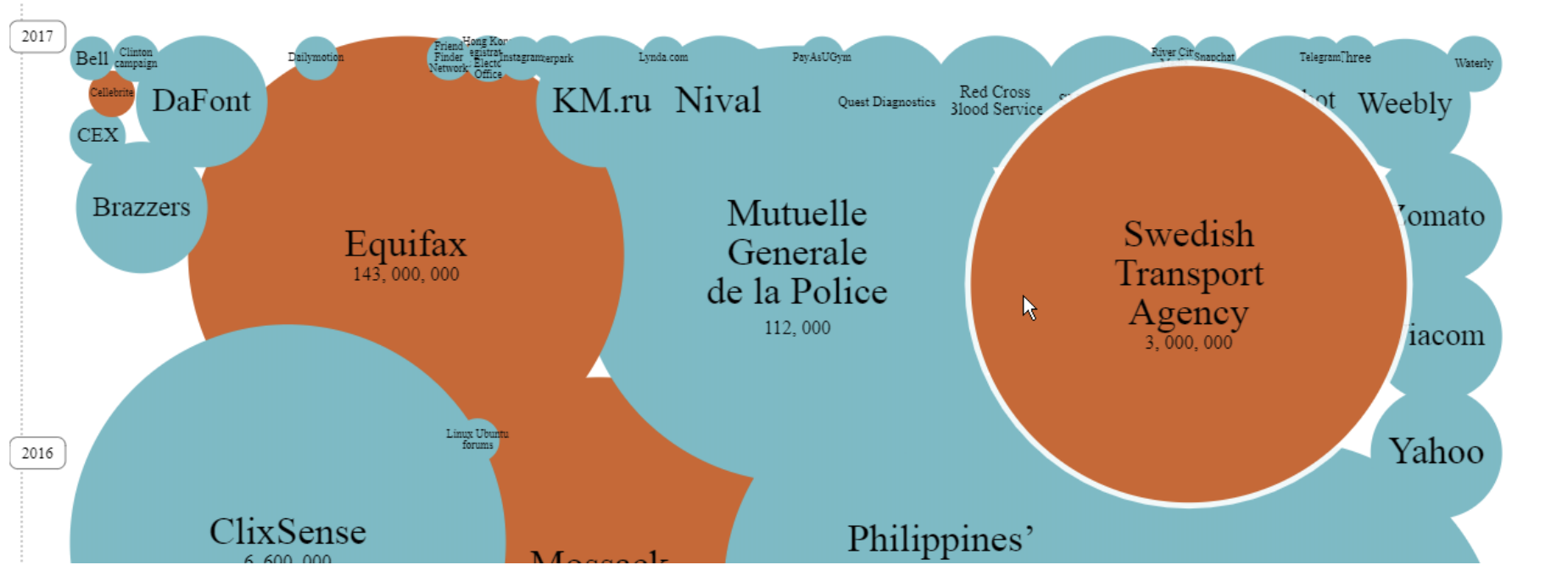
World's Biggest Data Breaches

Selected losses greater than 30,000 records

(updated 10th Sep 2017)

interesting story

YEAR BUBBLE COLOUR METHOD OF LEAK BUBBLE SIZE NO OF RECORDS STOLEN DATA SENSITIVITY SHOW FILTER



<http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/>

Verizon Data Breach Investigations Report

- “It can’t happen to us...”
- “We’re all good...”
- “Sure my password is strong...”
- “We don’t need to do anything different...”



61% were businesses with less than 1,000 employees



95% of phishing attacks followed by some sort of software installation



73% were financially motivated

27% of breaches discovered by third parties

It can happen to you.

Challenges, Current and Emerging Threats



A Very Big Problem



World wants to be more connected

Massive explosion/churn of infrastructure and data

Threat volume and sophistication growing exponentially every day

Nearly every tactic can be defeated

There is no one-size-fits-all solution

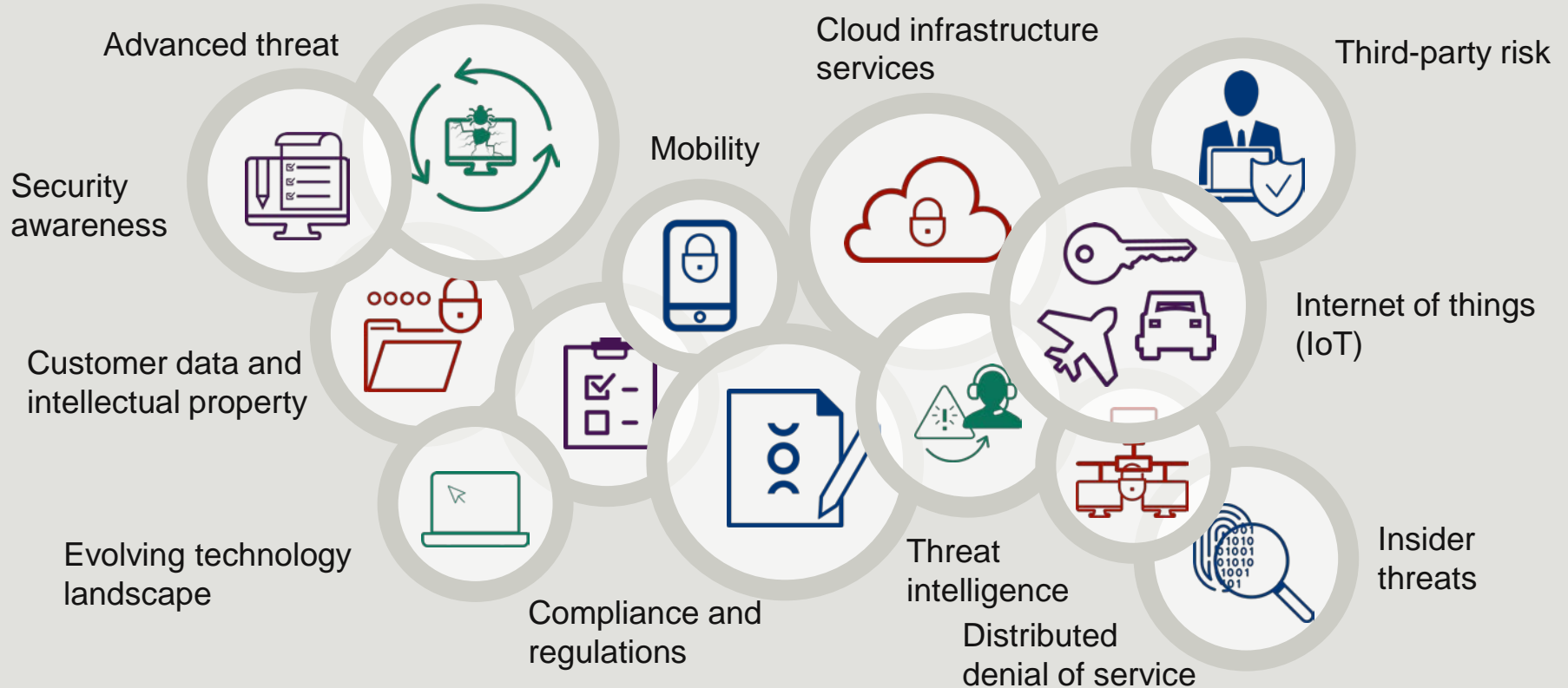
It will never be done

Stakes are high and getting higher

Thousands of options and choices

Few have the know-how, awareness, resources or time to catch up or keep up

Cyber Security Challenges



Current and Enduring Risks

- Stolen or weak passwords
- Good old-fashioned hacking
- Malware / Ransomware (phishing)
- Social engineering attacks

Emerging and Growing Risks

- Cloud Security
- IoT
- Third Party Risk
- Insider Threats

Reducing Risk



Reducing Risk – Overview

- Know what you're dealing with
- Know your exposure
- Build a business-driven security program
- Prepare for the inevitable

Reducing Risk – Know What You’re Dealing With

Prevent and Mitigate

- Know your assets
- Restrict traffic
- Use multi-factor authentication
- Limit administrative access
- Log and monitor events

Respond and Investigate

- Use IR playbook
- Proactive review
- Change administrative passwords
- Contain and eradicate threats
- Engage legal and PR teams early

Do you know what you are trying to protect and how important it is?

The Security Journey

Business Aligned Strategy: Create a security program that enables your organization by understanding the business objectives, compliance objectives, threats and material risks.



Prepare for the Inevitable

- Get executive buy-In
- Educate and raise awareness
- Have a plan (and rehearse it)
- Supplement / CYA
- Build internal capacity or partner with experts

