



PORT of
vancouver

Vancouver Fraser Port Authority Cyber Security Program

Presentation: ACPA Conference
September, 2017

Summary

How do we ensure our electronic systems, sensitive data and automated processes are protected?

Vancouver Fraser Port
Authority's (VFPA)

1. Approach
2. Measures



Approach: Goals

- Deploy measures that will:
 - **Appropriately** reduce the threat of a cyber security compromise
 - Minimize business disruption, reputational damage, monetary impact of any compromise when/if they occur

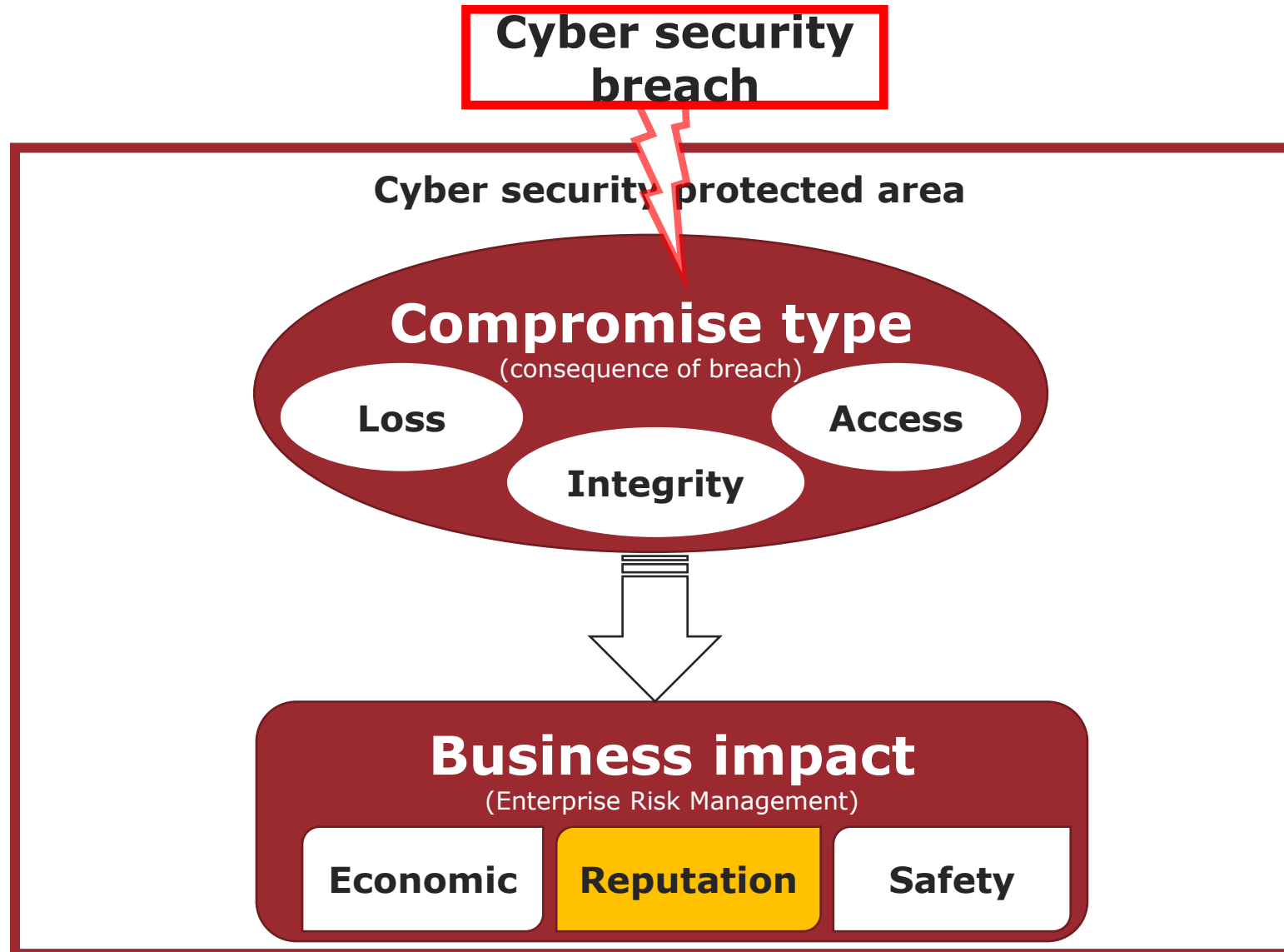


Approach: Program Pillars

- Vancouver Fraser Port Authority's (VFPA) Cyber Security Program has three pillars:

Organization	Response	Technology
• Culture	• Detect	• Replace
• Governance	• Contain	• Reconfigure
• Processes and policy	• Recover	• Retire

Approach: Business RISK driven - Consequences Of A Breach



Approach: Size & Complexity

- Impact and consequence are not solely determined by size and complexity
- The business must explicitly make the business risk decisions and correspondingly determine the investment and focus

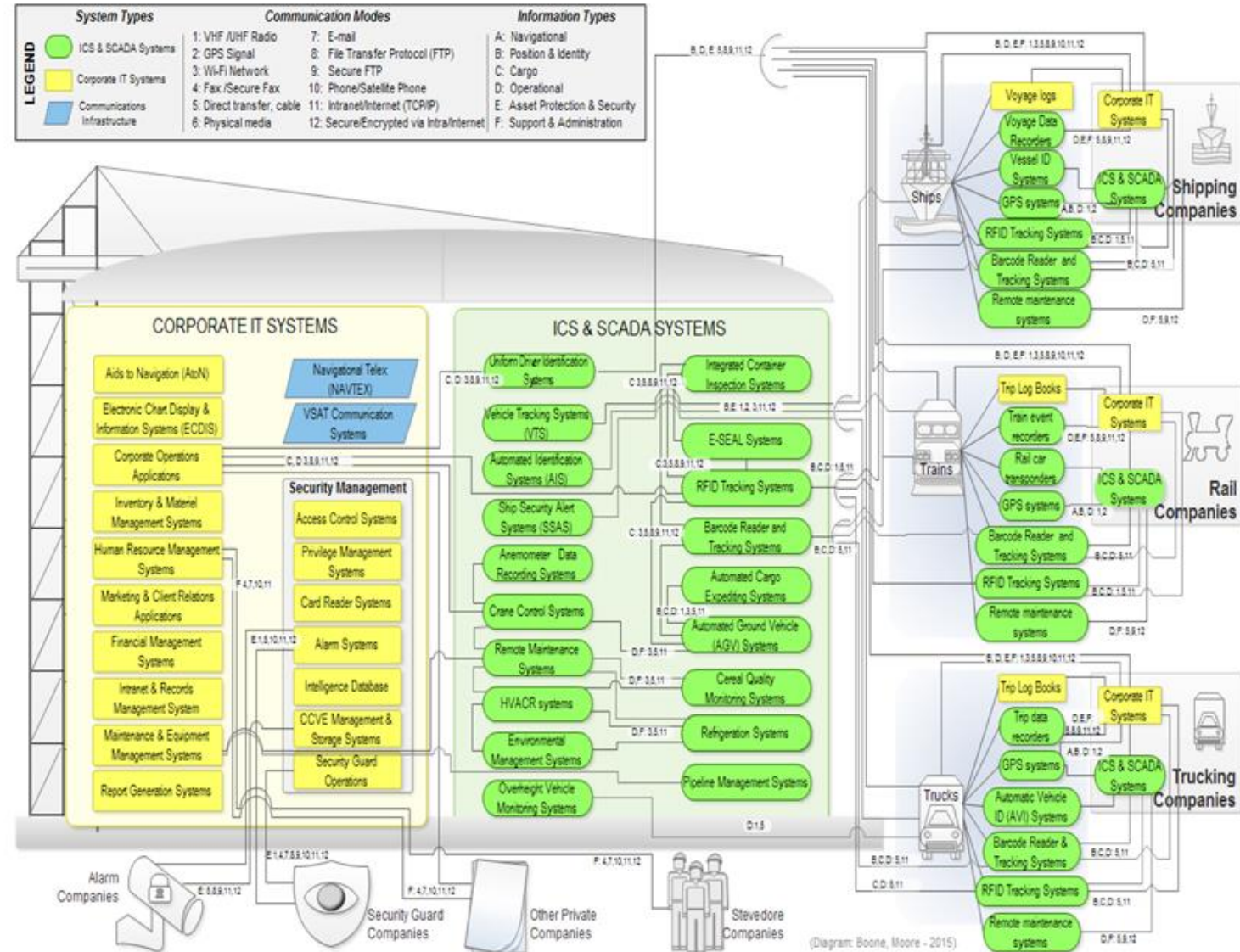
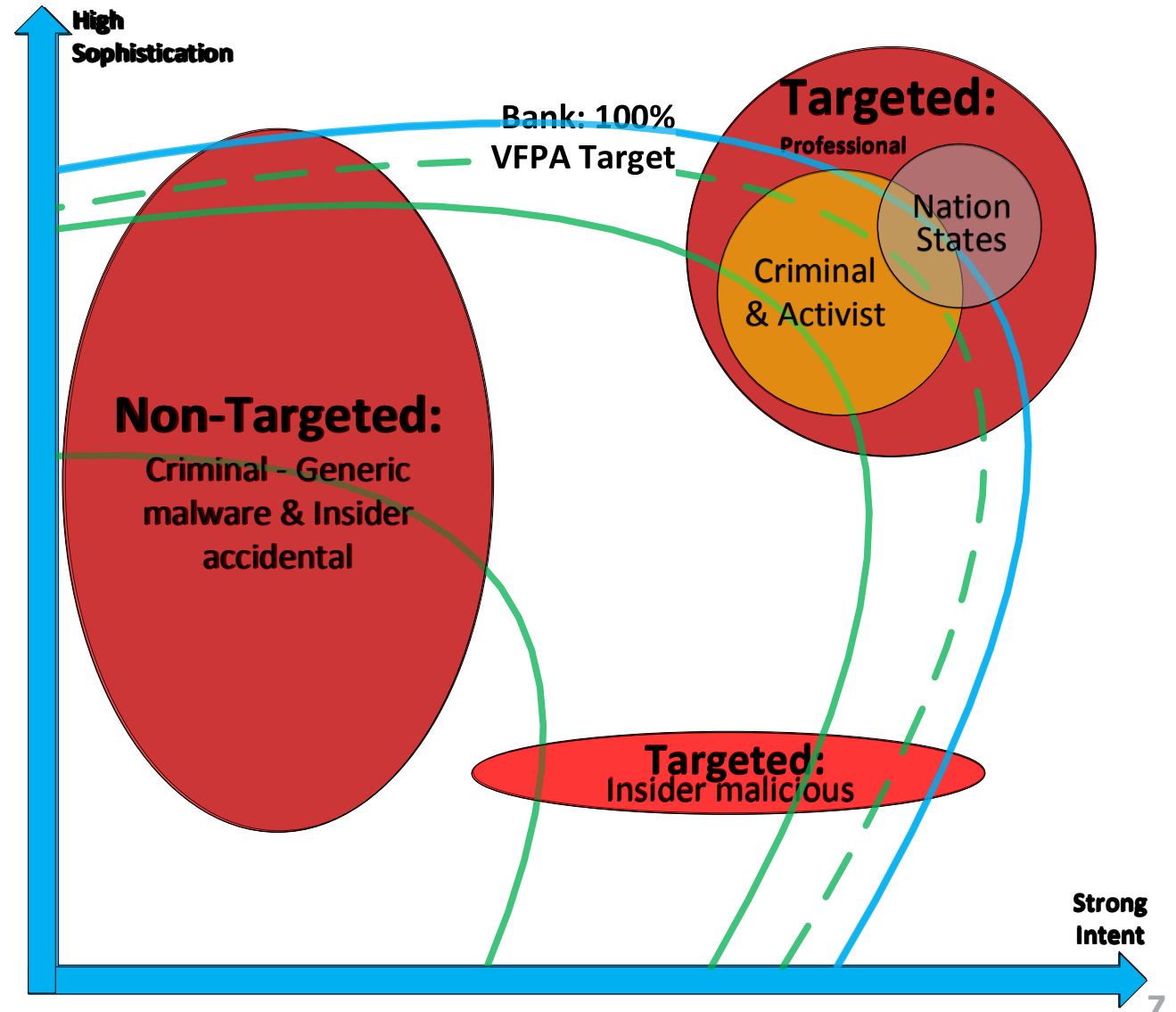


Figure 1: Port and Marine Facility Cyber Systems and Information Flows

Measures: Setting Appropriate Targets

- Categories of threats
- "NIST" was adopted to formalize measures
- Bank used as a reference
- "Appropriate" VFPA Target



Measures: Keep the Program on the right track



Ernst & Young:

Overall program review and Program completeness



Price Waterhouse Coopers:

Validation of VFPA's NIST scoring



2018:

Cyber security breach test

Key Messages

- Business, **NOT** the IT department, should determine risk to the business
- Use Measures to ensure:
 - IT and security investments are appropriately focused
 - Security benefits are quantified
- Other notable points:
 - Cyber exploitation is profitable and strategic
 - Invest and embed cyber security into the culture

Next Challenge

- Gateway level involvement?
 - Considerations
 - Resources
 - Inherited accountability
 - Understanding of requirements

Questions