Panel: From Cyber Resilience to Confidence

Moderator: Phoram Mehta, President (ISACA Singapore Chapter)

Panelists: Koh Suat Hong(PDPC), Joshua McCloud (Cisco Systems), Lim Thian Chin (Cyber Security Agency of Singapore), Joe Weiss (Applied Control Solutions), John Yong (SATA CommHealth)

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The Breach Goes On

Joshua McCloud
National Cybersecurity Officer, Cisco

Current Event Lures

Growth in percentage of attacks leveraging COVID-19, racial injustice, etc

Malware & Phishing

COVID-19 (PoetRat)
Public health notices with RAT infection

Black Lives Matter (Trickbot)
Social campaign with banking trojan

Organizations & Critical Infrastructure

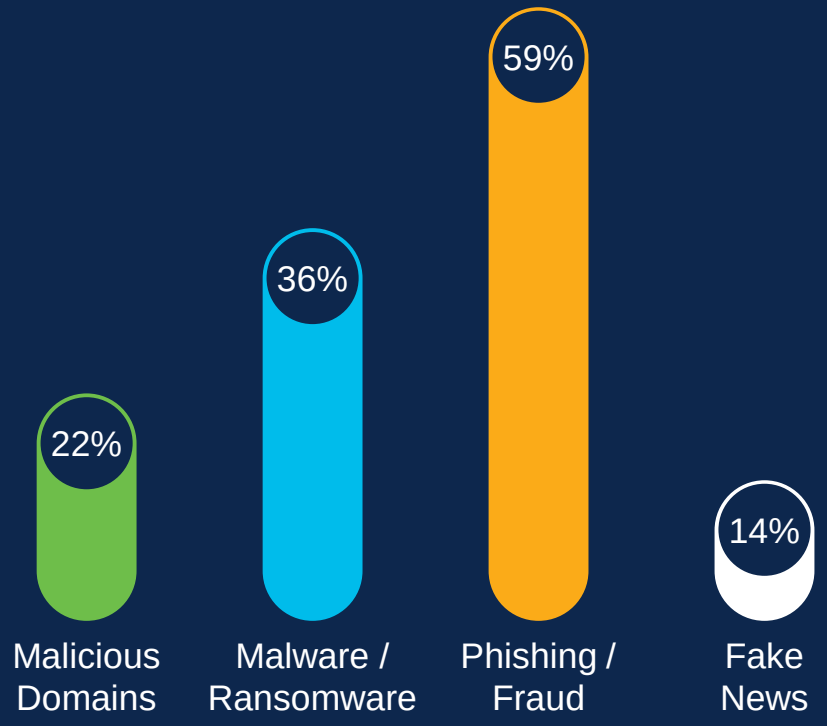
Healthcare (Kwampirs)
Supply chain attack on hospital ICS management

Critical Infrastructure (DDoS, Ransomware, Vulnerabilities)
Remote access attacks – VPN, RDP
Video conferencing vulnerabilities

Source: Cisco Talos

INTERPOL Report

Cybercrime: COVID-19 Impact



Main Treats Identified

Asia Regional Trends

COVID-19 related fraud and phishing campaigns

Illegal online sale of fake medical supplies, drugs, PPE

Fake news and misinformation related to COVID-19

Lack of cybersecurity awareness and ‘hygiene’

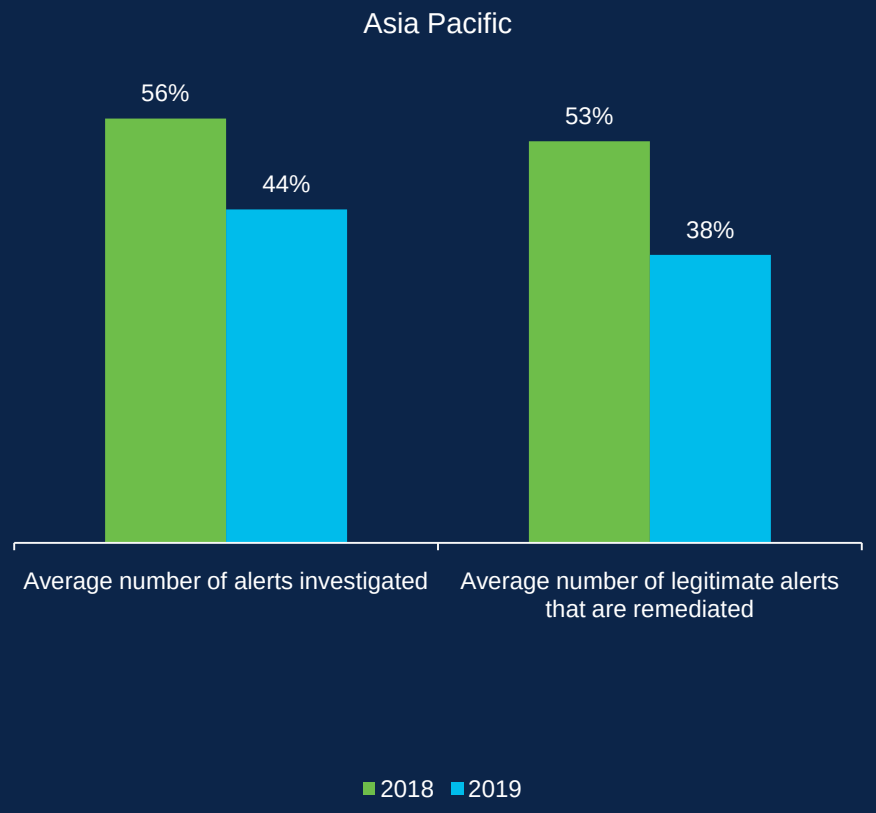
Source: INTERPOL

Security practitioners in Asia Pacific are being kept busier than their global counterparts

Percentage of organizations that reported receiving more than 10,000 alerts a day

Source: Cisco 2019 Asia Pacific CISO Benchmark Study
http://cs.co/APACbenchmark

Organizations in Asia Pacific continue to struggle to cope with security



Hackers are no longer just targeting IT infrastructure

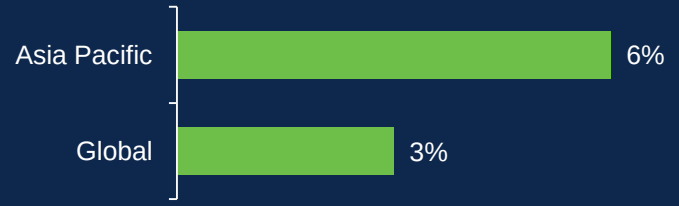
In Asia Pacific **VS** **Global**

25%	of organizations had already experienced an OT attack	21%
73%	expected this trend to increase in the next year	64%

Security practitioners in Asia Pacific are finding it challenging to orchestrate alerts

Organizations in Asia Pacific are managing slightly more vendors per company than their global counterparts.

>10 vendors

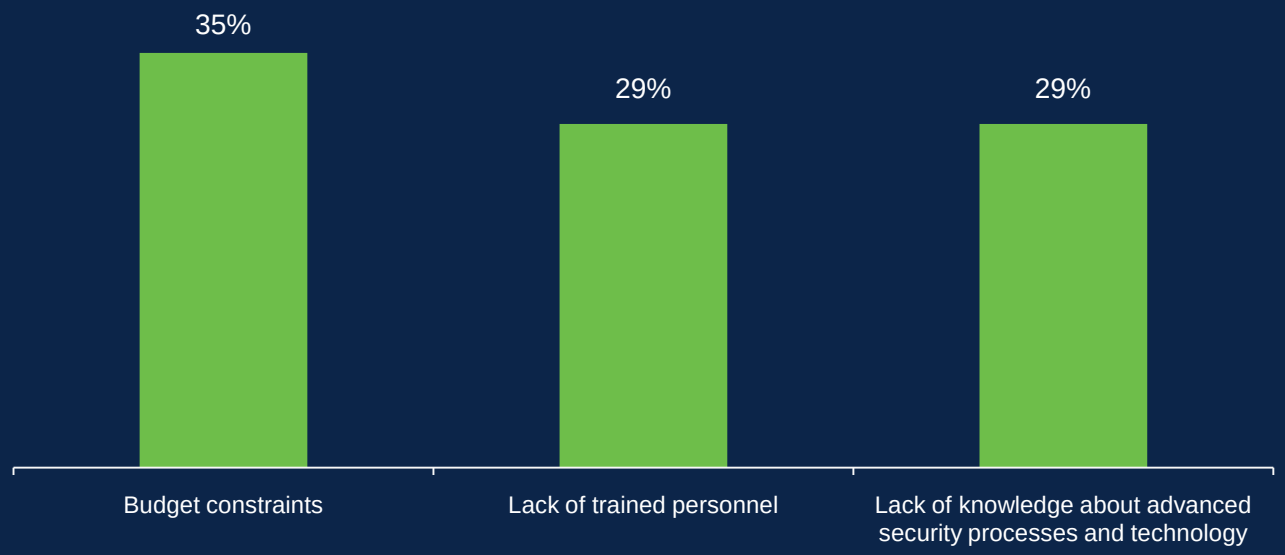


>50 vendors

Companies in Asia Pacific are finding it more challenging to manage a multi-vendor environment.

Constraints are not helping the cause...

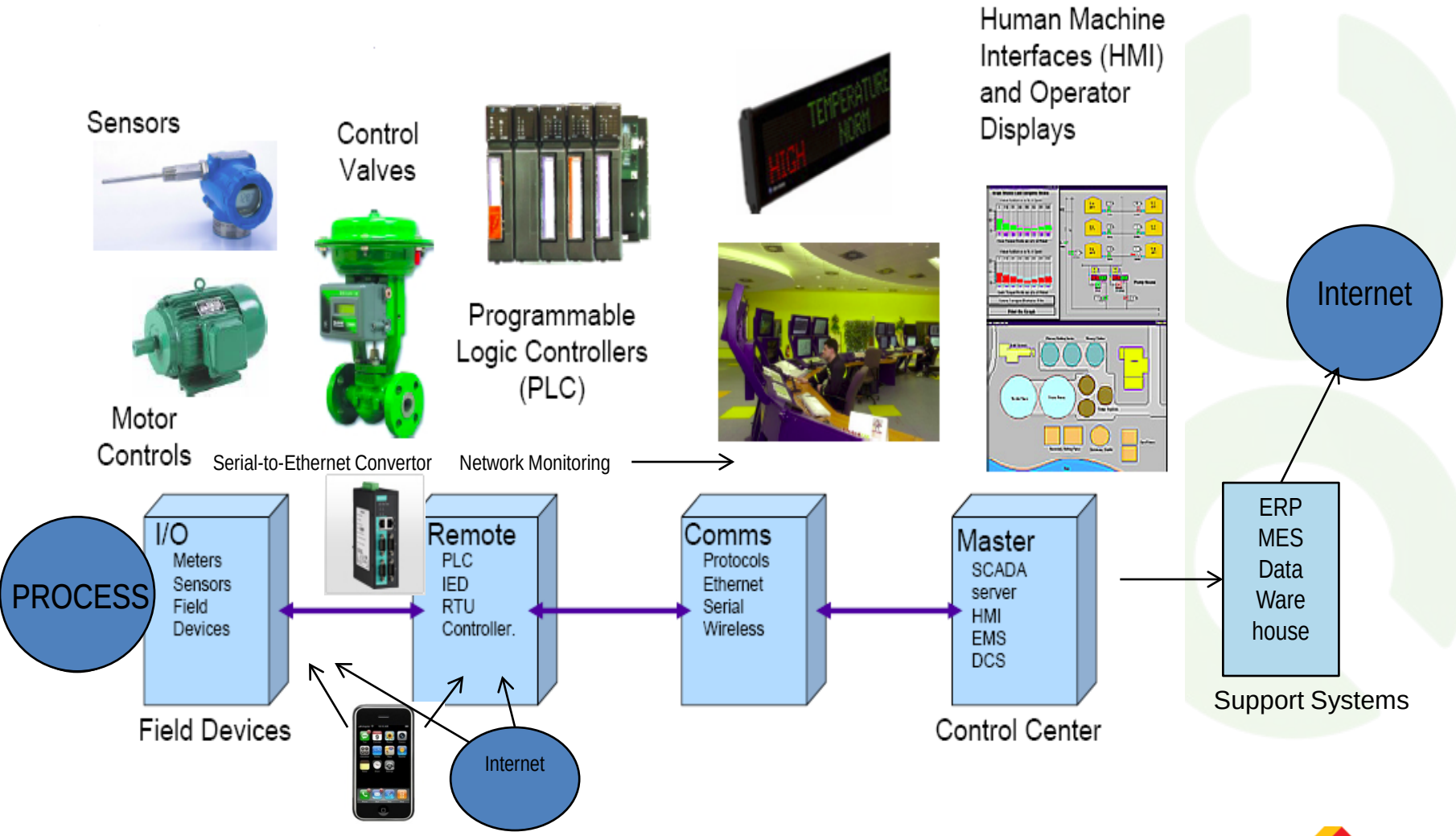
The top three barriers for adopting advanced security technologies in Asia Pacific



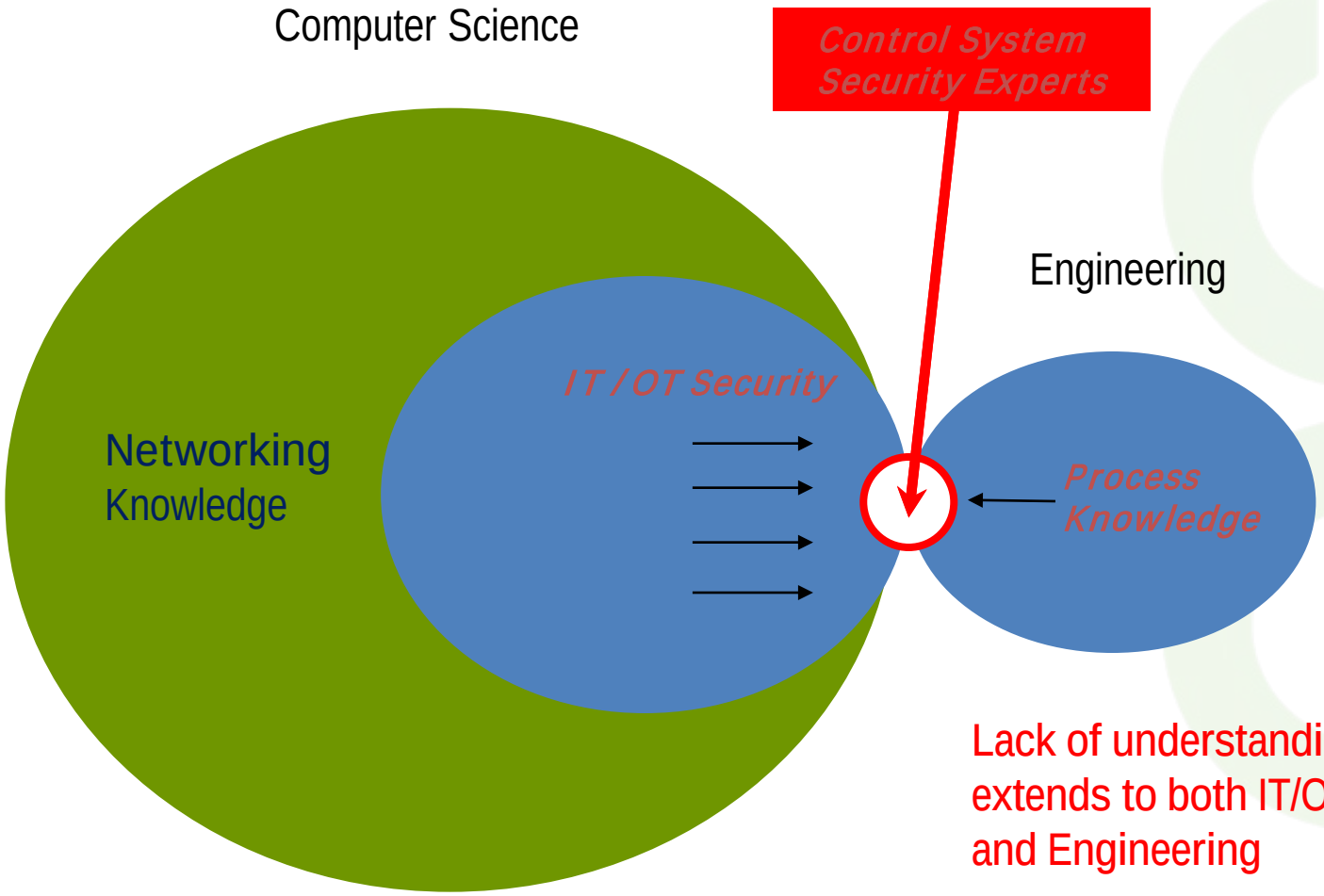
APAC Benchmark Study

http://cs.co/APACbenchmark

Control systems basics



IT/OT vs Engineering - Packets vs Process



Lack of understanding extends to both IT/OT and Engineering

Koh Suat Hong's Key Messages - Seven Principles of DPbD

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- **Proactive and Preventive -** Assess, identify, manage and prevent any data protection risks before any data breach occurs
- **Data Protection as the Default -** Integrate data protection measures into processes and features of the systems
- **End-to-End Security -** Security measures to be built into in the entire Software Development Lifecycle ("SDLC")
- **Data Minimisation -** Collect, store and use personal data that is relevant and necessary for the intended purpose
- **User-Centric -** Develop and implement ICT systems with individuals in mind while protecting their personal data
- **Transparency -** Take an active role in informing individuals on what data is collected from them and how it is being used
- **Risk Management -** Systematically identify and mitigate risks through design and implementation

John Yong's Key Messages

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1. Chief security and Chief audit must be Board ready

2. Accountability on cyber security responsibility need to be clearly defined, and sufficient allocation of time/budget need to be consider, in one of the senior management staff member.

3. Cyber definition, may need to be redefined. This is to include risks such as privacy, mis-information, physical, ICS and ICT

Lim Thian Chin's Key Messages

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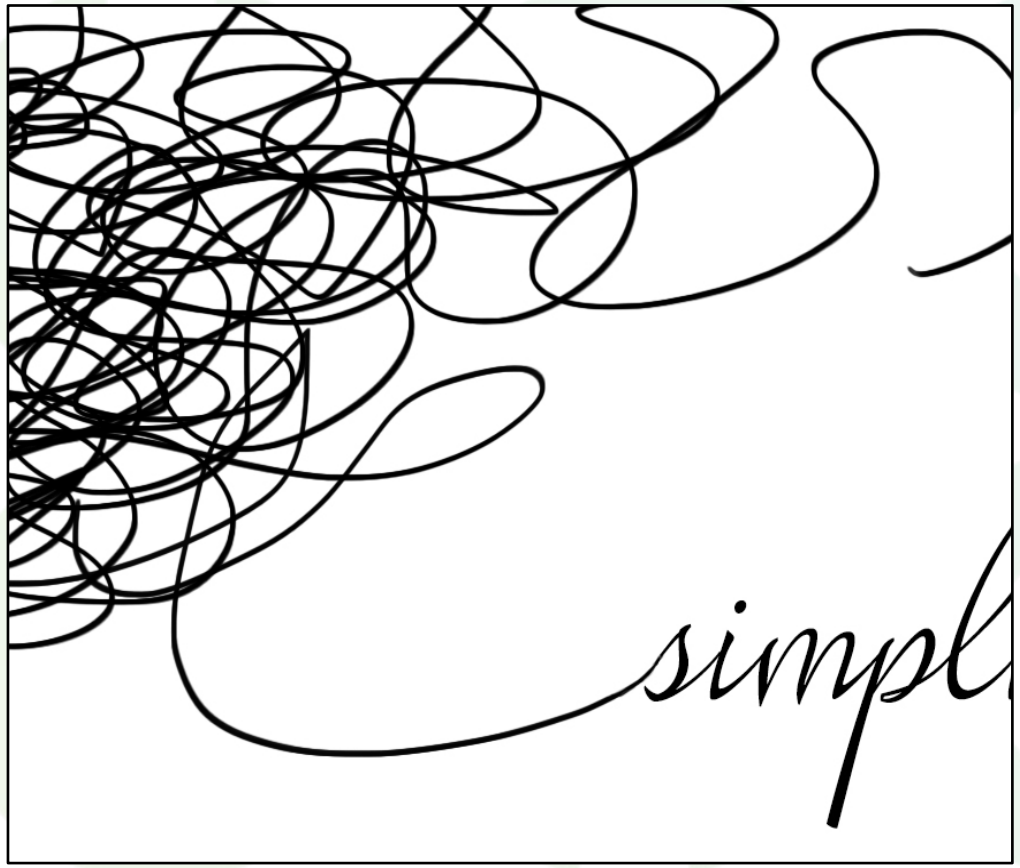
- Immediate
  - Knock down hot spots
  - Mop up operations
  - Consolidate security gains

- Under new norms
  - Secured workforce
  - Secured stakeholders/customers
  - Re-look at supply chain / 3P risk
  - Increased sectoral collaboration



Joshua McCloud's Key Messages

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- Drive security discussion at board level to better fund initiatives
- Move towards adopting a zero trust architecture to reduce attack surface
- Workforce, Workload, Workplace
- Reduce fatigue levels by investing in automation and orchestration
- Build a cyber resilience plan to reduce downtime
- Identify critical components, Assign roles & responsibilities
- Increase security awareness amongst employees
- Attack simulations, simplified & engaging training

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