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Connect | Educate | Inspire | Secure

Quo Vadis, CyberSecurity ?

Dr. John ILIADIS
CISSP, rest of alphabet soup omitted

President, (ISC)^2 Hellenic Chapter
&
IT Infrastructure Manager, TEIRESIAS S.A.

(ISC)^2 = International Information Systems Security Certification Consortium, established in 1989

Non-profit consortium of information security industry leaders

Supports security professionals throughout their careers

Global Standard for information security: (ISC)^2 CBK®

Over 300,000 members, associates, candidates; over 170 countries

300 members in Greece, established in 2015

Ahoy Captain, Challenges ahead!

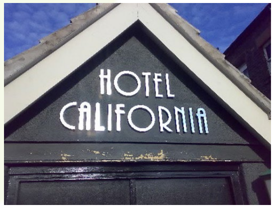
May you live in interesting times*

*Chinese curse

Big Challenges (some of them...)

1. People

2. Processes
   - Risk; not just a fun board game anymore

3. Technology
   - Cloud: Welcome to 

Challenge #1

People

People, Part 1/3

- Attack surface ↑ - meanwhile:
  - We became more vulnerable to social engineering
  - 82% of breaches took advantage of the human factor

- Humans: the chain link that will become stronger

People, Part 2/3

- Workforce gap of 3.4 million CyberSecurity professionals

- (ISC)^2 migration pathway: CC - Certified in CyberSecurity.
  free until Sep. 2023 or until coupon stock runs out

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People, Part 3/3

- More professionals; is it better?
  - Not quite; we need more diversity!
  - Diverse groups mitigate groupthink, but...
  - ...have less confidence wrt their decisions achieving the objective

- Managers beware!
  - Consider reduced confidence levels of diverse groups
  - Discuss ways to harness diverse groups' benefits

Challenge #2

Risk

Risk, the issues

- "Creative" Risk Management; common practice?
  - Unclear ways to estimate asset value, impact
  - Deliberate underestimation

- Case Study: Cyber Risks in Canadian Banking Sector
  - "Known unknowns"; caution in relying on past data to predict future
  - Requires shift to resilience-centricity, continuous adaptation

Risk: regulating it

- "...security risk assessments of specific critical ICT ...supply chains“ (NIS 2)
- ICT Third-Party Risk Management, DORA
- Guidance on Third-Party Relationships, US Federal Reserve System
- Outsourcing and third-party risk management, Bank of England

Risk: directing it

- Cyber-aware decision makers at the top
  - Call for Cyber-aware BoD members: Consulting companies and the SEC!
  - — Minister for Cyber Security! (Australia)

- Is Cyber Resilience integrated into enterprise risk* ?
  - — Business executives: 92%
  - — InfoSec-focused leaders: 55%
  - — **Global Cybersecurity Outlook, World Economic Forum 2022*

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Risk: harmonising it

- Interoperable Risk Management Framework (ENISA)
  - Unified risk assessment scale; results' comparison
  - Baseline security controls
  - Guidelines for evaluating and comparing risk appetites
- Using BIA to guide Risk Prioritisation/Response (NIST)
  - Identify assets enabling mission objectives
  - Leaders deciding on risk appetite/tolerance
  - System owners applying BIA to develop asset protection requirements
  - BIA becoming an input to Enterprise Risk Management

Challenge #3

Cloud

Cloud: who consumes whom?

Businesses consume a lot of Cloud

Cloud spending surpasses on-premise since 2020

or

Cloud consumes a lot of businesses?

Predictable OpEx costs?

Cloud impact on profit margins?

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Biggest threat in Cloud

62%
Misconfiguration of the cloud platform/wrong setup

54%
Insecure interfaces/APIs

51%
Exfiltration of sensitive data

50%
Unauthorized access

44%
Hijacking of accounts, services, or traffic

39%
External sharing of data

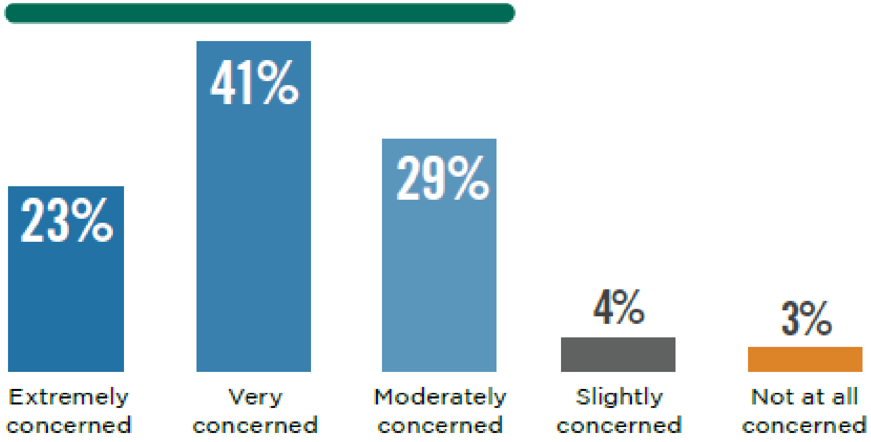
37%
Foreign state-sponsored cyber attacks

Source: Cloud Security Report 2022, (ISC)^2

Cloud's missing ingredient

93%

of organizations are moderately to extremely concerned about the shortage of qualified cybersecurity professionals



Source: Cloud Security Report 2022, $(ISC)^2$

Where to?

- Many emerging cyber battlefields
  - supply chain, ransomware, cloud, regulations, professionals' gap, etc...
- Starting point? Security Culture; the road to maturity...
  - Culture eats strategy for breakfast
  - Security awareness on all levels
  - Security pros: hone communication skills, adapt per audience
- Security maturity; where does it lead?
  - 66% of C-suite view cybersecurity as a revenue-enabler
  - Only 34% of C-suite view cybersecurity as a cost-center

Thank you !

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