

Balancing opportunity and risk



The opportunities

The risks

\$4.2 trillion

estimated value of the internet economy in G20 economies by 2016

13.5% to 23%

projected rise in consumer purchases via the internet from 2010-2016

94% of businesses with 10+ employees are online



4.1% of GDP contributed by internet

936 exabytes

growth in global internet traffic from 2005-2015

\$445 billion

cost of cyber-crime to the global economy per year

44%

increase in cyber incidents - 1.4 per organization per week



95%

of cyber attacks succeed because of the unwitting actions of a member of staff

\$145

average cost paid for each lost or stolen file containing sensitive or confidential information

Common statements



"Why would anyone want to attack our organization?"

"We do not know what our most critical information assets are in our organization."

"We have our networks well protected by good technology"

"Our current information security training is ineffective in driving new behaviour across organization."

"We know we have already been attacked but do not know how best to respond and recover effectively."

"We do not know what good cyber resilience looks like for our organization"

What are the strategic challenges?





CONSEQUENCES: reputation, cost and competitive advantage

Known needs



We need to develop a coherent cyber resilience strategy

We need to know what our critical information assets are

We need a cyber smart workforce and partner network

We need to embed good practices across our organization

We need to communicate and understand more effectively across the organization

We need to understand how we will respond and recover from attack more effectively



Cyber Resilience is the ability for an organization to resist, respond and recover from attacks that will impact the information they require to do business.

...many are struggling to answer...





...what does good look like?

RESILIA™: the underpinning themes





KEEPING THE VALUE OF YOUR BUSINESS, IN YOUR BUSINESS



So what does good cyber resilience look like for my organisation?



Each one of us has a vital role to play in effective cyber resilience - from the boardroom down.



No-one is safe. It's now as much about how you 'respond and recover' to attack



Cyber Resilience Portfolio





Target markets and audiences





Key target sectors:

- <u>Critical infrastructure</u>: Energy, Financial services,
 Health, Utilities, IT/Telecoms, Federal government
- Other: Retail, NGOs, Manufacturing/Hi-Tech, Construction, Education, Professional Services

Target buyers/influencers:

- VP/Head of ITSM
- VP/Head of HR or Learning & Development
- VP/Head of IT, Security or CISO
- VP/Head of Risk and/or Compliance

We want to target:

 Large and medium sized organizations - commercial and federal

Cyber Resilience Best Practice Guide





"Practical information for IT and business staff to better understand the risks and benefits of Cyber Resilience with practical guidance on assessing, deploying and efficiently managing good Cyber Resilience within business operations."

The principles

Applicable to all organizations across commercial and public/federal sectors

Alignment with common approaches and standards

Focus on improving organization resilience

Background of complex multi-party and multi-system transactions define the cyber landscape

The structure

Lifecycle structure for cyber follows ITIL

Scope covers entire organization

Guidance covering people, process and technology

Concepts and guidance

The detail

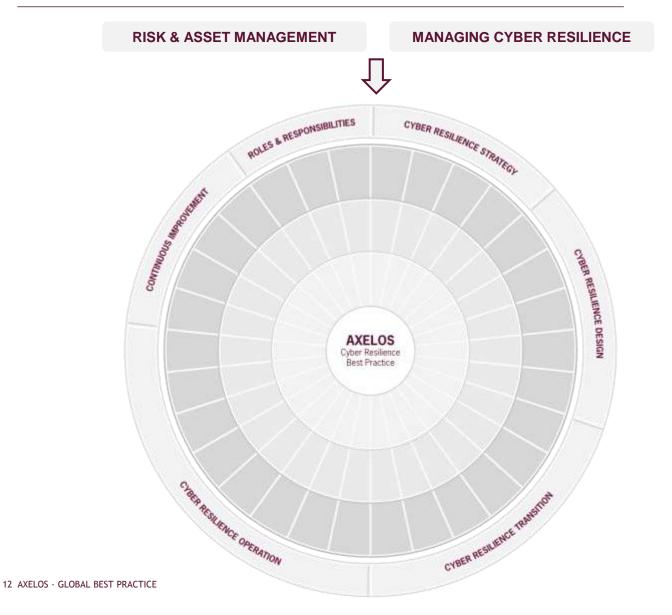
Aimed at those responsible for IT, security, risk and resilience

Extensive practical management guidance

Framework for assessing the right

Cyber Resilience lifecycle





Targeted learning across organization



InfoSec & Risk

Security Ops Info Assurance Risk Management

IT & SM

Service Operations IT Dev (& DevOps) Architects Business Analysis Project Management

Business

Finance & HR Sales & Marketing Customer service Operations

Exec

CxO
Business strategy
Department
Heads

Leader engagement

→ Business value of good Cyber Resilience

Cyber Awareness Learning

→ Understand Cyber Risks to organization and personal responsibility

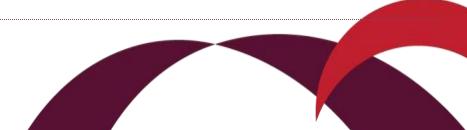
Cyber Resilience Foundation

→ Knowledge of Risk and Vulnerability plus efficient selection and Management of Controls to address

Cyber Resilience Practitioner

→ Structured implementation and operation of Best Practice

Certification path



Cyber Resilience Certification Training QAXELOS



Course structure

Target audience

Learning outcomes

Cyber Resilience **Foundation**

day classroom course

hours of distance learning, optional simulation to start course, Foundation certification multiple choice exam

IT and Service Management, Information Security & Risk, Business Heads, Managers and Leads

Basic understanding of general cyber security

Good understanding of IT and business goals

How decisions impact good/bad Cyber Resilience

> Comprehensive approach across all areas

How to make good Cyber Resilience an efficient part of business and operational management

Cvber Resilience **Practitioner**

day classroom course or

hours of distance learning, optional simulation to start course, Practitioner certification multiple choice exam, bundled with Foundation as a 5 day course

Similar to Foundation but skewed to more experienced roles

Complete IT team

Good understanding of cyber security

Good understanding of IT

What effective Cyber Resilience looks like

Pitfalls, risk and issues that can easily hit Cyber Resilience

Getting the best balance of risk, cost, benefits and flexibility within an organization

Why do security awareness programs typically fail?





Reliance on checking the box



Failure to acknowledge that awareness is a unique discipline



Lack of engaging and appropriate materials



Metrics are not collected



Unreasonable expectations



Reliance on a single training exercise

When does awareness learning 'stick'? QAXELOS



"Tell me and I forget, Teach me and I remember, Involve me and I learn."

Benjamin Franklin

"Everybody can learn, just not on the same day or in the same way"

George Evans



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Our Awareness learning principles



Principle

Summary and benefits

On-going, regular learning

- Regular learning
- Short and concise
- Supporting updates and refreshers

Adaptive & personalised

- Suit individual learning preferences
- Content tailored to different skill levels
- Focus on the priority security issues

Engaging, competitive and fun

- Different learning styles and formats
- Ability to learn inside and outside work
- Play to the competitive element of games

Measurable benefit

- Tracking changing behaviours over time
- Qualitative and quantitative metrics
- Demonstrate value of investment

Our Awareness learning



Learning areas

Learning formats

- Phishing
- Social engineering
- BYOD
- Password safety
- Personal information
- Information handling
- Remote and mobile working
- Online safety
- Social media
- Removable media

...role based and sector specific learning

- Gamification
- Animations
- Video
- eLearning
- Posters
- Refreshers/Reminders

...part of an ongoing campaign to influence and measure the impact of new behaviours

What is the Cyber Pathway Tool?



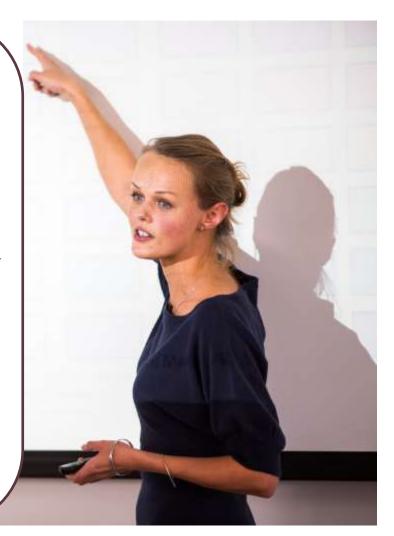


A quick, simple to use, web based tool for assessing, managing and reporting on your cyber resilience maturity against new AXELOS Cyber Resilience Best Practice

What are the benefits?



- Determine your current Cyber Resilience Maturity.
- 2. Monitor and manage your capabilities over time.
- 3. Identify your priority capability and investment roadmap for more robust Cyber Resilience for your organisation.
- Report maturity, priorities and business outcomes to management & the Boardroom.



Evangelists and early adopters!





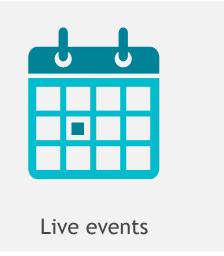


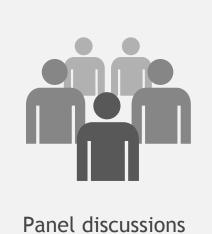


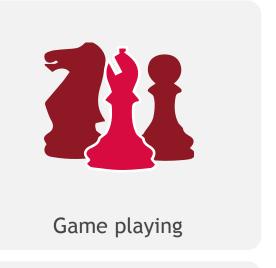


Launch









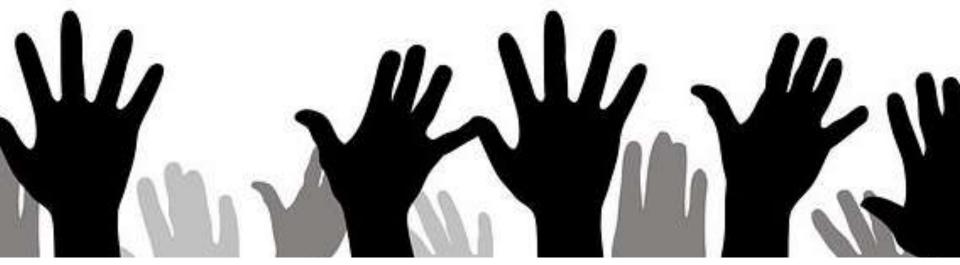






Questions and observations?





Nick Wilding

Head of Cyber Resilience, AXELOS

E: nick.wilding@axelos.com T: (44) 7860 950108

Dan Cole

Cyber Resilience Product Lead, AXELOS

E: <u>dan.cole@axelos.com</u> T: (44) 7725 652839