

# CYBER RESILIENCE: THERE'S NO TIME TO WASTE

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# Balancing opportunity and risk

## The opportunities

**\$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

## The risks

**\$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

# The risks are real



# ...why is Cyber Resilience important?



Material impacts



Risk and responsibility



Situational awareness



We all have a role to play

# Common statements

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“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?



Our people are our strongest asset but...



No-one is safe



Threats are constantly adapting and more targeted



Mind the language gap



Compliance does not = security

**CONSEQUENCES:** reputation, cost and competitive advantage

# Known needs

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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 threats that will impact the information they require to do business.*



...many are struggling to answer...

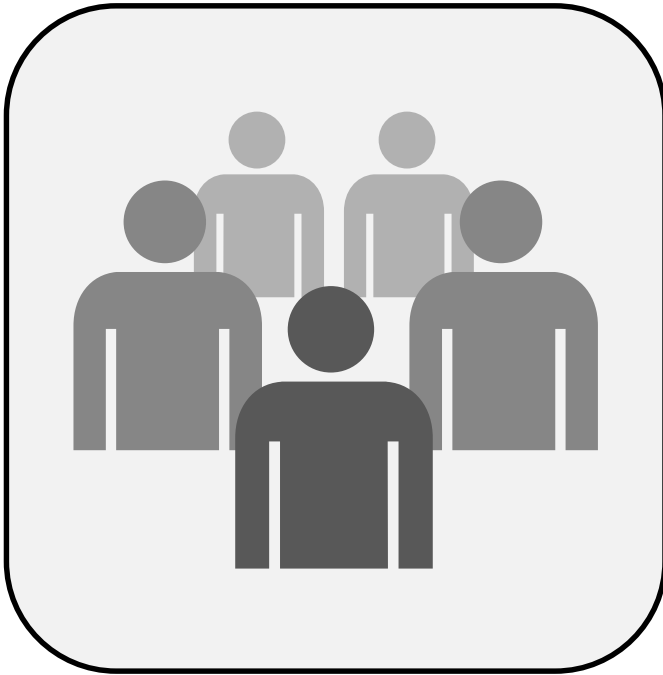


...what does good look like?

# Cyber Resilience Portfolio



# Target markets and audiences



## Key target sectors:

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

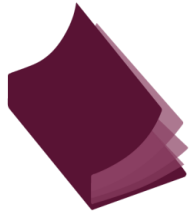
## Target buyers/influencers:

- 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

# Targeted learning across organization

## InfoSec & Risk

Security Ops  
Info Assurance  
Risk Management

## IT & SM

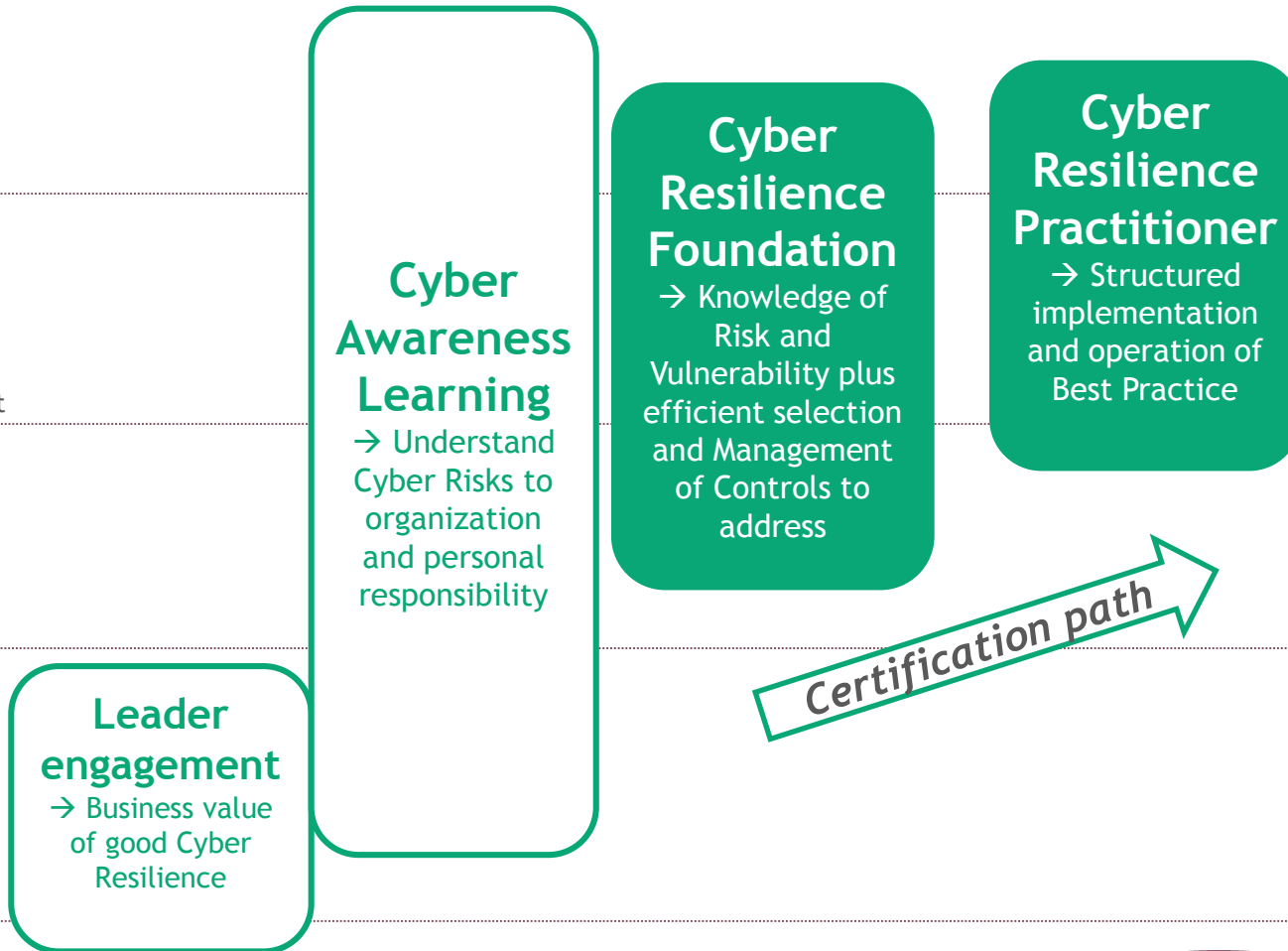
Service Operations  
IT Dev (& DevOps)  
Architects  
Bus analysis  
Project Management

## Business

Finance & HR  
Sales &  
Marketing  
Customer service  
Operations

## Exec

CxO  
Business strategy  
Department  
Heads



# Cyber Resilience Certification Training

Cyber Resilience Foundation

Cyber Resilience Practitioner

	Course structure	Target audience	Learning outcomes
Cyber Resilience Foundation	<p><b>3</b> day classroom course or</p> <p><b>20</b> hours of distance learning, optional simulation to start course, Foundation certification multiple choice exam</p>	<p>Complete IT team</p> <p>Basic understanding of general cyber security</p> <p>Good understanding of IT and business goals</p>	<p>How decisions impact good/bad Cyber Resilience</p> <p>Comprehensive approach across all areas</p> <p>How to make good Cyber Resilience an efficient part of business and operational management</p>
Cyber Resilience Practitioner	<p><b>2</b> day classroom course or</p> <p><b>15</b> hours of distance learning, optional simulation to start course, Practitioner certification multiple choice exam, bundled with Foundation as a 5 day course</p>	<p>Similar to Foundation but skewed to more experienced roles</p> <p>Complete IT team</p> <p>Good understanding of cyber security</p> <p>Good understanding of IT</p>	<p>What effective Cyber Resilience looks like</p> <p>Pitfalls, risk and issues that can easily hit Cyber Resilience</p> <p>Getting the best balance of risk, cost, benefits and flexibility within an organization</p>

# Why do security awareness programmes typically fail?



Reliance on checking the box



Failure to acknowledge that awareness is a unique discipline



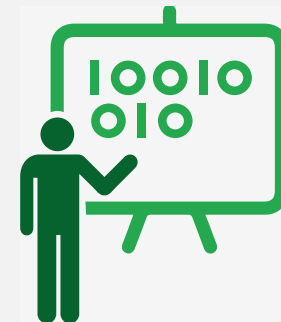
Lack of engaging and appropriate materials



Metrics are not collected



Unreasonable expectations



Reliance on a single training exercise

# When does awareness learning ‘stick’?

“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





# 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

## Learning areas

- 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

## Learning formats

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

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

# Evangelists and early adopters!

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Test



Learn



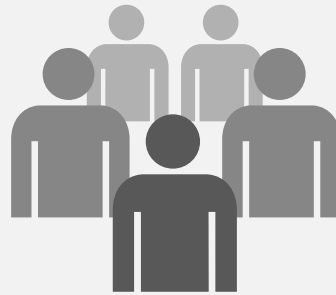
Adapt

# June launch

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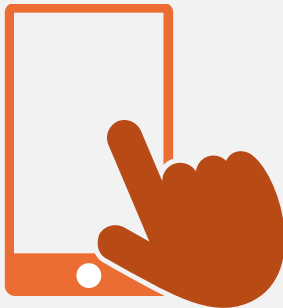
Live events



Panel discussions



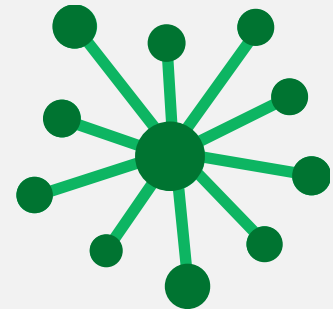
Game playing



Interaction



Innovation and creativity



Networking

# Questions and observations?

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