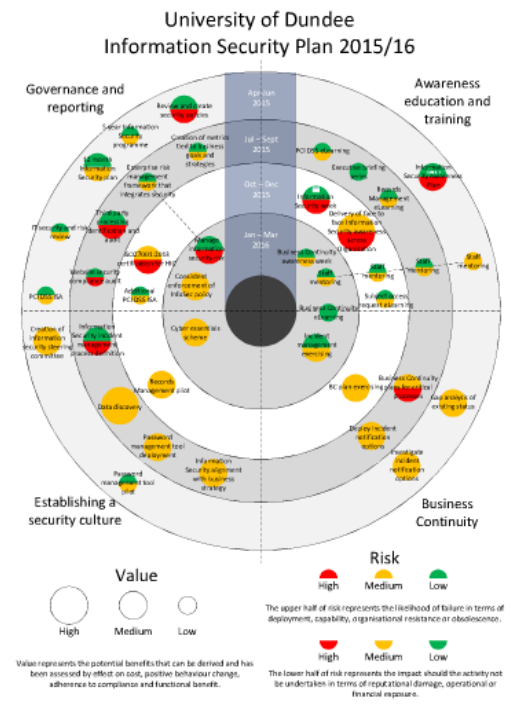


INFORMATION SECURITY ELEMENTS



**INFORMATION
SECURITY
ELEMENTS**



Strategic

Information
Security
Strategy



Information
Security
Framework



Management
Buy-in



Information Security Strategy

Document Owner	Graham McKay
Version	0.1
Information Classification	Confidential
Status	Draft
Date	18 th March 2015

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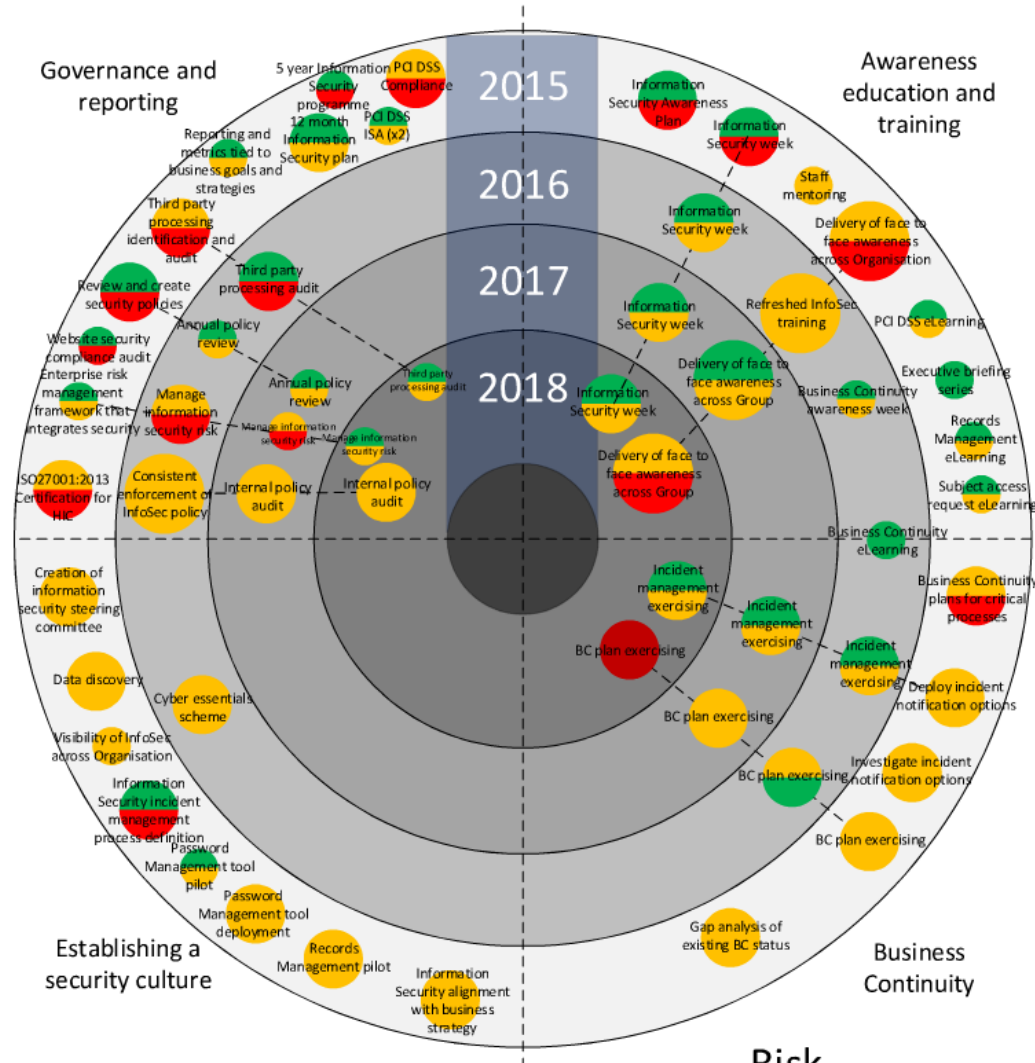
1 Executive summary

- 1.1.1 This document articulates the overall aim and objectives of the University of Dundee's information security strategy. The Strategy also describes the key actions that will be undertaken through a five year programme and a one year plan. The purpose of the information security strategy is to ensure the appropriate level of protection against loss of confidentiality, integrity, and availability of our information assets.
- 1.1.2 The aim is:
- To securely enable education and research whilst appropriately protecting information with due regard to regulation, legislation, governance and commercialisation.
- 1.1.3 The key elements of this strategy are:
- 1.1.4 Managing risk
- 1.1.4.1 The goal of the information security strategy is to support the organisation's business objectives while maintaining an appropriate level of security to align with the risk appetite of the organisation.
- 1.1.5 Policies, procedures and standards
- 1.1.5.1 Information security policies and procedures represent the foundation for the information security strategy and enable the Organisation to satisfy its legal, regulatory, contractual and ethical responsibilities with regard to the information it holds and processes.
- 1.1.5.2 Appropriate controls provide a safeguard to prevent misuse and exposure of our information assets whilst limiting accidental damage. When consistently applied across the Organisation, these policies and procedures provide information assurance, whilst protecting information assets and critical business processes from a range of threats in order to ensure business continuity.
- 1.1.6 Classification of information
- 1.1.6.1 A key aspect in enabling information security is recognising the impacts of loss of confidentiality, integrity or availability of information. Not all information is treated equally and therefore not all information requires the same degree of protection. By classifying information into one of the categories defined within the policy, appropriate controls can be applied to the information within each classification.
- 1.1.7 Staff and student education, training, awareness and communication
- 1.1.7.1 Communication and awareness are critical elements of the information security strategy. Appropriate communication combined with targeted, relevant awareness can serve as a favourable influence engendering positive behavioural change.
- 1.1.8 This strategy will be reviewed annually.

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University of Dundee Information Security Programme 2015-2018



Value

High Medium Low

Value represents the potential benefits that can be derived and has been assessed by effect on cost, positive behaviour change, adherence to compliance and functional benefit.

Risk

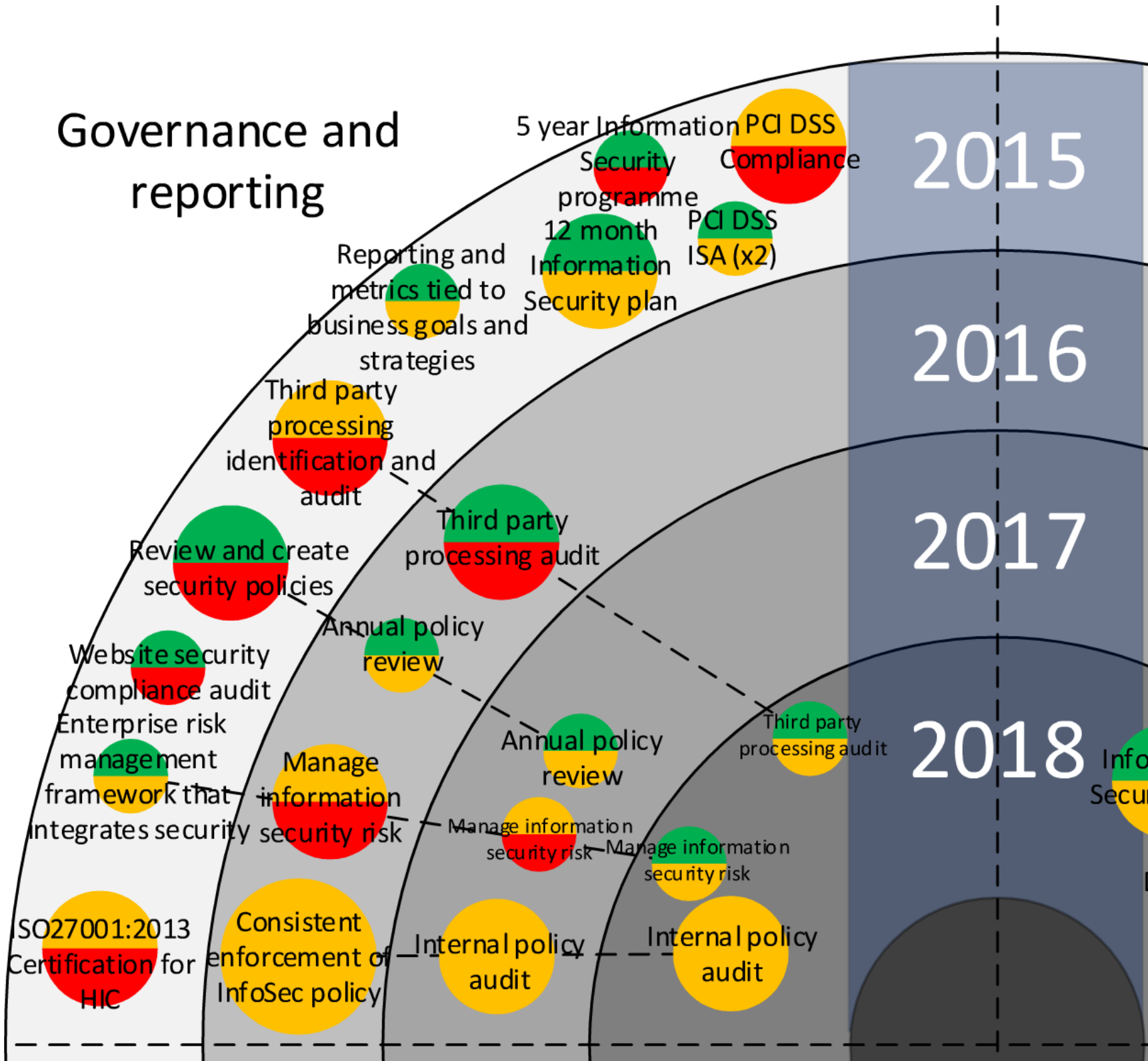
High Medium Low

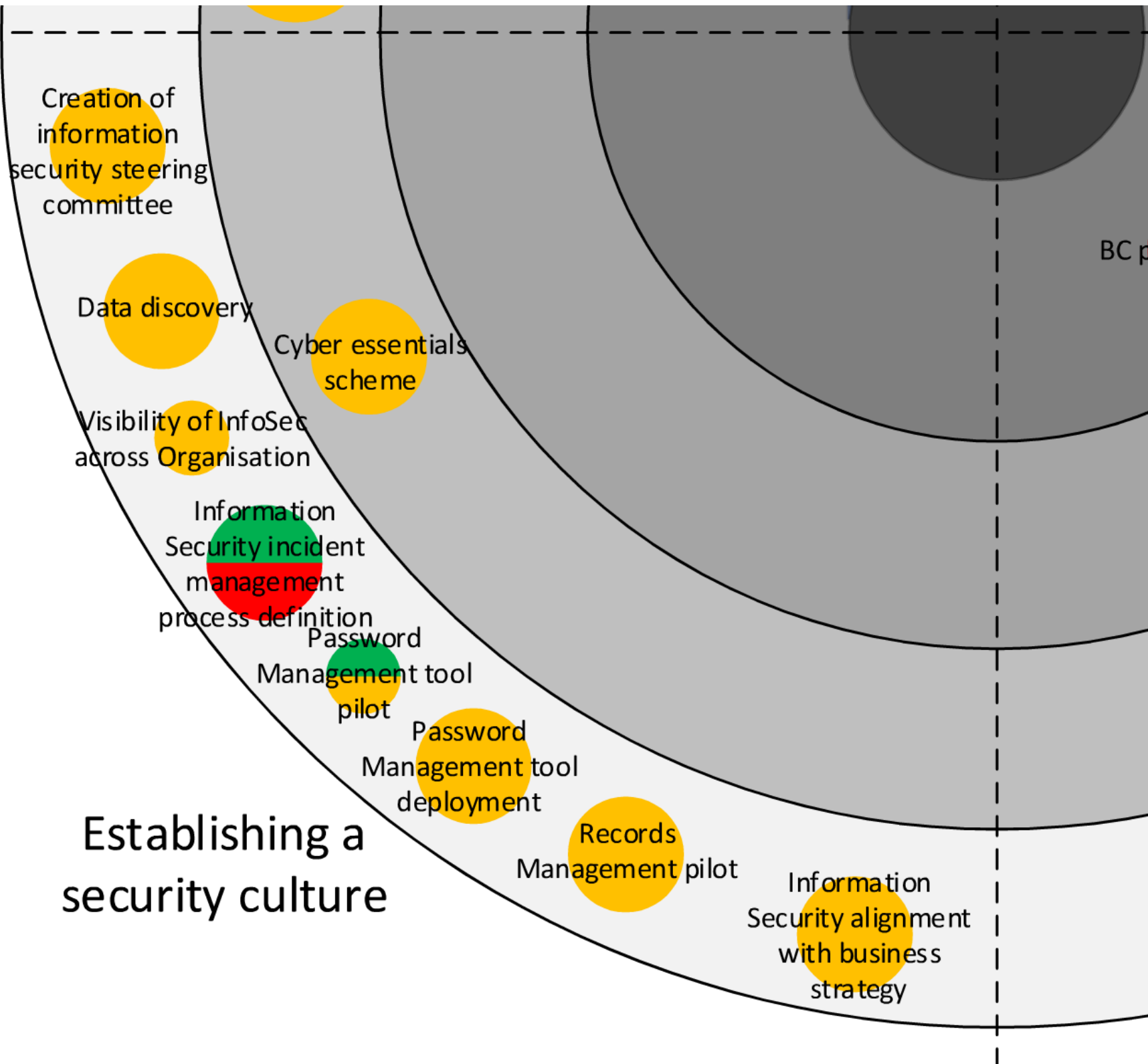
The upper half of risk represents the likelihood of failure in terms of deployment, capability, organisational resistance or obsolescence.

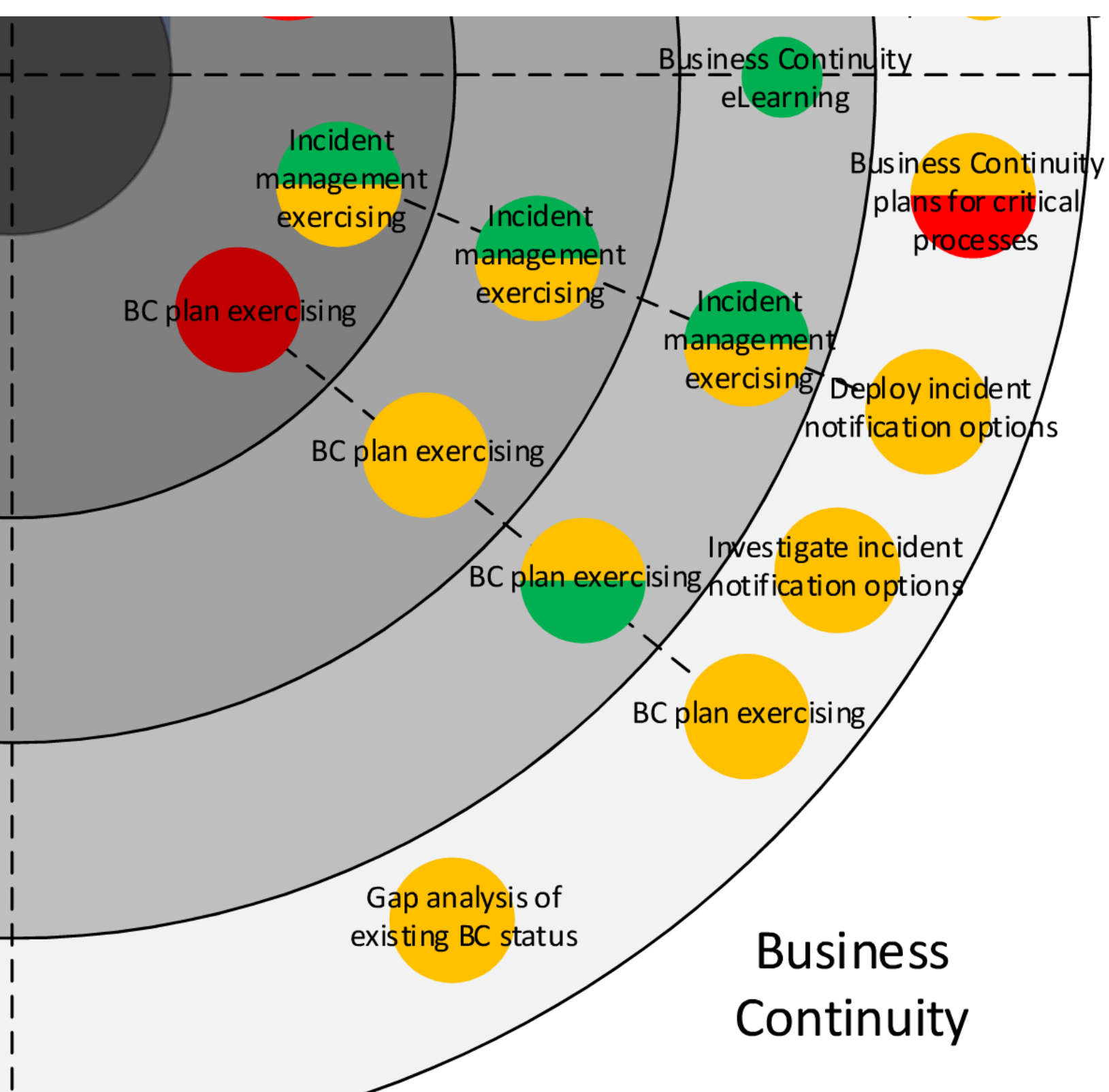
High Medium Low

The lower half of risk represents the impact should the activity not be undertaken in terms of reputational damage, operational or financial exposure.

Governance and reporting







2015

Information Security Awareness Plan

Information Security week

2016

Information Security week

Staff mentoring

Delivery of face to face awareness across Organisation

2017

Information Security week

Refreshed InfoSec training

PCI DSS eLearning

2018

Information Security week

Delivery of face to face awareness across Group

Business Continuity awareness week

Executive briefing series

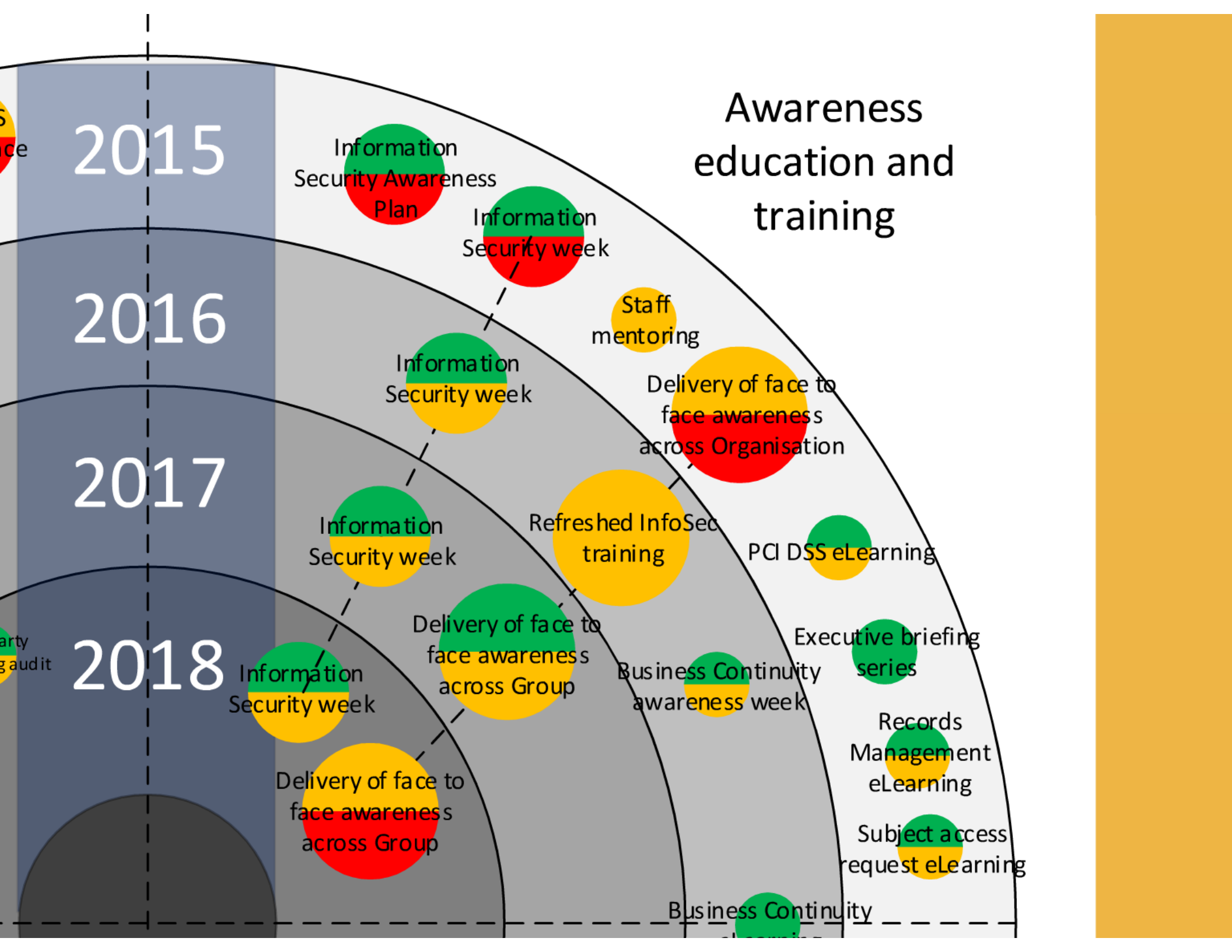
Delivery of face to face awareness across Group

Records Management eLearning

Subject access request eLearning

Business Continuity

Awareness education and training



Strategic

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Framework



Management
Buy-in

Framework



Policy

Audit & Compliance

Risk Management Framework

ISO 27005:2011
Establish context
Risk assessment
Risk treatment
Risk monitoring & review

Incident Management Framework

ISO 27035:2011
Plan and prepare
Detect and report
Assess
Respond
Improve

Awareness Education Training

Awareness methods
In person
Web based
Lunch and Learn
Posters
Emails
Website
Security Week

Timing
Annually - staff
Targeted - risk based
Induction - staff
Intake - students
Incidents - point of future



Policy

Audit & Compliance

Risk Management Framework

ISO 27005:2011
Establish context
Risk assessment
Risk treatment
Risk monitoring &
review

Incident Management Framework

ISO 27035:2011
Plan and prepare
Detect and report
Assess
Respond
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Awareness Education Training

Awareness methods

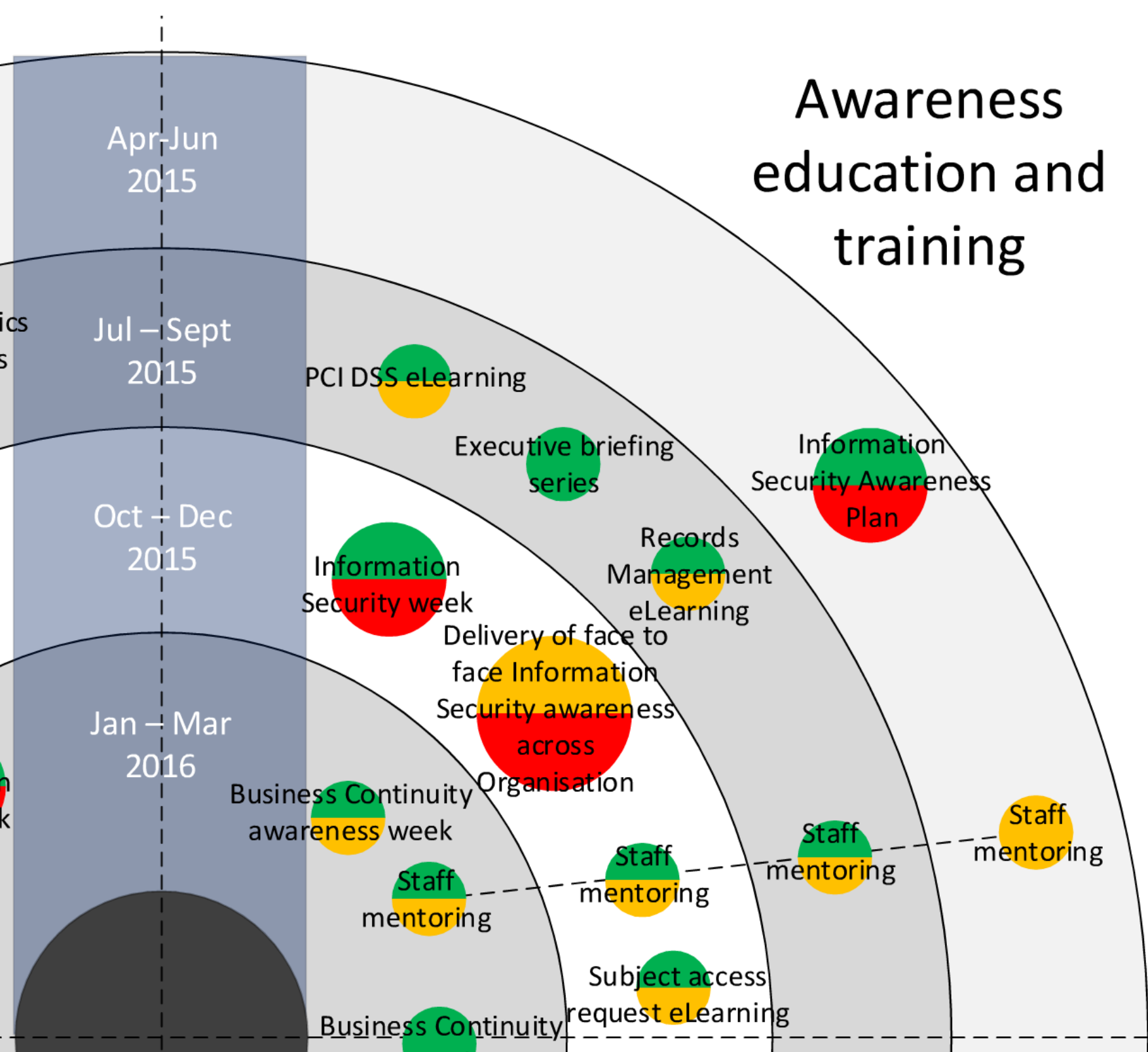
In person
Web based
Lunch and Learn
Posters
Emails
Website
Security Week

Timing

Annually - staff
Targeted - risk based
Induction - staff
Intake - students
Incidents - point of failure



Awareness education and training



Data
Discovery

Technical
Security
Controls

Physical
Security
Controls

Risk
Assessment

Monitoring &
Measurement

Business
Continuity

Information
Security
Controls

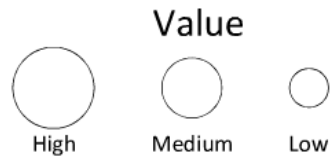
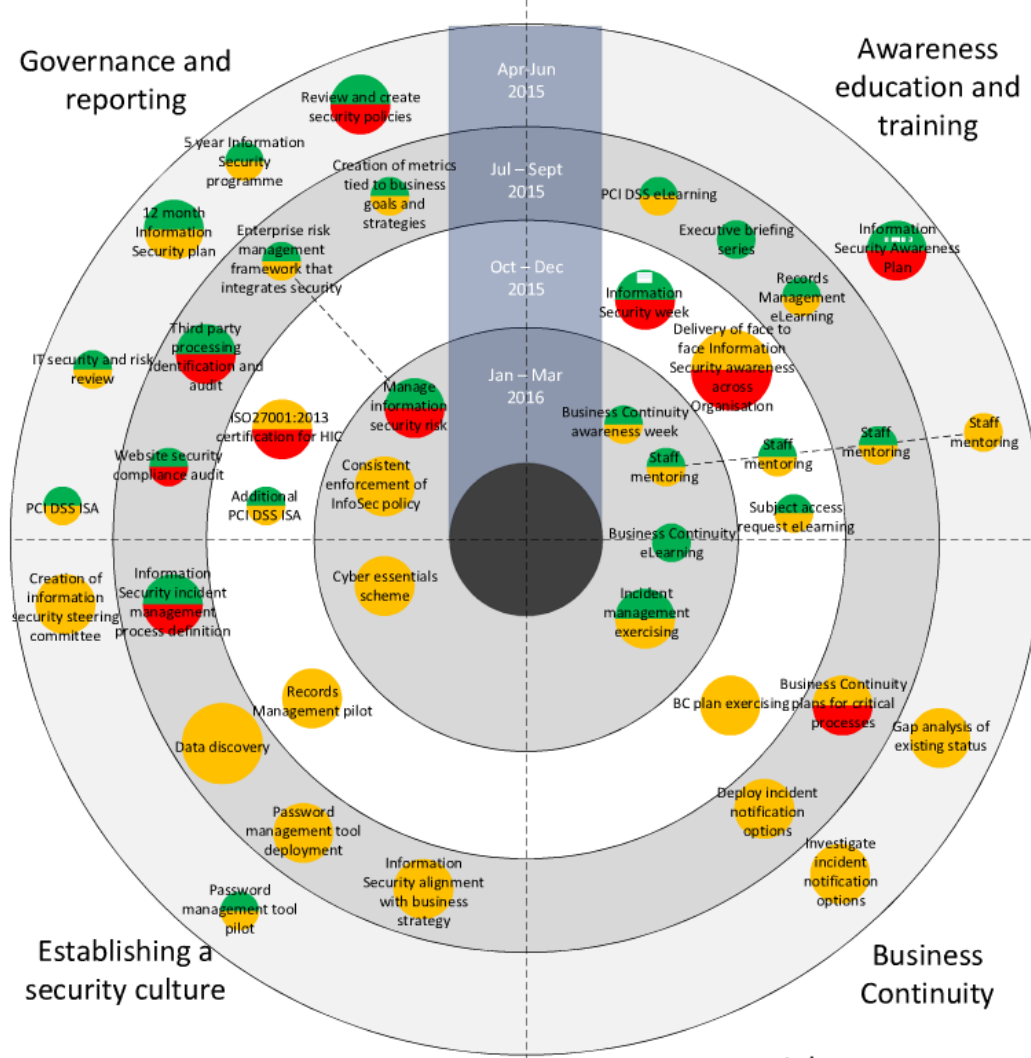


Data

Discovery



University of Dundee Information Security Plan 2015/16



Value represents the potential benefits that can be derived and has been assessed by effect on cost, positive behaviour change, adherence to compliance and functional benefit.

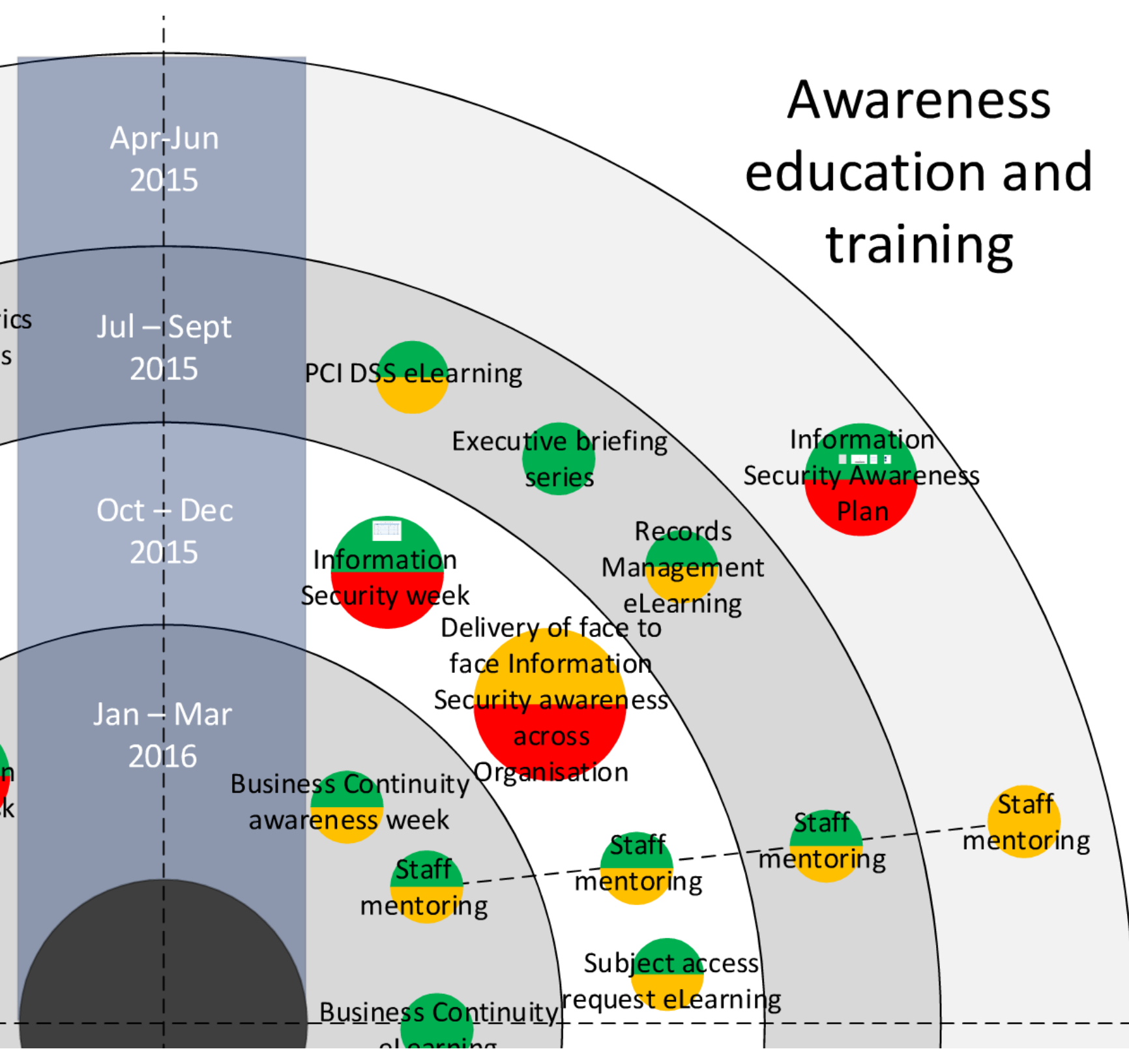


The upper half of risk represents the likelihood of failure in terms of deployment, capability, organisational resistance or obsolescence.



The lower half of risk represents the impact should the activity not be undertaken in terms of reputational damage, operational or financial exposure.

Awareness education and training



Information

Security Awareness

Plan



ent

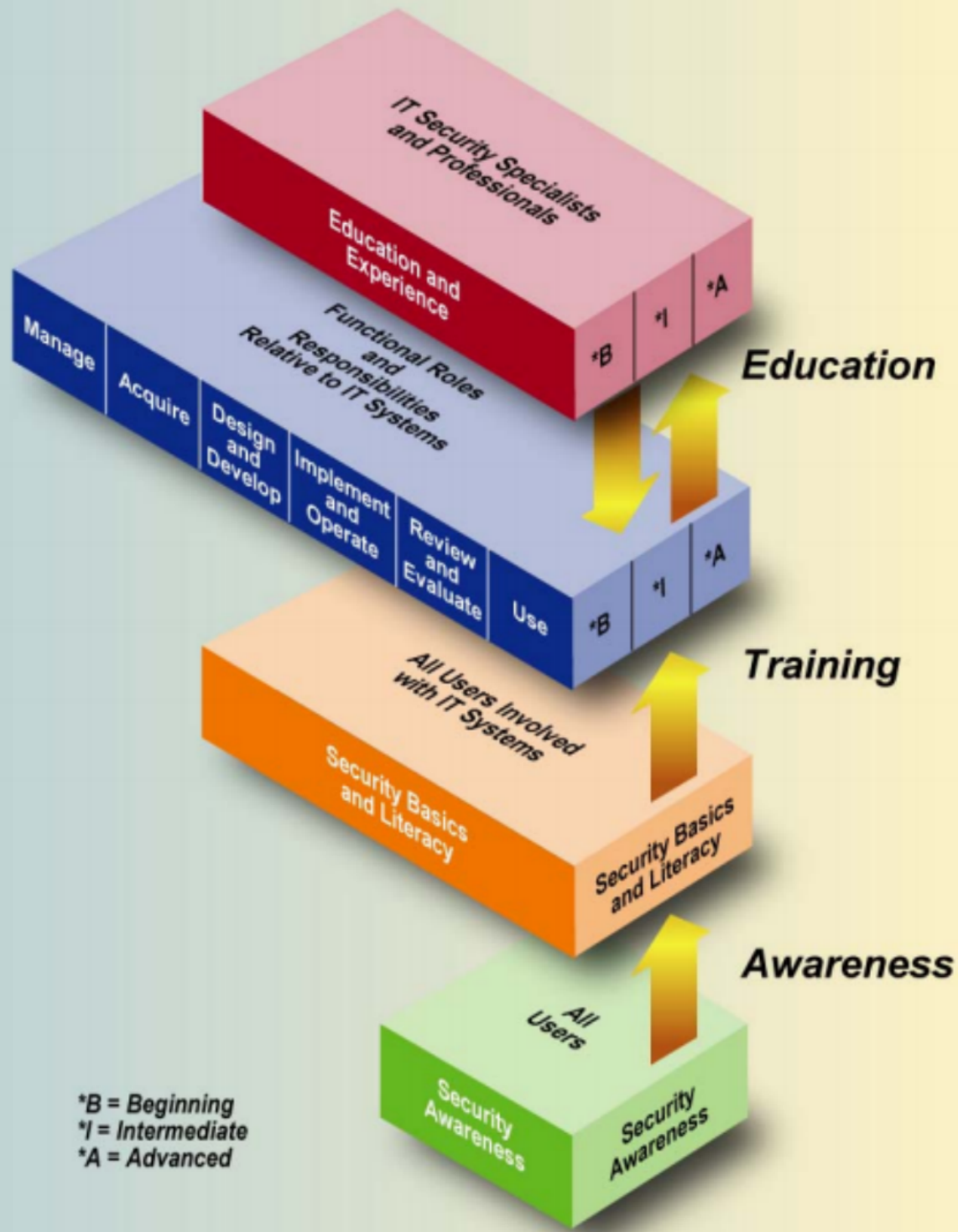
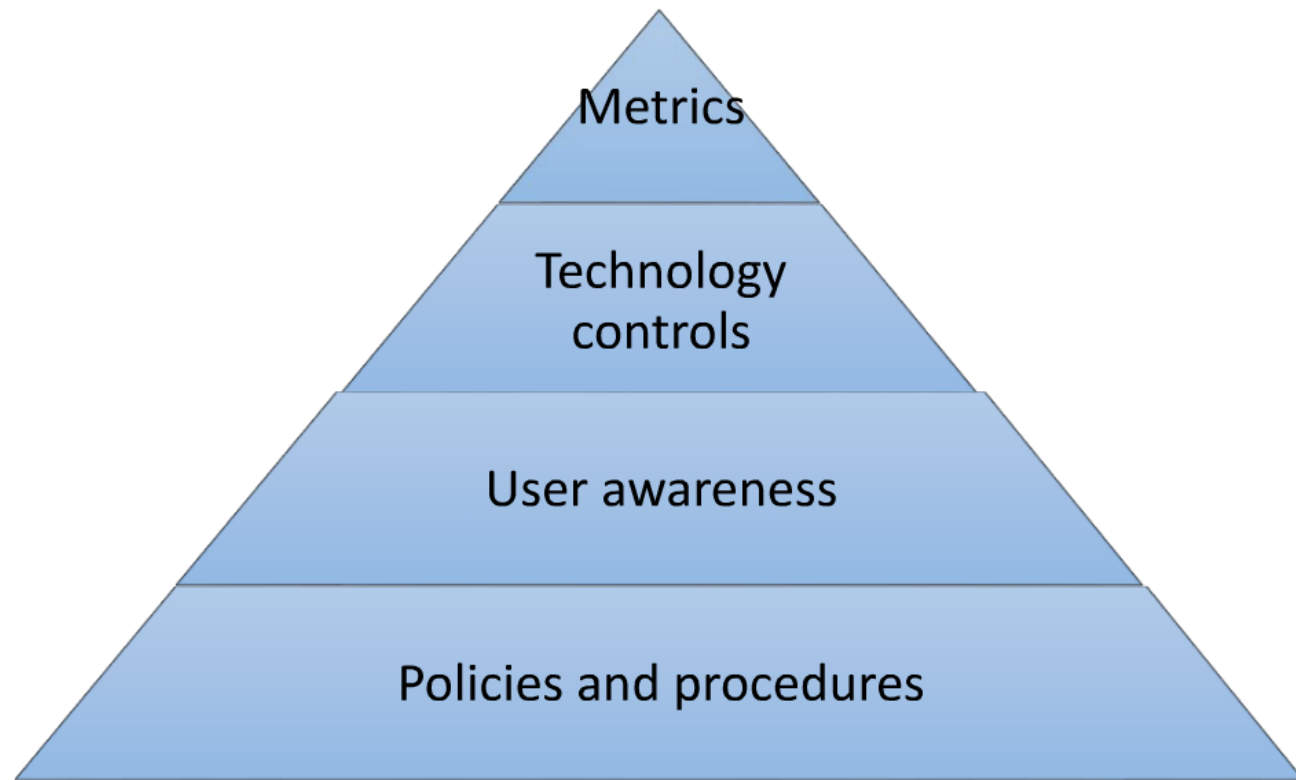


Figure 1 - Elements of a mature information security programme



Target group / Information Security Module	Core information security	Computer Misuse Act	Data Protection Act inc Subject Access Requests	Digital evidence gathering	Direct Marketing	Executive briefings	FOISA	Phishing	PCI DSS	Records Management	Secure software development	Social Engineering	Social Media
Support staff	✓							✓				✓	
Academic staff	✓							✓				✓	
Staff dealing with payment card data	✓							✓	✓			✓	
Staff dealing with PII	✓	✓	✓		✓			✓				✓	
Social media contributors	✓							✓				✓	✓
HR staff	✓	✓	✓					✓		✓		✓	
Student Services staff	✓	✓	✓					✓		✓		✓	
Research staff (sensitive PII)	✓	✓	✓					✓		✓		✓	
Marketing and communications staff	✓				✓			✓				✓	
IT Administrators	✓	✓	✓					✓		✓		✓	
Application and web development teams	✓				✓			✓	✓		✓	✓	✓
Service Desk	✓	✓	✓					✓				✓	
Staff involved in undertaking investigations	✓	✓		✓								✓	✓
Executives	✓					✓		✓				✓	
Managers	✓	✓	✓			✓	✓	✓				✓	
Students	✓	✓						✓				✓	✓
Third parties	✓						✓	✓				✓	

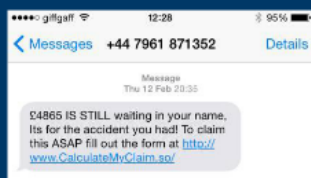
Nuisance calls and spam texts

RECENT NEWS

Nuisance calls and spam texts remain a continuing concern for consumers and a key area of action for the Information Commissioner's Office (ICO)

Top spam text topics:

- Accident Claims
- Gambling (lottery)
- Payday Loans
- Banking
- PPI



Spam texts usually come from an 11-digit mobile number and the company isn't identified.

98% of texts are opened compared to 25% of emails²

Contact Us

Information Security
Computing Centre
Park Place
Infosec@dundee.ac.uk
www.dundee.ac.uk/infosec

WHAT ARE SPAM TEXTS AND NUISANCE CALLS?

A spam text is a text message sent to a mobile phone marketing a particular product or service. It is against the law for anyone to send you marketing texts unless you have previously given them permission. It's also against the law for companies to call consumers who are registered with the Telephone Preference Service (TPS) without their clear consent.

How to spot spam messages

Firstly you need to determine whether the text message is from a legitimate organization or just spam. If the text identifies a company name as the sender it could be a genuine marketing message but if it looks like a private mobile number then it's more likely to be spam. You can always type the number into a search engine to identify if it's likely to be genuine or not.

Q: How can I stop receiving spam calls and spam texts?

A: You can register your home and mobile numbers for free with the TPS (www.tpsonline.org.uk)- this should reduce calls from companies, unless you have requested them to call or text you.

Don't send the word "STOP" back to spam texts as then they will know you have a valid mobile phone number and this information may be sold on to other unscrupulous operators leading to you receiving more unsolicited messages.

"All of the UK's mobile operators worked together to deploy a tool which collates all the information from the 7726 short code in real time." - Which

Q: Who can I complain to?

A: If you're receiving spam texts, you can forward these to your mobile operator's free spam reporting service by forwarding the text to 7726. For both nuisance calls and messages you can complain to the ICO by completing the details on their survey at <https://ico.org.uk/for-the-public/texts/>

Q: I have had fraud carried out on my account, where do I go?

A: If spam calls and texts have resulted in any fraudulent activity you can report this to Action Fraud at www.actionfraud.police.uk or 0330 123 2040.

Malicious, abusive or threatening calls, whether from people you know or from strangers, are a criminal offence and should be reported to the Police.

¹ ICO, <https://ico.org.uk/action-weve-taken/nuisance-calls-and-messages/> 27th April 2015

² WhizMobi <http://www.slideshare.net/WhizMobi/10-mindblowing-mobile-marketing-stats-for-stronger-marketing-campaign> 27th April 2015

Information Security Week - University of Dundee - October 2015

Day	Date	Topic	Attendees	Format	Location
Friday	01/10/2015	Executive breakfast	University senior managers	Briefing	TBD
TBD		Welcome to Information Security week	Recorded by Principal	Video/Social media	TBD
TBD		Information asset identification	Information owners, custodian	Workshop	TBD
TBD		Privacy impact assessment	Systems developers, outsourcers	Workshop	TBD
TBD		Risk management of data	Information owners, custodian	Workshop	TBD
TBD		I know all about you - social media breadcrumbs	Staff and student	Demonstration	TBD
TBD		Keeping your kids safe online	Staff	Presentation	TBD
TBD		You can access your personal information anywhere	Staff and students	Webinar	TBD
TBD		Using social networking sites safely	Staff and students	Presentation	TBD
TBD		Privacy on your mobile device	Staff and students	Demonstration	TBD
TBD		Incident response exercise	Incident management team	Workshop	TBD
TBD		Protect your personal information (including signposts to other resources)	Staff and students	WBT	TBD
TBD		LastPass launch	Staff and students	Demonstration	TBD
TBD		LastPass drop-in clinic	Staff and students	Workshop	TBD
TBD		Phishing demo	Staff and students	Demonstration	TBD
TBD		Honeypot Wi-Fi network	Staff and students	Demonstration	TBD
TBD		Women in cyber security	Staff and students	Presentation	TBD
TBD		Hands on hacking	Staff and students	Demonstration	TBD
TBD		Two factor authentication	Staff and students	WBT	TBD
TBD		Focussed on Information Security – the plan for the long term	Staff	Presentation	TBD
TBD		Hard drive destruction	Staff and students	Service offering	TBD

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