

# **Security Risk Management Masterclass 28JAN20**

Julian Talbot



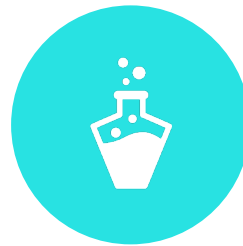
# Agenda

- 0830 Introductions & review agenda
- 0900 SRMBOK, ISO31000 updates
- 1030 Morning tea
- 1100 Security Risk Assessments
- 1300 Lunch
- 1400 Career, leadership, promotion, income
- 1600 General discussion
- 1630 Finish

# Introductions



Name



Experience

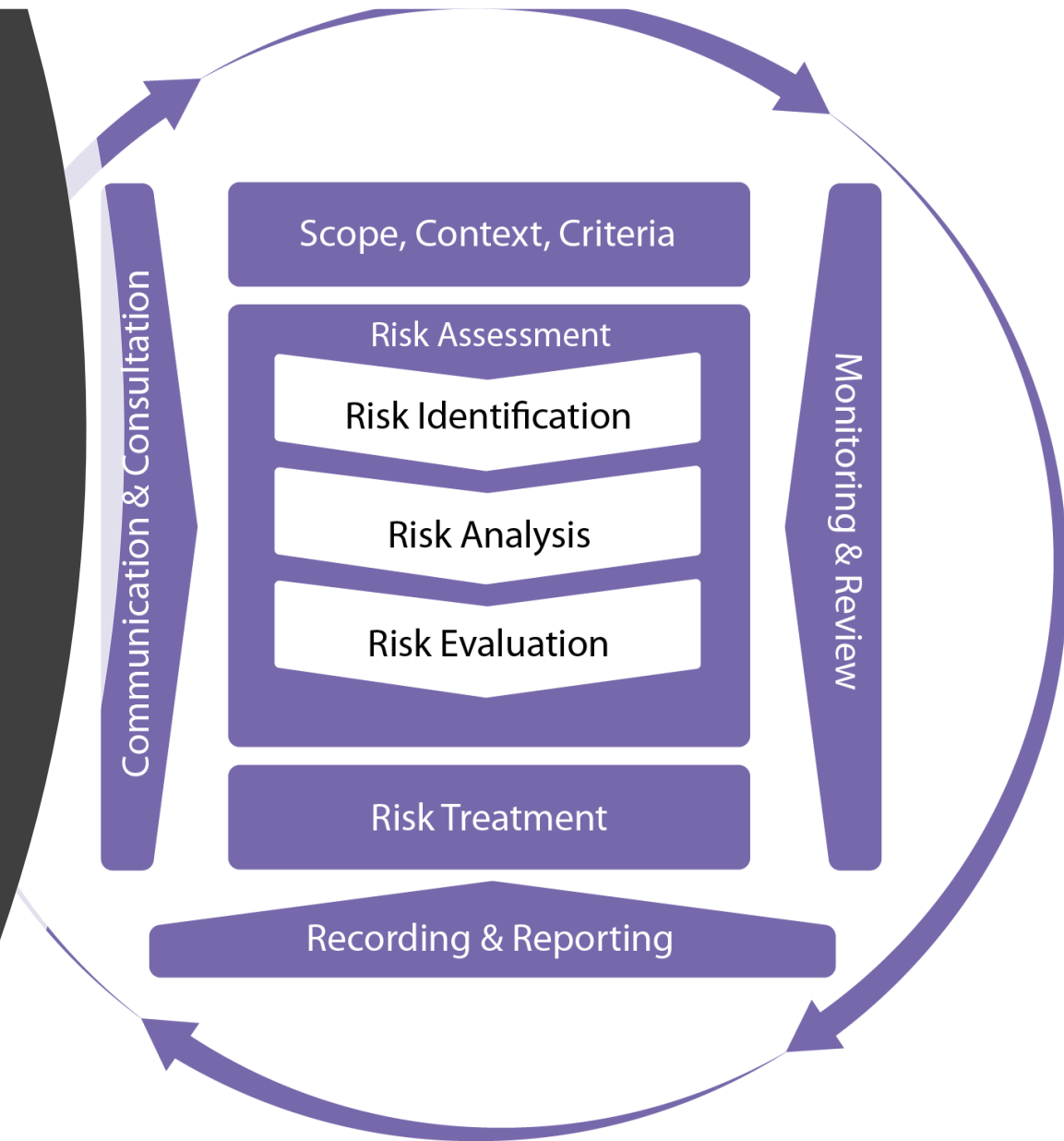


Something unusual  
about you



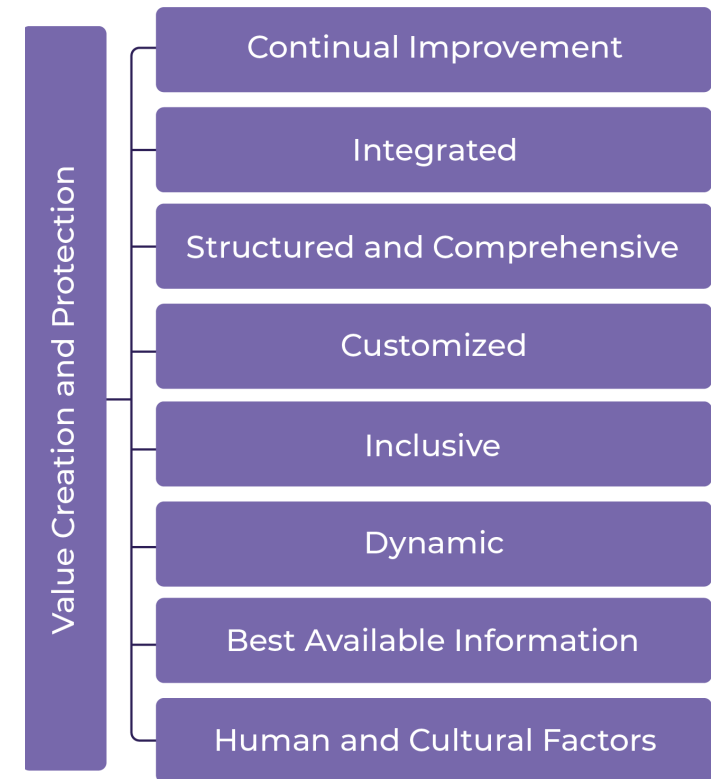
Objectives for today

# ISO 31000 Process

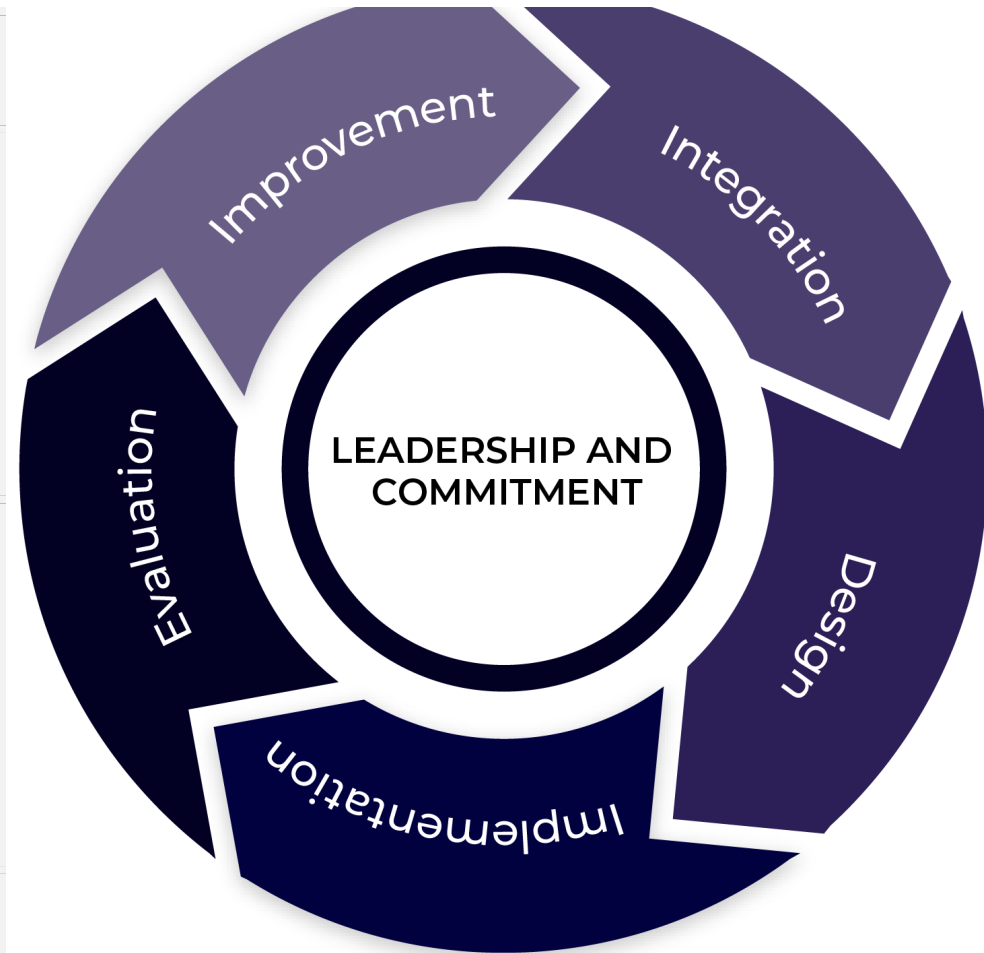




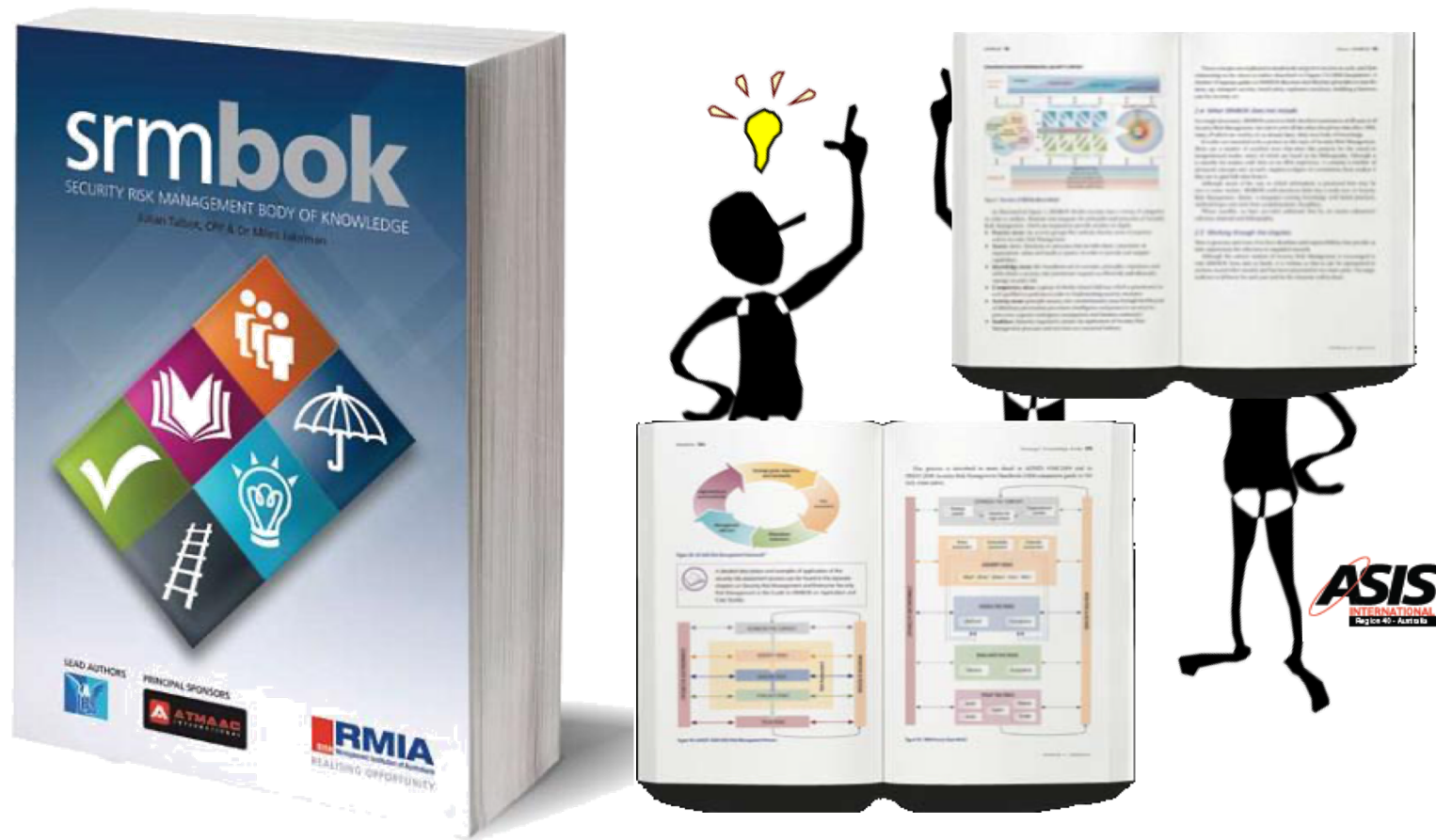
# ISO31000 Principles

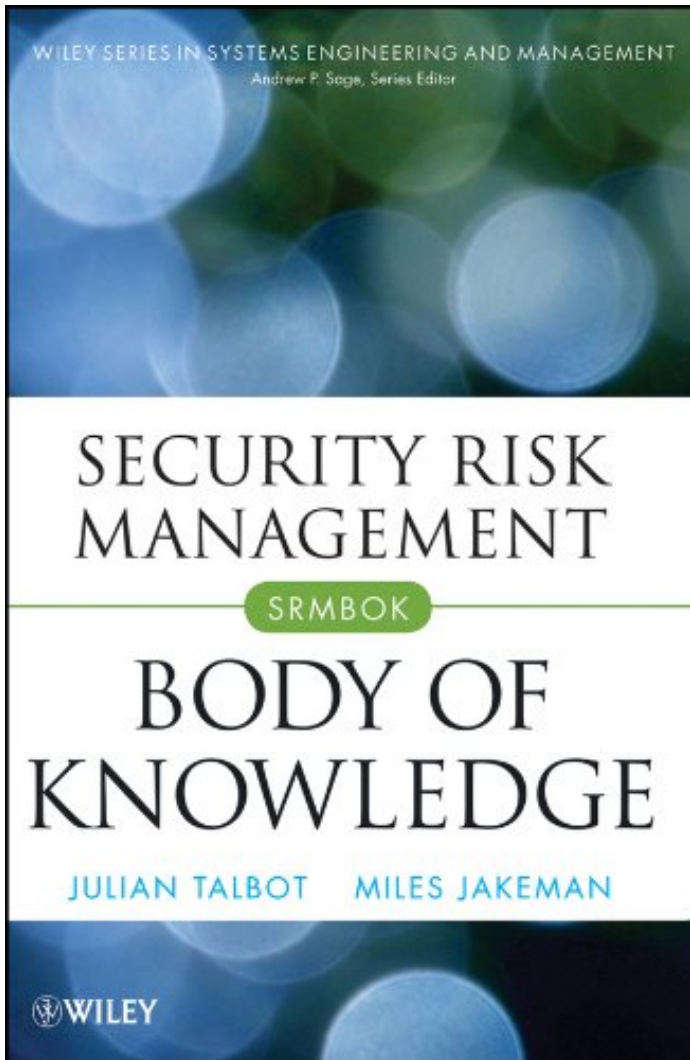


# ISO31000 Framework



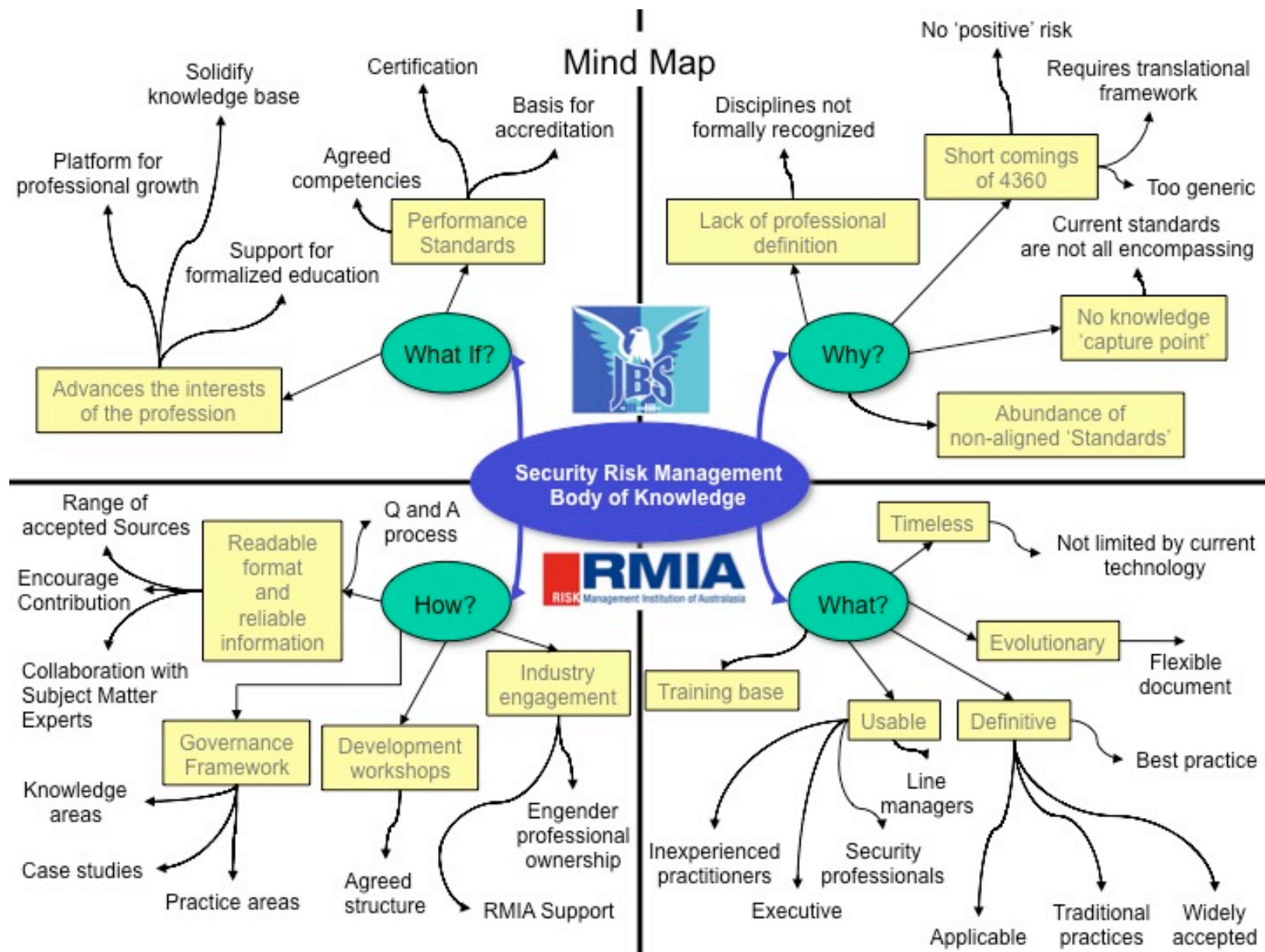
# SRMBOK. In the beginning ...

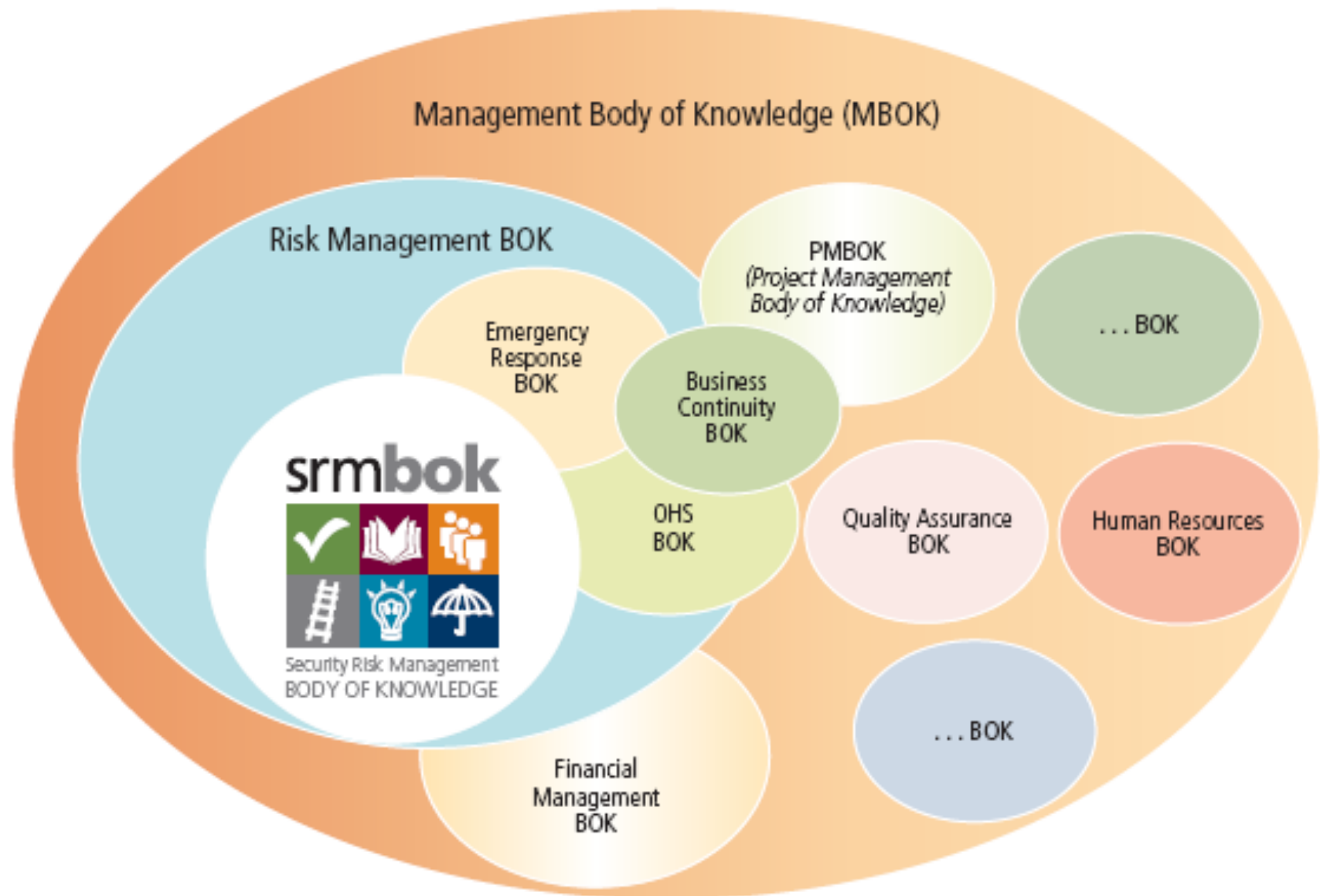




# Second Edition 2009

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# **What SRMBOK includes**

- Introduction and Overview
- SRM Context
- Security Governance
- SRMBOK Framework
- Practice Areas
- Strategic Knowledge Areas
- Operational Competency Areas
- Activity Areas
- SRM Enablers
- Asset Areas
- SRM Integration
- SRM Lexicon
- Sample Templates
- Bibliography

# **Audience for SRMBOK**

- Security Advisers
- Security Managers
- Line Managers
- Students
- Consultants
- Security professionals
- Directors
- Senior Managers
- Chief Executive Officers
- Chief Security Officers

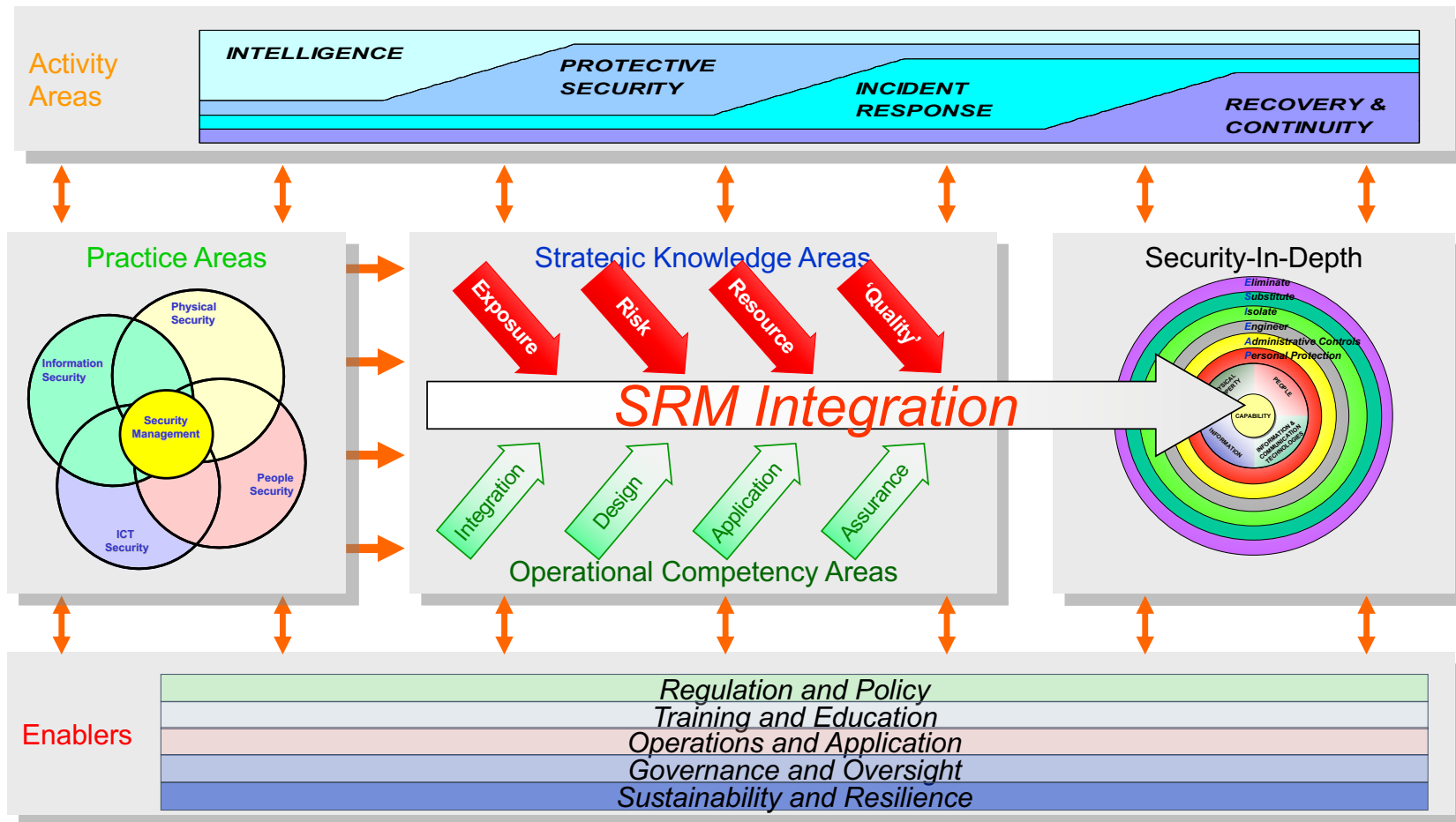


# Terminology

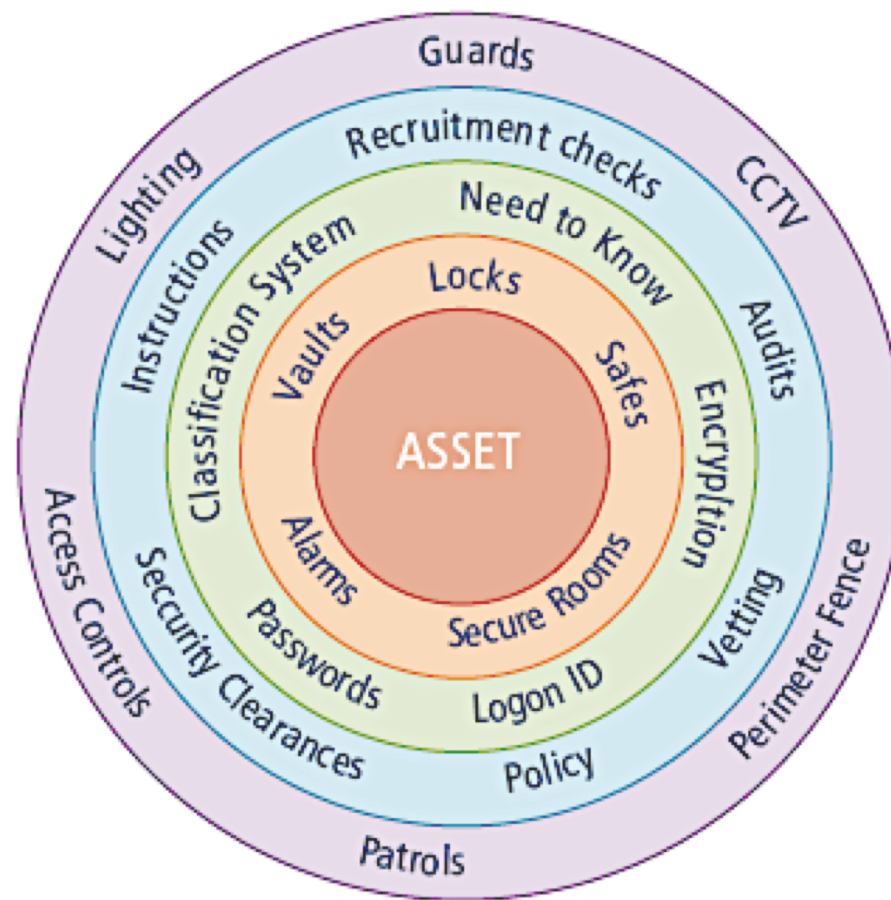
- Risk
- Threat
- Hazard
- Source
- AAAARGH!



# SRMBOK Framework

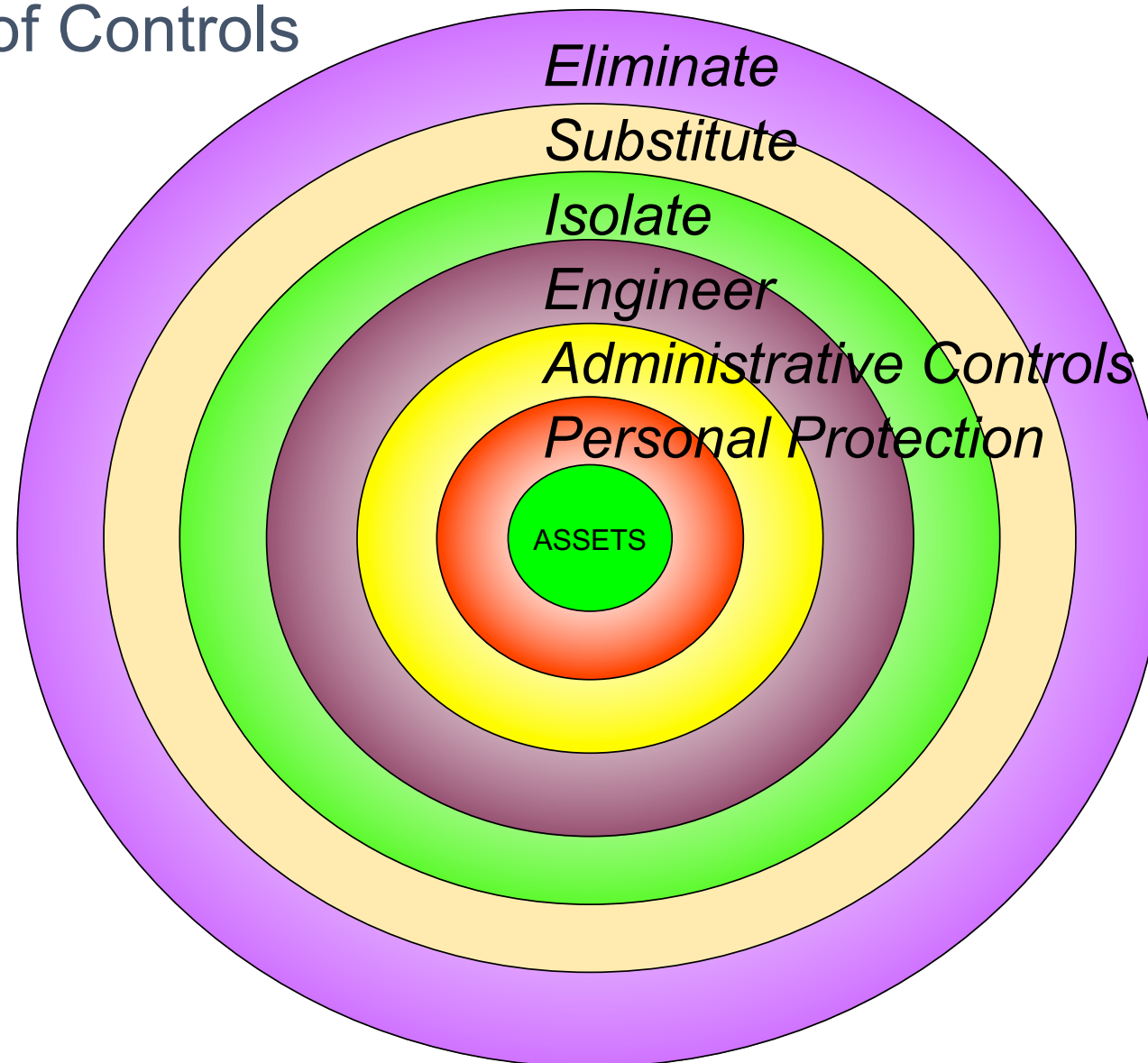


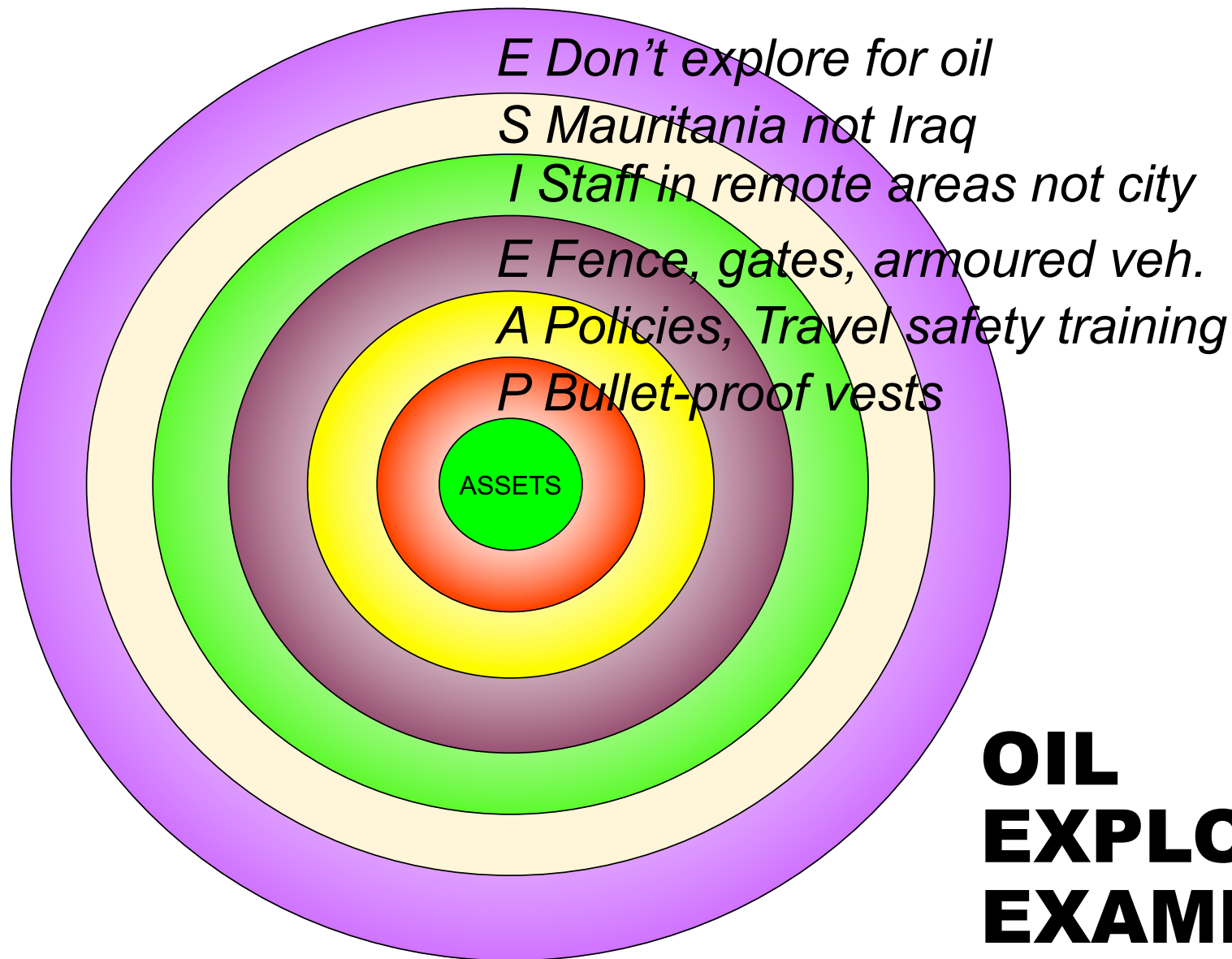
# Security In Depth



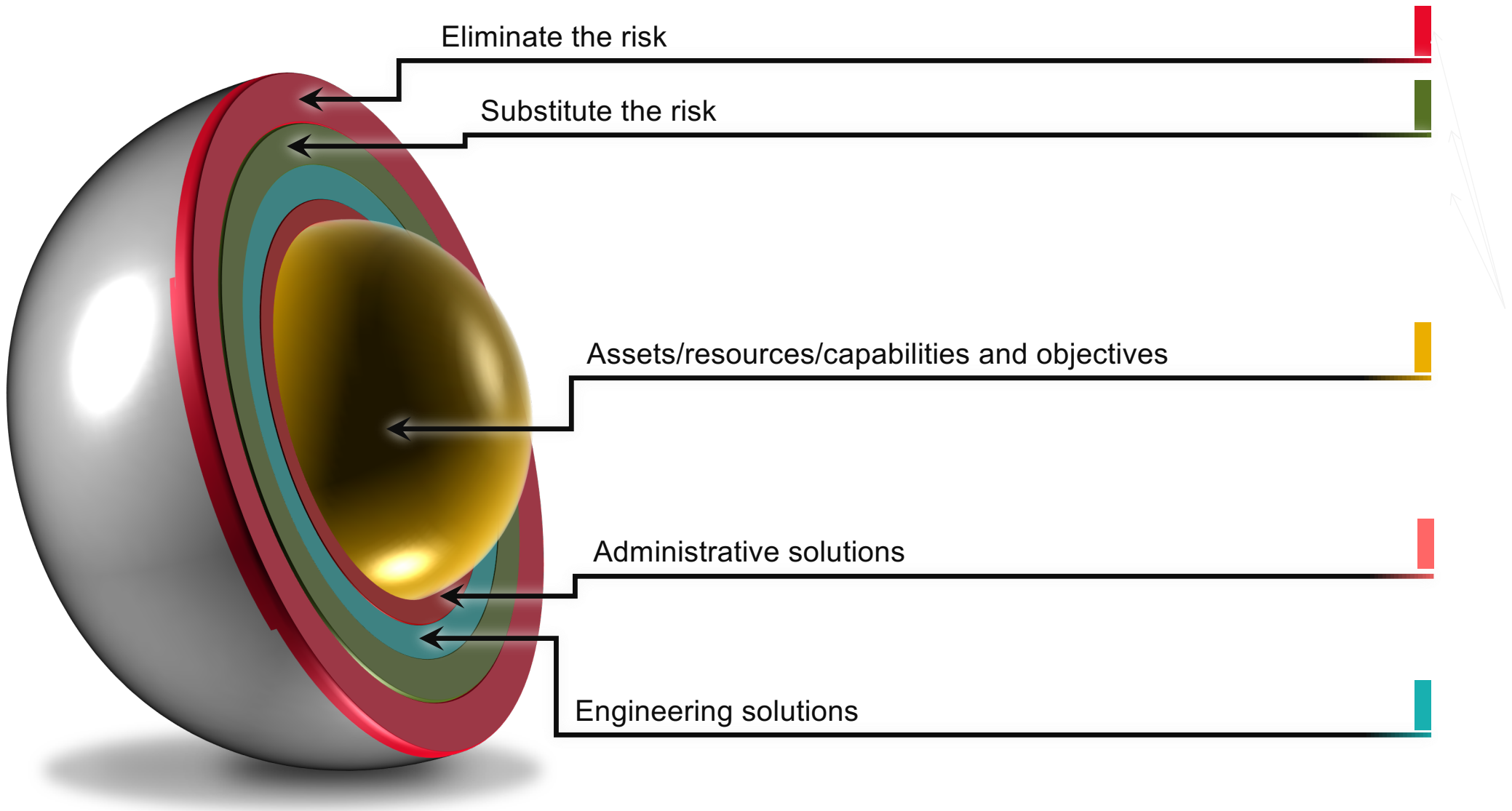
# Hierarchy of Controls

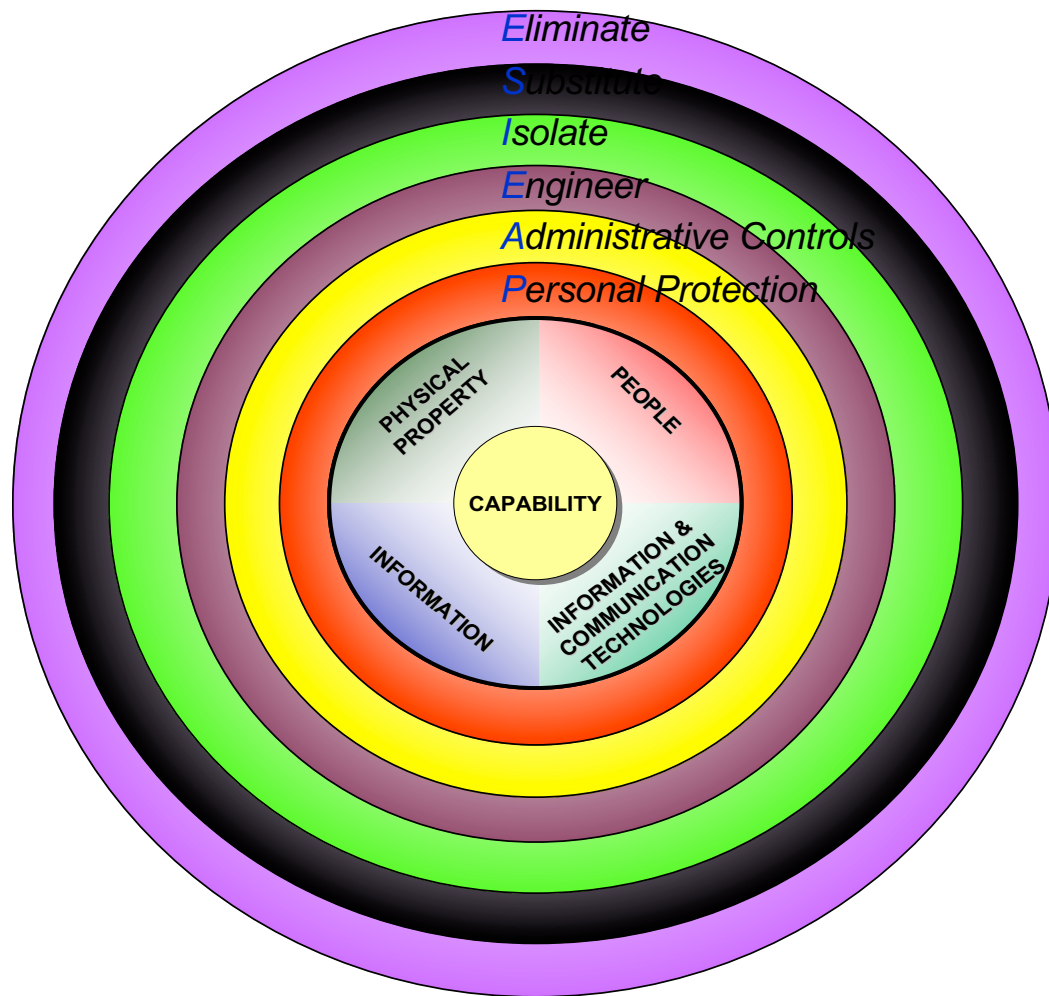
Source: NOHSC





# **OIL EXPLORATION EXAMPLE**



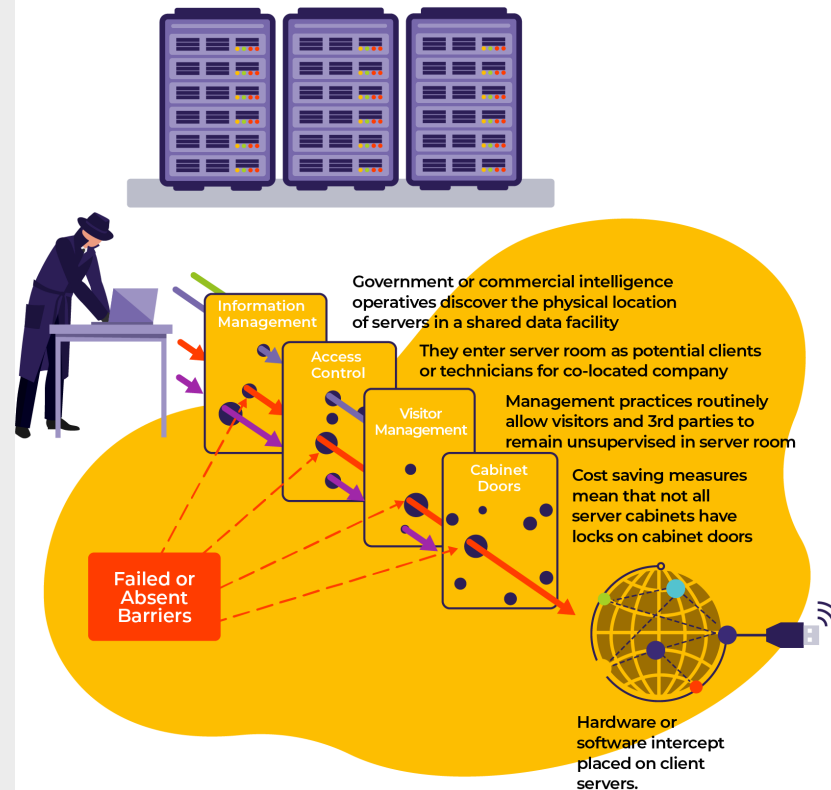




# SWISS CHEESE

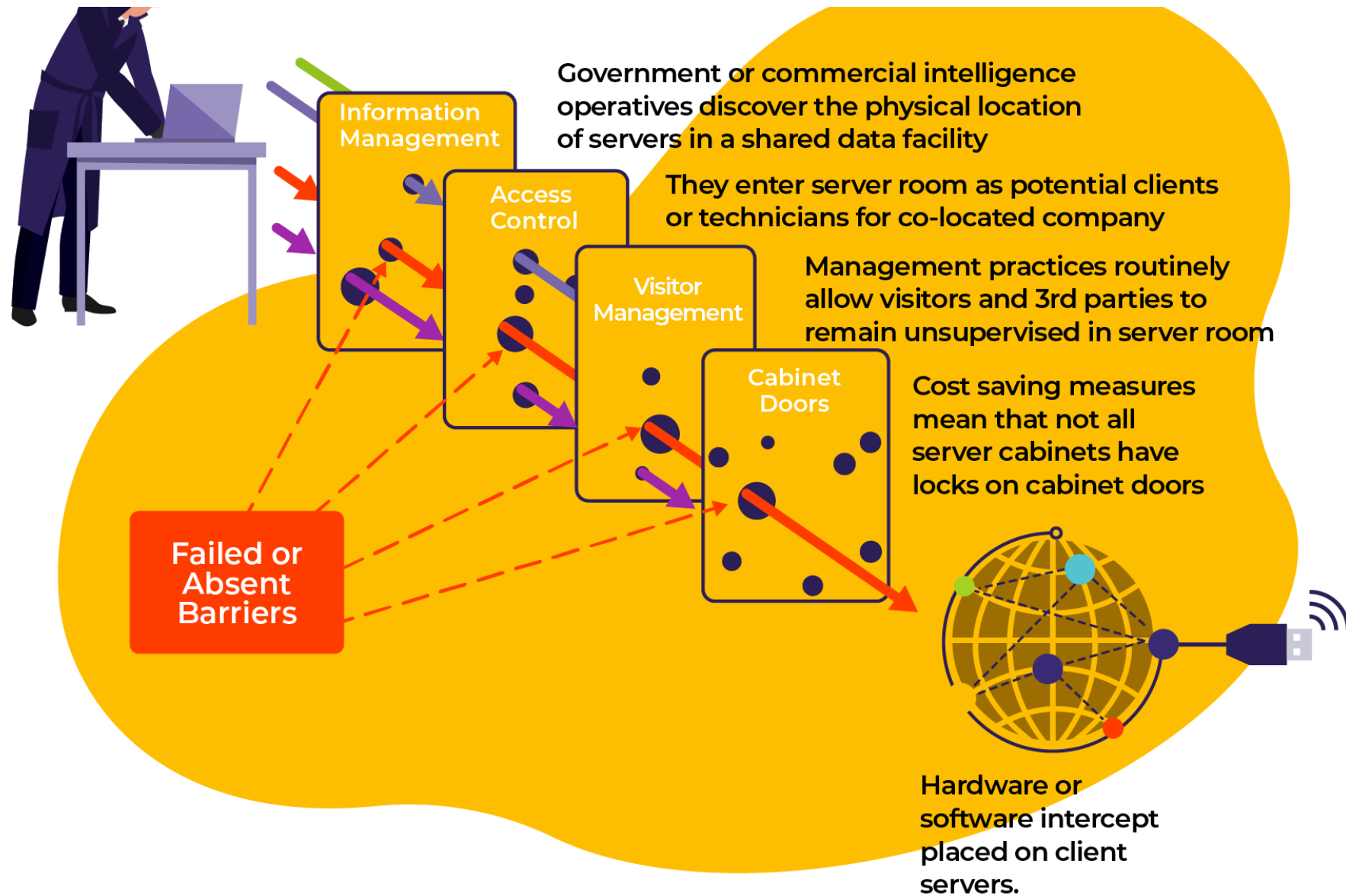
## Swiss-Cheese Example

In this example, intelligence agents gain physical access to corporate servers and steal corporate data.



NOTE: Most data breaches occur remotely via software vulnerabilities but a) this is a lot easier example for non-IT people and b) it is (sadly) a real world example.

Customer and corporate records compromised.



# DDDRR

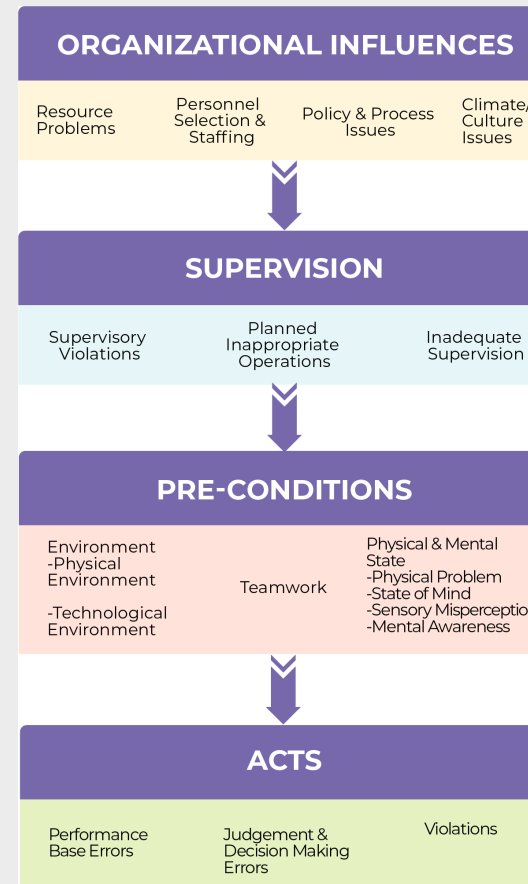
Deter, Detect, Delay, Respond and Recover

## DDD-RR Model

A series of barriers are in place to protect bank capital however if they all fail and thieves are successful, profits will be reduced.



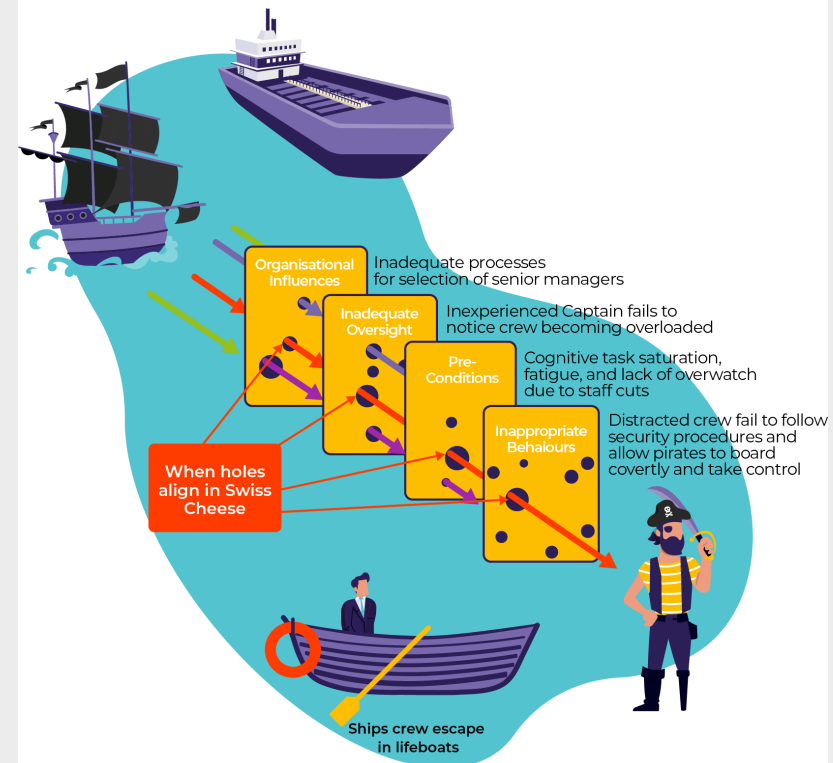
# HFACS

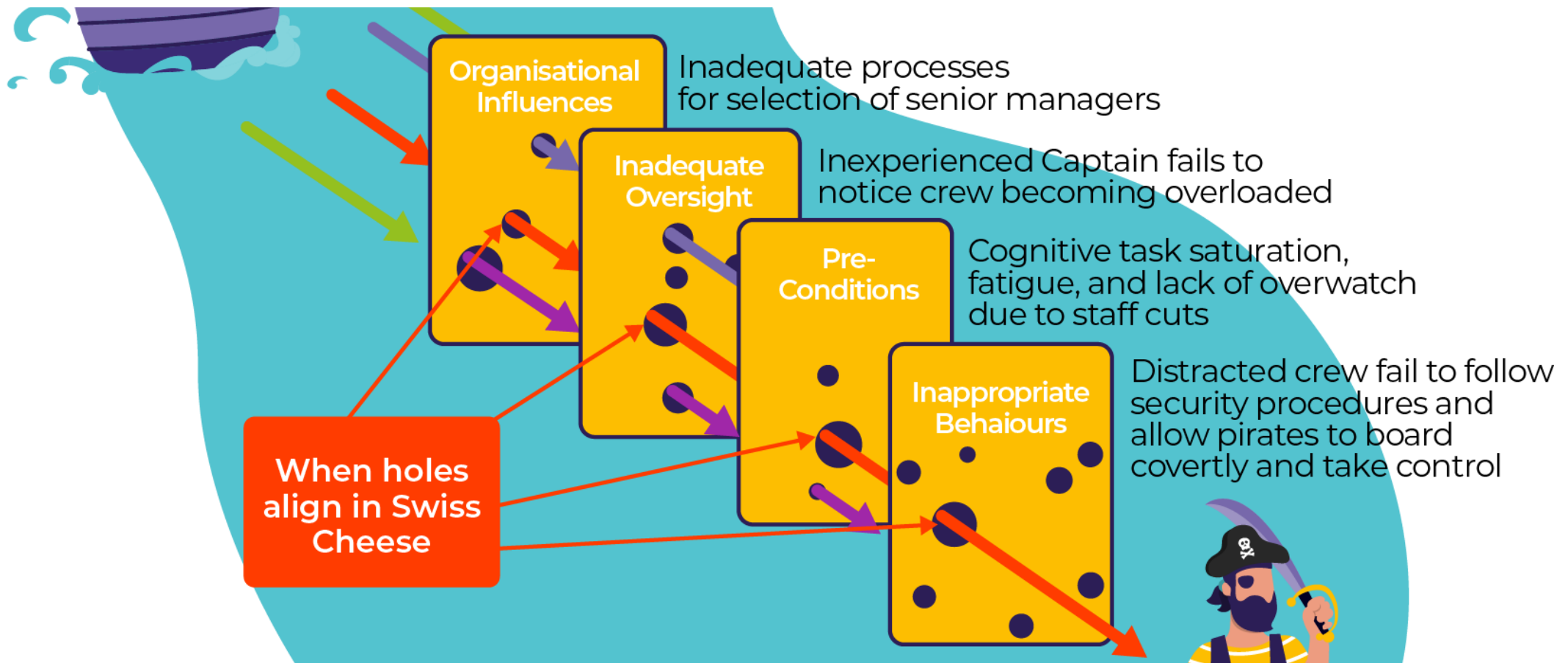


# HUMAN FACTORS ANALYSIS CLASSIFICATION SYSTEM

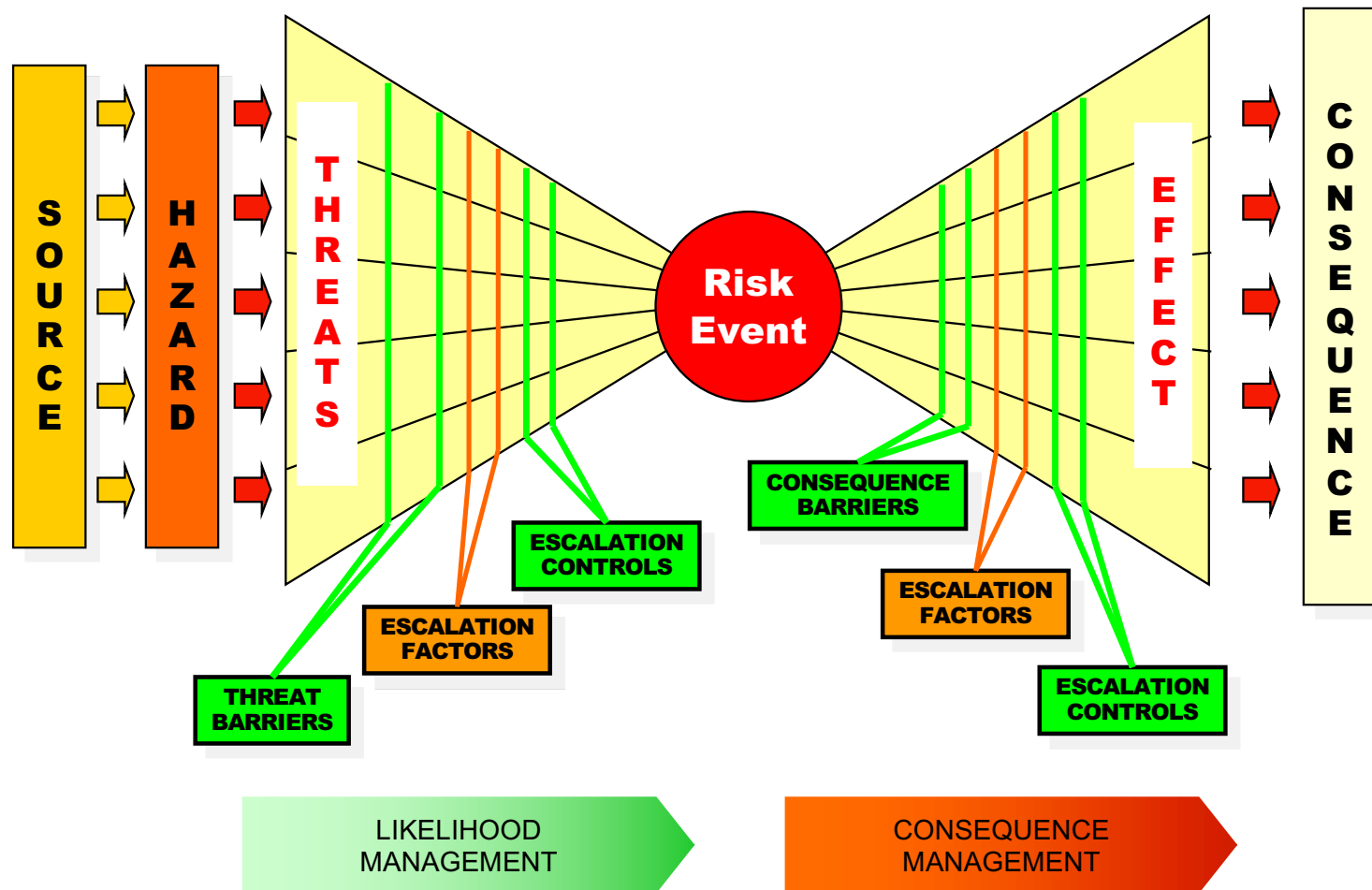
## Human Factors

In this example, a series of Human Factors allows a boat load of pirates to gain access to an oil tanker, resulting in loss of ship

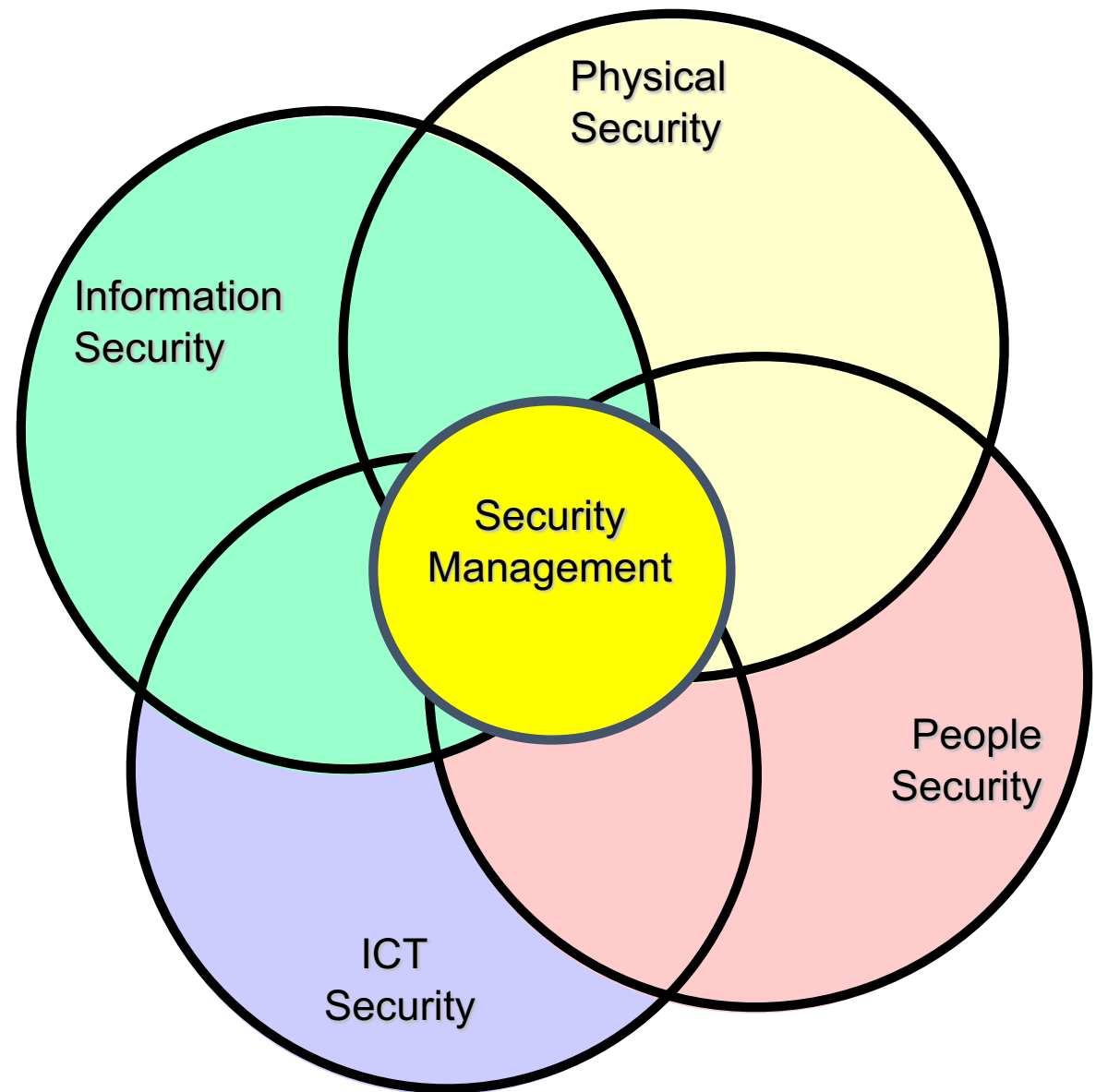




# Defining Terms by Relationships

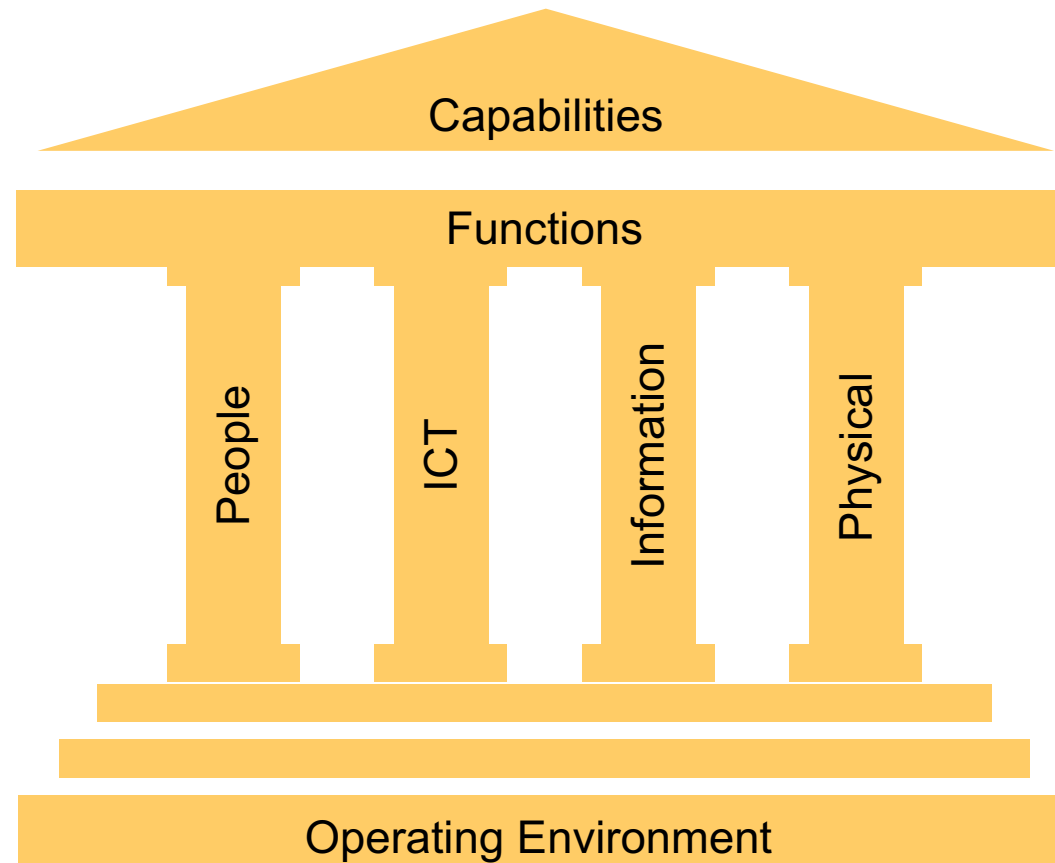


# PRACTICE AREAS

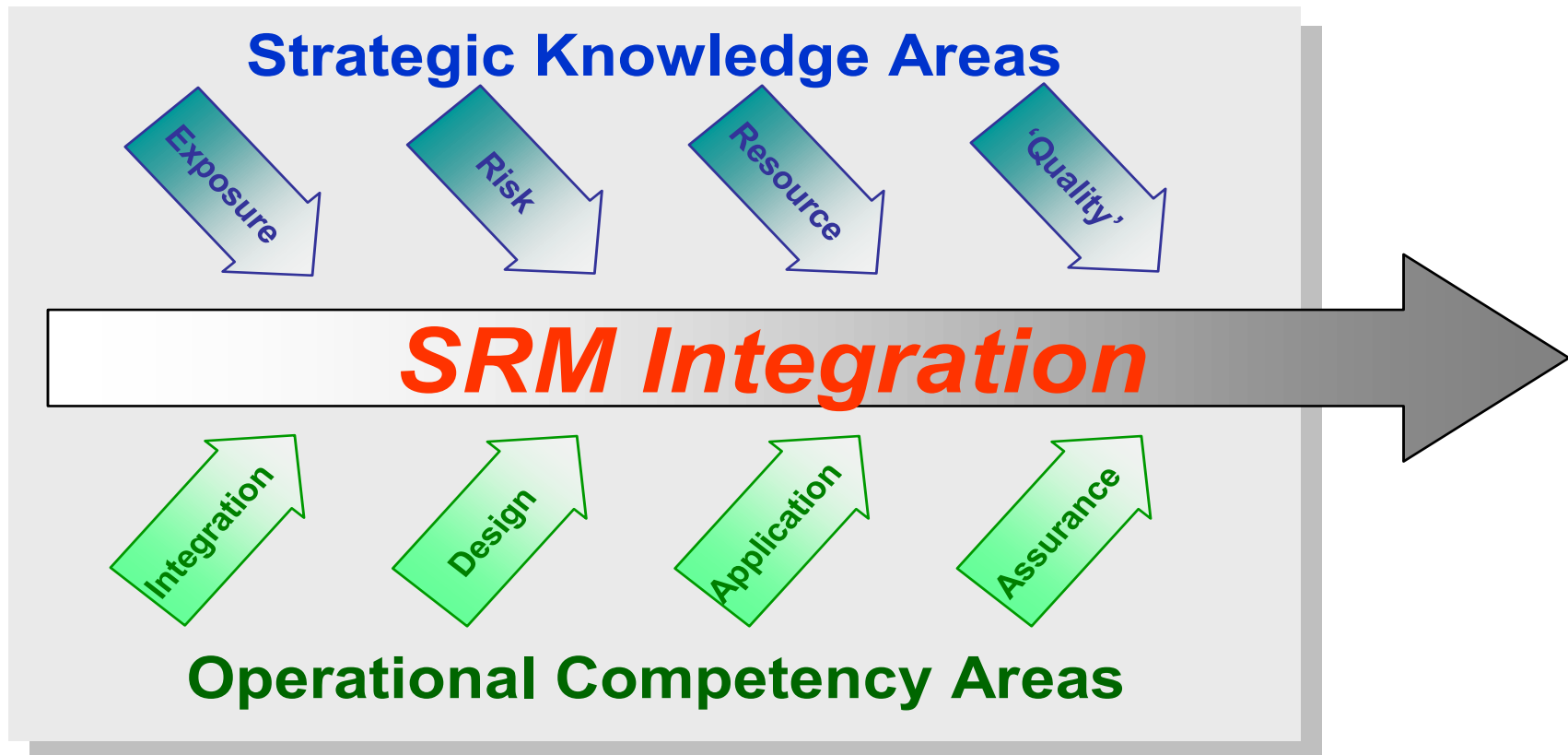




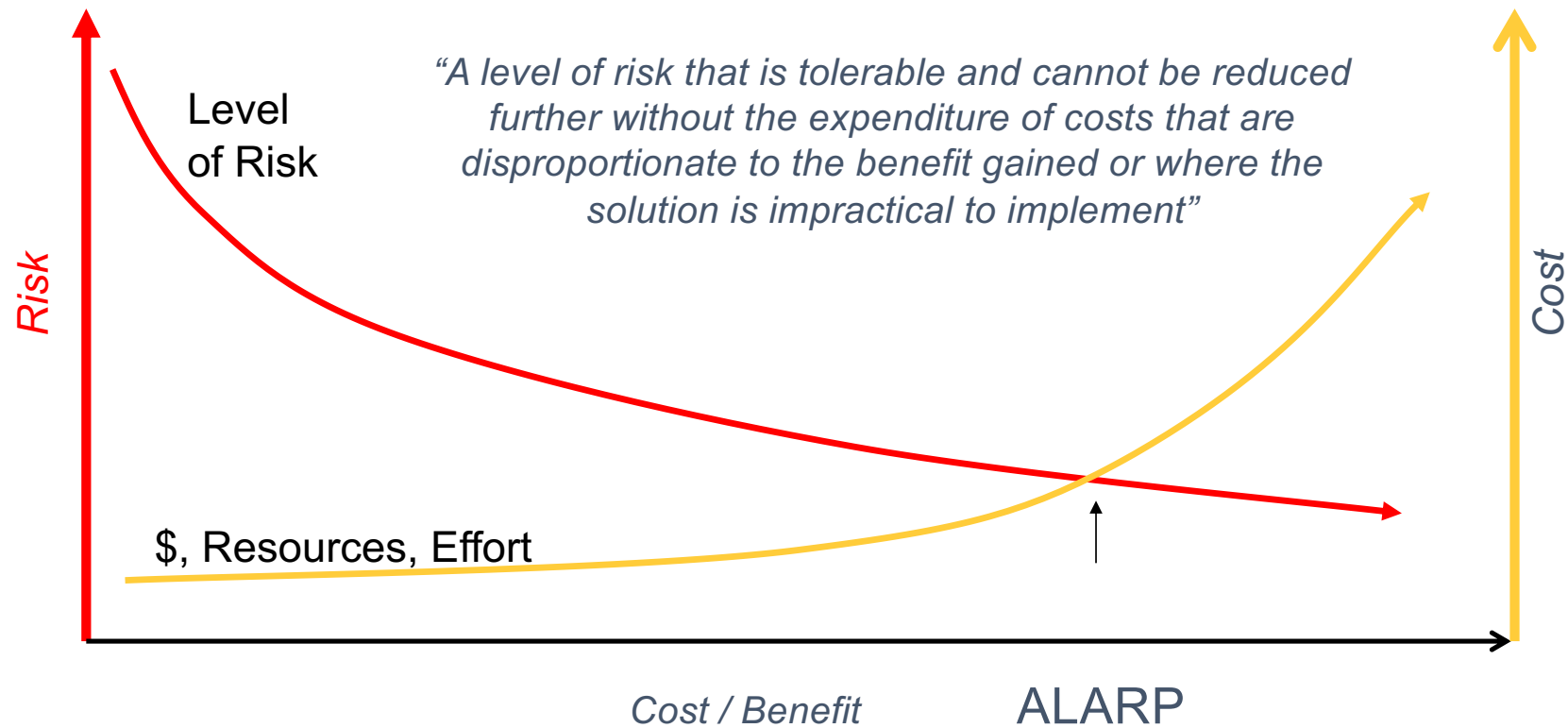
# RESILIENCE



# SRM INTEGRATION

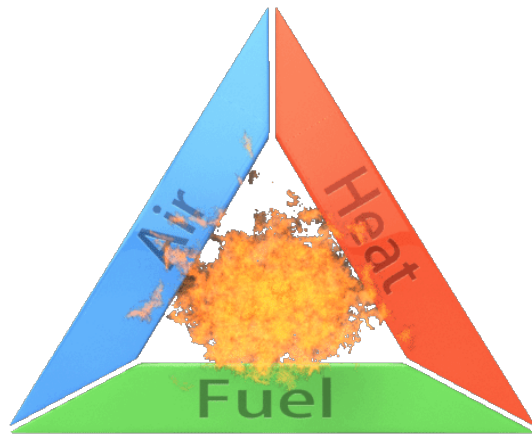


# Cost/Benefit of Mitigation

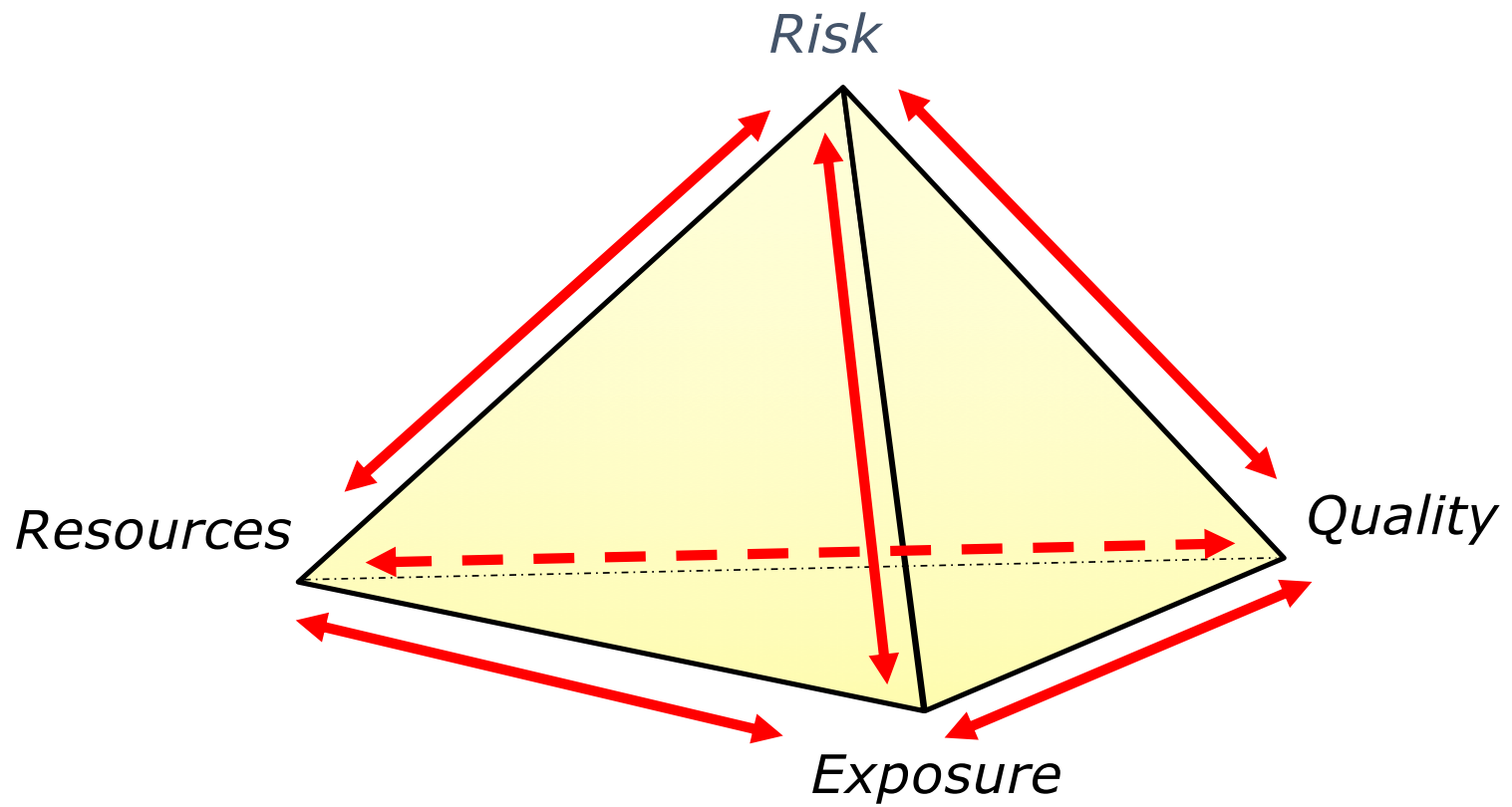


# Light, strong, & cheap

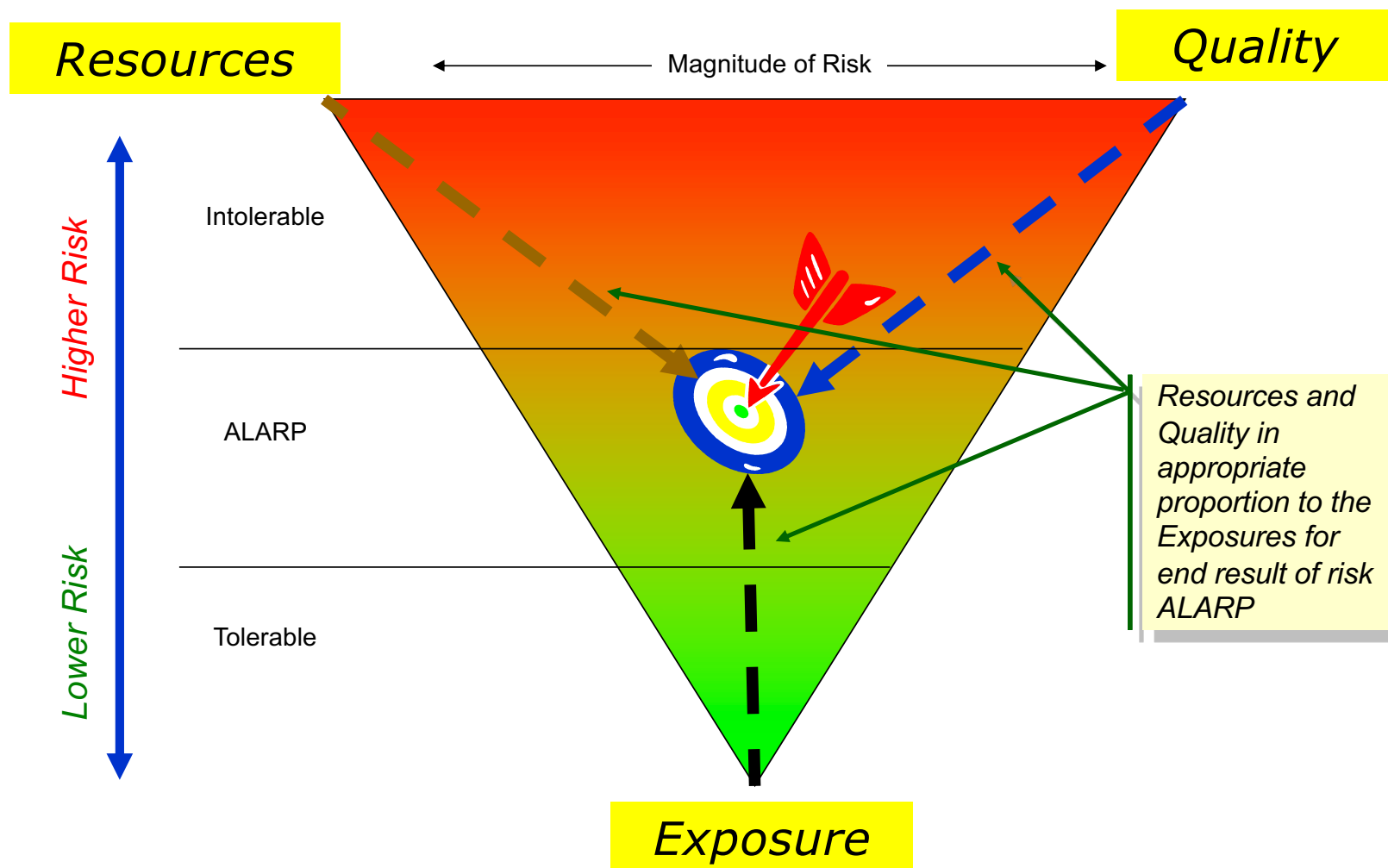
- Scope, Resources, Schedule (& Quality)



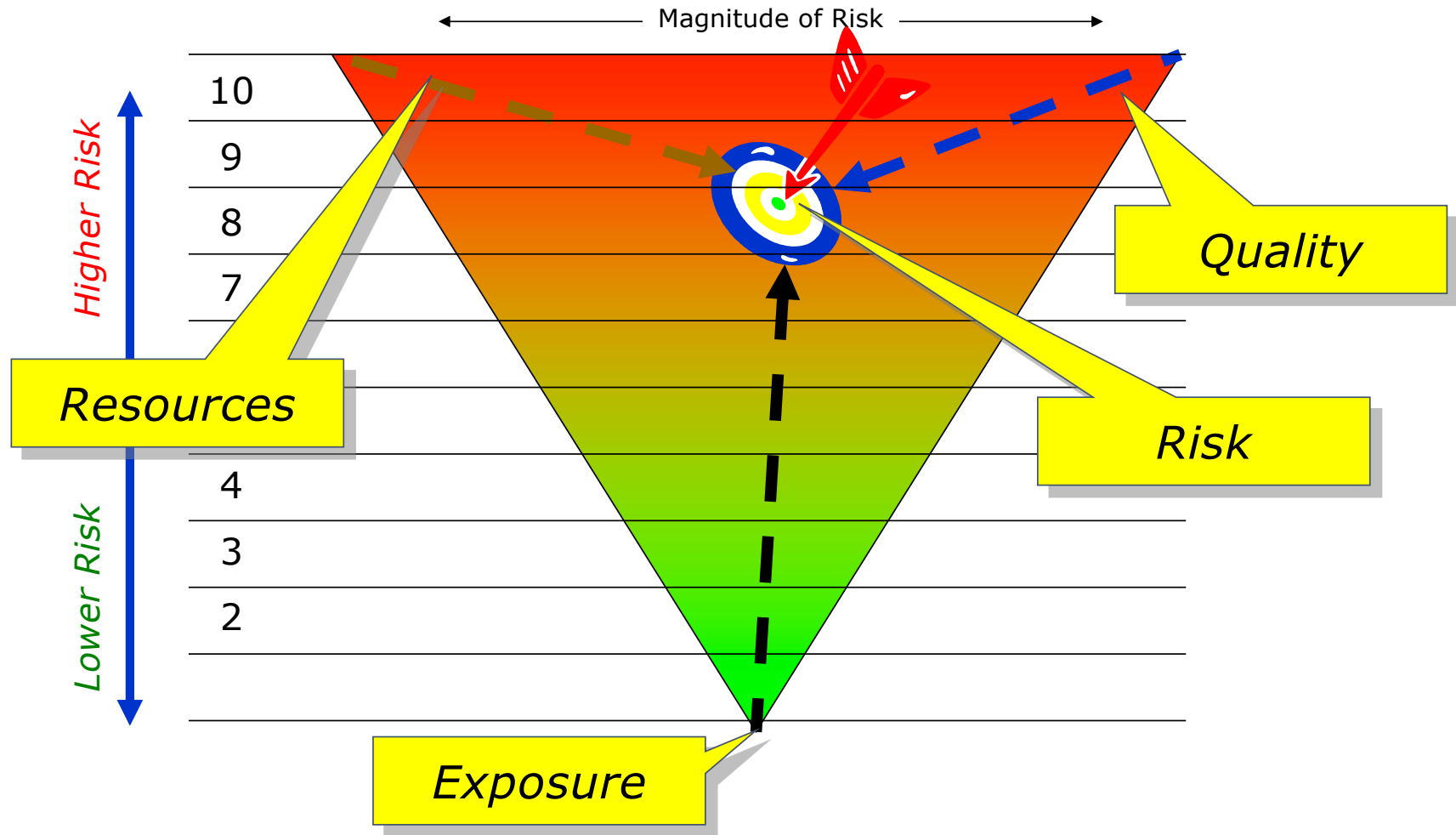
Chemical chain reaction



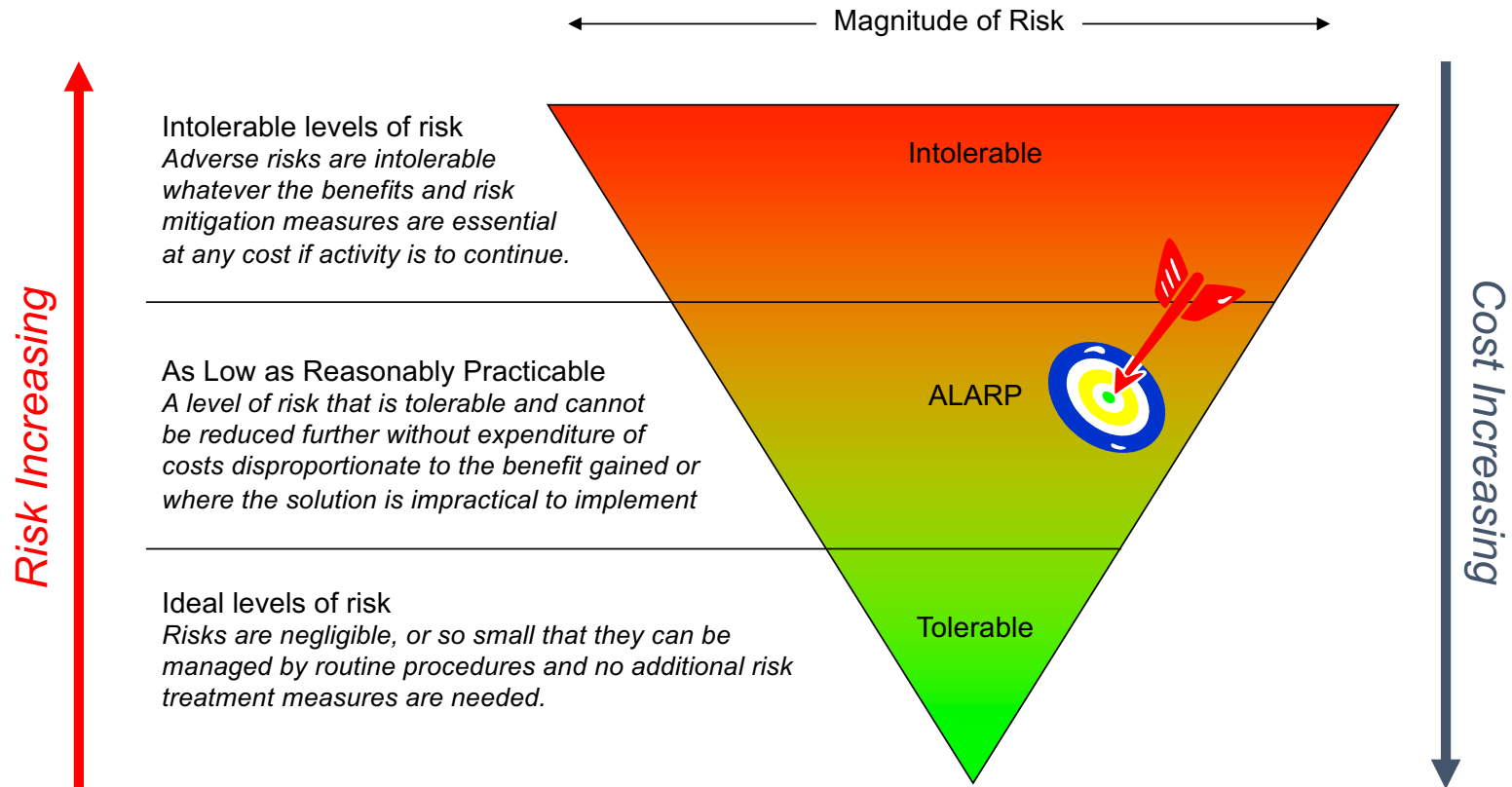
# Risk Equilibrium (Optimal Trade-Off)



# Risk High if Resources & Quality Low

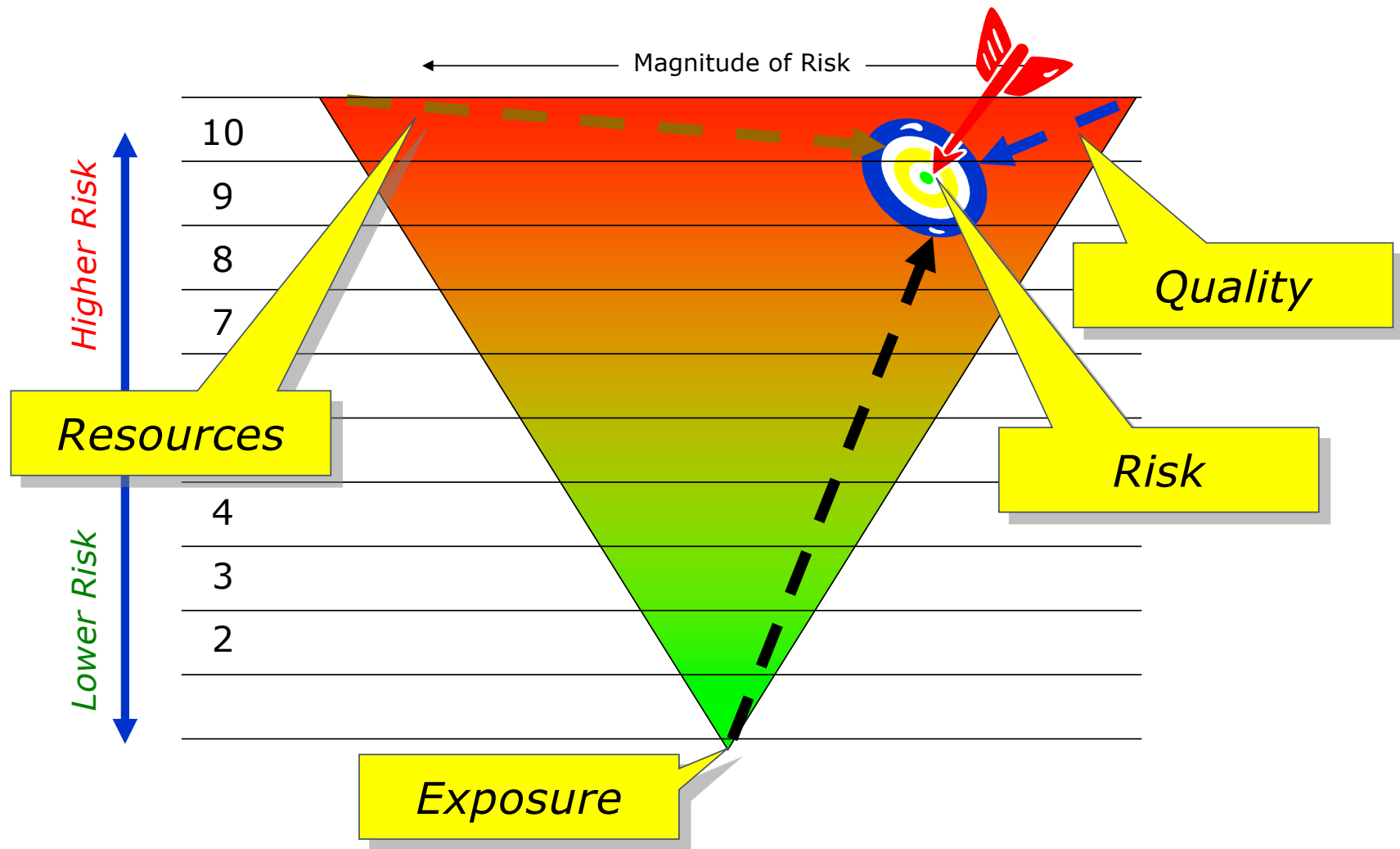


# As Low As Reasonably Practicable

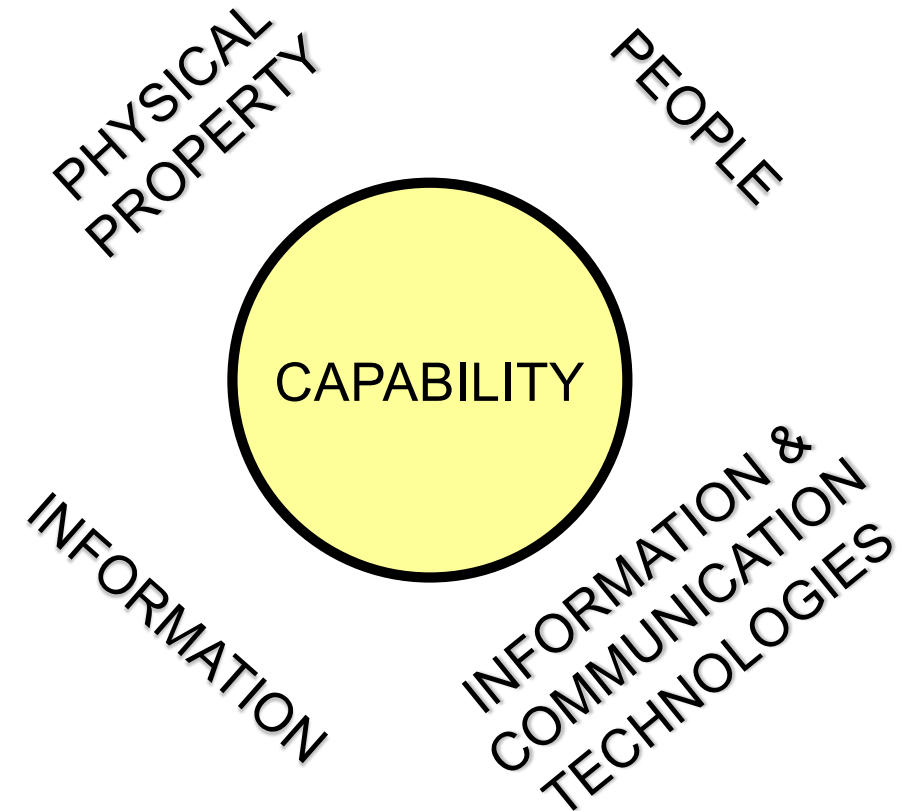




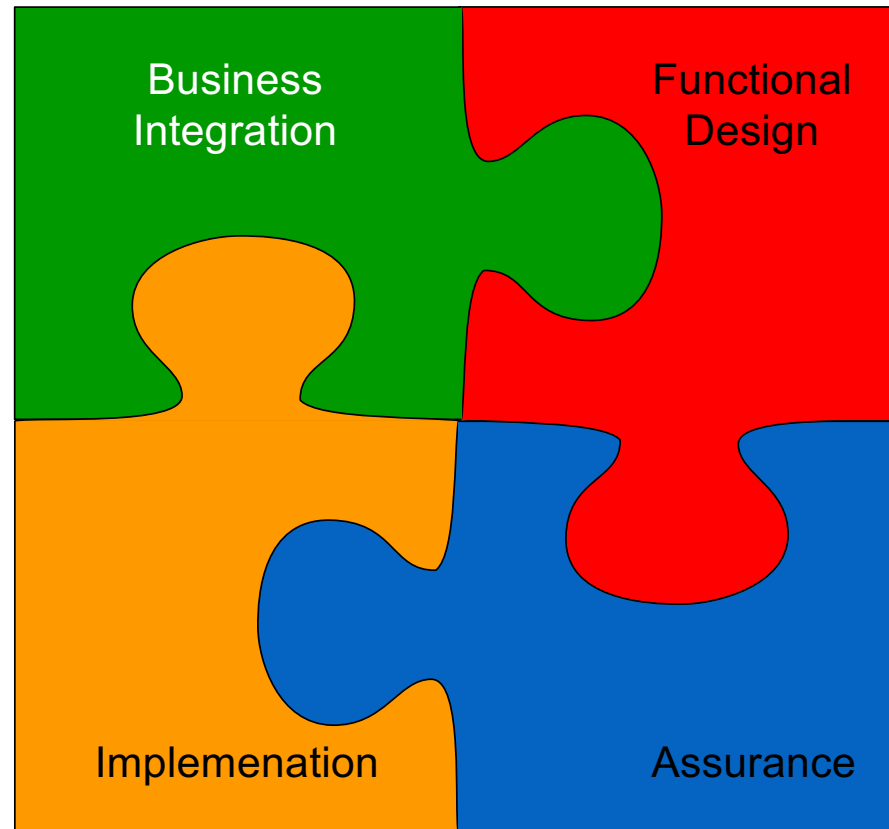
# Resources High but Quality Low



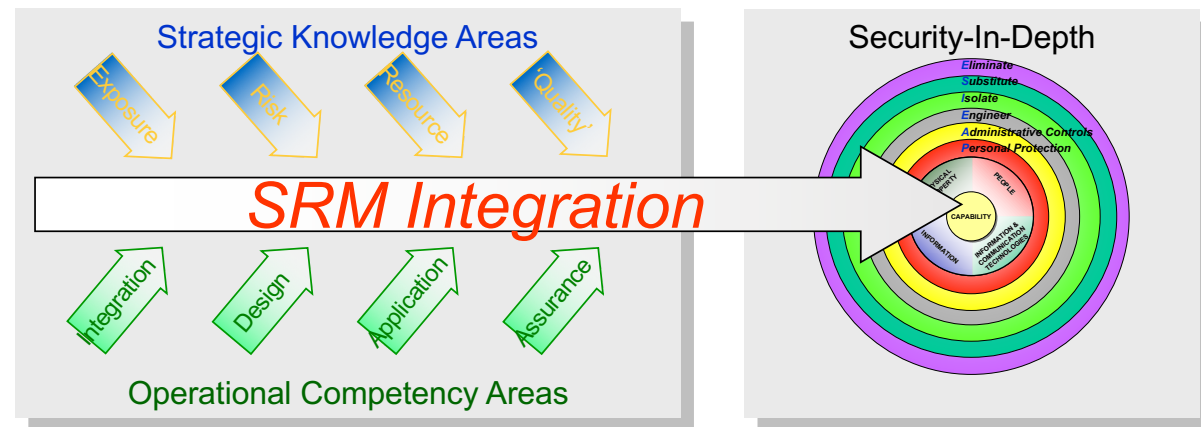
# ASSETS (Resources)



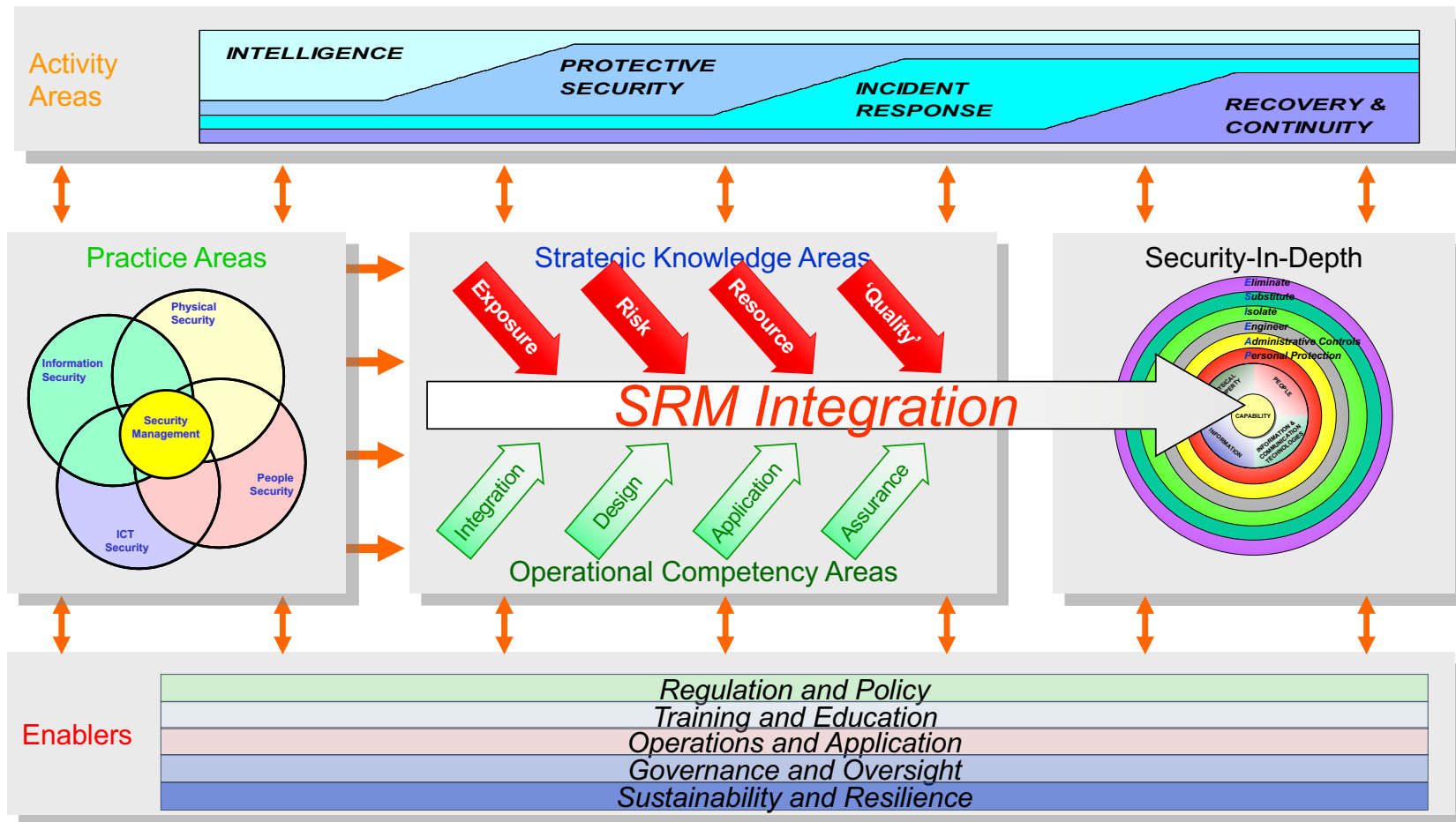
# COMPETENCY AREAS



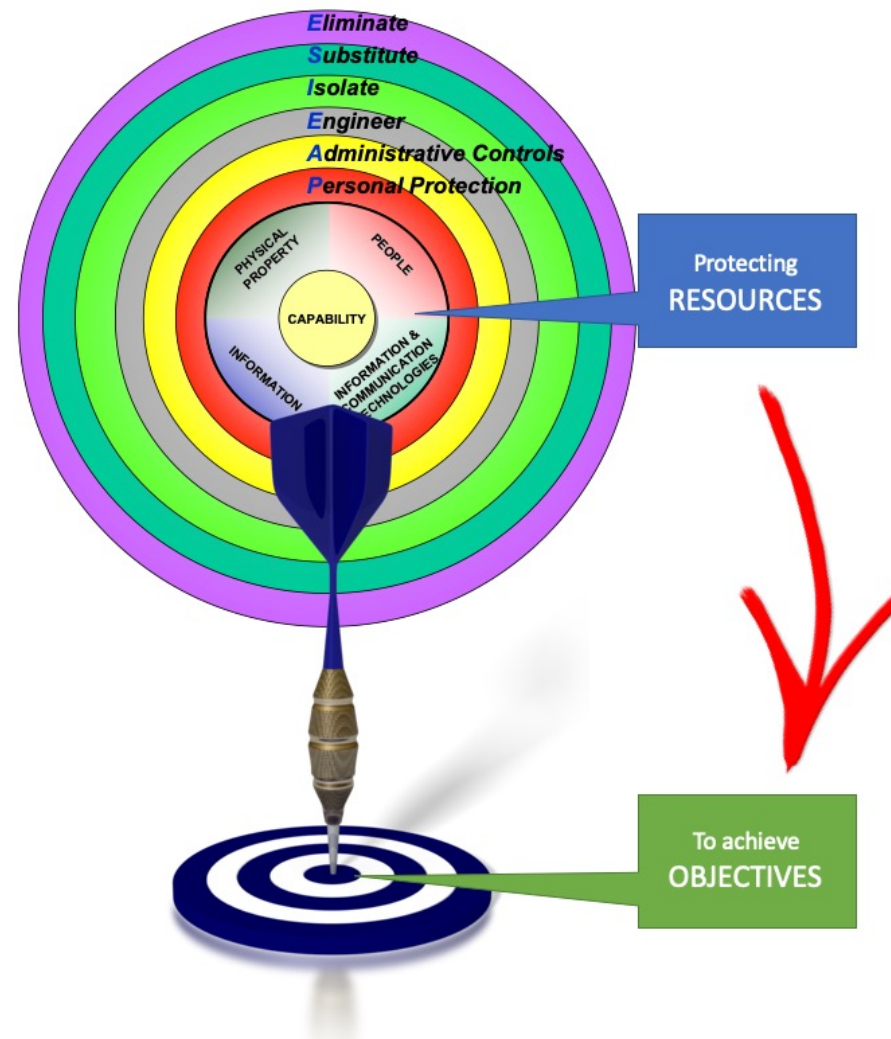
# SRMBOK FRAMEWORK

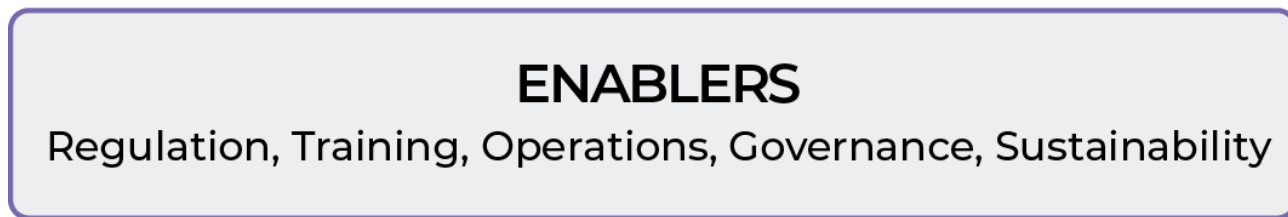


# SRMBOK Framework



# Security-In-Depth





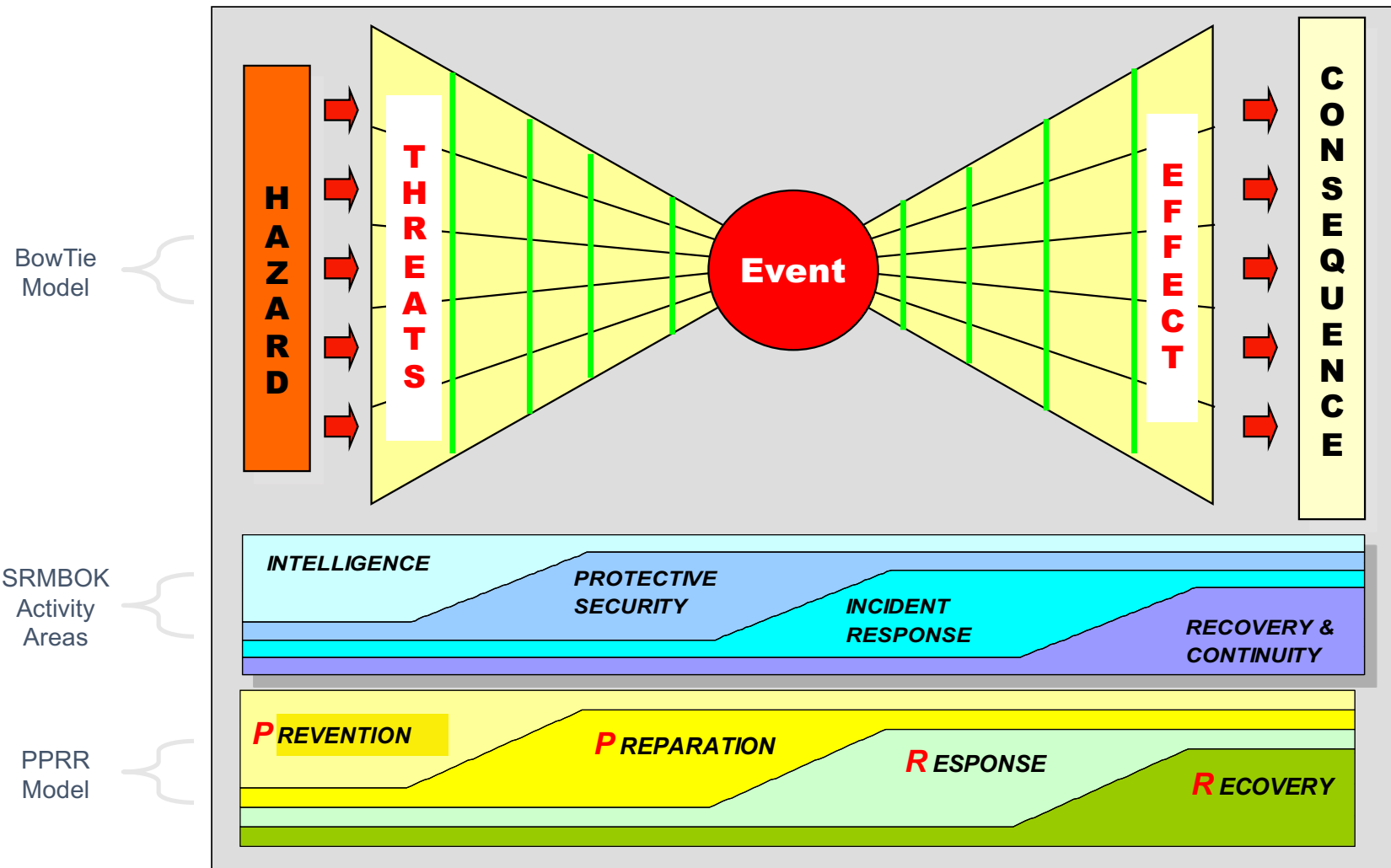
- *Security Governance* refers to the processes by which organisations are directed, controlled and held to account. It encompasses authority, accountability, stewardship, leadership, direction and control exercised in the organisation.

Generally focuses on two main requirements:

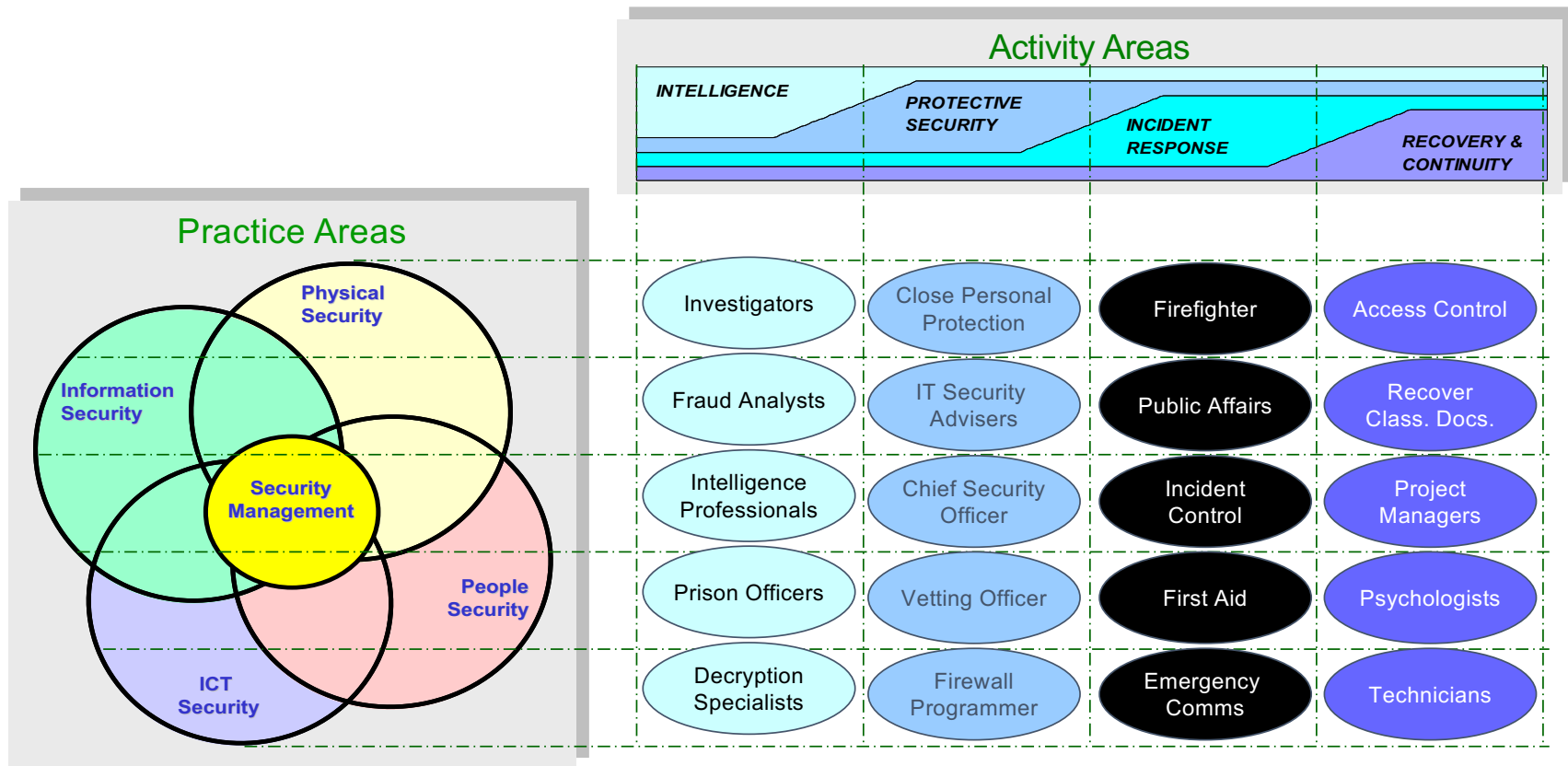
- *Performance*: whereby the organisation uses its security governance arrangements to contribute to its overall performance, the delivery of its products/services, and general resilience; and
- *Conformance*: whereby the organisation uses its security arrangements to ensure it meets the requirements of the law, regulations, published standards and community expectations.

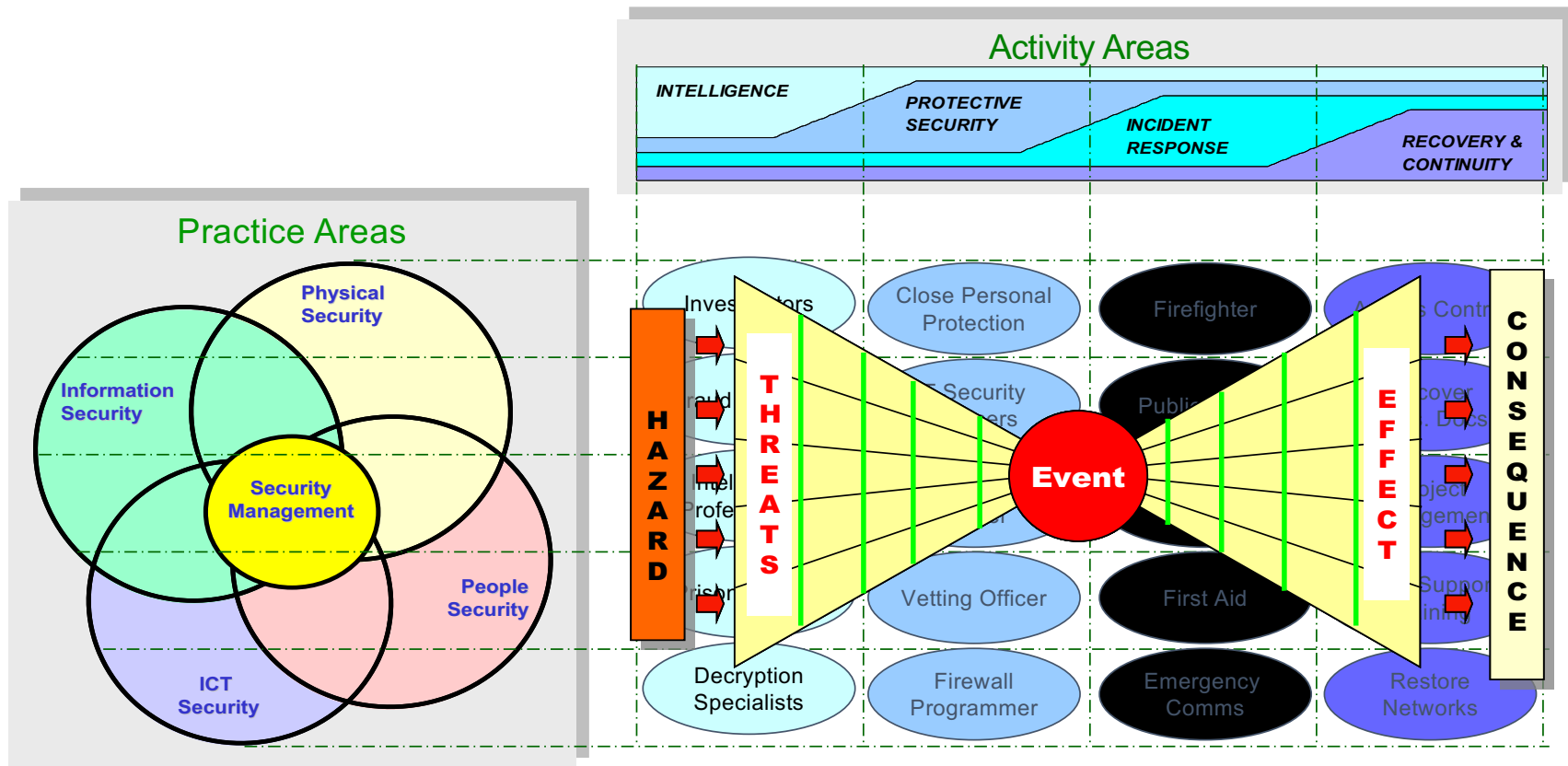


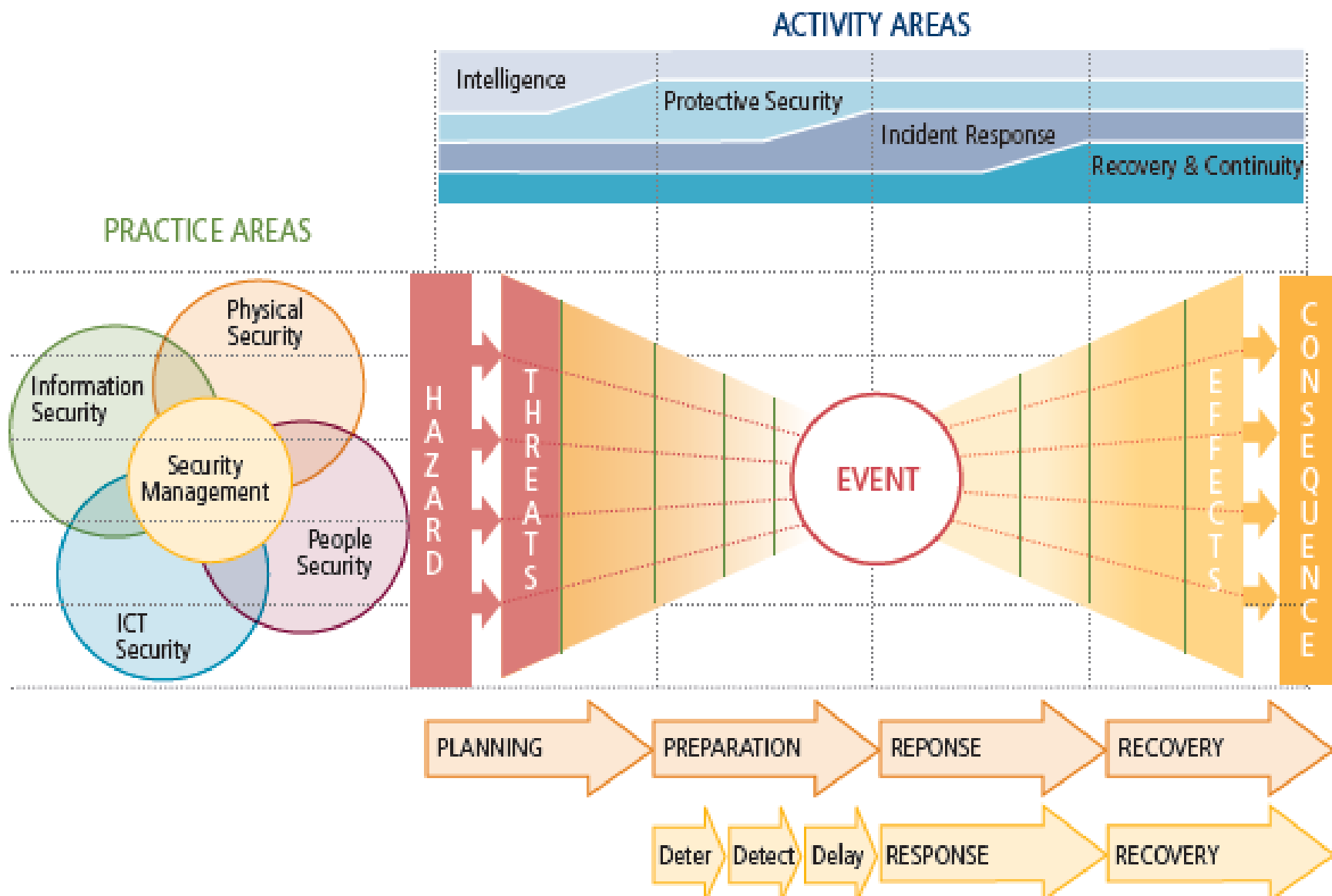
# ACTIVITY AREAS



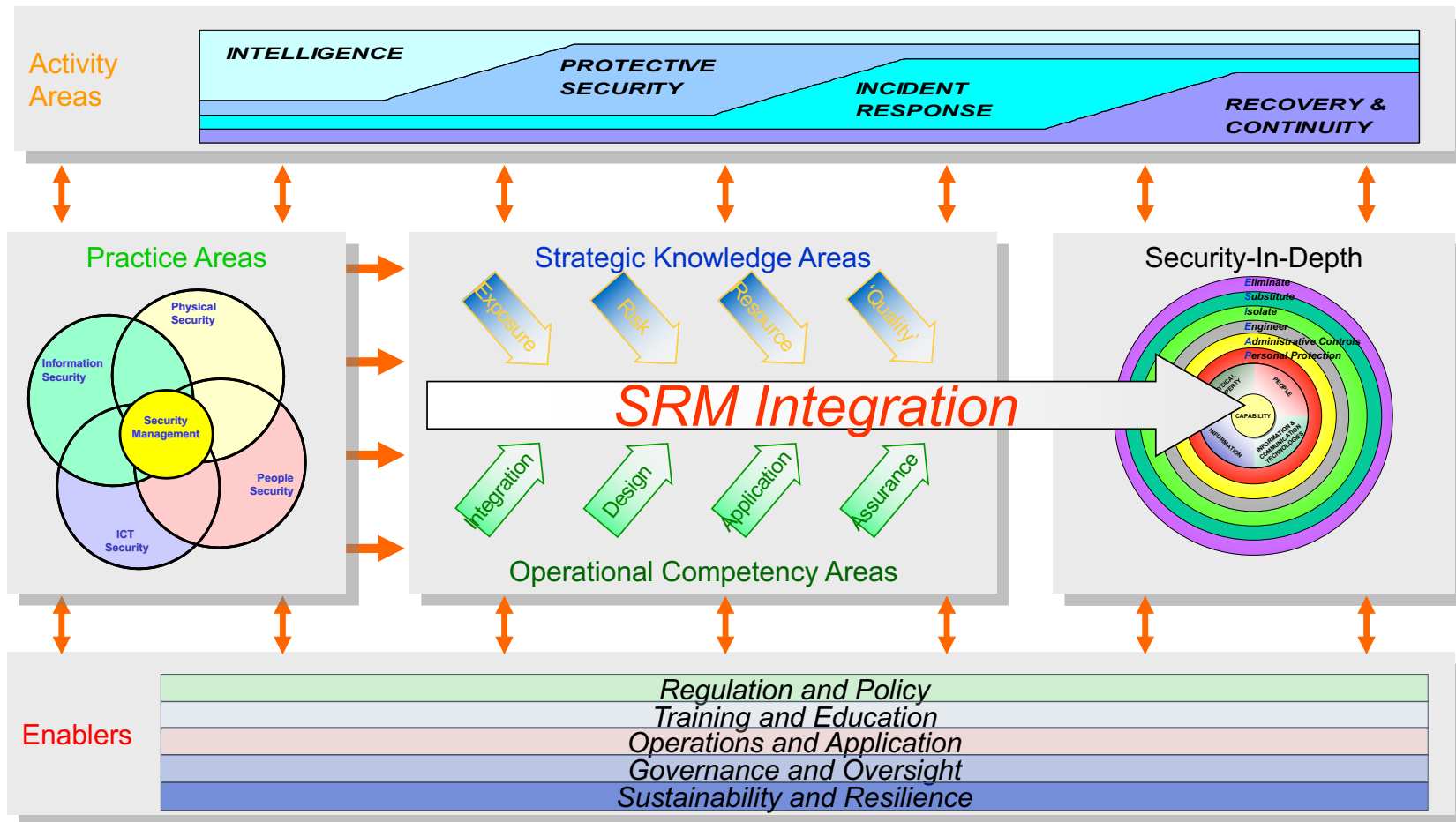


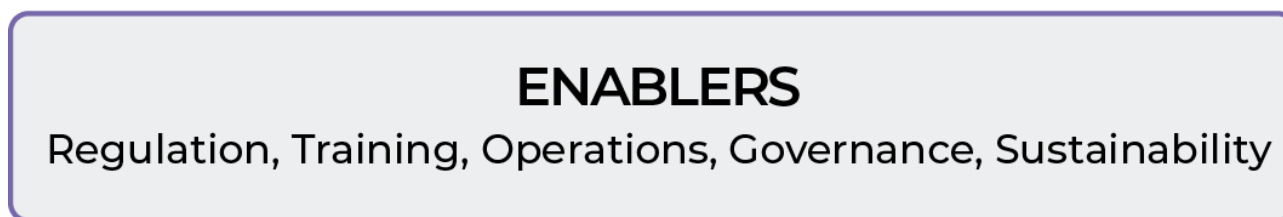






# SRM INTEGRATION







# **Morning Tea**

- 1030 to 1100