

Housekeeping

Two sessions

- 10-minute break for emails, coffee, etc
- Mute microphones

Screenshots & notes

- One Note, MS Word, Evernote, etc
- Screen capture (Win-PrtScn, Command-Shift-3)

Questions at the end

- Clarifications anytime
- Hand up or chat box

AGENDA

- Environment and threats
- Risk fundamentals
- ISO31000 Risk Management Guideline
- Risk management strategies
- Inherent, current, residual
- Swiss Cheese and Bow Ties
- Risk identification, risk identification, risk identification
- Syndicate exercise
- Q&A Session





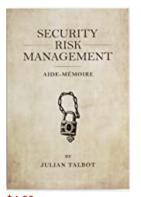
Training Objectives

- Practical & fun
- Less stress (for you)
- Better use of resources (for your organization)
- More funding (for your programs)
- Spot an 'excellent' vs 'not so good' risk assessment in under 2 minutes – and how to fix it

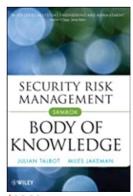
√ Following

Follow to get new release updates and improved recommendations

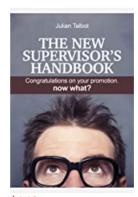
Julian Talbot



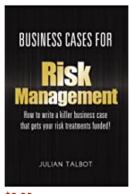
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Julian Talbot CISSP F.ISRM

www.juliantalbot.com











Julian Talbot

- Master of Risk Management
- Fellow of the Institute of Strategic Risk Management
- Fellow of the Risk
 Management Institution of Australasia

- Austrade, Manager Property
 & Security
- Co-founder Citadel Group
- Defence, Finance, Health, Woodside, Malaysian Smelting Corporation
- Motorcycles, adventure travel, distance hiking

"An expert is a person who has made all the mistakes that can be made in a very narrow field."

- Niels Bohr

Julian talbot

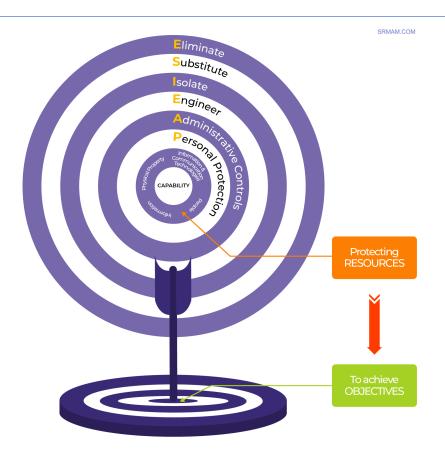
- Julian has 35 years of international management and leadership experience, including over 20 years at Director and C- Suite levels in the commercial, government, and not-for-profit sectors. His credentials include a Master of Risk Management (MRiskMgt), Graduate of the Australian Institute of Company Directors (GAICD), Microsoft Certified Systems Engineer (MCSE), Professional Certificate in Property Portfolio Management, Certificate IV Workplace Trainer and Assessor, and Diplomas in Project Management, Business Management, and Security Risk Management.
- Julian is a Fellow of the Institute of Strategic Risk Management (F.ISRM), Fellow of the Risk Management Institution of Australasia (RMIA), and recipient of the Australian Security Medal (ASM). Julian co-founded the Citadel Group in 2007 and helped grow the company from a start-up to an ASX listed company with 300 employees with a market capitalization of \$400 million.
- After 30 years of industry experience with the last 20 years as a director, Julian works with startups as a mentor and investor, advises large organizations, and works with a range groups including national and international standards organisations, mining and resources, Defence and intelligence, not-for-profit, and government sectors. Julian has lived and worked on five continents, in roles including CEO, consultant, company director, chairman, chief risk officer, chief security officer, operations manager, firefighter, paramedic, soldier, author, and trainer.
- Julian has started or invested in over 20 businesses, published several books, and lived on five continents. Previous roles include:
 - Divisional Manager of the \$250 million ASX listed Citadel Group Ltd
 - · Operations Manager for IMX Resources exploration activities in East Africa
 - · Manager of Property and Security for the Australian Government's most extensive international network (Austrade)
 - Security Manager of Australia's largest resources project (the \$24 billion North West Shelf Project)
 - Senior Risk Adviser for the Australian Department of Health and Ageing
 - · Director and Chairman of CGL, 3 times ranked one of the 20 fastest-growing companies in Australia
 - Director of the Risk Management Institution of Australasia
 - Director of the Australian Institute of Professional Intelligence Officers
 - Director of the Washington, DC-based Security Analysis and Risk Management Association

https://juliantalbot.fyi.to/julian-talbot

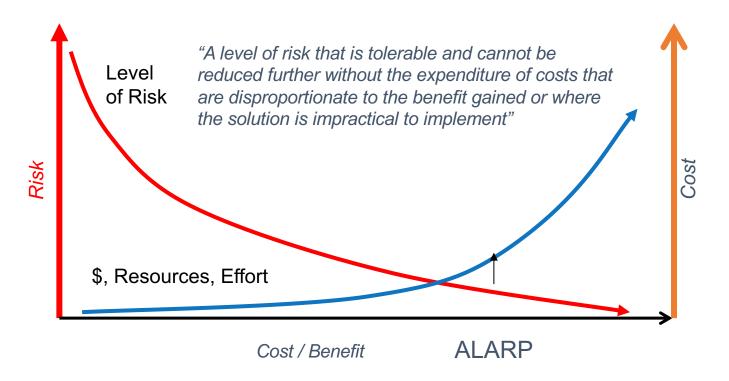




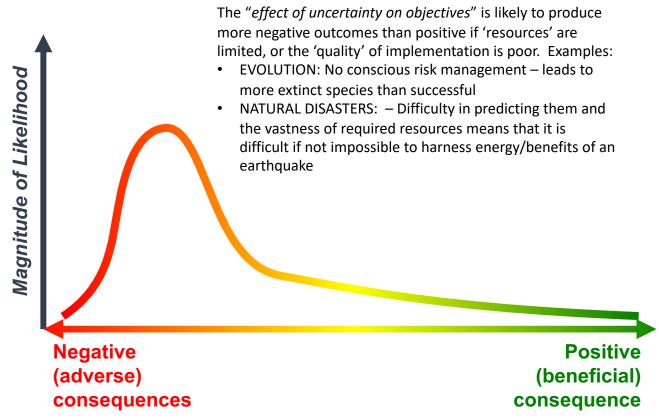
Protection in Depth



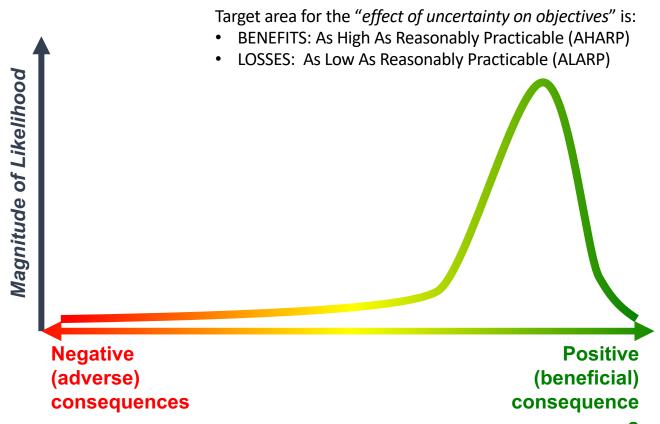
Cost/Benefit of Mitigation



POSITIVE V. NEGATIVE OUTCOMES

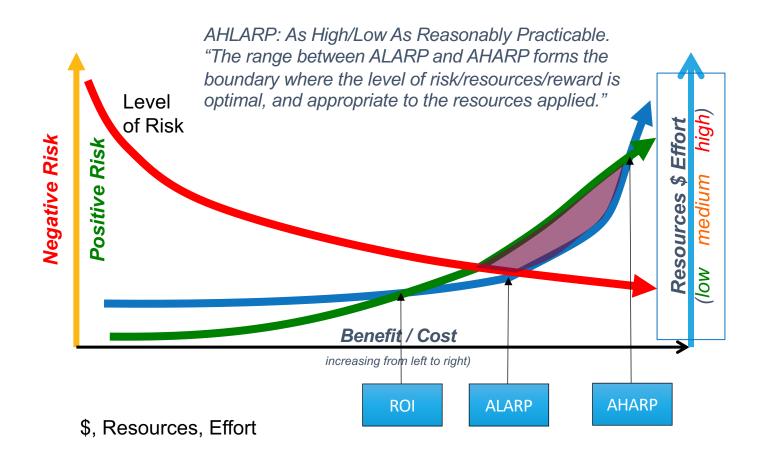


POSITIVE V. NEGATIVE OUTCOMES

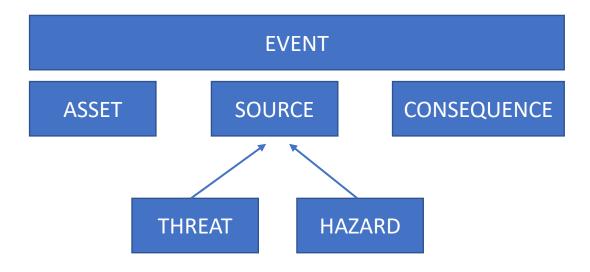


Target area for the "effect of uncertainty on objectives" is: BENEFITS: As High As Reasonably Practicable (AHARP) LOSSES: As Low As Reasonably Practicable (ALARP) of Likelihood Magnitude **Negative Positive** (adverse) (beneficial) consequence consequences

COST/BENEFIT OF MITIGATION



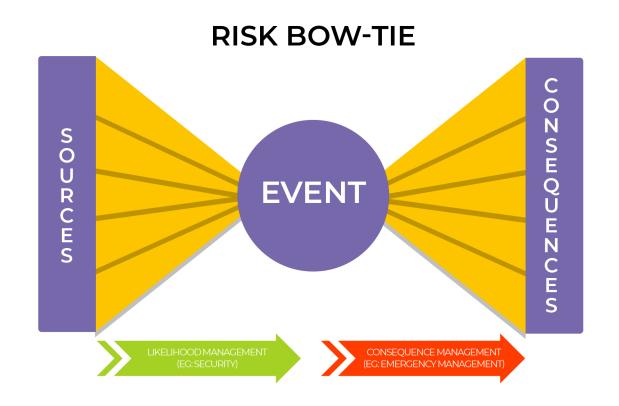
Risk = "the effect of uncertainty on objectives"

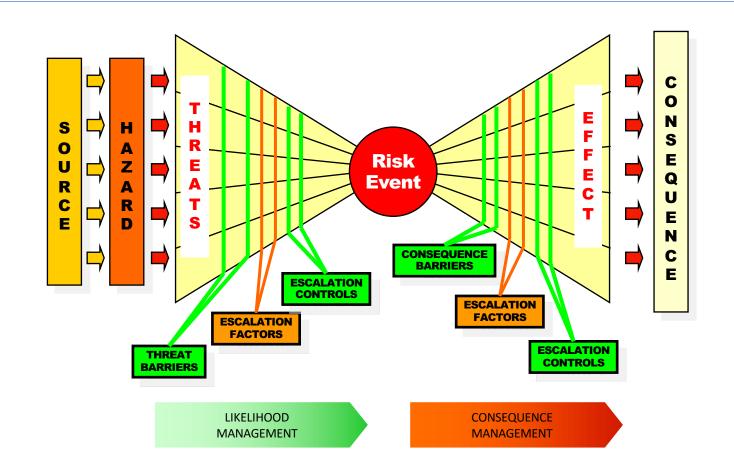


Inherent, Current, Residual





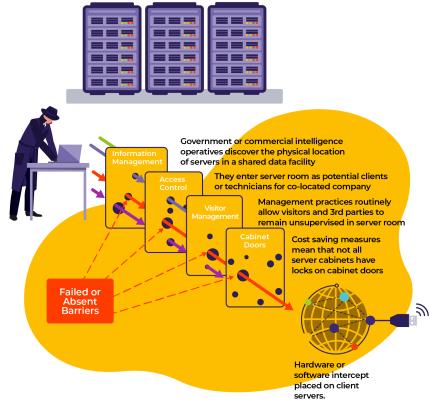




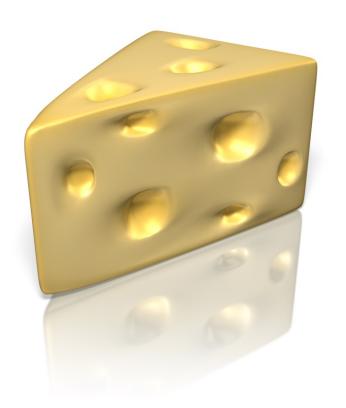
SRMAM.COM

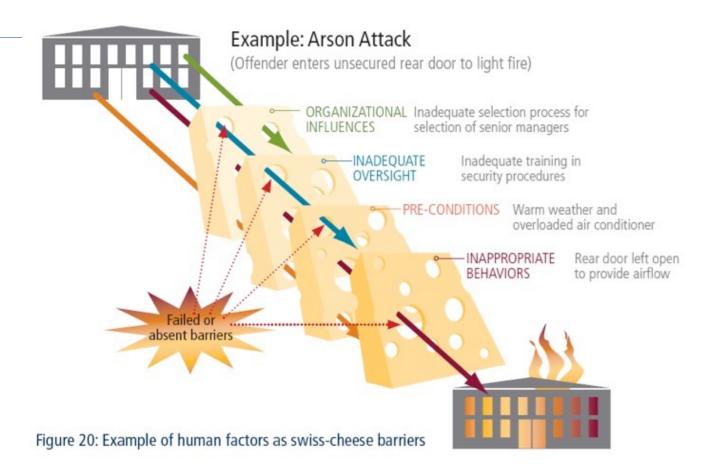
Swiss-Cheese Example

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

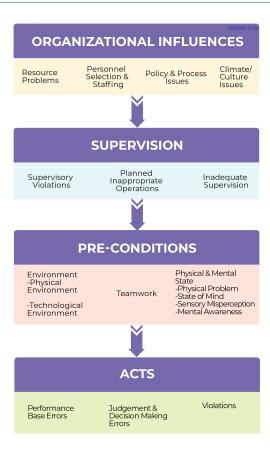


NOTE: Most data breaches occur remotely via software vulnerabilities but a) this is a lot easier example for non-IT people and b) it is (sadly) a real world example. Customer and corporate records compromised.





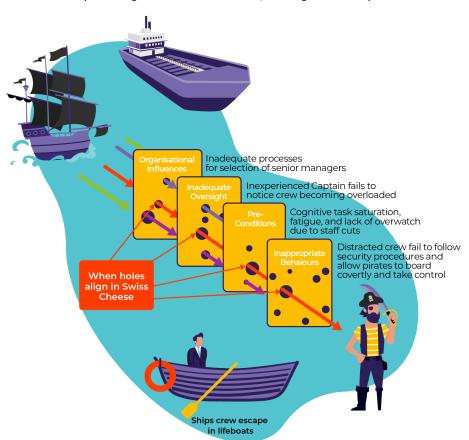
Human Factors Analysis Classification System (HFACS)

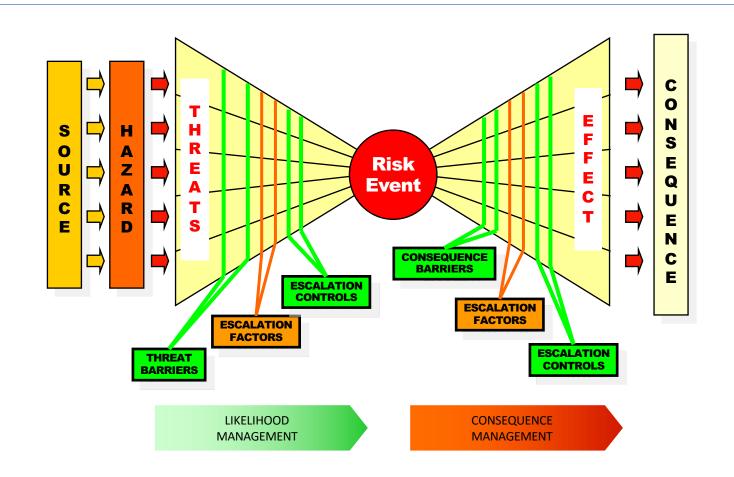


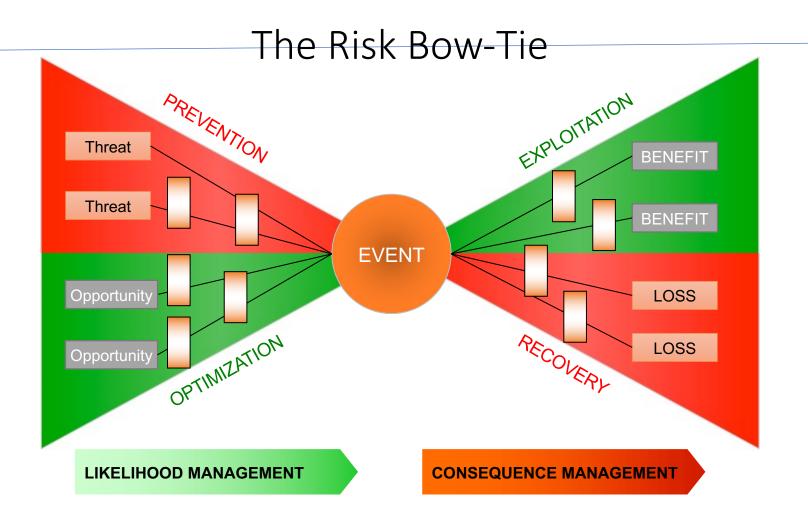
Source: US Dept of Defence

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





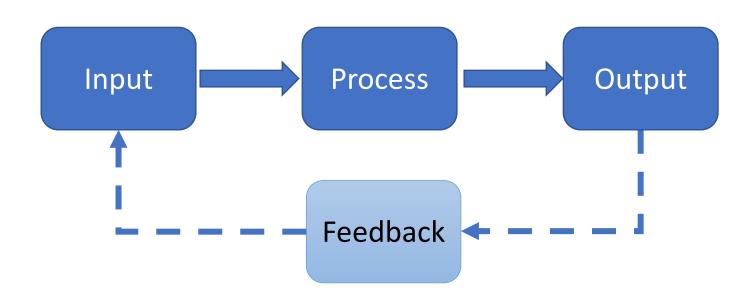




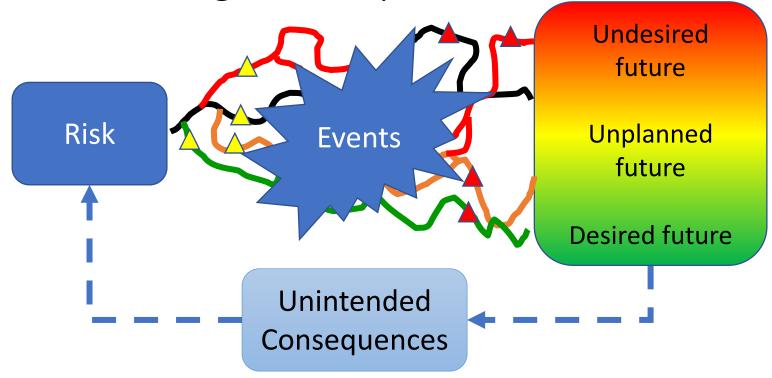
What is management?

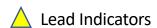
Management is the *efficient, effective* and *economic* use of resources to achieve results with and through the efforts of other people.

How Management Systems Work



How Risk Management Systems Work







Operational Risk Management

MANAGEMENT SYSTEMS

- Policies, Procedures, Protocols, Guidance, Forms, Standards, Codes of Practice
- The why, what, when, who, where and how

ASSURANCE FRAMEWORKS

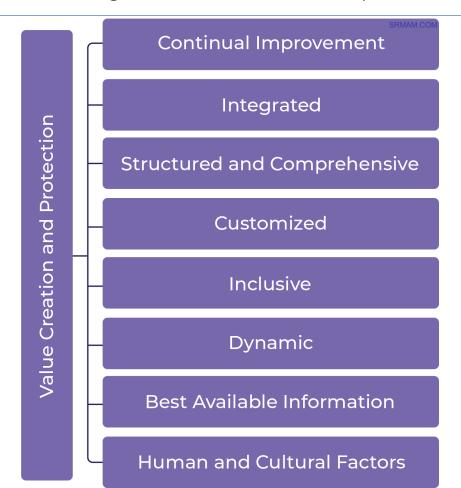
- Training, capability, competency, resources, communication,
- Ensuring there is a capability to execute

COMPLIANCE AND FEEDBACK

- Audits, Photos, Certifications, ICT logs, Incident reports
- Validation and monitoring of management and assurance

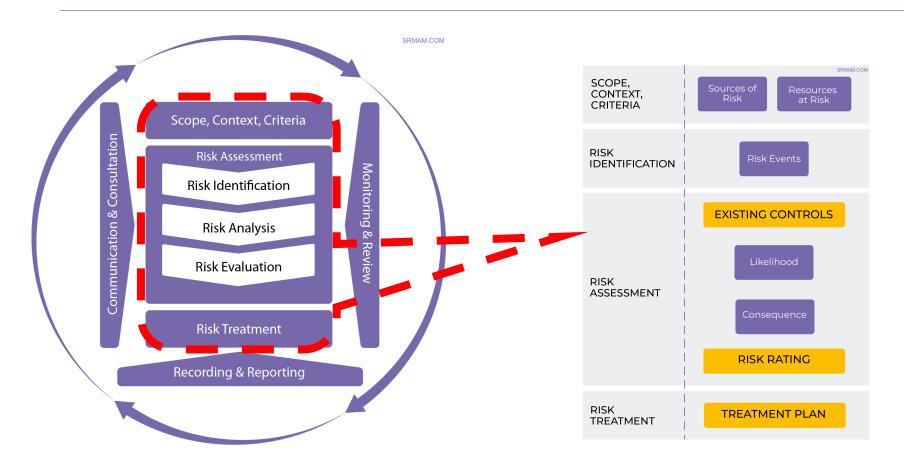


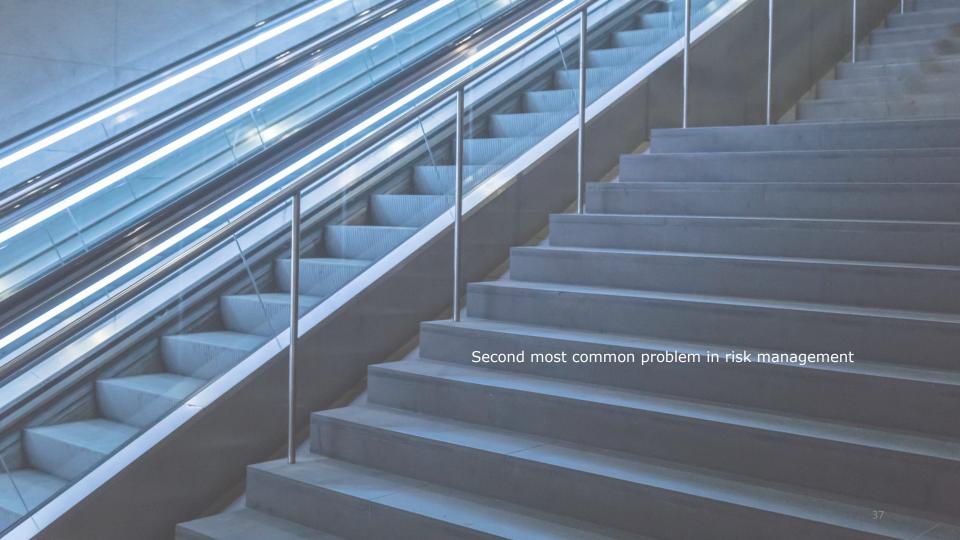
ISO31000:2018 Risk Management Guidelines - Principles



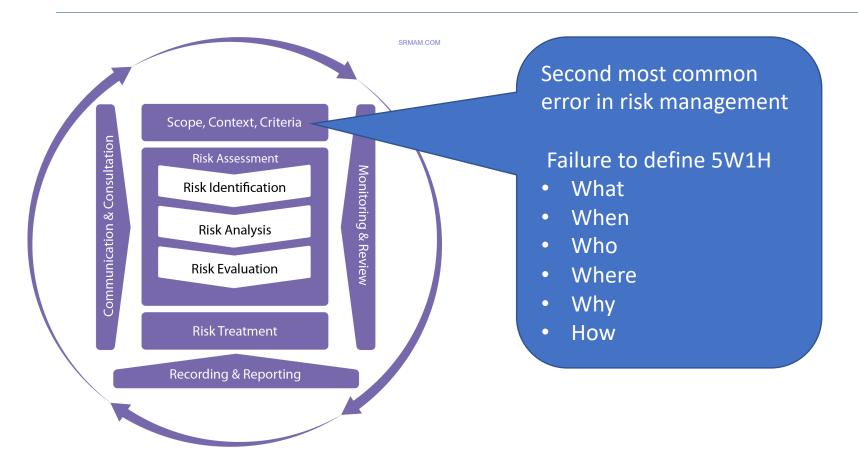


ISO31000 Process





Scope, Context, Criteria



Scope

- Objectives of the assessment
- Objectives and deliverables of the risk assessment
- Timeframe for analysis
- Geographic and virtual locations
- Business unit, group or project being assessed
- Objectives of that group or project

- Constraints and assumptions
- Exclusions disciplines, geography, demographics
- Risk analysis tools and approach
- Resources
- Responsibilities
- Records to be kept
- Relationships to other groups, projects, processes and activities

CONTEXT

External - PESTLE

- Political influences legislation, trade tariffs, policy changes.
- Economic factors, global & local.
- Social influences, expectations, trends, and demographics.
- Technological changes and implications.
- Legal environment & compliance
- Environmental factors such as pollution, climate change, stakeholder expectations, etc.

Internal – MORTAR

- Management systems: policies, procedures, processes,
- Organization: culture, vision, objectives
- Resources: capabilities, cashflow, people, property, information, IP
- Technologies: robotics, information, communication,
- Accountability: structure, ownership, governance
- Relationships: stakeholders, interconnections, dependencies

Context - SWOT ANALYSIS

Turn weaknesses into strengths

STRENGTHS

- What is done well?
- What are the unique resources?
- What do others see as our strengths?

OPPORTUNITIES

WEAKNESSES

- What could be improve?
- Where are there insufficient resources?
- What do others see as weaknesses?
- How can we turn our weaknesses into strengths

- What opportunities are open to us?
- What trends could we take advantage of?
- How can we turn your strengths into opportunities?

THREATS

- What threats could harm us?
- What is our competition doing?
- What threats do our weaknesses expose us?
- What can we do to risk mitigate the threats

INTERNAL Influences

EXTERNAL Influence

Iurn strengths into opportunities

CRITERIA

Score	Rating	Description
5	Effective	Controls are properly designed and operating as intended. Management activities are effective in managing and mitigating risks.
4	Limited improvement needed	Controls and/or management activities are properly designed and operating somewhat effectively, with some opportunities for improvement identified.
3	Significant improvement needed	Key controls and/or management activities in place, with significant opportunities for improvement identified.
2	Ineffective	Limited controls and/or management activities are in place, high level of risk remains. Controls and/or management activities are designed and are somewhat ineffective in efficently mitigating risk or driving effeciency.
1	Highly ineffective	Controls and/or management activities are non-existent or have major deficiencies and do not operate as intended. Controls and/or management activities as designed are highly ineffective in efficiently mitigating risk or driving effeciency.

Score	Rating	Certainty	Frequency		
	Expected	>90 percent	At least yearly and/or multiple occurences within the year		
	Highly likely	<90 percent	Approximately every 1-3 years		
	Likely	<60 percent	Approximately every 3-7 years		
	Unlikely	<30 percent	Approximately every 7-10 years		
	Rare	<10 percent	Every 10 years and beyond or rarely		

Score	Rating		Description of impact					Recovery
		Safety and security	Duration	Organizational and operational scope	Reputational impact	Impact on operations	Financial impact (measured in terms of budget)	Required action to recover
5		Loss of life (staff, partners, general population)	Potentially irrecoverable impact	Organization-wide: inability to continue normal business operators across the Organization.	Reports in key international media for more than one week	Inability to perform mission or operations for more than one month	>5 percent >\$500 million	Requires significant attention and intervention from General Assembly and Member States
4		Loss of life due to accidents/ non-hostile activities	Recoverable in the long term (i.e., 24-36 months)	Two (2) or more departments/offices or locations: significant, ongoing interruptions to business operations within 2 or more departments/offices or locations	Comments in international media/forum	Discruption in operations for one week or longer	3-5 percent \$300 million-\$500 million	Requires attention from senior management
3		Injury to United Nations staff, partners and general population	Recoverable in the shortterm (i.e., 12-24 months)	One (1) or more departments/offices or locations: moderate impact within one or more departments/offices or locations	Several external comments within a country	Discruption in operations for less than one week	<2-3 percent \$200 million-\$300 million	Requires intervention from middle management
2		Loss of insfrastructure, equipment or other assets	Temporary (i.e., less than 12 months)	One (1) department/office or location: limited impact within department/office or location	Isolated external comments within a country	Moderate disruption to operations	<1-2 percent \$100 million-\$200 million	Issues delegated to junior management and staff to resolve
1	Low	Damage to insfrastructure, equipment or other assets	Not applicable or limited impact <\$			<1 percent <\$100 million	Not applicable or limited impact	



EXERCISE

Risk or Issue?

1) Is the following a well-written risk definition?

"Fatigue cracks discovered in already delivered military vehicles may shorten service life unless remedied."

- a) Yes
- b) No

Answer is No: This statement describes an issue, not a risk. There is no uncertainty about the likelihood of occurrence.







ELEMENTS OF POORLY WRITTEN RISK DEFINITIONS



Poorly written risk definitions do not promote understanding or support productive action.

They may confuse risk with cause or consequences, or they may not describe consequences accurately.

E.g., an entity may identify a risk as "inadequate staffing" when in fact the inadequate staffing should be considered a cause/ driver that may pose a variety of risks or consequences such as reduced quality, delays, or even workforce turnover.



The 'CASE' for identifying risks

ICT Governance & Cybersecurity

- Data breach
- Espionage
- Phishing attack



Terrorism is not a risk

- What impact/objective?
- By who/what?
- Against who/what?
- What event/act?



The CASE for Risk Identification

Consequence

• Effect on objectives

Assets at risk

Resources impacted

Source

Threat or hazard

Event

• Incident / act

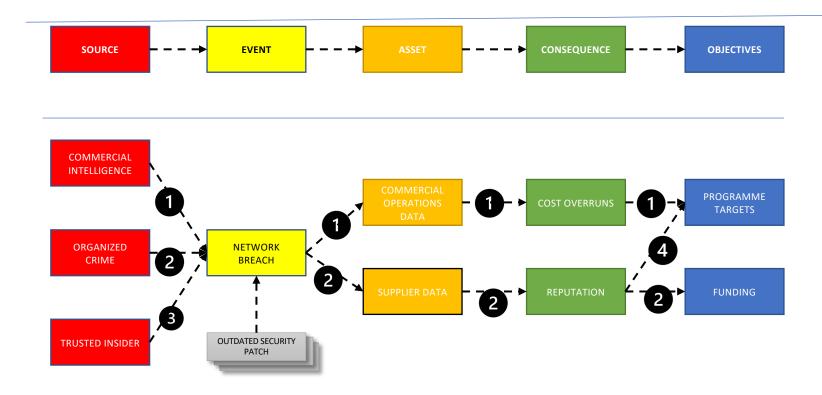


Phishing – Also not a Risk

Phishing attack (EVENT) against our database of commercially sensitive budget and contract information (ASSET)

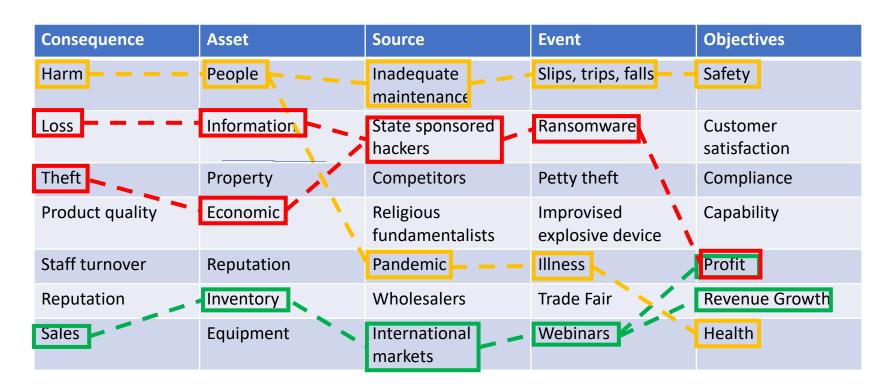
by commercial providers (SOURCE) impacts our negotiating ability, leading to cost overruns on programmes (CONSEQUENCE).





1 Failure to achieve objectives within budget due to commercial intelligence operators breaching network and providing sensitive supplier cost information to their clients (our suppliers).

Identifying Risks from First Principles



EXERCISE



- 2) Which of the following is a well-written risk definition?
- a) Shortage of competent staff to complete program on time.
- b) Failure to achieve project deliverables due to financial overruns as a result of inadequate staffing due to high demand for the required skillset.

Answer is b: The focus of the risk statement should be poor performance/failure to deliver results: Failure to achieve project deliverables (CONSEQUENCE) due to financial (ASSET) overruns as a result of inadequate staffing (EVENT) due to high demand for the required skillset (SOURCE).







Example

- Risk: Loss of operational capability due to the mzungu failing to anticipate the difficulty of finding qualified drivers in a region where most people walk everywhere and live in grass huts.
- Treatment: Bring in a qualified mechanic and some army mates to help develop and deliver a driver training program so that the vehicles will last (a little bit) longer.







Your Risks

- Think about one of your risks (or make one up).
- Write it in a sentence using CASE
 - Consequence
 - Asset
 - Source
 - Event
- Copy and paste it into the chat box
- We will vote on the best one
- Bonus points for humour or improbable risks

CASE OF RISK IDENTIFICATION

CONSEQUENCE

- What is the impact?
- The effect on objectives.

ASSET

- Which assets are involved?
- The resources, entity, or capabilities.

SOURCE

- What is the source of the risk?
- The threat(s) or hazard(s).

EVENT

- How is the risk likely to manifest?
- The incident, act, or mishap.

RISK MANAGEMENT CONTROLS

MANAGEMENT SYSTEMS

- Policies, Procedures, Protocols, Guidance, Forms, Standards, Codes of Practice
- The why, what, when, who, where and how

ASSURANCE FRAMEWORKS

- Training, capability, competency, resources, communication,
- Ensuring there is a capability to execute

COMPLIANCE AND FEEDBACK

- Audits, Photos, Certifications, ICT logs, Incident reports
- Validation and monitoring of management and assurance

4C'S OF RISK FINDINGS & OBSERVATIONS

CONDITION

- What is happening?
- Observable artefacts.

CRITERIA

- What should be happening?
- The policy, procedure, requirement or best practice.

CONSEQUENCE

- What is, or will be, the outcome?
- The impact on objectives

CAUSE

- What is the cause of this situation?
- The underlying systemic root cause.

4AS OF RISK TREATMENTS

ACTIONABLE

- Is it clear what to do?
- Specific, measurable and time bound.

ACHIEVABLE

- How will you know when you have done it?
- Metrics for success, ideally binary with a yes/no gate.

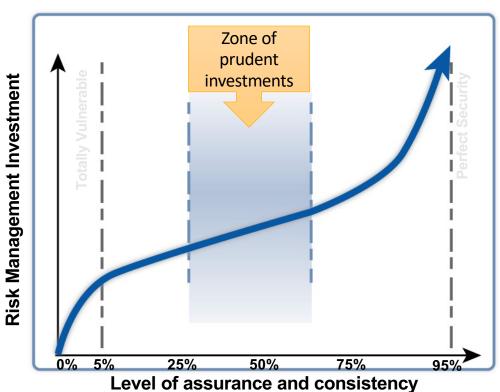
APPROPRIATE

- Does it address the root cause?
- Address underlying cause, not the immediate issue.

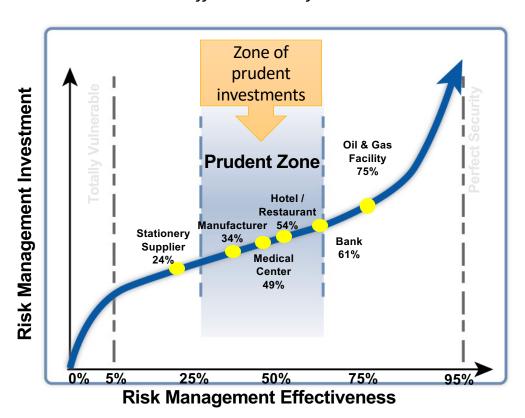
AGREED

- Do the review team and risk owner support this?
- Supported by management and adequate resources.

Investment vs. Effectiveness of risk treatments



Investment vs. Effectiveness of risk treatments





Other Training

1 Hour

1 Day

3 Days

5 Days

- Risk Assessment
- Risk Treatment
- Risk Management
- Enterprise Risk Management

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ISO31000 Risk Management Standard (Webinar)

Tue, Sep 13, 2022 5:15 PM AEST



Save time and improve profits with risk management software (Webinar) Wed. Sep 14, 2022 5:15 PM AEST



An Introduction to SRMBOK (Webinar)

Mon, Sep 19, 2022 5:10 PM AEST



ISO31000 Risk Management Standard (Webinar)

Tue, Sep 20, 2022 5:15 PM AEST



Risk Management 101 - The Fundamentals Fri, Sep 23, 2022 8:30 PM AEST



Risk Management Coaching and Mentoring
Mon, Sep 26, 2022 12:30 PM AEST



Risk Management 101 - The Fundamentals Mon, Sep 26, 2022 3:00 PM AEST



SRMBOK Security Risk Assessment (Virtual Training)

Tue, Sep 27, 2022 9:00 AM AEST Starts at A\$150.00



ISO31000 Risk Management (Virtual Interactive Training)

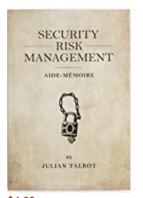
Wed, Sep 28, 2022 9:00 AM AEST

Starts at A\$100.00

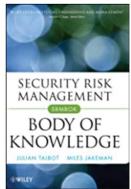
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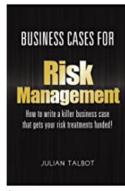
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