

INSURANCE MANAGEMENT

MARIM INTERNATIONAL CONFERENCE 2023 UNCOVERING NEW FRONTIERS IN RISK & RESILIENCE

11 & 12 September 2023 The Waterfront Hotel, Kuching

Parallel 2: BCM & Crisis Management

Add Value to your Business through Effective Risk Management

Khairulanwar b. Abd Hamid Advisor & Facilitator Risk Management Tenaga Nasional Berhad





ADD VALUE TO YOUR BUSINESS THROUGH EFFECTIVE RISK MANAGEMENT

KHAIRULANWAR ABD HAMID

MARIM CONFERENCE | 11 SEPTEMBER 2023





HOW BOEING LOST ITS WAY? By QuickTake, Bloomberg



https://www.bloomberg.com/news/videos/2020-03-12/the-story-of-how-boeinglost-its-way-video

- respectively due to malfunction sensor. 346 victims.
- (March 2019 Dec 2020).
- reduction.

- and promising to tighten up its compliance procedures
- production rates.

Risk events

Recurrence of Boeing 737 Max crash incidents (Ethiopian Airlines Flight 302) on 29 Oct 2018 & 10 March 2019

Boeing 737 Max grounded by authorities for 20 months

Deteriorate engineering excellence in prioritizing cost

Impact

In January 2021, the US charged Boeing with fraud. But the company was able to avoid going on trial, by agreeing to pay \$2.5bn, including \$500m to the families of those killed,

Boeing targets 2025 for return to pre-crisis 737 MAX

Why is risk management important?

Assurance to shareholders on effective risk management MCCG's Principle B states that proper risk management and internal control are important aspects of a company's governance, management and operations

Guide for informed decision making Risk management and data analytics can guide management and employee in making informed decisions that will help meet and exceed company objectives

3

Manage unexpected risk events Timely implementation of risk mitigations are crucial to manage unexpected risk events

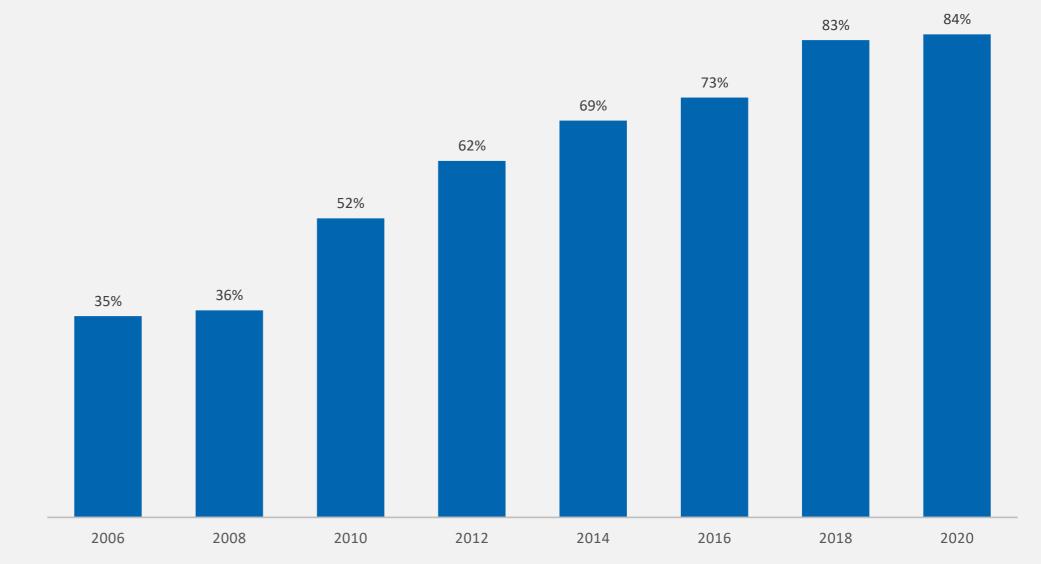
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Enhance effective project management Effective management of project risks reduces the likelihood and impact of common project problems / issues

Increasing trend of **ERM program** adoption for companies is observed from 2006 until 2020

Does your organization have an enterprise risk management program or equivalent?

Percentage responding "Yes"



Source: Deloitte Global Risk Management Survey 12th Ed, 2021 Survey participants: CROs or their equivalents at 57 financial services institutions around the world

Many companies are having difficulties to effectively apply ERM



Concerns regarding application of risk management

Insight & risk	
transparency	

Risk appetite & strategy

Informed decision

Risk governance

Risk culture

- Unclear risk appetite (on desired risk level)
- No explicit decisions on risk ownership
- Risk analysis is not part of key decision-making processes
- ERM team struggles to enforce risk framework, policy to line management ERM is a bureaucratic exercise
- Risk culture is a "fuzzy" concept



• Reporting of hundreds of risks without insight - Unable to anticipate and respond to **high impact** risks

Key Success Factor For Effective Risk Management

Leadership & commitment

Clear tone for a constructive risk culture, promote organization-wide risk management, clear risk appetite, align risk management with strategic planning

Risk Culture

The mindsets & behaviors of individuals and groups within an organization to identify, understand, discuss and act on organizations risks

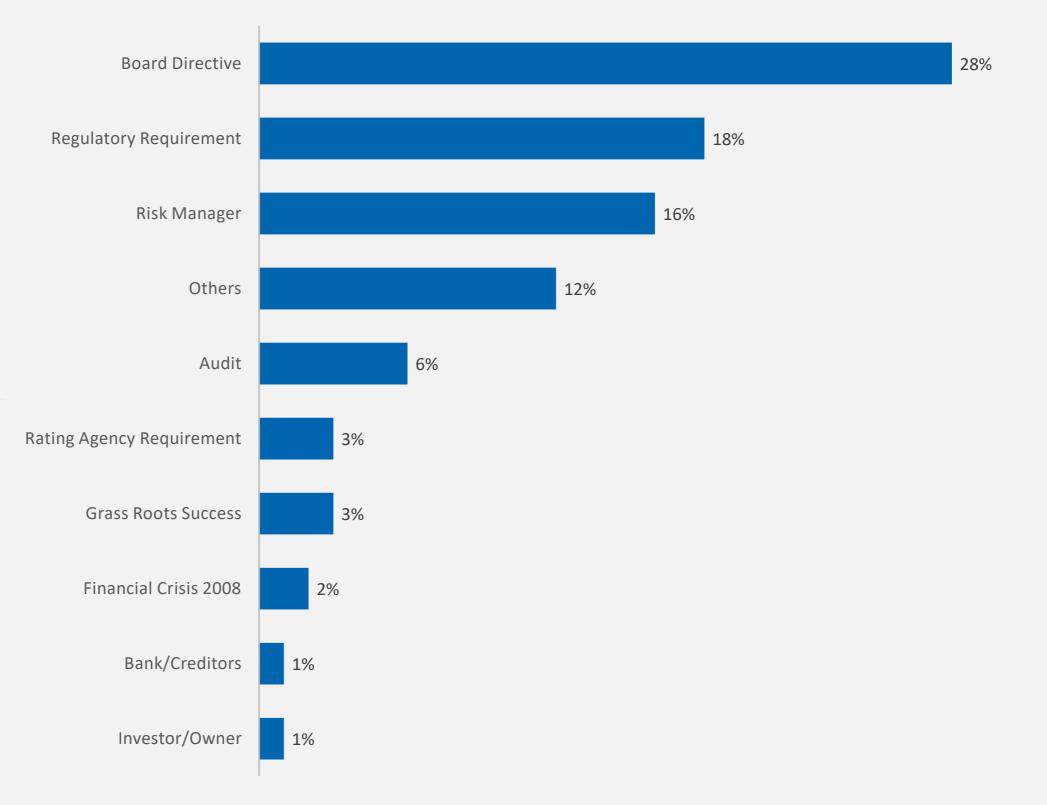
Risk Governance

Establish a welldefined governance structure for ERM that outlines roles, responsibilities, and reporting lines. This structure ensures accountability and ownership of risk management activities



Reporting & Insight

Reporting risks to top management with transparency and insights allows leaders to make informed decisions and proactively address potential threats What motivated the implementation and/or expansion of the enterprise risk management (ERM) program at your organization?



Source: 2017 ERM BENCHMARK SURVEY by RIMS Participants: 397 respondents from more than 14 different industries

9

Key Success Factor #1: Leadership & Commitment

The Board in the governance of risk is to provide oversight of the company's risk management and internal controls system, while the management shall implement and monitor the risk management and internal control systems.

Risk Governance Guidance for Listed Board, Corporate Governance Council (2012)

The board is provided with reasonable assurance that adverse impact arising from a foreseeable future event or situation on the company's objectives is mitigated and managed

Ensure there is a sound framework for internal controls and risk management

Understand the principal risks of the company's business and recognise that business decisions involve the taking of appropriate risks

Set the risk appetite within which the board expects management to operate and ensure that there is an appropriate risk management framework to identify, analyse, evaluate, manage and monitor significant financial and nonfinancial risks

Malaysia Code of Corporate Governance, 2021

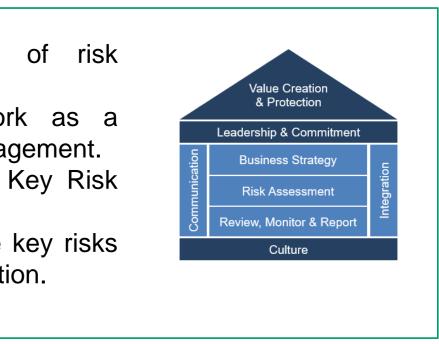
In TNB, The Board and top management plays an important roles for effective implementation of risk management

Board Risk Committee

- Provide oversight on the implementation of risk management and internal control.
- Approve TNB Risk Management Framework as a structured and consistent approach to risk management.
- Approve TNB's risk appetite reflective in the Key Risk Indicators (KRI).
- Monitor the company's risk exposures and the key risks that could prevent achievement of TNB's aspiration.

TNB Management

- Identify and manage risks that can preachievement of TNB's aspiration
- Anticipate and respond to risks resulting from c the internal and external context
- Communicate risk information through a clear a monitoring and reporting structure
- Integrate risk management in key processes and making.



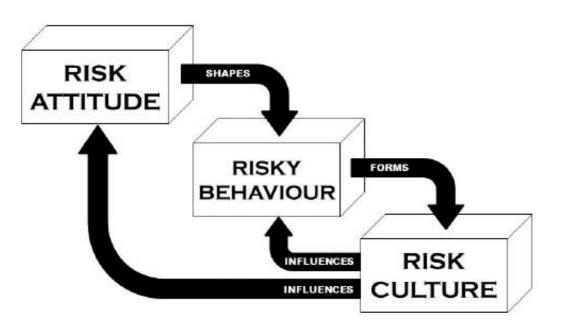
event the	TINAGA TNB RISK MANAGEMENT POLICY
hanges in	We are connibled lowerth effective risk management hrough the implementation of the TNB Risk Management Promovolk for the achievement of our objectives. All TNB employees are accountable and responsible to manage risk, which is the effect of uncertainty on objectives, by managing talk and opportunity in alignment to objectives; a prolocating and responding to objective resulting from changes in internal and
and robust	external context; • integrating tak management in all activities and decision-making; • communicating mits internation through a clear and robust monitoring and reporting structures, and, • continuely improving the sublability, adrepancy and effectiveness of rok management;
d decision	The believe holds: assessment and effective management of our risk will result in informed decision-making to create and protect our value. "BETTER HORLD. ERRENTER LIVES."
	Datuk Iv. Baharin bin Din President / Chief Executive Officer April 2021

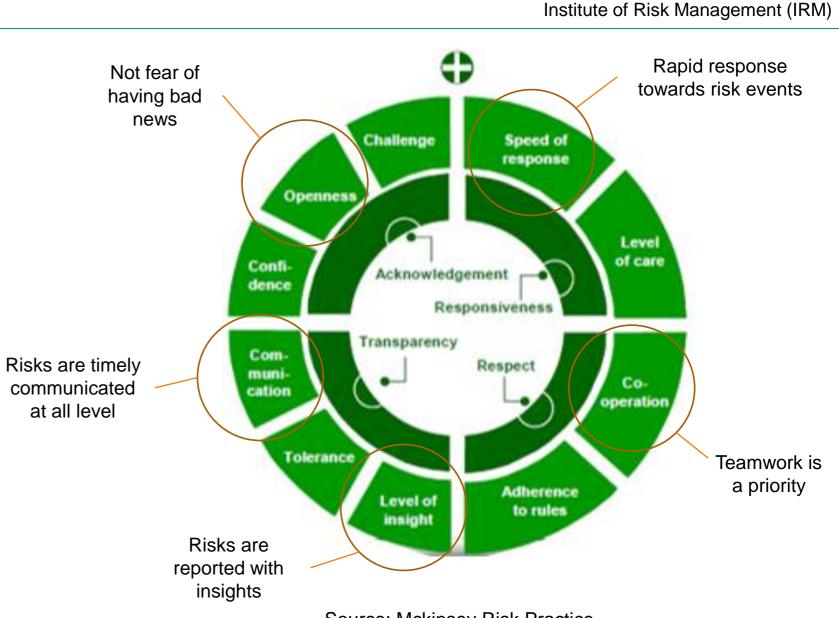
Key Success Factor #2: Risk Culture

Risk Culture: Values, beliefs, knowledge, attitudes and understanding about risk shared by a group of people with a common purpose.

Why is risk culture important?

Risk Culture aids the transition from mere compliance to something that creates value for an organization.





Source: Mckinsey Risk Practice

Integration of risk management with the strategy and values of the organization

Implementation of the risk management process within the day-to-day business as usual processes

Recurrent training and induction program

Strenghtening the organizational structure of risk management

Process of instilling accountability

Effective and measurable communication strategies

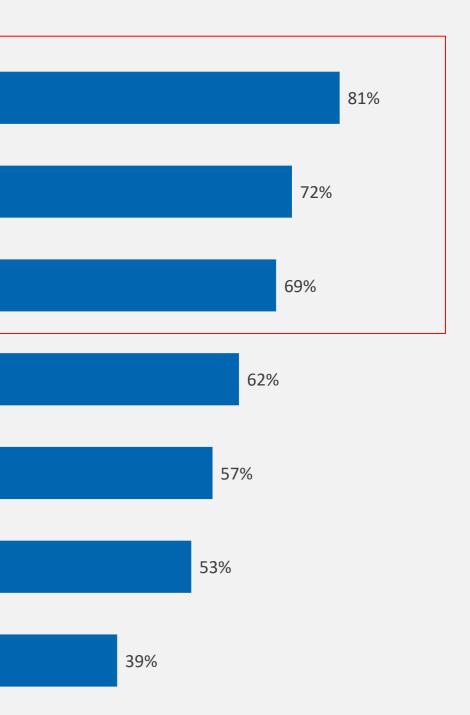
Sponsorship and interest in promoting risk management from senior management

Others

7%

Source: Marsh RIMS Excellence in Risk Management, 2018 Participants: 450 risk executives through online survey

What strategies do you find necessary to transform the culture of your organization to be risk management oriented?



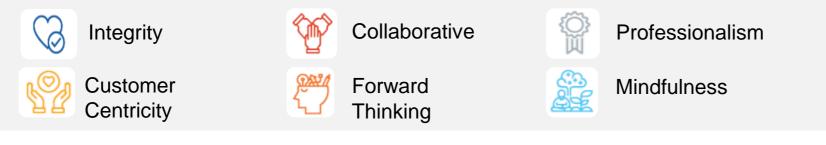
Incorporating risk management into daily operations and consistently educating and training are vital for fostering a risk culture

Integration of risk management with the strategy and values of the organization Implementation of the risk management process within the day-to-day business as usual processes

TNB Strategic Risk & Key Risk Indicators alignment with Reimagining TNB strategy.

2

- 2. TNB 3-Year Cycle Risk Governance Plan for risk management assurance.
- 3. TNB Culture alignment:



- 1. Integration of risk management in division/department/subsidiary Business Plan, Annual Operating Plan (AOP) and budget.
- 2. Investment Risk Methodology (IRM) for local & oversea investment.
- 3. Risk assessment for digital initiatives through Change Advisory Board (CBA).
- 4. Risk assessment incorporated in work processes, e.g., procurement process, project/initiatives approval, HIRADC, RCM, etc.
- 5. Risk Governance Plan by division/department/subsidiary .

Corporate

Recurrent training and induction program

- Risk Management courses at ILSAS:
- a) Fundamental

3

1.

2.

3.

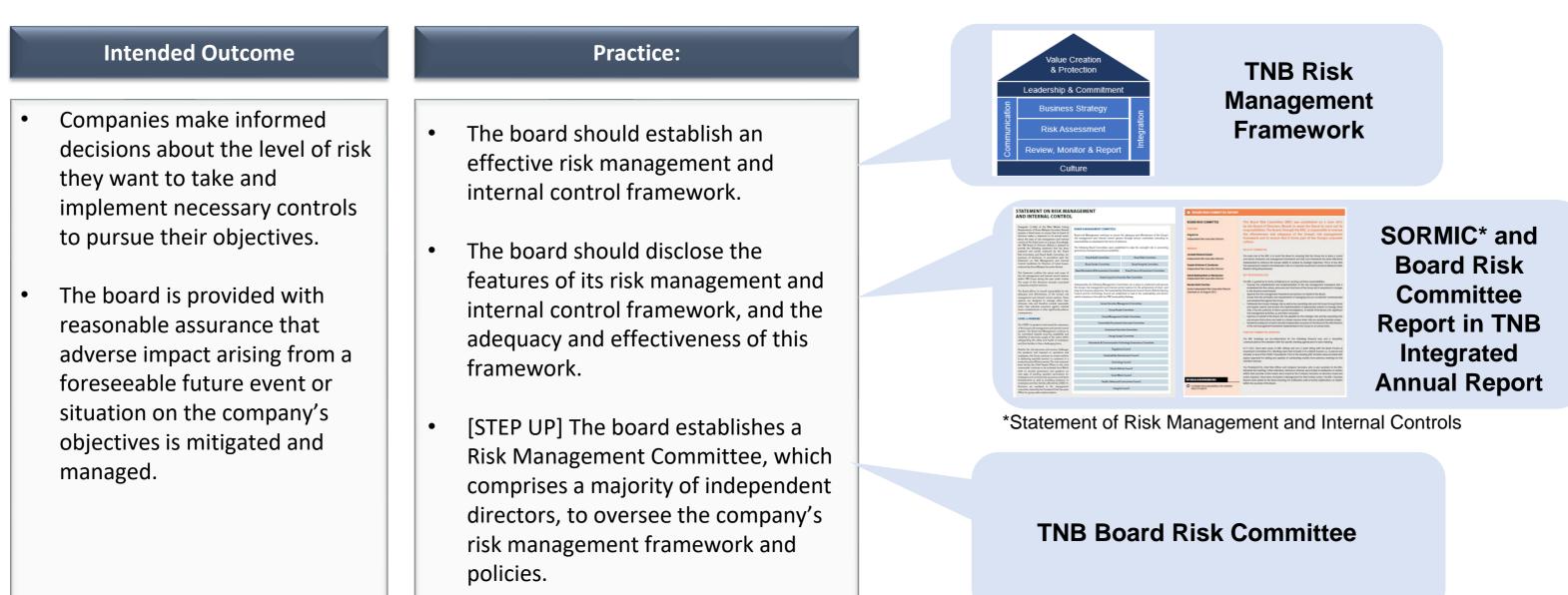
5.

6.

- b) Intermediate
- Risk management E-Learning module for all executives
- Risk Management Certification program with ARIMM
- 4. Annual Risk Management Survey for executives and non-executives to gauge perception of employee on risk management
 - Learning Journey for Risk Managers
 - Risk Conference (Executives) and Risk Forum (Non-Executives)
 - Risk management webinars

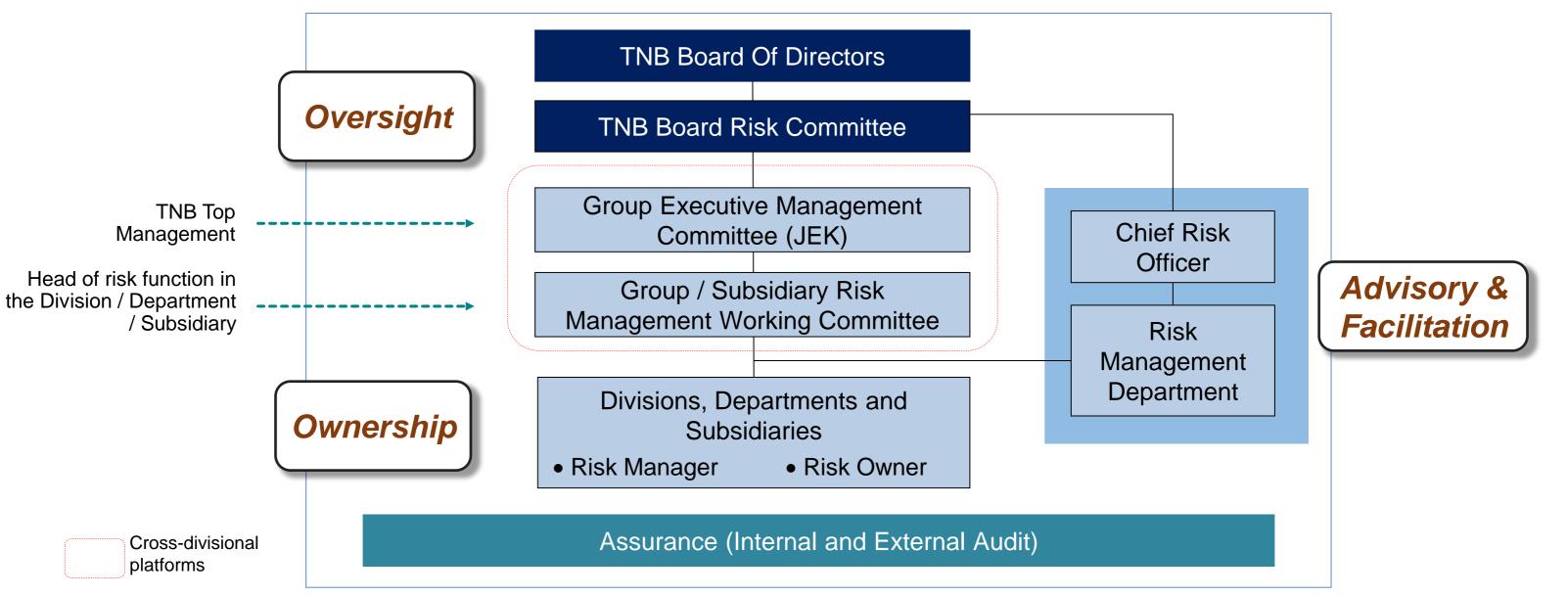
Key Success Factor #3: Risk Governance

MCCG's Principle B states that "proper risk management and internal control are important aspects of a company's governance, management and operations"



Key Success Factor #3: Risk Governance

Each party in the TNB Risk Governance Structure plays its role in ensuring a sound and robust risk management framework is implemented across TNB Group



TNB Risk Governance Structure

Key Success Factor #4: Reporting & Insight

Reporting risks to top management with transparency and insight is a crucial practice for any company. It allows leaders to make informed decisions and proactively address potential threats

Transparent & Insightful report

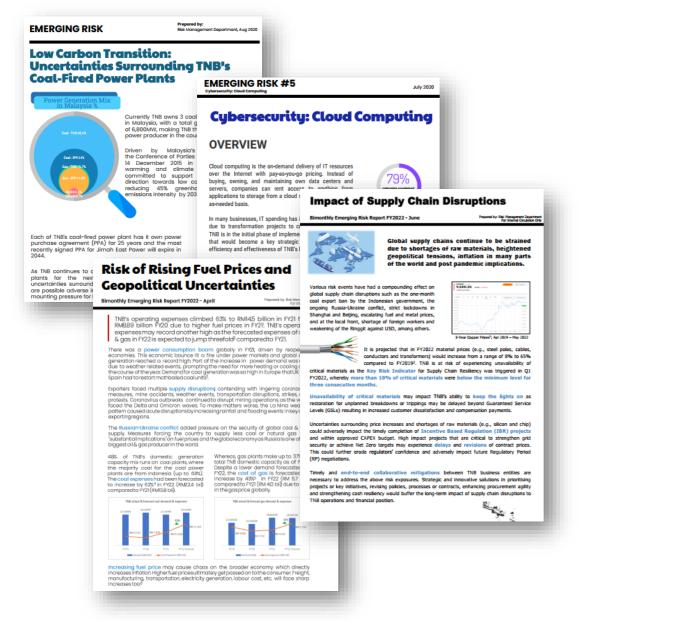
Informed Decision-Making: Transparent and insightful risk reporting provides top management with accurate information, thus empowers them to make well-informed decisions that align with the company's strategic goals and risk appetite.

Regular Reporting Cadence: Establish a consistent reporting schedule, whether it's monthly, quarterly, or annually. Regularity builds the expectation of transparency and keeps management engaged in risk management efforts.

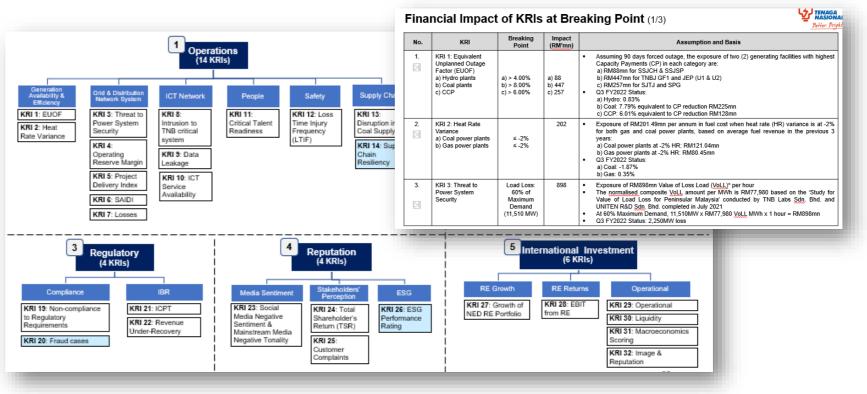
Quantitative Analysis: Whenever possible, use quantitative data to support risk assessments. Numbers and metrics can provide a more objective understanding of risks and their potential consequences.

Leverage Technology: Utilize risk management software or tools that facilitate data collection, analysis, and reporting. These tools can help streamline the process and enhance the quality of insights.

Key Success Factor #4: Reporting & Insight



Bi-Monthly Emerging Risk report to provide top management insights on emerging risks around the world.



- 32 Key Risk Indicators (KRIs) are reported to CEO (monthly) and BRC (quarterly) on company's risk exposures. Additionally, 22 KRIs are deliberated at working level (GRMWC)
- Quantitative analysis (commercial impact) were reported for selected KRI a more objective understanding of the exposures.

	Area	Element	Threshold Threshold Level 1
COUNTRY	Economic	GNI per capita	GNI < USD8,000 per capita
		Country credit rating	BB+, BB, BB-, B+, B, B-, CCC+ and below
		Inflation rate	Inflation ≥ 6% or ≤ 0%
		GDP Growth	GDP Growth ≤ 3% or ≥ 7%
	Political	Political Violence Political Interference Corruption perception index	Medium High / High / Very High risk Medium High / High / Very High risk Score ≤ 40
	Legal	Rule of Law Index Contract Enforcement Index	Score < 0.40 Score ≥ 1.5
	Government of Host Country	Government Effectiveness	Score < 50
		Regulatory Quality	Score < 50
	Security	Global Peace Index	Score > 2.20
	-	Global Terrorism Index	Score ≥ 4.00
	Forex Policy and Stability	Exposure due to volatility of forex between currencies (to MYR)	Volatility > 5.4%
	Interest Rate	Exposure due to the volatility of interest rate	Volatility > 108%
	Foreign Investment	Foreign Investor Confidence / Sentiment	Avg 5 Year Net Financial Accounts less than (-)USI
	Taxation	Exposure to double taxation on investment income	No Double Tax Agreement in place
		Withholding Tax rates for interest	WHT ≥ 10%
		Withholding Tax rates for dividends	WHT ≥ 10%
	Cash Repatriation	Capital Control Policy	Capital Control Policy in Place with no Investment G Agreement
	Capital Market Structure	Access to Debt / Liquidity of Capital Market	% of Private Debt to GDP < 132%



Key Takeaway

2

3

4

Assurance to shareholders on effective risk management

Guide for informed decision making

Manage unexpected risk events

Enhance effective project management



"

Companies that are able to link business risks with their strategic imperatives are more likely to have achieved an annual profit margin of greater than 10% over the past three years, and better profit margin growth"

> Risk in review: Decoding Uncertainty, Delivering Value | PwC | 2015 Survey by 1,229 senior executives and board members





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Cutting Edge Risk Management – Al Adoption and Digitalization of the Business Continuity & Crisis Management Programme

Alessandro Caillat Senior Financial Officer World Bank Treasury





MALAYSIAN ASSOCIATION OF RISK & INSURANCE MANAGEMENT

UNCOVERING NEW FRONTIERS IN RISK & RESILIENCE

September 11 2023, The Waterfront Hotel Kuching

Alessandro Caillat, FBCI Senior Financial Officer | World Bank Treasury

DIGITALIZATING THE BUSINESS CONTINUITY AND CRISIS MANAGEMENT PROGRAMME





About Me

- I'm Alessandro Caillat, please call me Alex.
- I'm from Italy. I work for World Bank Treasury. I have been with the Institution for almost 15 years.
- Since August 2021, I live and work in Singapore.
- I am the team lead for Treasury's work programs on **Business Continuity and Access Controls.**
- Fellow Member of the Business Continuity Institute, Certified Trainer with the Institute, and ISO22301 Lead Implementer.



The World Bank Group works with more than 170 countries, engaging with the public and private sectors. The goal to end poverty and tackle some of the most pressing development challenges.



- World Bank Treasury activities are organized in three departments.
 - US\$ 60billion.
 - and other official-sector investors.
- Large and significant player in the international financial markets. 70 year of reputation as a global, prudent and innovative borrower, investor, and risk manager.

 Capital markets. leading the World Bank's funding program in international markets, with an annual average issuance around

 Asset management. Managing more than \$185 billion in assets for the World Bank

 Operations supports business units with payments and cash flow management needs, totaling over \$7 trillion each year.



Opportunity Statement

The business environment of the last few years has become more disruptive and challenging. This is the polycrisis world.

A cluster of related global risks with compounding effects and significant impacts on governments, society, people and organizations. Digital transformations undertaken by many organizations is rapidly changing their IT environment and operating models.

Integration of digital technology into all areas of a business fundamentally changes how businesses operate and deliver value. Despite guidance from professional bodies, academic research, and significant corporate investments in GRC tools, business continuity management programs at most organizations remain largely manual and siloed.

3

Clear opportunity for risk managers to embrace digitalization.

Business Continuity software provides the tools and capabilities to holistically support a business resilience program.



Treasury's Experience with BC Software

RFP to assess the available tools with integration between business continuity and operational risk management.

Adoption of a SAAS solution for the entire World Bank Group. Solution implementation to support Treasury's entire BC program.

Late 2010s

Mid 2010s

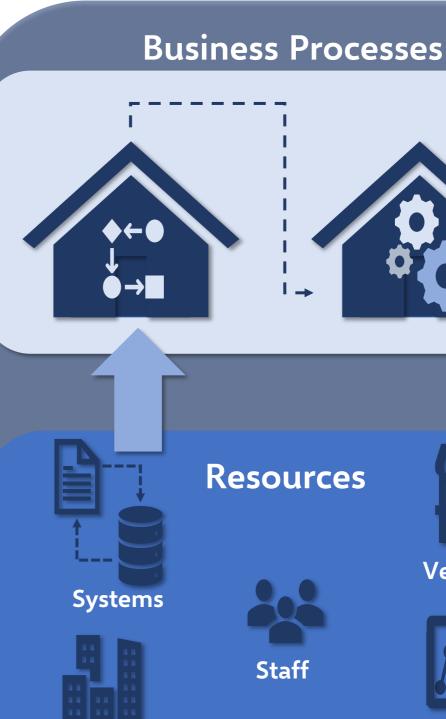
BC module developed within corporate GRC tool. Solution included BIA, BPCs and approval workflows, with limited analytics capabilities. Early 2020s



BC Software - A Data Model of the Organization

- A business continuity software provides a digital representation of how, within an institution, business processes are organized and structured.
- The data model defines data entities: business processes, business continuity plans, resources (systems, sites, vendors).
- Software helps identifying and documenting relationships between processes, supporting resources and plans.

 Logical rules governing data integrity and consistency across the model.



Sites



Vendors

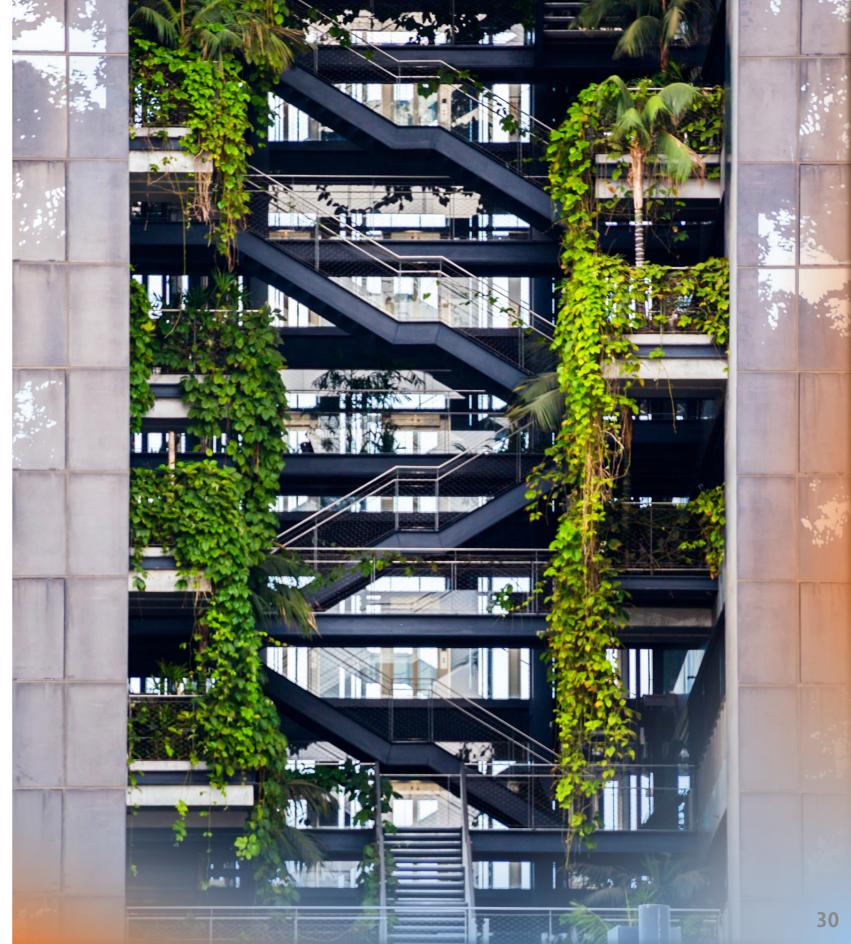


Data and Reports

D S S \bigcirc 0 uity Plans

Resources and Attributes

- Site where the process is being executed is considered a Resource or an Entity.
- With defined Attributes:
 - Number of staff at location supporting each business process.
 - Capacity of process execution. An estimate of how much time staff is supporting the process (%).
 - Volume of transactions at the site (%).
- Tool enhances the Business Impact Analysis by modeling the relationships between processes and key resources (Sites, Systems and Vendors), with own specific sets of attributes.



Business Continuity Metrics

- For each process, software can assign the MTPDs, **RTOs and RPOs.**
- Calculates the lowest metric for the associated resources supporting several processes.
- **Generates reports summarizing the BC metrics** calculations and key findings associated to the resource attributes.
- Helps identify vulnerabilities, single points of failure, and concentration risk.
- Facilitates communication of BC requirements to management and stakeholders (Information **Technology, Procurement, Risk Management).**

MARIN

MARIM **Mitigation Factors**

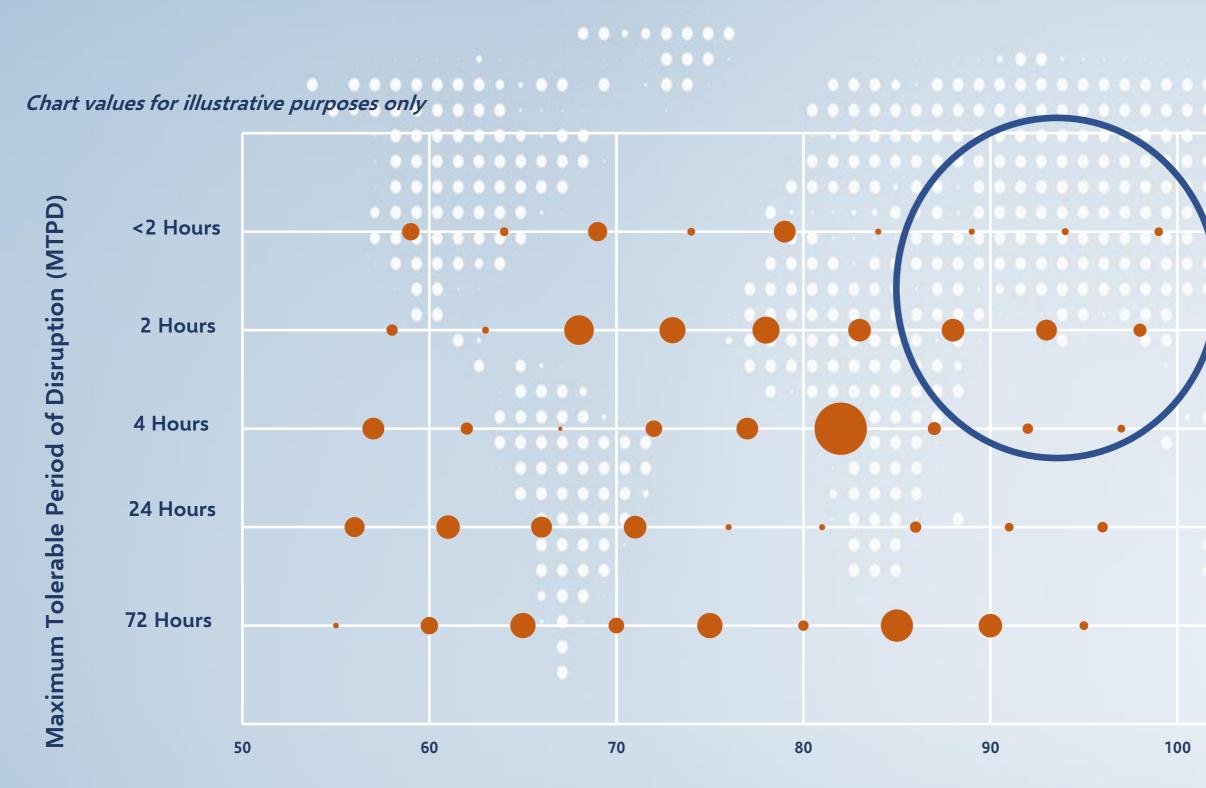
- Software evaluates mitigation strategies already in place by the Institution:
 - Alternate location
 - Remote work capabilities
 - Supplemental workforce (locally or across sites)
 - Cross trained Staff with appropriate authority and access to systems
 - Documented recovery procedures and regularly exercised
- Inherent Risk. Software evaluates the amount of risk that exists in the absence of mitigation measures.
- Residual Risk is the amount of risk that remains after the assessment of the implemented mitigation measures.



- Risk indexes determine the overall risk associated with specific business processes.
- Index algorithm includes process dependencies, MTPDs, impact thresholds, (Financial, Reputational, Operational), and mitigation factors.
- The software assigns risk scores to each business process. The score, expressed as a number between 0 and 100, represents a risk score (Inherent and Residual) for the process.
- With risk indexes, BC managers can prioritize their work-program on the most critical areas of their organization.



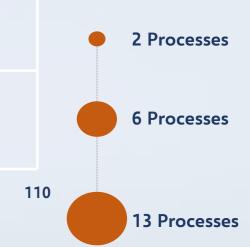




Residual Risk Index (0-100)

Software offers data visualization tools such as charts, graphs, and heatmaps to visually represent dimensions and metrics.

Through data analysis, decision-makers have the ability to identify high-risk processes (concentration or point of failure) and prioritize them for mitigation efforts.



Business Processes and Plans

- procedures.
- plans.

MARIM

Software offers a centralized platform for creating and maintaining business continuity plans at the business process level.

 Provides templates and tools for generating comprehensive business continuity plans and step by step

 Central repository for storing all relevant documents and information related to the business continuity

 This includes contact lists for staff and teams, recovery resources, and other critical elements for the business response.



Streamlines the process of managing business continuity plans, supporting organizations through the entire incident lifecycle.

Business Processes



Incident Details:

Procedures

Incident Activities, Milestones and Logs

Key Contacts

Detailed Incident Report, gaps and action items.

Incident Dashboard

Unavailable resources and impacted processes

Software invokes Incident BC Plans and Recovery

Incident **Management Team** RTOs & **RPOs**

MARIM **AI News Sourcing Tool (Proof of Concept-POC)**

- The monitoring of external events, given their constant changing and complexity, is challenging for any institution.
- Capacity constraints, when dedicated staff need to manually scan news sources for relevant threats.

	WORLD BANK GROUP		≡	
	E	OPM		
		News Room DC Gov		
	¥	Trusted Users		
	y	Trending Topics		
	NEWS	TOPICS		
	÷Ģ:	Weather		
		Traffic		
		Demonstrations and safety		
	돠	Cyber Incidents		
		Cyber Incidents		
		System Outages		
		Financial Institutions		
		Banking		
The White H		6/6/23, 4:45 PM		

Google News Tweets



Thales and 10

French cyber

platform to

resilience

partners launch

support greater

autonomy and

As the information

systems of today's

ever more complex

and exposed to

cyberattacks of

sophistication...

Sentiment: neutral Source: Thales

increasing

organisations become

threat intelligence



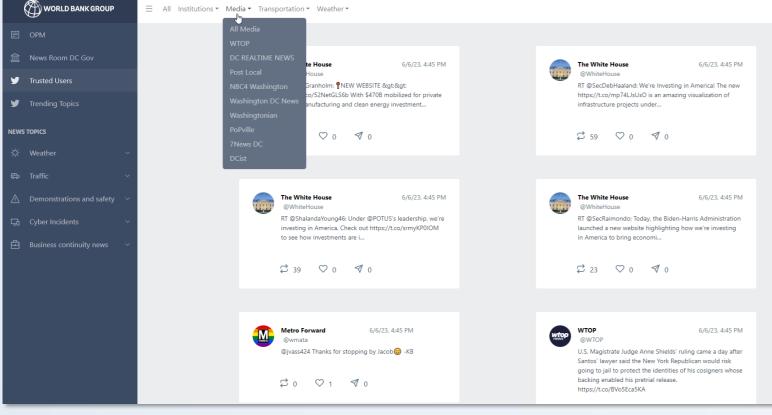
Bluebottle Cybercrime Group Prevs on Financial Sector in French-Speaking African Nations A cybercrime group

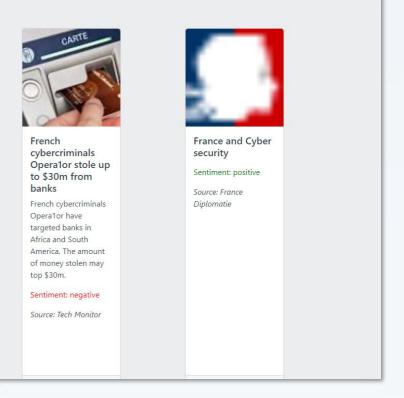
dubbed Bluebottle has been linked to a set of targeted attacks against the financial sector in Francophone countries...

Sentiment: neutral

Source: The Hacker News

- ٠ sources.





WB Treasury, as a POC, to test the use of **Artificial Intelligence and Machine Learning to** automatically retrieve Curated News, high quality and verified, from external information

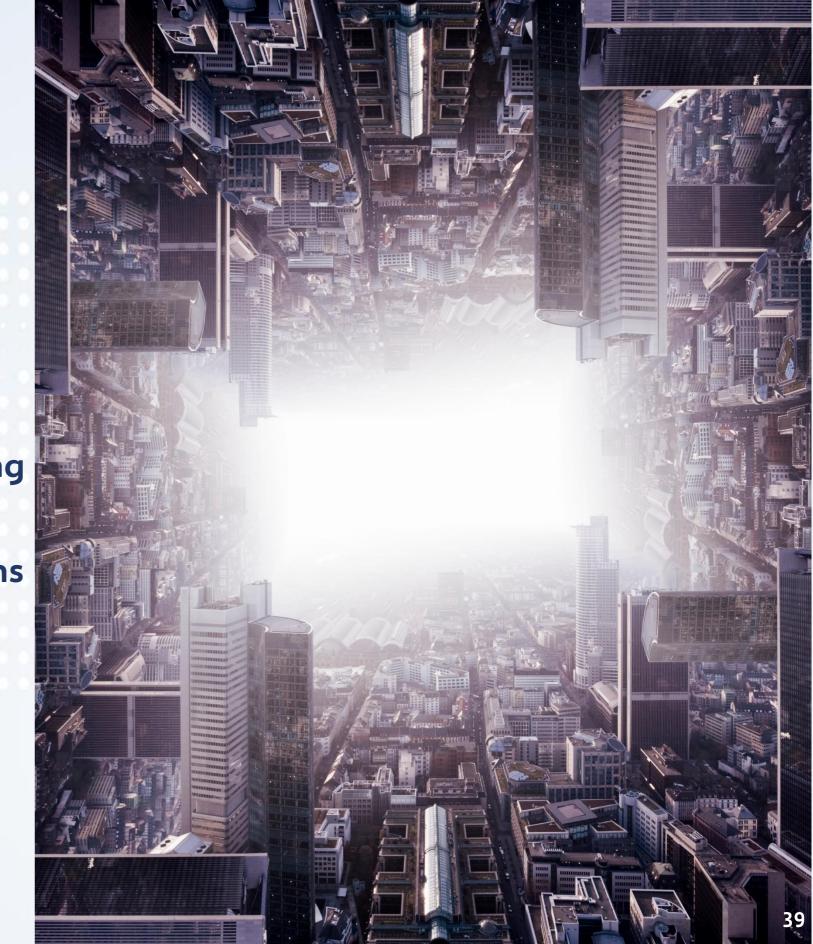
Use of key keywords to develop searches most relevant to the business. POC includes a user interface, available also on smartphones.

Approval Workflows

- Approval workflows are essential for ensuring all components of the BC program are reviewed and endorsed by relevant stakeholders during Analysis, Implementation and Review phases.
- When creating a business continuity plan, the software allows designated users to draft the plan and submit it for approval to management for official record keeping.
- Institutions can have the assurance that the Governance program meets:
 - appropriate review and endorsement from relevant stakeholders
 - required standards (ownership, periodicity)
- Facilitate the collection and review of the Audit documentation, enhancing the overall review process.

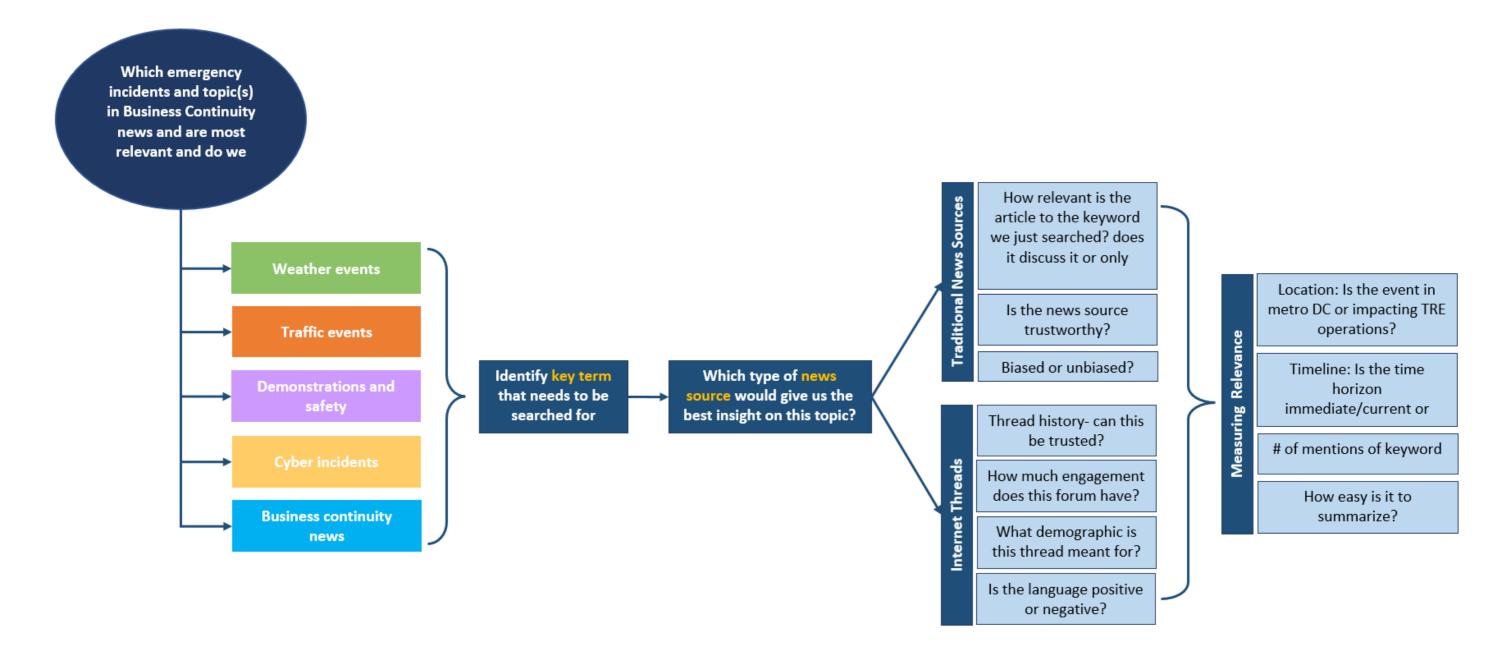


- Software supports BIA practice by standardizing data collection, analyzing dependencies, and calculating business continuity metrics.
- Offers a centralized platform for creating, maintaining, and updating business continuity plans.
- Enhances incidents management function, providing tools to respond effectively to disruptions.
- Streamlines the governance process, tracks revisions and approvals. Facilitates collaboration among process owners and stakeholders.
- Leveraging business continuity software, organizations can demonstrate their compliance with ISO 22301 requirements.





BC AI News Sourcing Tool – High Level Requirements





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Armour Up: Empowering the Ground Crisis Response Team

Dr David Teo Kwang Joo Regional Medical Director - Asia International SOS











ARMOUR UP

Empowering the Ground Crisis Response Team

Colonel (retr.) Dr David Teo MBBS, M.MED (OM) Regional Medical Director Asia International SOS



20150

Disasters, Medevac, Crisis Management

- **Retired Chief Army Medical Officer, Rank of Colonel**
- **UN Peacekeeping**
 - Medical Ops / Planning Officer

UNITED NATIONS HQ DEPARTMENT OF PEACEKEEPING OPERATIONS

- UN Peacekeeping Mission, MINUGUA (Guatamala) •
- UN Peacekeeping Mission, East Timor
- **Disaster Response (UN Disaster Assessment Team)**
 - UNDAC Mission to Asia Tsunami •
 - UNDAC Mission to Bengkulu Earthquake ٠
 - UNDAC Mission to Flood Bangladesh

Military Experience

- Ex Chief Army Medical Officer (Colonel)
- SAF Medical Mission: Head of SAF Response Team to Taiwan 921 Earthquake
- Other SAF missions •
- International SOS Response (Terrorist Attacks)
 - Pakistan, India, Bangladesh, India, Indonesia

International SOS Response (Transport Incidents)

- Mass Casualties Incident Bus Crash (Vietnam)
- Mass Casualties Incident (Sabah Earthquake) ٠
- Mass Casualties Incident (New Zealand)
- Offshore Oil and Gas Incidents

- **Occupational Health Senior Consultant**
 - Refinery and Rigs and Factories Audit
- Trainer
 - HAZMAT Medical Response
 - CMT & IMT Medical Trainer
 - MCI Medical Trainer
- **COVID Information Operation Lead Asia International SOS**



WORLDWIDE REACH. HUMAN TOUCH.



INTERNATIONA

Western Pacific Typhoons 6 Oct 2021

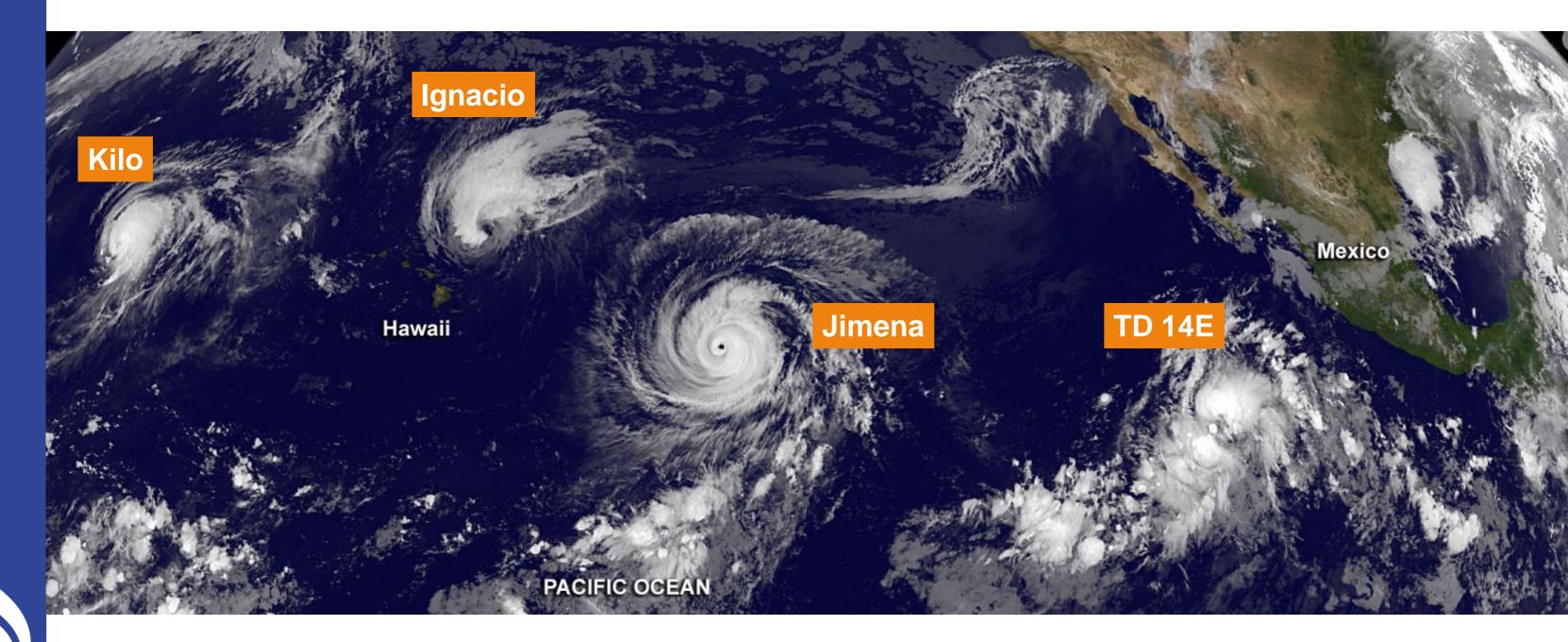
Typhoon Lupit

Typhoon Mirinae

Typhoon Nida



North America: Cyclones 2015





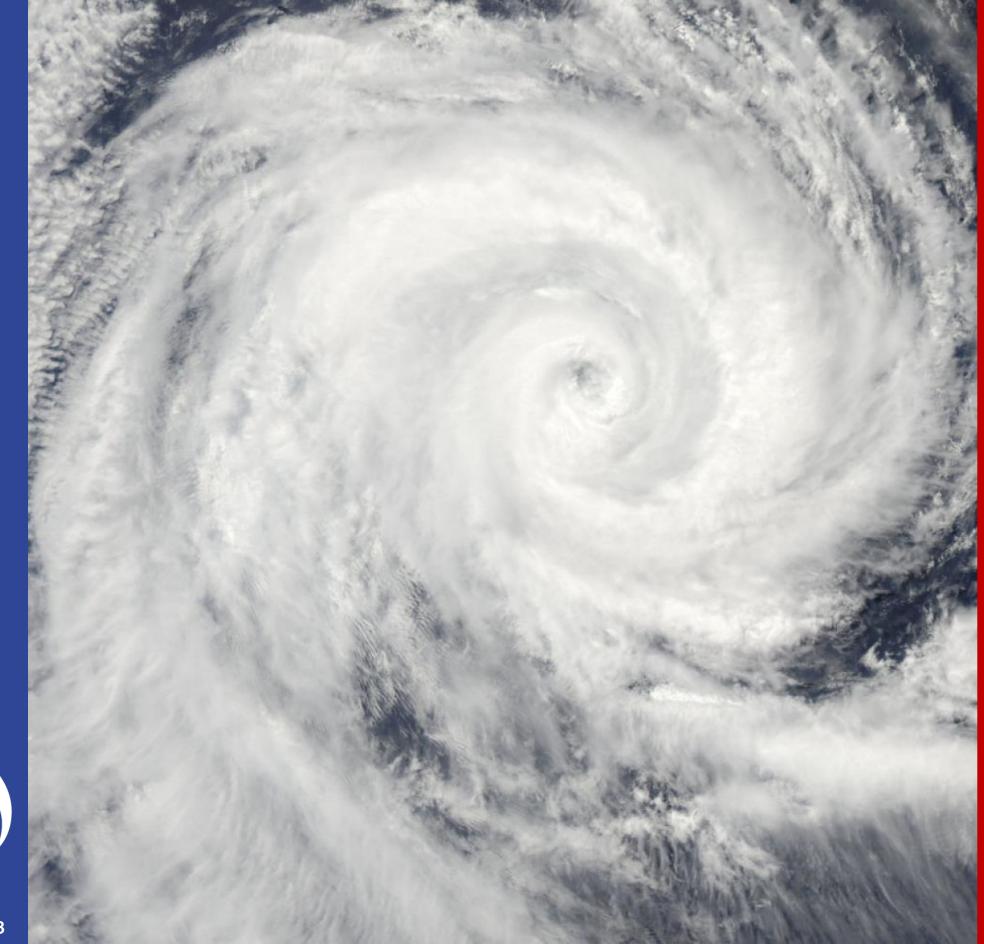
Australia: Cyclones 2020 Feb 20

Cyclone Ferdinand

Cyclone Esther







You received this report from your source. A new Typhoon forming and heading towards Philippines where your company has 2 factories. Wind speed estimated 140 km per hour.

You are planning to send alert to your team in Philippines and kicking off their BCP

What are your thoughts before hitting the Send Button?

Quiz 1: Typhoon





- Definitions
- What and Why of Crisis Response Team
- Selection
- Preparation







A Crisis Management Team is a group of people who protect an organization against the adverse effects of a crisis.



The Team prepares the organization for potential threats and inevitable threats, recommend / decide on future course of action and devices strategies to help organization come out of difficult times



Crisis Management will ensure save lives and prevent reputational loss, minimize financial loss and ensure Business Continuity

Crisis Management preparation could either make or break your company during expected events, such as:

- Natural Disasters •
- Man-Made Disasters •
- Cybersecurity Attack •
- **Technological Failure** •
- **Financial Crisis** \bullet

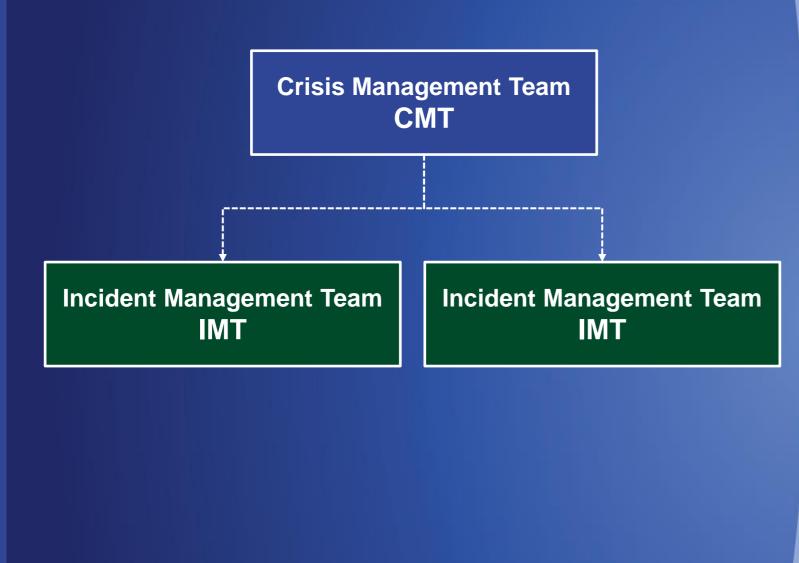


Crisis Management Team need to be selected and undergone Crisis Management Training. They are guided by Company SOP and supported by the Management

Crisis Management Team - **Definitions**







CMT Crisis Management Team

- **Organization Management** •
- Global or Regional or Country ٠
- Lead by Most Senior Person (Managing Director or General Manager)
- Supported by Functional Heads, Security, Medical, Media ٠
- Based on HQ •

IMT Incident Management Team

- IMT •
- Team deployed to Incident Site Team of SME lead by a Leader Ground Assessment and Assistance
- • •
- Organization may have more than 1 trained IMT

WORLDWIDE REACH. HUMAN TOUCH.



Incident Management Team

WORLDWIDE REACH. HUMAN TOUCH.



Incidence Management Team

- A small team of SME send to an Incident Site to support Company CMT +/- Clients ullet
- Group < 10 disciplined and dedicated persons
 - Each one is a SME in his/her role
 - Work Independently in his/her assigned role
 - Work as a Team when functioning together
 - Number of individual functions depend on mission and area of operations

1	Operations	Coordinate of all ground support, requests and reports, call & task logs, comms with CMT / Stakeholders
2	Logistic	Arrangement of ground logistic, accommodation, transport, water and food, finance, flights
3	Security	Security Tasks on the ground; assessment and analysis of security threats; mitigation measures
4	Comms	Setting up Comms between site HQ and IMT members going out and with CMT. Especially in remote settings where infrastructure has broken down
5	Medical	Medical Tasks on the ground; health risk and health needs on the ground, including medical facilities assessment
6	Others	HR, Finance



Role of IMT

Gather Information

- Country / Area Infrastructures •
- Damage Assessment ۲ (Infrastructures +/- Company Assets)
- **Transportation Structures** \bullet
- Food and Water Supply ullet
- Accommodations
- **Medical Facilities** •
- **Security Situation** \bullet
- Casualties
- **Company Premises & Damages**
- Company Employees \bullet



Ground Assistance

- **Company Assignees & Local Staff**
- **Company Local Management** 0
- Assistance for BCP on ground •
- Assistance for Domestic or International Movement
- Assistance for
 - ✓ Logistic
 - ✓ Accommodation
 - ✓ Medical

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MEDIA

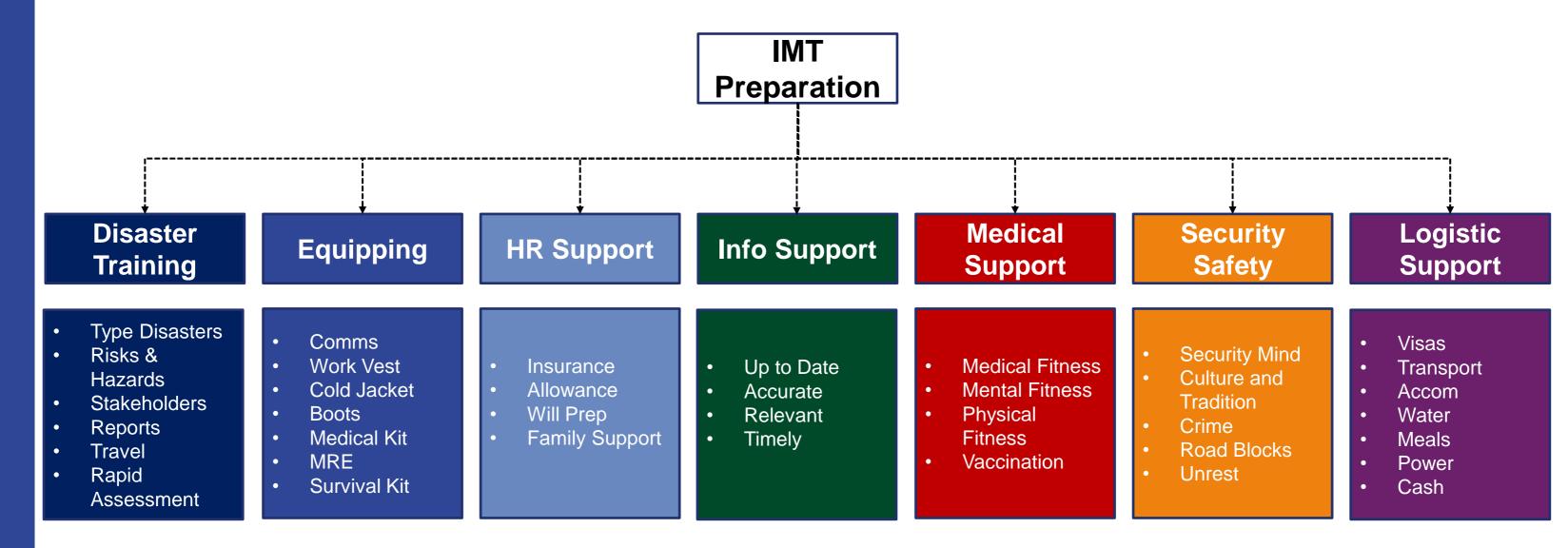
Security & Safety \checkmark

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IMT Preparation





Medical Preparation

A	Vaccinations	Childhood Vaccinations	BCG, Diphtheria, Measles, Mumps, Rubella Polio, Tetanus	
		Additional Vaccinations	Hepatitis A, Hepatitis B, Typhoid Fever Typhoid Fever or Booster; Tetanus booster Rabies **, Yellow Fever **, Meningococcal **	
В	Chemo	Malaria	Malarone, Doxycycline, Mefloquine	
	Prophylaxis	Ticks	Doxycycline	
С	Medical	Medical Fitness		
Scree	Screening	Physical & Mobility Fitness	Fitness to Travel and Fitness to Participate	
		Mental Fitness		
D	Medical Skills	First Responder Training	First Aid, CPR, AED, IV Lines and OTC and	
		Medical Kit	common Antibiotics	







Stake Holders

National Authorities

- Police ٠
- Fire Services •
- Search & Rescue •
- Military •
- Health •
- **Government Ministries** ٠
- National Media •

Internal

- Individual Volunteers
- National Companies \bullet
- Internal Interest Groups •
- Internal NGOs •
- Affected Population •

Your Organisation

- National Employees
- International Assignees
- International Visitors
- **Subcontractors** \bullet
- **Employees Families**
- Company Assets
- ERT & IMT •

 \bullet

•

External

Regional Countries United Nations Agencies International NGOs International Search Rescue Individual Volunteers **International Media**

Organisation Assistance

Partner Assistance Companies International SOS

Risk / Hazard

Risk / Hazards Training

Awareness
Assessment
Primary and Secondary

	Primary	Secondary
Floods	Drowning Destruction Property Destruction Transportation	Diseases Animal bites (rats, snakes) Injuries (walking in flooded wat
Earthquake	Crushed Injuries Destruction Infrastructures Destruction Transportation	Diseases Tsunami Collapsed Dams and Bridges Aftershocks Risks Crimes Unrests, Riots, Looting
Terrorists	Casualties Hostages Destruction of Property	Fake News Psychological Impact Cramp down Travel





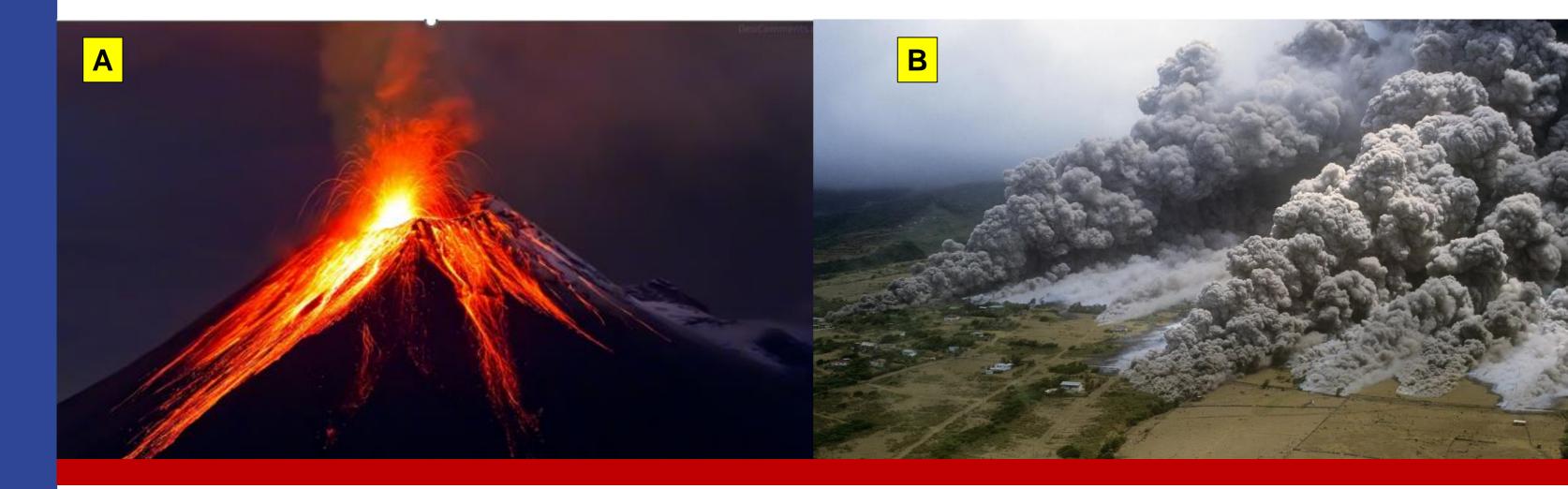
You are leading a Team towards Company Asset for Assessment. Area is flooded and so is the road

Do you proceed?

Quiz 2: Floods



Quiz 3: Volcanoes



- What is the safety distance for Volcano A?
- Which is more dangerous A or B?





Type of Disasters

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Natural Disasters vs Man-Made Disasters

Natural Disasters

- Earthquakes \bullet
- Volcanic Eruption ullet
- Tsunami \bullet
- Typhoons / Cyclones ullet
- Tornados \bullet
- Floods \bullet

Man-Made Disasters

- **Transport Accident** •
- **Industrial Accident**
- Infrastructure failure / collapse
- **Terrorist Attack**
- **Civil Unrest**

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Disaster: Simple vs Complex

Simple

- Natural Disaster or Man-Made Accidents
- There is no security element at play

Complex

- Natural Disaster or Man-Made Accidents
- Plus Security Risks to Emergency Aid Workers and Casualties and Survivors
- Earthquake in Syria, Afghanistan
- Cyclone hitting Myanmar



Disaster: Compensated vs Uncompensated

Compensated

- Infrastructures is intact or not impacted
- The country could rely on organic infrastructures
- External Help may not be needed (in general except for specialized unit e.g. SAR) •

Uncompensated

- Infrastructures is damaged and cannot support the affected population or rescue work •
- External help needed (National and International) •
- Typically, a developing country e.g. Bangladesh or Sri Lanka •









Security, Safety, Skills



SECURITY (Information & Changes)



(Information & Changes)



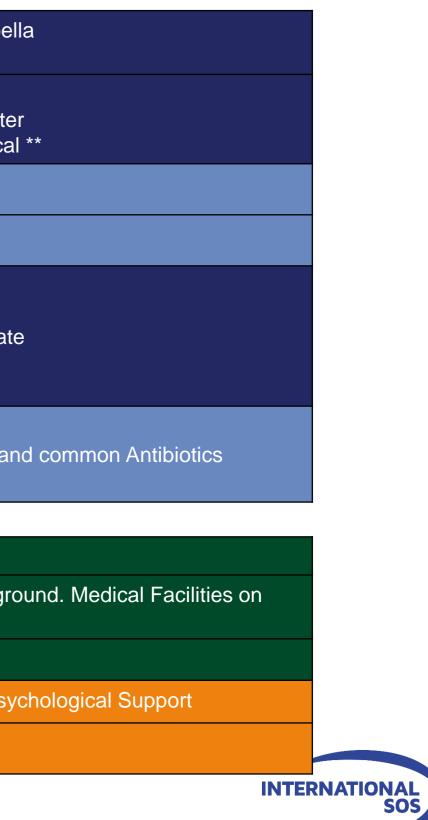


SKILLS (Well Trained)

Health

A	Vaccinations	Childhood Vaccinations	BCG, Diphtheria, Measles, Mumps, Rubell Polio, Tetanus
		Additional Vaccinations	Hepatitis A, Hepatitis B, Typhoid Fever Typhoid Fever or Booster; Tetanus booster Rabies **, Yellow Fever **, Meningococcal
В	Chemo Prophylaxis	Malaria	Malarone, Doxycycline, Mefloquine
		Ticks	Doxycycline
С	Medical Screening	Medical Fitness	
		Physical & Mobility Fitness	Fitness to Travel and Fitness to Participate
	Mental Fitness		
D Medica	Medical Skills	First Responder Training	
		Medical Kit	First Aid, CPR, AED, IV Lines and OTC an

A	Medical Assistance when IMT Deployed	Telemedicine	Access to Doctors Advice
		Medical Updates	Latest change in Medical Situations on g sites, infectious diseases,
		Medevac	Domestic and International Medevac
В	Long Term Support	Psychological Support	Pre, During Mission and Post Mission Ps
		Injuries and Illness during mission	Long Term Support



Insurance

- Hospitalization Insurance
- Evacuation Insurance
- Repatriation Insurance
- Disability
- Death Compensation
- Medical Benefits need to include Mental Health
- Any declination by Insurance needs to be supported by Company



Environment

• Environment (Physical)

- Geography
- Weather
- Towns and Transportation
- Water and Hygiene Standards

• Environment (People)

- Race and Religion
- Culture
- Language
- Food



Logistic

• Transportation (Ground Transfer)

- Need for 4-wheel drive
- Need for fogging water obstacles
- Local Drivers (Self Drive Last Option)
- Transportation (Domestic Transfer)
 - Air vs Rail vs Water vs Road
- Accommodation
- Water and Food
- Communications
- Local Agent & Language Support



Data / Information

• Information Feeding to the IMT

- Raw Information
- Analyzed Information

• What Information to IMT

- Changes in Security Information
- Changes in Weather
- Changes in Health Information
- Changes in Political Information
- Updates on Infrastructure
- Access to Tele-Medical Assistance





- - 2 times a)
 - b) 4 times
 - C) 5 times
 - d) 10 times
- 2.
 - a)
 - b) Typhoon
 - Tsunami C)
 - Volcano d)
 - Floods e)

Quiz 4: Earthquakes

1. Earthquake A (Richter Scale of 5) and Earthquake B (Richter Scale of 6). What is the difference in Intensity between **Earthquake A and Earthquake B?**

If you can choose to be facing a disasters, which of the following would be your preference

- Earthquake



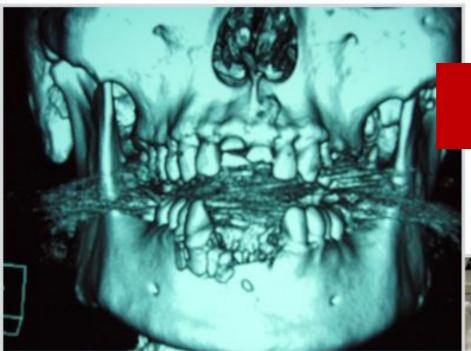
Post Mission Management

- Medical Injuries + Mental Health
- Reports
- Media
- Social Media
- Family
- Recognition





This is Not a Quiz: Terrorist Attack



Do you have Crisis Ground Team Responding to Terrorist Attack?









THANK YOU

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MARIM INTERNATIONAL CONFERENCE 2023 UNCOVERING NEW FRONTIERS IN RISK & RESILIENCE

> The Waterfront Hotel, Kuching 11 & 12 September 2023

> > Parallel 2: BCM & Crisis Management

Armour Up: Empowering the Ground Crisis Response Team

Dr David Teo Kwang Joo Regional Medical Director - Asia International SOS



INSURANCE MANAGEMEN



