

# From Reactive to Resilient: Improving Supply Chain Resilience Through Actionable Insights

Risk Beyond 2025

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#### **Edward Bimbuain**

#### **Business Continuity Management Lead, Asia**

Currently at Marsh Risk Consulting Indonesia, Edward has more than 10 years of experience and is responsible for developing, implementing and maintaining Business Continuity Management and Enterprise Risk Management for Marsh Indonesia's major clients covering various industries.

He started his career as an IT Auditor and Consultant at Ernst & Young (EY) where he was involved with EY major clients covering a wide range of industries such as telecommunications, government, manufacturing, and financial services. He responsible in performing IT Audit supporting the Financial Auditor and IT related consulting for IT Governance, IT Risk Assessment, BCM, and Sarbanes Oxley implementation.

Edward has working experience with a telecommunication company (XL Axiata) where he was responsible for developing and maintaining the Enterprise Risk Management and the Business Continuity Management (BCM) program. Prior to joining Marsh Risk Consulting on May 2016, he was Head of BCM and Operational Risk in Allianz Indonesia. Edward developed and managed the BCM cycle for Allianz Indonesia general and life insurance, also managing operational risk for Allianz Life Operations.

#### **Professional Qualifications**

- M.S Information Technology, Hawaii Pacific University (USA)
- B.A Management Information System, University of Toledo (USA)
- Qualified Chief Risk Officers (QCRO)
- BCM Institute Business Continuity Certified Specialist (BCCS)

#### Specialist Knowledge

- Enterprise Risk Management
- Business Continuity Management
- Cyber Risk

#### **Years of Experience**

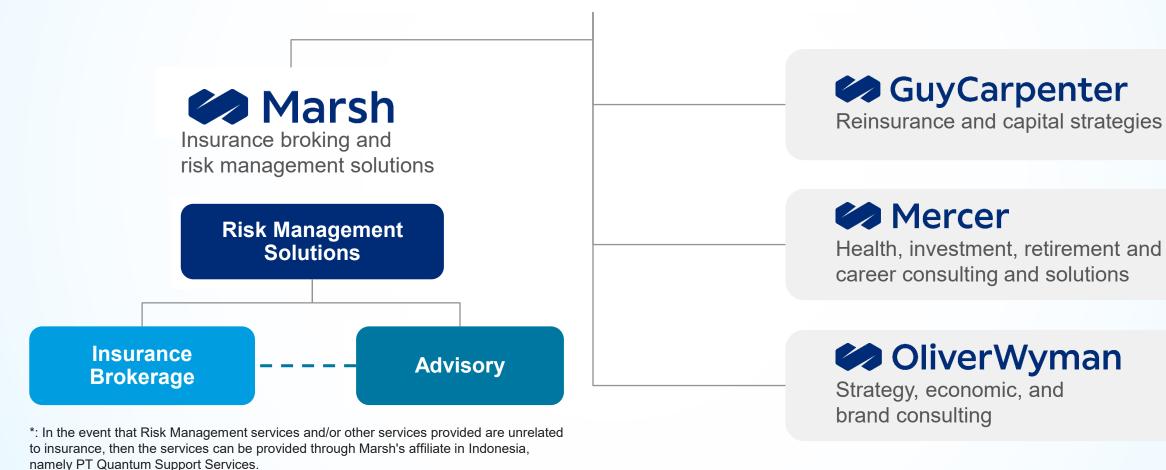
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#### Location

· Jakarta, Indonesia, Asia

# One Enterprise: Integrated services to address your needs







# **Supply Chain Trends**

# Several recent events and trends have highlighted the vulnerability of a highly complex and fragmented global supply chains

### Key events and trends affecting global supply chain

Geopolitica tensions	l Pandemic/Nat disasters		Infrastructure disruptions	Security & cybersecurity threats	Emission reduction efforts
Disruptions due political, econon trade or conflic	nic, by global pande	mics financial crisis,	Disruptions due to infrastructure malfunction (transport, IT, etc.)	Disruptions due to security threats, terrorism, cyberattacks, etc.	Increase in demand for critical minerals in response to sustainability trends
Red sea shippi crisis (2023/24) Delays and high costs for transport	(2023) Physical damage aer disrupted agricu	s and Severe shortages ltural caused by	Suez Canal blockage (2021) Blocked maritime traffic for 6 days	Colonial pipeline cyberattack (2021) 6-day outage of US' largest oil pipeline due to ransomware	UNFCCC net-zero by 2050 Forecasted increase in demand for renewable- related minerals
			EN RIM P.S.		
Container shipp costs increase 60%		in USD 110 BN in losses	USD 6-10 BN in losses	Acute fuel shortages in several states	Lithium demand to increase by +450% between 2022-30

Source: Refinitiv, Turkonfed, Supply Chain Resilience Report 2021, Reuters, Bloomberg, SCFI, Oliver Wyman analysis



# The financial impact of supply chain disruptions is large & likely to grow

\$14.5 trillion

5-year global economic impact

\$25 trillion

GDP loss by 2060

20% to 30%

Potential annual earning losses

Source: State of the World 2025 publication by OW



# **Supply Chain Trends**

### Top strategic priorities for board-level management

**Exhibit 3:** Top strategic priorities for board-level management

Supply chain resilience strategy/Tariffs and geopolitical risks

44%

Cost reduction

24%

Top-line increase

13%

Al/digitalization strategy

11%

ESG strategy/Net-zero strategy

9

Source: Oliver Wyman analysis

# 98%

of companies surveyed indicated that they were willing to invest profits in supply chain resiliency

65%

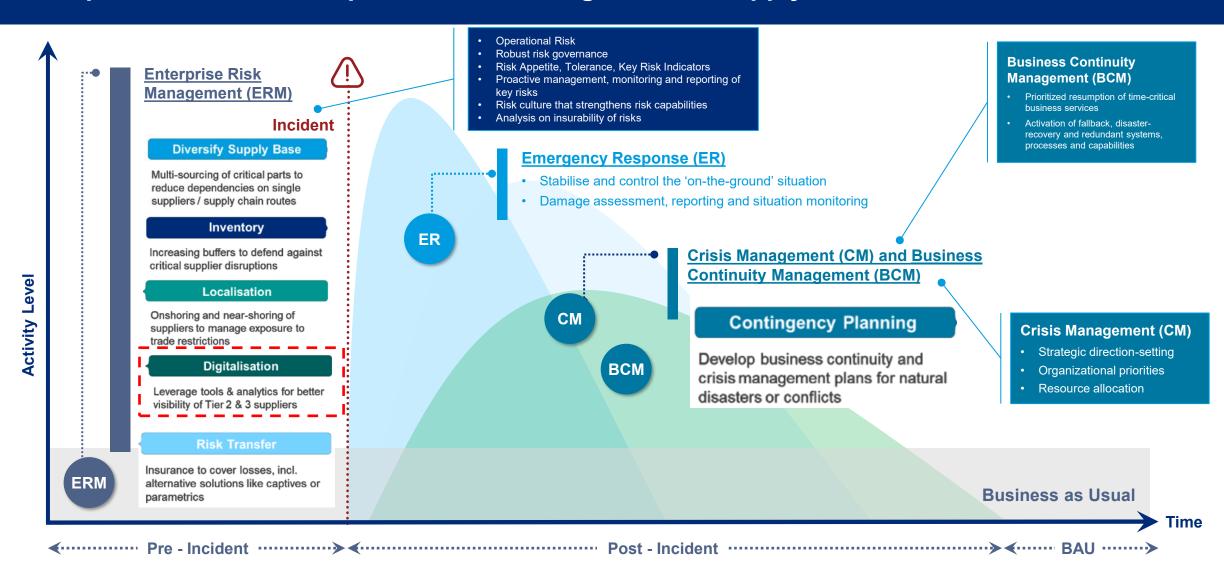
of respondents described themselves as "vulnerable to very vulnerable" to future supply chain risks

# Getting ahead of disruption with integrated resilience process



# Integrated Risk, Resilience & Crisis Response Framework

Companies can use multiple levers to manage diverse supply chain uncertainties



## Performing the Business Impact Analysis (BIA)



Business impact analysis (BIA) is the process of **analysing the effect of interruptions** to business operations or processes **on all business functions** within the organization to determine business continuity priorities and requirements.



- Resources are limited, need to prioritize BCM efforts in times of crises
- Assess the financial and non-financial impact on the organization resulting from downtime of critical business functions / processes
  - Alignment across the organization on critical business functions / processes





## **Critical Business Functions**

Identify and prioritize critical activities that support the provision of products and services



## **Recovery Timeframes**

Assess the impact over time resulting from disruption to determine recovery timeframes (i.e. RTO, MAO)



#### **Dependencies**

Determine the dependencies, including partners and suppliers, and interdependencies of critical activities



#### Resources

Determine the resources (e.g. manpower, office equipment / supplies, etc.) needed to support critical activities









BC Strategy



Plan Development



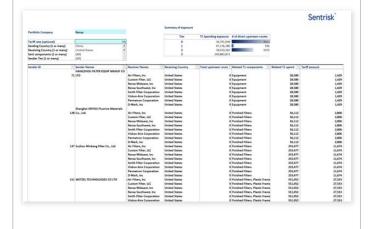
# Enhancing Supply Chain Resilience with Sentrisk™

**Map Upstream Suppliers** Map both direct and indirect upstream suppliers, the components they supply, and the trade flows between them.

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#### **Measure Tariff Exposure**

Analyze a variety of potential tariff scenarios and quantify their financial impacts on each supplied good, supplier, and your organization's P&L



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# Mitigate Risk and Prepare for Disruption

Implement agile mitigation strategies to ensure supply chain resilience with support from our risk advisors. These include:

- Business continuity and crisis management
- Scenario testing and continuous monitoring
- Targeted insurance solutions
- Site selection and network adjustments
- Third-party risk management
- Adjust risk tolerance and appetite to reflect new capital expenditures



Powered by Sentrisk, Marsh's proprietary supply chain analytics platform, we precisely quantify tariff risks – enabling informed insurance strategies and tailored risk mitigation solutions aligned with your business's evolving risk appetite.



### Key imperatives for building organizational supply chain resilience



Using future probable scenarios to **stress** test our supply chain resilience capability.



point of failure and its mitigation to enhance resilience.



**Leveraging analytics and AI** for timely indicators, and incident response preparation and insights.



Determining how best to embed "just-in-case" vs "just-in-time" recovery strategies.



Building trust with workforces and stakeholders as organizations, economies, and societies navigate disruptions and recoveries.

# Thank you! Questions?

**Reach out to your Marsh executive** 

or visit

marshmclennan.com



# Backup Deck



## Challenges in mitigating supply chain risk in Asia

Reshaping and enhancing supply chain resilience is a complex, time consuming, and costly exercise



#### **Real-Time Data Challenges:**

**Frequent policy changes**, such as tariff levels on China, Mexico, and Canada, **increase uncertainty** regarding current/future risk exposures.



#### **Hidden Risks Beyond Tier 1 Suppliers:**

Direct (Tier 1) suppliers are easily identified, but risks from indirect (Tier 2 & 3) suppliers can be **less visible**, causing concentration risks to **go undetected**.



#### **Complex Risk Navigation:**

Assessing different types of investees against diverse risks – such as weather events, cyberattacks, and tariffs – significantly complicates evaluation of target entities' risk exposures



#### **Post-Acquisition Reconfiguration:**

Merged companies can have **overlapping supply chains**, leading to **sub-optimal processes and risks** if supplier relationships are not strategically assessed and reconfigured.

A data-driven supply chain analysis can identify vulnerabilities faced by target entities and enhance investment decision-making

# Mapping out the supply chain can support businesses in:

- Visualisation: Identify unknown suppliers, networks, interconnectivities.
- Evaluation: Understand size of supply chain risks, single-buyer / geography concentrations.
- **Mitigation:** Determine mitigations to quickly protect the right parts of the value chain.

# Snapshot of major geopolitical risks and developments\*

