

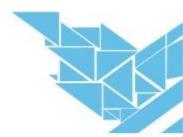
+254 796 665 105

+254 758 360298

info@humanitarianglobal.com

www.humanitarianglobal.com









At the end of the webinar you should:

- 1. Understand the risks in supply chain
- 2. Be able to profile the risks
- 3. Know how to manage risks
- 4. Be able to develop an implementable supply chain risk register







What is Supply Chain?

- •A supply chain is the collection of processes and resources required to make and deliver a product to the final customer.
- •A supply chain is the connected network of individuals, organizations, resources, activities, and technologies involved in the manufacture and sale of a product or service.
- •A supply chain starts with the sourcing of raw materials from a supplier to a manufacturer and ends with the delivery of the finished product or service to the end consumer.









- In the last decades, increase in human and natural disaster occurrence has very irreparable effects on human life.
- Hence, one of the important issues in humanitarian supply chain management is identifying and prioritizing the different risks and finding suitable solutions for encountering them at the time of disaster occurrence.





Humanitarian Supply Chain Risks











Humanitarian
Supply Chains
are more
sensitive and
proactivity is
highly critical
as we are
crisis
responders.



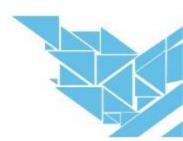






- •Supply chain risk management refers to the process by which businesses take strategic steps to identify, assess, and mitigate risks within their end-to-end supply chain.
- •There are both internal and external risks that can disrupt the supply chain, so it's helpful to understand the difference between the two.









- •As the name implies, these global supply chain risks come from outside organization.
- •Unfortunately, that means that they are harder to predict and typically require more resources to overcome.
- Some of the top external supply chain risks include:
- Acts of God(Tsunami, Typhoons), Political risk





Examples of External Risks



Category	Risk	Α	В	C	D	E
	External					
	Natural disaster: flood, earthquake	*	*			*
Nature	Plant fire					
	Diseases, epidemics		*			*
B 11.1	War, terrorism	*				*
Political system	Labor disputes	*	*			*
	Customs and regulations	*	*	*		*
Competitor and market	Price fluctuation			*		
	Economic downturn		*			
	Exchange rate risk	*				
	Consumer demand volatility		*	*	*	
	Customer payment	*				
	New technology		*	*		
	Changes in competitive advantage			*		
	Obsolescence	*				
	Substitution alternatives					





Examples of Internal Risks

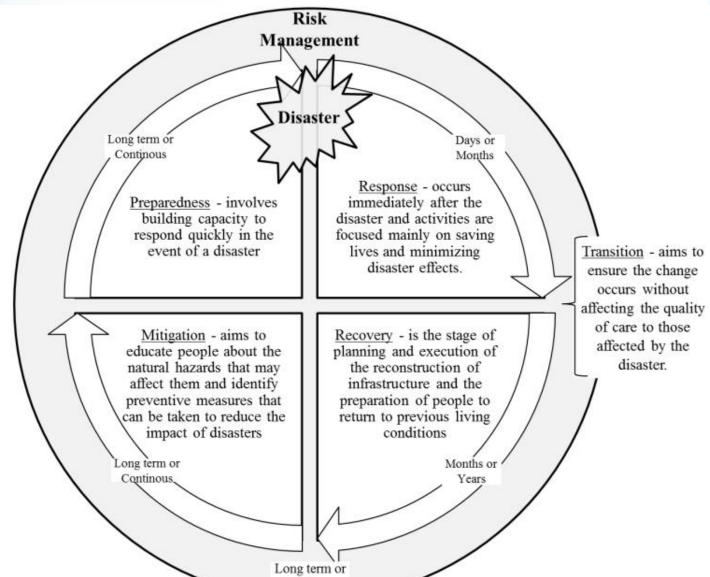


		Internal				
		Capacity cost	*	*		
		Financial capacity/insurance		*	*	
	Available capacity	Ability to increase production	*		*	
	capacity	Structural capacity		*	*	
		Supplier bankruptcy				
		Forecast inaccuracy	*	*		
		Safety (worker accidents)		*		
		Bullwhip effect	*		*	
Internal operation		Agility/flexibility		*	*	
	operation	Holding cost/order fulfillment tradeoff	*			
	On-time delivery		*			
		Quality		*		
		IS breakdown	*			
	Information	Distorted information				
	system	Integration	*			
		Viruses/bugs/hackers		*		



The Disaster Management Cycle





Continous





Disaster Management Cycle



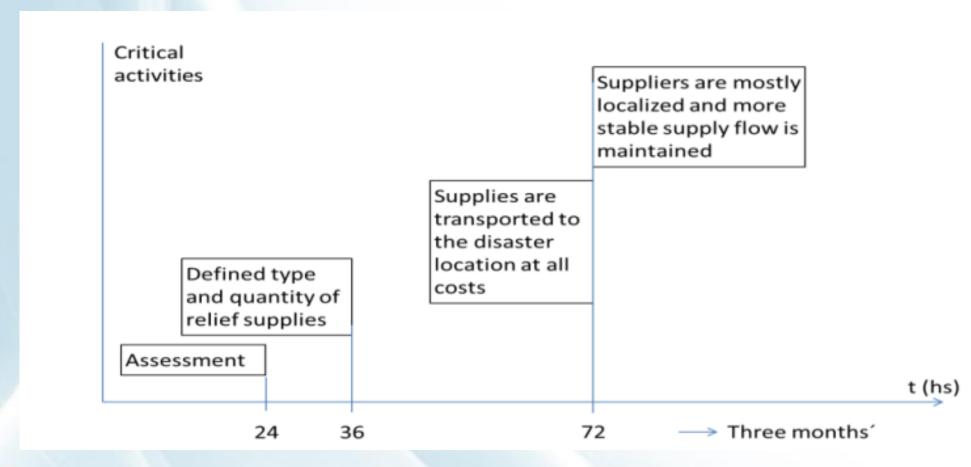
Phase	Preparedness	Response	Transi	tion	Recovery	Mitigation
Period	Long Term - Continuous	Days – Months		Months - Years		Long Term - Continuous
Logistics Volume	Low	High		Medium		Low
Supplies Required	Specific standard supplies pre- positioned for disaster response	Specific standard supplies: Food, medical supplies, water and sanitation equipment, shelter, household kits, etc.		Varied supplies depending on the context of the disaster: reconstruction material, livelihoods equipment		Varied supplies
Urgency	Low	can make the d	High: Lead times for supplies can make the difference between life and death.		: ay be ent and donor to complete activities	Low
Procurement of Supplies	Local	International		Local-International		Local





Example: Response on time after the disaster strikes









Why are Humanitarian supply chains more vulnerable? The humanitarian global.com









Despite corporates where budgets are more clear and planning is somehow seamless

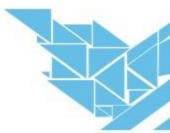
We are risk responders:

- **Typhoons**
- Floods
- War

Risks

- Funding
- **Tight Budgets**
- Time Frame





Topic	Commercial SC	Humanitarian SC		
Main objective	Maximize profit	Save lives and help beneficiaries		
Demand pattern	Fairly stable and can be predicted with	Irregular with respect to quantity, time and		
	-	place. Demand is estimated within the first		
	forecasting techniques	hours of response		
		Cash is donated for procurement. Unsolicited		
Supply pattern	Mostly predictable	donations and in-kind donations need sorting,		
		prioritizing to decrease bottlenecks		
T1	Commercial products	Resources like evacuation vehicles, people,		
Flow type	Commercial products	shelter, food, hygiene kits, etc.		
Lead time	Mostly predetermined	Approximately zero lead time, demand is needed		
Lead time	Mostly predetermined	immediately		
Delivery network	Established techniques to find the number	Ad hoc distribution facilities or demand nodes.		
Delivery network	and locations of warehouses, distribution	dynamic network structure		
structure	centres	dynamic network su ucture		
	Safety stocks for certain service levels can	Unpredictable demand pattern makes inventory		
Inventory control	be found easily when demand and supply	control challenging. Prepositioned inventories		
	pattern is given	are usually insufficient		
Technology and	Highly developed technology is used with	Less technology is used, few software packages		
information systems	commercial software packages	that can record and track logistics data. Data		
information systems	Confinercial software packages	network is non-existent		
Performance		Time to respond the disaster, fill rate,		
measurement method	Based on standard supply chain metrics	percentage of demand supplied fully meeting		
measurement method		donor expectation		
E-view-ent- end		Believed a serious and a serious deal deal has measured		
Equipments and vehicles	Ordinary trucks, vehicles and forklifts	Robust equipment are needed to be mounted		
		and demounted easily.		
Human resources		High employee-turnover, based on voluntary		
	Commercial SCM is now a respected	staff, harsh physical and psychological		
	career path (Thomas, 2003)	environment		
a. 1 1 11	St 1.11	Donors, governments, military, NGOs,		
Stakeholders	Shareholders, customers and suppliers	beneficiaries, United Nations, etc.		







Impact of supply chain disruption



- The impact of unplanned and unforeseen events in supply chains can have severe financial effects across the network as a whole
- The North America research suggests that companies experiencing supply chain disruption saw their average operating income drop 107 per cent.
- It can be argued that in today's volatile business environment the biggest risks to business continuity lie in the wider supply chain. The networks feeding into your organizations supply chain. (Your suppliers, Warehousing, Outsourced services)
- As a result of this heightened risk, organisations will need to develop appropriate programs to mitigate and manage that risk.





THE SUPPLY CHAIN RISK PROFILE



The purpose of risk profiling is to establish where the greatest vulnerabilities lie and what the probability of disruption is.

Supply Chain Risk = Probability of risk happening × Impact Risk Sources:

1. Supply risk- How vulnerable is the business to disruptions in supply? Risk may be higher due to global sourcing, reliance on key suppliers, poor supply management, etc.

2. Demand risk- How volatile is demand?

Does the 'bullwhip' effect cause demand amplification? Are there parallel interactions where the demand for another product affects the demand for ours?

Bullwhip- a supply chain phenomenon describing how small fluctuations in demand at the retail level can cause progressively larger fluctuations in demand at the wholesale, distributor, manufacturer and raw material supplier levels.



SUPPLY CHAIN RISK PROFILE



3. Process risk-How resilient are our processes?

Do we understand the sources of variability in those processes, e.g. manufacturing? Where are the bottlenecks? How much additional capacity is available if required?

4. Control risk- How likely are disturbances to be caused by our own internal control systems?

For example, order quantities, batch sizes and safety stock policies can distort real demand. Our own decision rules and policies can cause 'chaos' type effects.

5. Environmental risk

Where across the supply chain as a whole are we vulnerable to external forces? Whilst the type and timings of extreme external events may not be forecastable, their impact needs to be assessed.





Team Activity

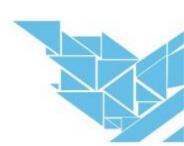


From the discussed risk sources, think about your organization and share in the chat where your organization is most likely to face risks-Be as specific as possible

Hints:

- 1. Demand risks-(urgent orders, unplanned forecasts)
- 2. Supply risks (unreliable suppliers, outsourcing)
- 3. Process risks- (lack of infrastructure, unnecessary processes, approvals)
- 4. Control risks- order quantities, batch sizes and safety stock policies
- 5. Environmental risks- (Floods, typhoon)





SUPPLY CHAIN RESILIENCE



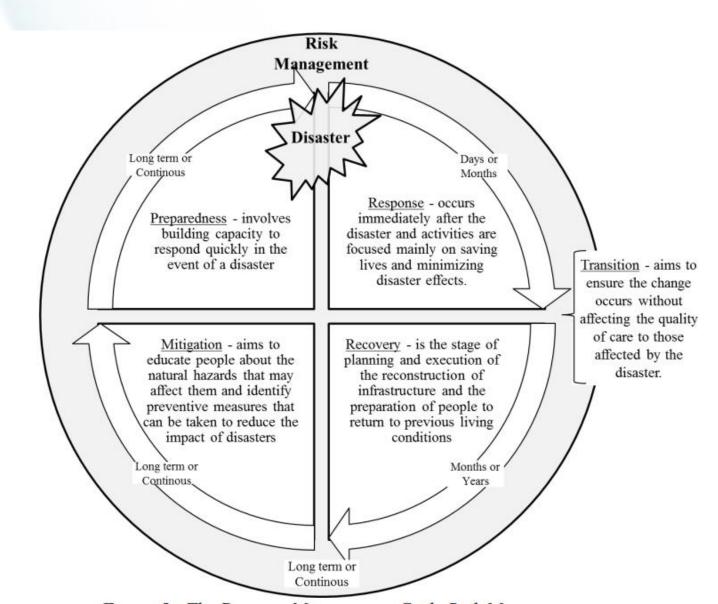
- Resilience implies the ability of a system to return to its original or desired state after being disturbed.
- Because even the best managed supply chains will hit unexpected turbulence or be affected by events that are impossible to forecast, it is critical that resilience be built into them.
- The aim is to create a supply chain community whereby there is a
 greater visibility of upstream and downstream risk profiles and
 a shared commitment to mitigate and manage those risks.





The Disaster Management Cycle













1.Department

2.Category/ profile

3. Risk Description

4.Possible impact

5.Impact Score

6.Likelihood Score

7.Risk Score

8.0wner

9. Strategy

10. Mitigation / Solution

11.Priority

11.Status

12.Action





supply Chain Risk Register



Template Risk Register





Quality Self-Paced Online Courses Easy to Follow Through

Go from beginner to expert levels within a short time

Gain In Depth Knowledge in Procurement and Supply Chain Management

Course Structure

Level	Knowledge	Duration	Course fee
Certificate	Beginner	3 months	\$500
Diploma	Intermediate	6 months	\$1000
Postgraduate Diploma	Expert	12 months	\$1500





10% DISCOUNT







1. "What is our plan for when things go wrong?"

_







END Q&A

THANK YOU FOR LISTENING



