Recovery Strategies for Supply Chains from a Post-Black Swan Event

September 14, 2022
Agenda

- Background
- Scenario mapping for recovery
- Recovery strategies with country examples
- Links to guide and additional documents
- Q&A
Background

• Recovery strategies from black swan events center on scenario mapping, product groupings and iterative planning

• Supply chains can suffer:
  - demand
  - supply and/or
  - concurrent supply and demand disruptions

• Recovery Strategies are based on previous learnings to help plan for recovery by weighing the information and advice received to make informed decisions.
Lessons from previous black swan events

- Examined the histories of several black swan events and how supply chains were impacted
- Different types of events impact in different ways, and differently across different groups of commodities
- Lack of resiliency exposed when supply and distribution lines are impacted
- Recovery is always iterative as conditions change (worsen and improve sporadically)
- Frequent planning and replanning is needed to continuously monitor interventions that are deployed
Road Map: Scenario mapping for recovery

1. Define the Disruption
   - Use the Emergency Playbook
     - Managing the crisis
     - Use the “crisis team” to start planning for recovery
     - Start planning for recovery sooner than later

2. Analyze Paths for Recovery
   - Review data and information collected for crisis management
   - Use the guide to help determine possible paths for recovery
   - Define possible paths for recovery

3. Scenario Planning with Stakeholders
   - Select possible paths for recovery for scenario planning
   - Compare and evaluate across the different paths for recovery
   - Choose the path to conduct scenario planning

4. Execute Recovery Strategy
   - Define an agreed upon path to recovery
   - Define each stakeholder’s role and actions
   - Define the period of review of the recovery strategy

Next steps
- Is recovery strategy working?
  - YES: continue to the new normal
  - NO: return to step 2

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NEW NORMAL
Recovery strategies for demand disruptions

Collect demand data quickly and identify key products or product groups that are experiencing demand disruption.
Recovery strategies for supply disruptions

The supply side shocks will be felt more immediately, presenting at both the manufacturing and distribution levels.
Recovery strategies for coordinating actions for supply and demand disruptions

• When both **demand and supply** are disrupted, use demand recovery strategies to drive resupply strategies

• When both demand and supply are disrupted, it becomes even more important to adjust demand and calculate new supply requirements

• Get back to the basic steps:
  o Define the disruption
  o Analyze the path to recovery
  o Plan scenarios with stakeholders
  o Execute the recovery strategy

• Consider changing conditions as the supply chain progresses to the **new normal**
Country examples

Liberia
- GHSC-PSM collaborated with the Liberian Government to grant special access for distribution workers and project support staff, recruited and remotely trained health care workers to support LMIS reporting where distribution workers were unavailable.
- Facilitated data flow to support forecasting and supply planning, and informed decisions about the redistribution of goods to the most needed areas.
- Effectively planned warehousing and redistribution of personal protective equipment to the most affected areas based on shifting demands.

Nigeria
- Reducing the size of shipments and using ocean freight facilitated moving goods forward and minimized disruptions to the supply chain. Supply planning moved from quarterly to monthly.
- When international travel lanes were shutting down, recommended that countries prepare by moving most products out of warehouses and redistributing stock to service delivery points at the last mile in geographic areas most in need.

Nepal
- During COVID they used their LMIS to redistribute commodities to the last mile to prevent overstock and stockouts.
Path to resilient supply chains

• Each country will have a different starting point
• Establish a routine process where the resources and assessments of the overall strategies can be adjusted regularly
• Plan for these to become core processes
• The new normal should be different from pre-black swan, the processes that improved the overall response should continue

Supply chains recover when supply matches demand in a cost-effective way
Links to Field Guide and Other Products

• Link to Field Guide and 2-pagers

• Link to the Podcast: Unbroken: Forging Supply Chain Resilience
  o https://soundcloud.com/user-241724502/unbroken-forging-supply-chain-resilience

• Link to the Emergency Supply Chain Playbook
  o https://www.ghsupplychain.org/ESC-Preparedness-Response
Thank you
Contact Information:

Jaya Chimnani, Senior Health Systems Strengthening Supply Chain Advisor: Jchimnani@ghsc-psm.org