Global Supply Chain Forum
Barbados
21-24 May 2024

UN trade & development (UNCTAD) | 50 years

CLIMATE CHANGE ADAPTATION, RESILIENCE-BUILDING AND DRR FOR PORTS

23 MAY

SDGs

REGINA ASARIOTIS

GEOGRAPHICAL CHANGES

Latin America & The Caribbean is the 2nd most disaster prone region in the world

Hazards in the caribbean are ↑ becoming complex
ie Natural disasters, pandemics, dengue outbreaks

ELIZABETH RILEY

ROLE OF PORTS

Response Side

Main gateway for response aftermath
Access to required goods/resilient Infrastructure
Mitigation - ensure the types of goods align with the resilience we are trying to build

DARWIN TELEMAQUE

Dominica 2017 Hurricane Maria damage
- property
- infrastructure
- loss of income
- security compromised ports

UNDERSTAND
- risks
- leads to efficacy

LEADERS
- partner with policy makers

STRATEGIC Foresight
- risk reduction policies
- lead to ensuring sustainable development

SEAN RAFTER

JAIR TORRES

PARTNERSHIPS

DISASTER RISK REDUCTION

- Communication on the hurricane location
- Share knowledge
- Plan effectively
- Operation Zero: Pre disaster plan (no vessels allowed before a storm (to avoid port blockage after hurricane)
- Port Auxilary Force Implementation
  - groups of similarly skilled port professionals from the region, who help keep things running after disasters
- Leadership
- Utilize available resources
  - using containers to build homes and businesses after disaster

CHALLENGES IN REGIONAL EMERGENCY LOGISTICS

Lack of recognition of the importance of Logistics
Lack of institutional learning
Involvement of too many stakeholders
Language barriers & culture clashes

Role of Executive Port Management

Port services to all islands and responsible for everything that comes in

UNDERSTAND DISASTER RISK

- level of exposure for different hazards
- level of vulnerability we can have (physical and social)

POLITICAL & SOCIETAL ECONOMICAL CHANGES

STRENGTHEN DISASTER RISK GOVERNANCE

- work together to make sure necessary measures are taken

Additional Hazards to Supply Chain

COVID 19 - lockdowns, travel restrictions, change in consumer demand

FINANCING FRAMEWORK

- Risk reduction (damages, limited, disasters prevented)
- Shock absorption

Cascading Impacts

- Shortage of essential workers
- Disruption of medical supply chain
- Economic loss
- Lack of food

FAIL TO PREPARE
PREPARE TO FAIL

Early Warning Systems

security to people
respond before impact
automated control

DATA SHARING

DEVELOPING INFRASTRUCTURE & CONNECTIVITY

- criticality of downstream digital and physical infrastructure
- minimize, standardize, digitize customs procedures
- plan multi modal transport options
- utilize data-driven decisions

Capacity building → teach technical ways of doing things
→ independent management at local level
This leads to faster decision making quicker responses
→ strong education system

COLLABORATIVE LEADERSHIP

STRENGTHEN RESILIENCE THROUGH SYSTEMS THINKING

- Deploy system dynamics (allows us to look at different elements and how they interact with each other and affect each other
- Strategic foresight thinking (allows us to model potential scenarios, look at vulnerabilities, bottlenecks, to plan interventions. Narrows your focus from trying to plan for everything to planning for a few likely scenarios

The importance of systems thinking is it allows you to plan for immediate response but also to think about long term resilience