Pandemic Preparedness

Feb 2016
Supply Chain in Ebola Response
Highlighting JICA’s Ebola Response in 2014

- 700,000 sets of PPEs donated by JICA.
- In partnership with WFP-UNHRD, JICA and Japan Self Defense Force, the goods were delivered to Ebola-affected Countries.
Global Pandemic Supply Chain

- Stocks
- Virtual stocks
- Strategic reserves
- Government stocks
- UN/NGO/Bilateral stocks
- UNHRD

Upstream

Visibility

Supply Routes

Downstream

- Customs Handling
- Warehouses
- Cold chain
- Waste disposal
- Fleet
- Fuel
- Engineering
- Concept of Operations
- Staff surge Protocols
Potential Pandemic Risk Areas

Additional pandemic risks: Botulism, Dengue/Chikungunya, Yellow Fever, Leptospirosis, Plague
Pandemic Response Items

**Pharmaceutical**
- Vaccines
- Rehydration fluids and distributions sets
- Anti-inflammatories / pain relief
- Oral rehydration salts
- Antivirals
- Antibiotics

**Health Equipment**
- Personal Protection Equipment (PPE sets)
- Hospital beds
- Examination gloves
- Rubbing alcohol
- Oxygen and distribution sets
- Chlorine
- Sample collection and transport kits

**Logistics**
- Goods:
  - Storage units
  - Treatment units
  - Vehicles (trucks, cars, ambulances, motorbikes)
  - Communications equipment
  - Generators
  - Heavy handling equipment
  - Fuel, incinerators, Watsan
- Services
  - Transport + Handling (Passengers and Cargo)
  - Construction / Engineering
Ocean and Air Supply Routes
UNHRD Logistics Hub Kit

Ready to deploy Logistics Hub

Main Items
- 2 x Mobile storage units (10 x 24 m)
- 1 x Prefabricated Office
- 1 x 14 Kva Generator
- 1 x Telescopic Security Light (8 Kva)
- Perimeter fence with gate (32 x 56 m)
- All equipment packed into 2 x Containers (20RT)

Ancillaries included in the kit

<table>
<thead>
<tr>
<th>Plastic pallets</th>
<th>Water Bladder (5,000L) with distribution taps</th>
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<tbody>
<tr>
<td>Electrical distribution box</td>
<td>Shovels, pick axe, machete, silicone gun, crow bar</td>
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<tr>
<td>Empty fuel drum with rotary pump &amp; PVC funnel</td>
<td>Lighting kit for Mobile storage Units</td>
</tr>
<tr>
<td>Toolbox (Electrical)</td>
<td>Office furniture (chairs, desks, cabinet, white board)</td>
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<tr>
<td>Cleaning equipment</td>
<td>Extension cords, adapters, cable ties</td>
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<tr>
<td>Industrial Box</td>
<td>4 fans (for MSU ventilation)</td>
</tr>
<tr>
<td>30 gloves &amp; 6 safety helmets</td>
<td>2 jerry cans</td>
</tr>
<tr>
<td></td>
<td>Ladder</td>
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Supply Chain Information Platform

**SUPPLY NEEDS**
- forecast
- quantities
- lead time

**VIRTUAL SUPPLIES**
- Manufacturing capacities
- Commercial Stocks
- Long Term Agreements

**UP-STREAM TRANSPORT**
(air + sea)
- routes
- capacities
- lead-time

**STRATEGIC RESERVES**
- Humanitarian Stocks
- Government Stocks

**DOWN-STREAM LOGISTICS**
- road transport
- warehousing
- distribution tracking

**SYSTEM OUTPUTS**
- Reports
- Simulations

**Trusted WEB-BASED PLATFORM**
Public-Private Pandemic Supply Chain Initiative

- **Ebola/Davos 2015 follow-up:**
  - More attention to Supply Chain
  - Better engagement of Private Sector

- **Public-private initiative** (incl. WHO, WFP, CDC, Health Care + Logistics companies) committed to strengthen **Supply Chain for Pandemic Preparedness and Response**

- **Progress:**
  - Vulnerabilities and list of top 62 pandemic response items identified
  - Framework for Pandemic Supply Chain strengthening
  - Mission Statement and Protocol of Engagement

- **Next steps:**
  - Develop Supply Chain Information Platform
  - Map commercial production capacities and up-stream supply routes
  - Define Strategic Reserve and Down-Stream Logistics support needs
  - Expand membership and develop governance structure