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# Health Emergency Preparedness

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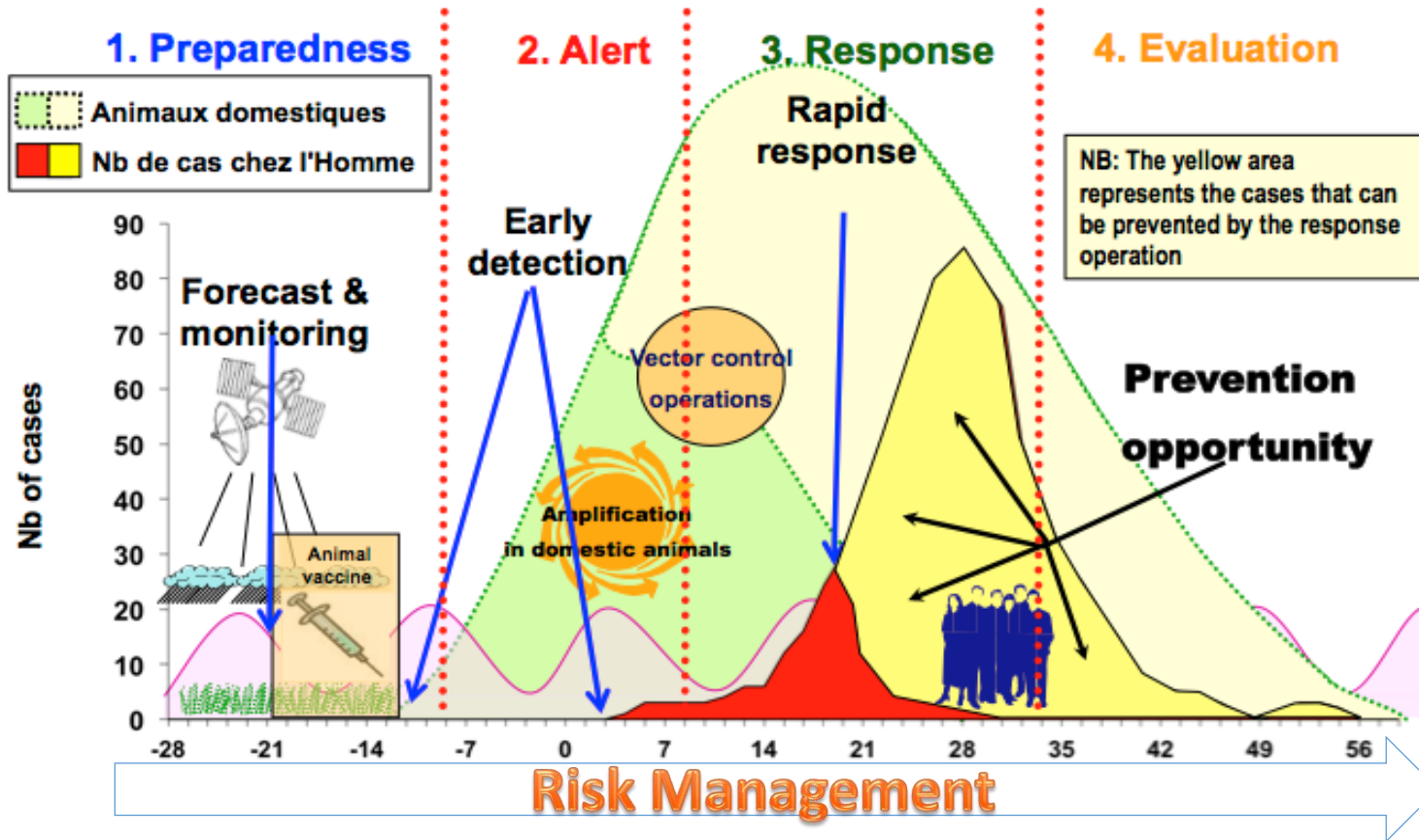
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# Health Emergency Preparedness



A photograph of a warehouse worker operating a yellow STILL forklift. The worker is wearing a black jacket and a headset, and is looking at a tablet mounted on the forklift. The forklift is carrying a pallet of stacked boxes, each with the UNICEF logo and text. The boxes are labeled with '42 m' Rectangular', 'Gross weight: 11.2 kg', 'Size: 225x57x40 cm', and 'Batch n°'. The worker is moving the pallet through a narrow aisle between more stacks of boxes. The text 'Any views?' is overlaid in white on the left side of the image.

Any views?



# Health Emergency Preparedness in UNICEF: HEPI

# Health Emergency Preparedness in UNICEF: HEPI

**Table 1 - DISEASE CLASSIFICATION**

<b>Category 1:</b> Current epidemics of concern and focus diseases of epidemic/pandemic potential requiring the development of the full package of preparedness activities as detailed below.	<b>Category 2:</b> Endemic or epidemic diseases of potential threat/changing pattern that require additional attention and capacity building with the development of a basic support package of preparedness activities as detailed below.	<b>Category 3:</b> Epidemic diseases are of interest to UNICEF, but response will be limited to linking to existing resources as detailed below.
Ebola, Marburg MERS, SARS, CoV Zika, Dengue, Chikungunya <i>Avian Influenza, Pandemic Influenza</i>	Crimean-Congo Hemorrhagic Fever Lassa/Rift Valley Fever Leptospirosis Plague	Hantavirus Hepatitis E Shigellosis Seasonal Influenza
<i>Cholera</i> Malaria Measles Meningitis Polio Yellow fever	West Nile Virus	Typhoid Fever

Category 1a

Category 1b

**Supply list + LTA  
+ Prepositioning  
+ Supply Notes**

**Supply list + LTA  
+ Supply Notes**

**Supply list**

# Health Emergency Preparedness in UNICEF: HEPI

	CATEGORY 1	
	Category 1a	Category 1b
Supply Lists <i>(Technical)</i>	<ul style="list-style-type: none"> <li>8 diseases</li> <li>Finalized &amp; approved by DO</li> </ul>	<ul style="list-style-type: none"> <li>5 diseases</li> <li>Final review by PD (end of March)</li> <li>Submission to DO planned for June 2017</li> </ul>
ESL <i>(ECU)</i>	<p><u>1<sup>st</sup> HEPI supplies incorporation into ESL</u></p> <ul style="list-style-type: none"> <li>Approval date: 04-Jul-2016</li> <li>Number of item reviewed: <b>110</b></li> <li>Value increase: \$ 308,217</li> </ul>	<p><u>2<sup>nd</sup> HEPI supplies incorporation into ESL</u></p> <ul style="list-style-type: none"> <li>Pending submission to DO</li> <li>Number of item reviewed: ?</li> <li>Value increase: ?</li> </ul>
Prepositioning <i>(Contracting)</i>	<p>Total HEPI items incorporated into ESL: <b>110</b></p> <ul style="list-style-type: none"> <li>HEPI Stock at SD WH: 75 items</li> <li>On PO being delivered to SD: 12 items</li> <li>At supplier: 15 items</li> <li>R&amp;D: 8 items</li> </ul>	<p>Initiate contracting activities of Category 1b items upon DO's approval</p>
Supply Notes	<ul style="list-style-type: none"> <li>Drafts close to finalization: 4</li> <li>Pending: 4</li> <li>Additional notes: 2 (Zika RDT &amp; Airborne/droplet PPE)</li> </ul>	<ul style="list-style-type: none"> <li>Drafts close to finalization: 5</li> <li>Pending: 0</li> <li>Additional notes: 1 (cholera)</li> </ul>

# Health Emergency Preparedness in UNICEF: HEPI

	CATEGORY 2	CATEGORY 3
Supply Lists <i>(Technical)</i>	<ul style="list-style-type: none"><li>• 6 diseases</li><li>• Technical input and endorsement by Center Chiefs by 30-Jan-2017</li></ul>	<ul style="list-style-type: none"><li>• 5 diseases</li><li>• Technical input and endorsement by Center Chiefs by Q1 2017</li></ul>
ESL <i>(ECU)</i>	N/A	N/A
Prepositioning <i>(Contracting)</i>	<ul style="list-style-type: none"><li>• LTA to be in place</li><li>• No prepositioning envisaged</li></ul>	N/A
Supply Notes	<ul style="list-style-type: none"><li>• Finalized draft: 0</li><li>• Pending: 6</li></ul>	N/A

# Health Emergency Preparedness in UNICEF: HEPI

## Technical

- **Q1-Q2:** Finalize supplies list for category 2 & 3
- **Q2:** Update of supply web catalogue with new standard stock items
- **Q3-Q4:** Global review of:
  - Disease categories
  - Supply lists
  - Quantification models

## Contracting

- **Q1 – Q4:**
  - Finalize contracting of category 1a
  - Initiate contracting of category 1b
  - Initiate contracting of category 2

## Supply Notes

- **Q1-Q2:** Finalize supply notes for category 1a and 1b
- **Q2:** Initiate supply notes for category 2
- **Q3:** Finalize supply notes for category 2



# Health Emergency Preparedness in WHO

# Health Emergency Preparedness in WHO

Multi-stepped quantification approach

1. Specify areas for which supplies are needed.
2. Configure modules to rationalize investment needs and cater for overlap across diseases.
3. Determine specific module configuration per disease.
4. Align quantities to match disease strategy and desired preparedness level (size of target population).
5. Build stockpiles and/or supply agreements to match desired response time.

# Health Emergency Preparedness in WHO

## Supply Modules Status and Availability

	Common Items	Blood	Respiratory	Stool	Skin	Urine	CSF	Packaging Transport
Sample Collection	Common Items	Blood	Respiratory	Stool	Skin	Urine	CSF	Packaging Transport
RDTs	CHV	Cholera	Dengue	Ebola	Influenza	Lassa Fever	Malaria	Plague
Treatment	Botulism	Diphtheria	Influenza	Leptospirosis	Lassa Fever	Malaria		
Fluid Mngmnt	Oral drug	IV Drug	IV Renewable					
Oxygen Therapy	Renewable	Equipment						
PPE	Standard Precaution	Blood borne	Aerosol droplet		Bed net			
Vector Control	Equipment	Insecticides	PPE					
Infra-structure	Shelter	Water	Sanitation	Support	Fencing			
Strengthen PHC	Basic Unit	Supplem. drugs	Supplem. controlled	Supplem. Equipment	Supplem. Renewable	Basic Malaria	Supplem. Malaria	

Legend

- Specified & available
- Specified

# Health Emergency Preparedness in UNICEF: HEPI

## Example: Dengue / Module configuration

Sample Collection	Common Items	Blood	Respiratory	Stool	Skin	Urine	CSF	Packaging Transport
RDTs	CHV	Cholera	Dengue	Ebola	Influenza	Lassa Fever	Malaria	Plague
Treatment	Botulism	Diphtheria	Influenza	Leptospirosis	Lassa Fever	Malaria		
Fluid Mngmnt	Oral drug	IV Drug	IV Renewable					
Oxygen Therapy	Renewable	Equipment						
PPE	Standard Precaution	Blood borne	Aerosol droplet		Bed net			
Vector Control	Equipment	Insecticides	PPE					
Infra-structure	Shelter	Water	Sanitation	Support	Fencing			
Strengthen PHC	Basic Unit	Supplem. drugs	Supplem. controlled	Supplem. Equipment	Supplem. Renewable	Basic Malaria	Supplem. Malaria	

Optional - can be added as warranted by respective context.

# Health Emergency Preparedness in WHO

Pending | Input required

1. Size of target population needs to be defined by disease to align supplies quantities.
2. Desired response time by disease needs to be defined to create stockpile and/or supplier agreements.
3. Above will define budgetary needs for chosen preparedness level.



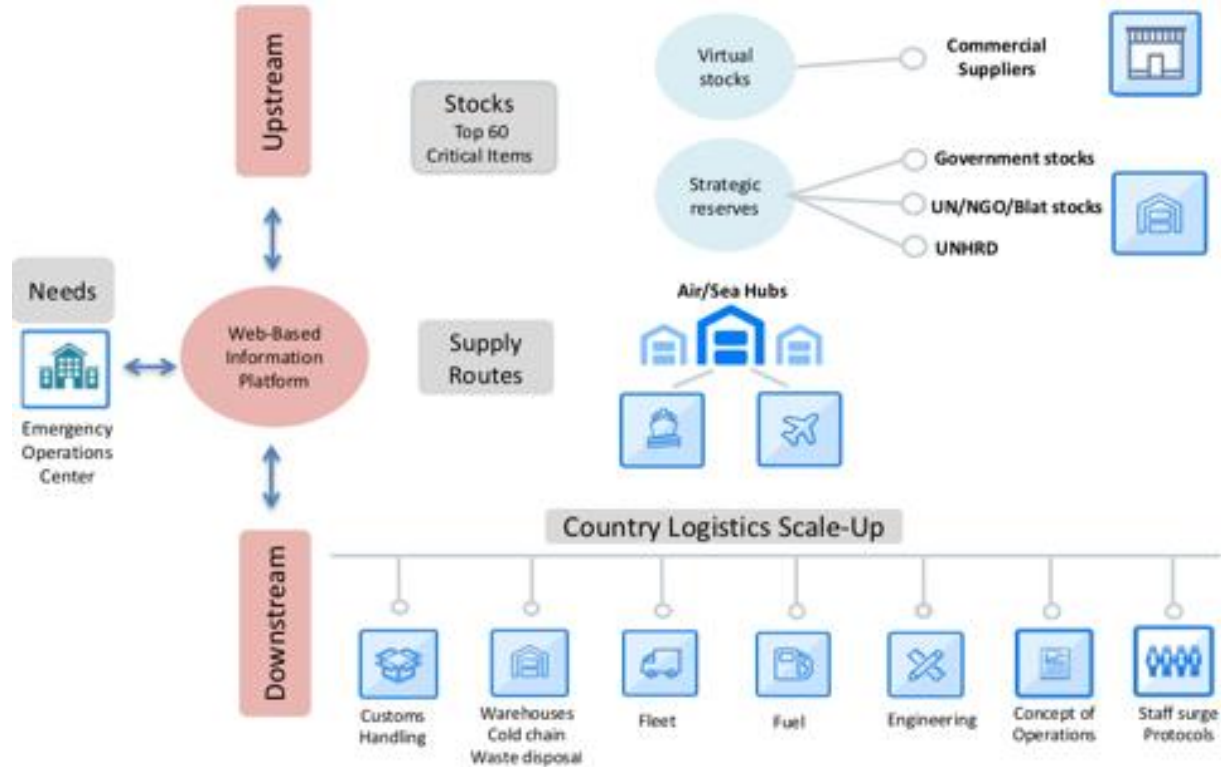
# Health Emergency Preparedness: Pandemic Supply Chain Initiative

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# Why a Pandemic Supply Chain Network?

- **Vision:** A safer world through pandemic preparedness and response
- **Mission:** Create and sustain a global supply chain network to address Pandemics and public health emergencies of international concern (to support Member States ? And humanitarian responders ?)
- **Preamble:** The West Africa Ebola crisis and discussions at the World Economic Forum in Davos motivated private and public sector organizations to strengthen supply chain capacities for pandemic preparedness and response

# Health Emergency Preparedness: Pandemic Supply Chain Initiative





## Top 60 Pandemic Response Items

### Pharmaceutical

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

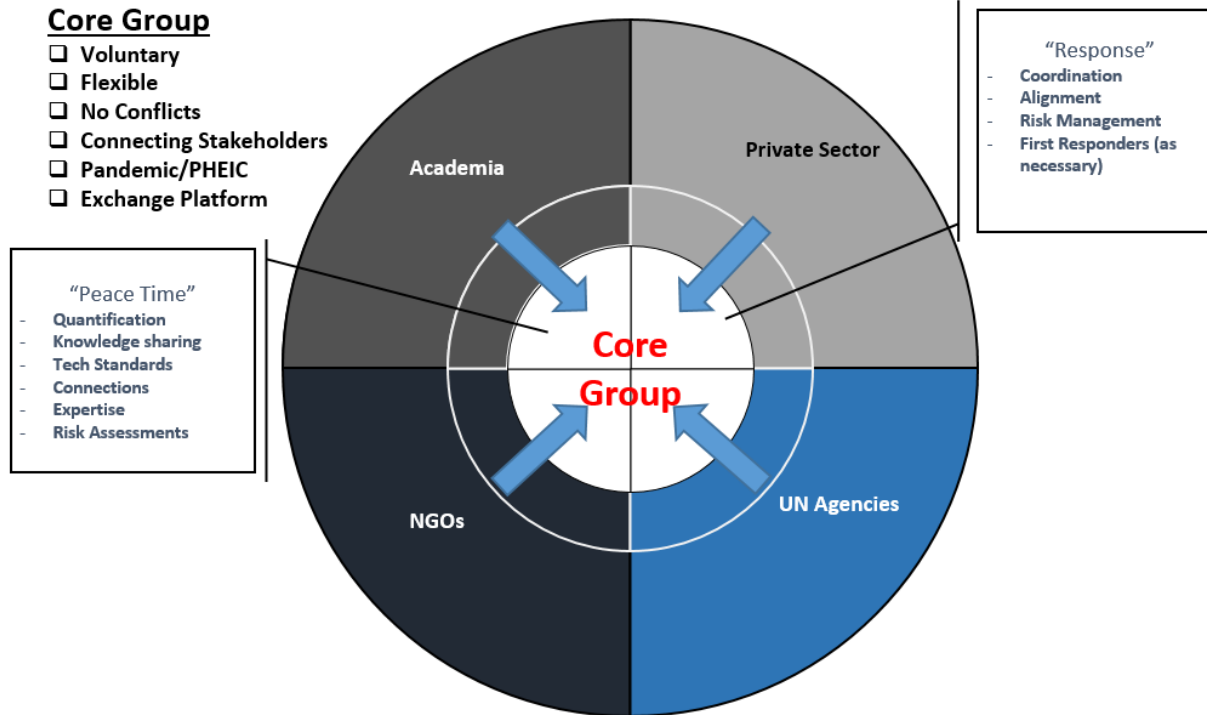
### Health Equipment

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

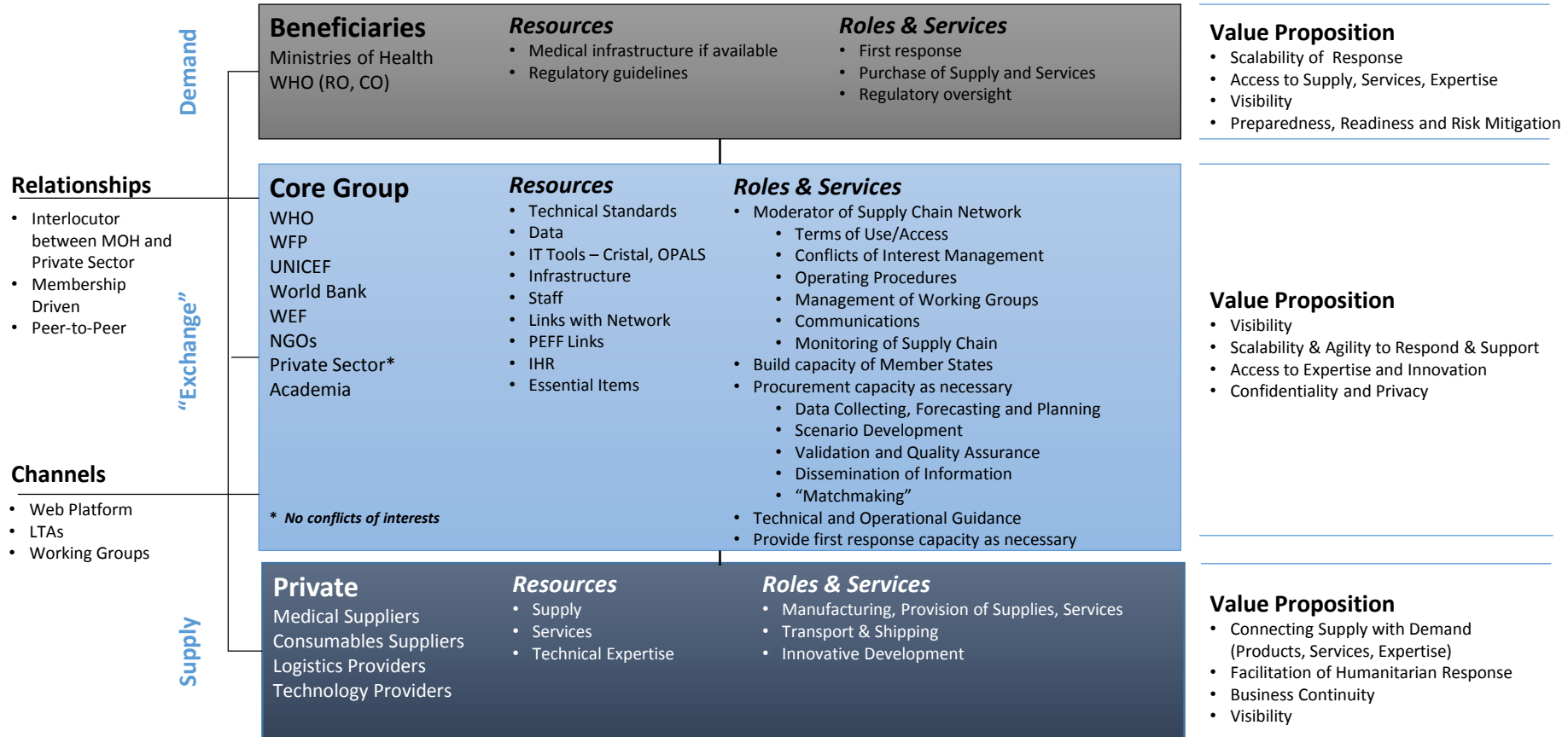
### Logistics

- 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

## Pandemic Supply Management Model



# Pandemic Supply Chain “Exchange” Platform



# Working Groups

What is essential in Health Emergency Preparedness for a well-coordinated, rapid and efficient response?

спасибо  
danke 謝謝  
ngiyabonga  
teşekkür ederim  
dank je  
gracias  
tapadh leat  
hvala  
mauruuru  
thank you  
mochchakkeram  
dziękuję  
go raibh maith agat  
sagolun  
sukriya kop khun krap  
arigatō  
tak  
dakujem  
merci  
merci  
obrigado  
faleminderit  
terima kasih  
감사합니다  
ευχαριστώ