

HEALTH & LOGISTICS

VACCINE MANAGEMENT IN COVID TIMES

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4 March 2021



PREPARATION FOR UNPRECEDENTED GLOBAL DELIVERY

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- Globally **10bn doses** to cover worldwide population
 - **Temperature ranges** from 2-8°C to -70°C
 - **200k pallet shippers** and **15m cooling boxes**
 - Variety in **supply chain archetypes**
 - Availability **logistics capacity** and **packaging**
 - Additional demand for **ancillaries** and **testing kits**

Three archetypes of end-to-end logistics solutions for COVID-19 vaccine distribution

Source: DHL, McKinsey

1



1. Direct shipment to point of use

Direct shipment of pallet shipper or cooling box from fill-finish to point of use

2



2. Local cross-docking

Local cross-docking of cooling boxes on pallet to reduce cross-border costs

3

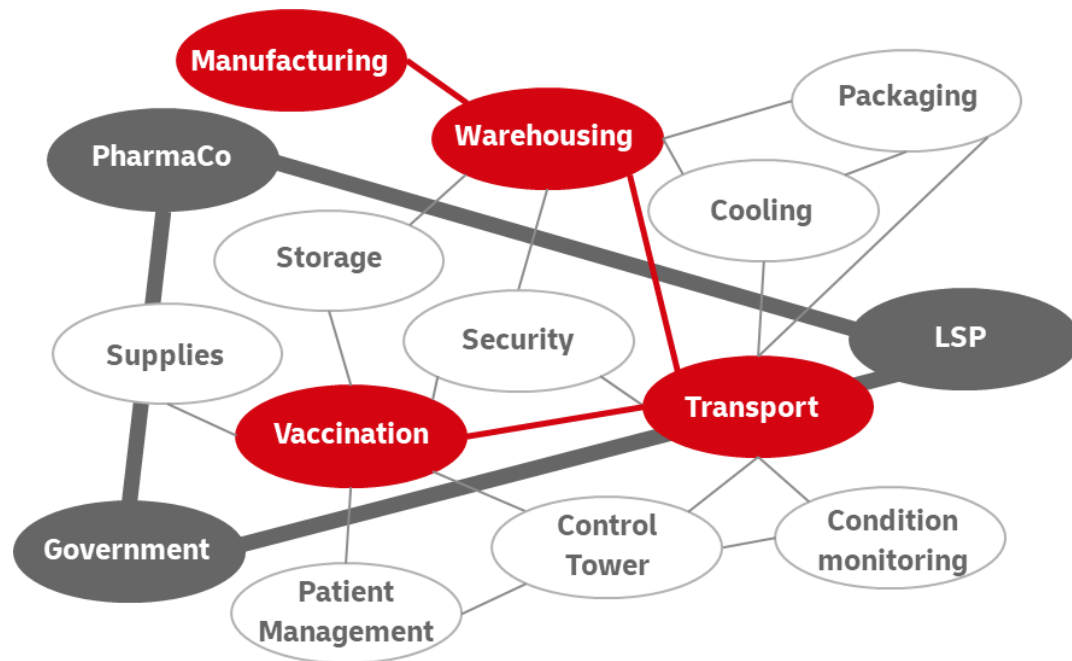


3. Local warehousing

Use of local storage and fulfillment capacities to break-down pallet shipper into cooling boxes

COMPLEXITY OF COVID-19 VACCINE SUPPLY CHAIN

PharmaCo & Public Sector



Vaccine Distribution - simplified view

VACCINE DISTRIBUTION IN ACTION



DHL, 16 Dec 2020



Straits Times, 21 Dec 2020



VOA News, 23 Dec 2020



DHL, 8 Dec 2020



DHL, 8 Jan 2021



DHL, 8 Jan 2021

VACCINE DISTRIBUTION CONTINUES

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DHL delivers COVID-19 vaccines to Japan

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THE STRAITS TIMES

ASIA / SE ASIA

Plane carrying Malaysia's first batch of Covid-19 vaccines arrives at KL International Airport



2 of 2 The Malaysia Airlines Flight MH604 landed at about 10:00am on Sunday. PHOTO COURTESY



DETAILS EMERGE ON DHL VACCINE DISTRIBUTION ROLE HERE

Date: 15.02.2021



McCormack and Coulton inspect cold-storage infrastructure

A federal government visit to DHL Supply Chain's ultra-cold storage facility has revealed more information on the German logistics giant's vaccine distribution process in Australia.

DHL Australia's ultra-cold and secure storage facility will keep safe the supply of Australia's Pfizer-BioNTech vaccine, which needs to be stored at between minus 60 and 80 degrees.



Saul Resnick with Mark Coulton and Michael McCormack



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