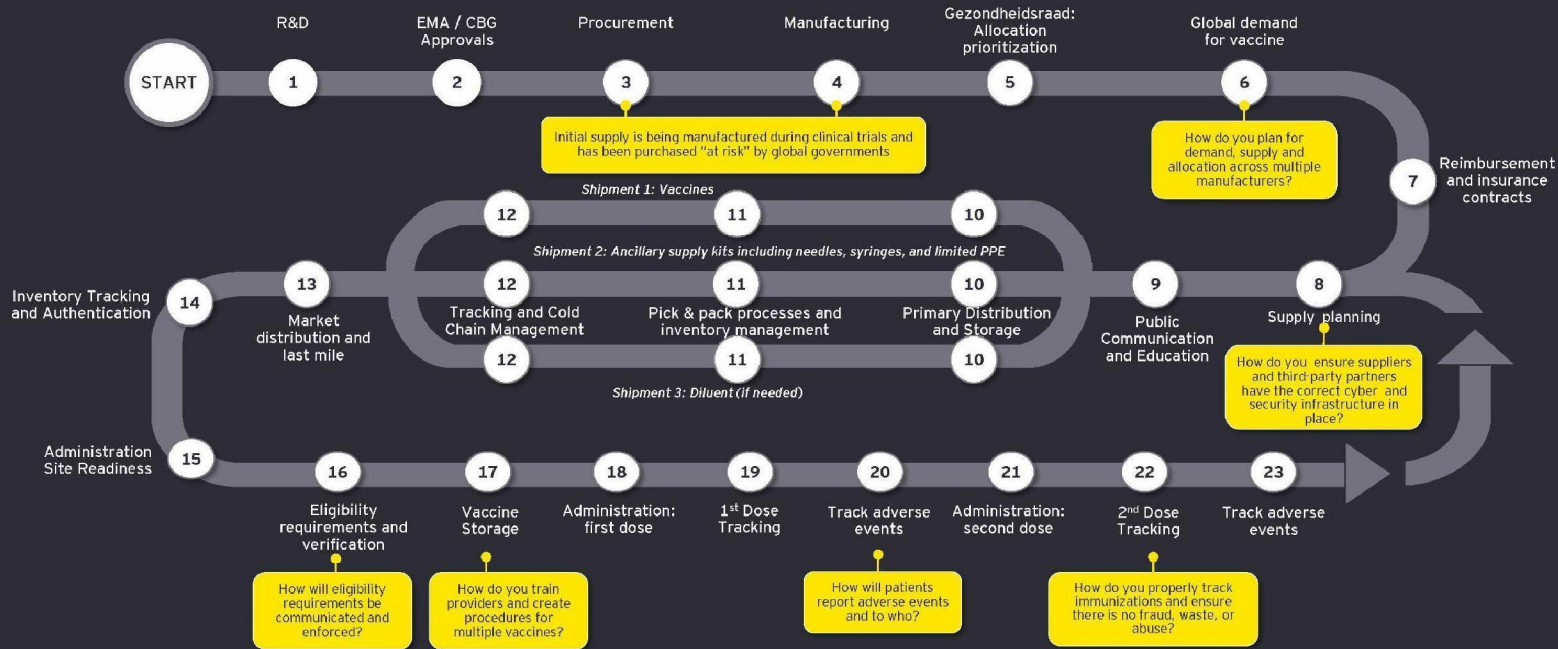


Government preparation for COVID-19 Vaccines

December 2020



The COVID-19 vaccine Supply Chain ecosystem is complex and requires real time, 24/7 monitoring and synchronization



Detailed actions across the COVID-19 vaccine supply chain are required



Plan

- ▶ Understand uptake curves and granularity of demand
- ▶ Develop and perform legal risk assessment before entering into any contract with distributors, vendors, logistics partners etc. and ensure transparency throughout



Source

- ▶ Assure end-to-end visibility of lot traceability of all vaccines & ancillary kits
- ▶ Align vaccines / auxiliary supply kits based on the demand and the life of each vaccine



Store

- ▶ Different vaccines may have different storage requirements
- ▶ Site selection will need to balance storage constraints / requirements and population coverage



Deliver

- ▶ Early decision making to be done on in-house versus third party logistics providers
- ▶ Service level agreements (SLAs) should be put in place towards external partners



Return

- ▶ Estimate and handle the returns
- ▶ Specify all reverse logistics processes

...and various points to be addressed

- ▶ Perform end-to-end planning, instead of sequential planning, in order to oversee all critical steps in the vaccine supply chain

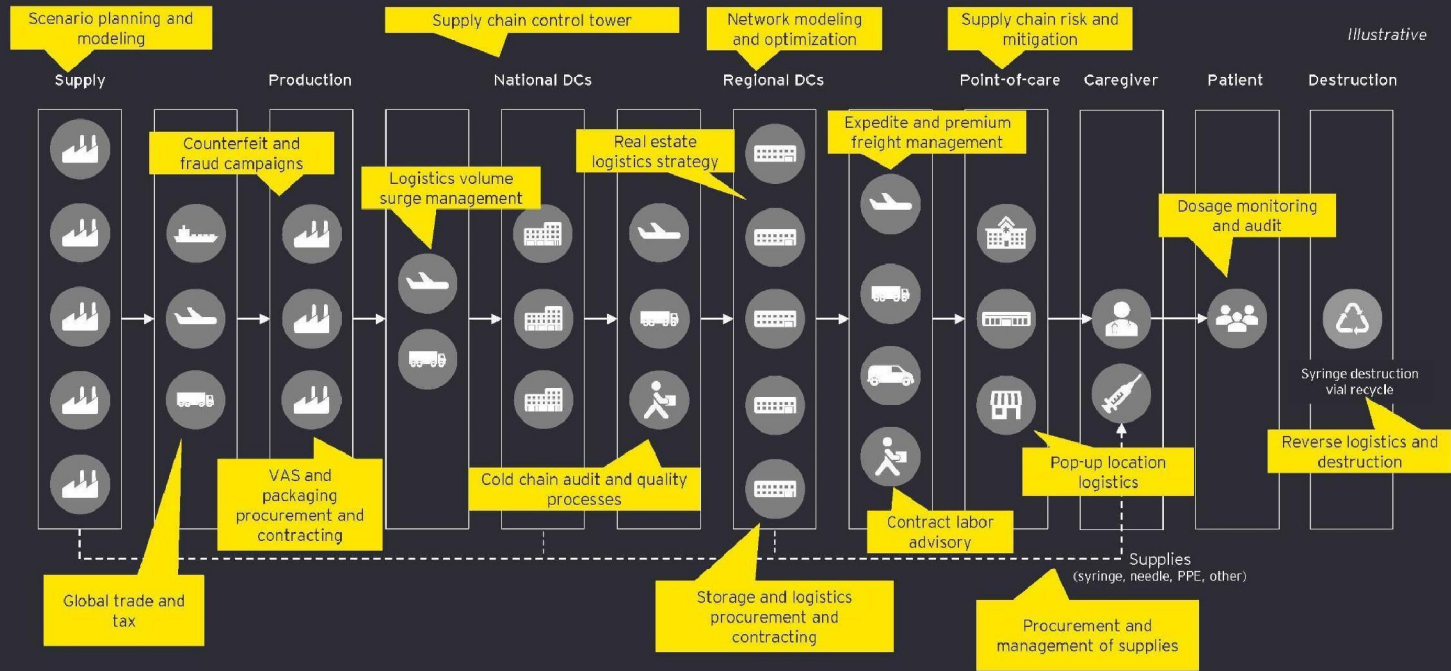
- ▶ Possible errors when transporting vaccines from sourcing units to countries (misalignment in order fulfillment)

- ▶ Delays in pick pack & orders fulfillment can disrupt the replenishment of vaccination centers
- ▶ Incorrect inventory cycle counts can cause losses in vaccines

- ▶ Ensure adequate transport and distribution conditions

- ▶ Assure a well synchronized collaboration between DC & distribution vehicles

EY Supply Chain & Operations can support along the end-to-end COVID-19 Vaccine Supply Chain



Furthermore, EY can support with a holistic approach to vaccine management in order to accelerate success

EY can support across the following areas:

- 
Communication
 - ▶ Vaccine Survey and segmentation model
 - ▶ Vaccine communication plans for citizens, health departments and partners
 - ▶ Provide templates for press, officials, local health districts and other ecosystem partners for briefings & presentations
- 
Command Center
 - ▶ Stand up and operate a Vaccine Command Center
 - ▶ Establish Emergency Incident Response center
 - ▶ Standup Contact Center for ecosystem partners, providers, and residents
- 
Patient Provider Solutions
 - ▶ Selecting patient/provider solution/application
 - ▶ Configuring and testing a selected solution/application
 - ▶ Deploying with training and hyper-care
- 
Supply Chain & Inventory Mgt
 - ▶ Allocation, supply and demand planning for PPEs and vaccines
 - ▶ Scaling distribution plans, storage capacity, reverse logistics and waste removal
 - ▶ Determine fit existing inventory mgt solution and recommend go-forward approach
 - ▶ Work with partners to determine storage and distribution viability
- 
Analytics
 - ▶ Patient vaccination forecasts
 - ▶ Vaccine and supplies requirements by geo
 - ▶ Key metrics including inventory levels, storage capacity, product usage
 - ▶ End-to-end traceability of products

Where we're doing it / done it before

- 
 Developed and executed a launch of communications plan to roll out an exposure notification app for a Southeastern state
- 
 Supported a US Northern State to assess its statewide COVID-19 community engagement response
- 
 Providing Command Center services to the Department of Health and Human Services of a US Southeastern state
- 
 Supporting global pharma company in its global governance efforts to accelerate the development, manufacture and delivery of an effective & safe vaccine
- 
 Providing demand forecasting and analytics for vaccine program in US Southeastern state
- 
 Enabling global pharma company with advanced digital capabilities to accelerate manufacturing and launching of vaccine

NL Supply Chain & Operations contacts



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