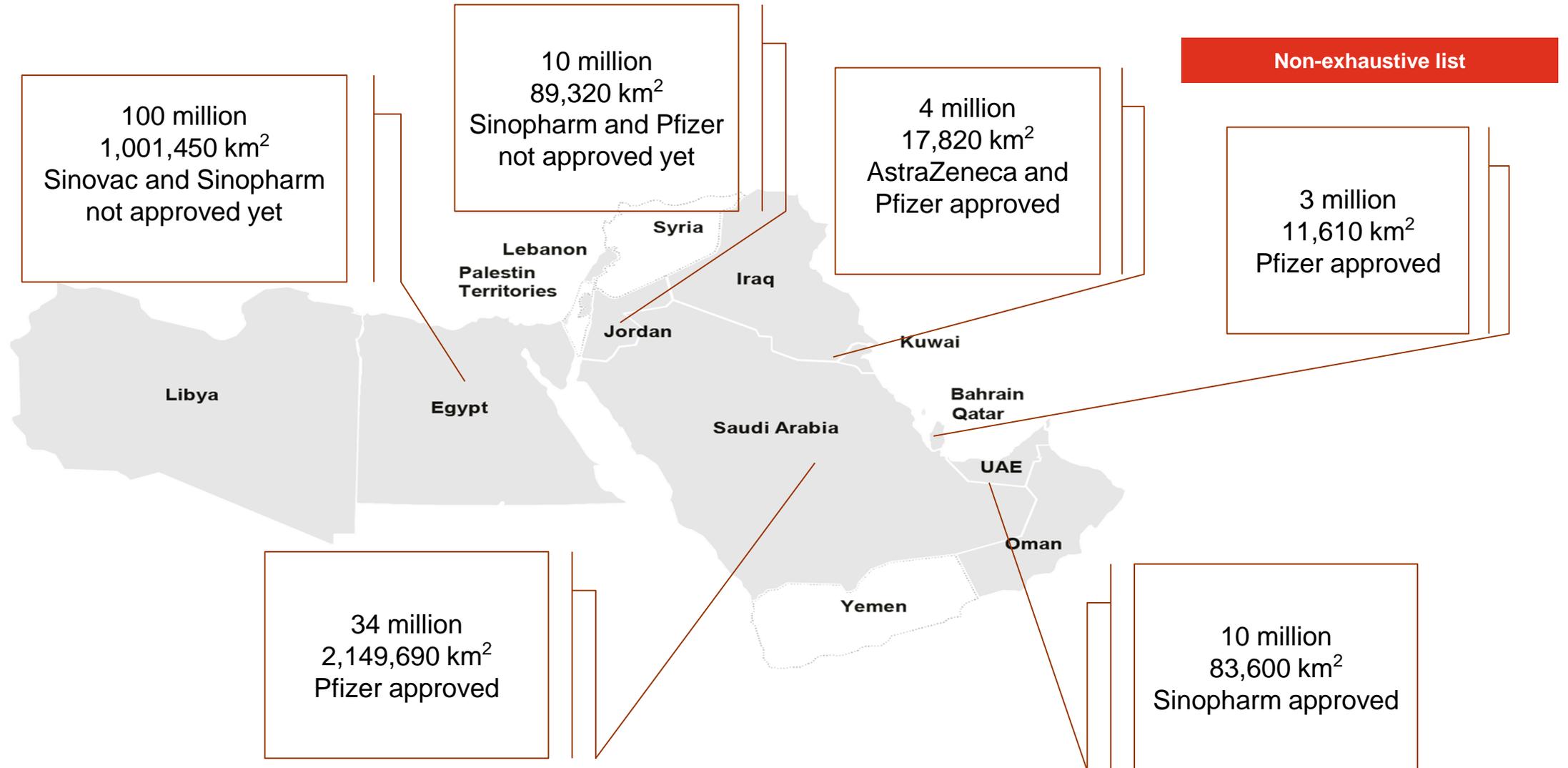


Air Freight Conference 2020

Supply chain for COVID-19 vaccine



# Countries in the Middle East are at different stages of vaccine approval with at least three vaccine options



# Based on a set of factors, these countries devised different approaches to vaccination coverage



## Factors considered

- Population size
- Demographics
- Geographic area
- Financial capacity

### Country

### Approach



- Will administer Pfizer vaccine
- Vaccine will be rollout out over 3 stages starting with frontline medical staff, seniors over 65, and high-risk individuals such as obese, diabetic, or asthma patients



- UAE to procure Sinopharm vaccine
- It will be administered through medical centres spread across the seven emirates



- Will coordinate with UAE to procure Sinopharm vaccine
- Currently negotiating with Pfizer for February delivery
- Will cover 20% of the population in 11 stages



- Received two shipments of Sinopharm vaccine from UAE
- Currently negotiating with Sinovac to manufacture vaccine in Egypt to cover population



- Sealed deals with drug manufacturers AstraZeneca and Pfizer
- Designated International Fairground as the country's vaccine centre
- It intends to vaccinate 10,000 individuals daily over a year period



- Will be receiving Pfizer vaccine quantity that covers over 50% of the population
- Priority will be given to elderly and individuals with chronic diseases in addition to the frontline medical staff

However, to execute the vaccination plans, there are several challenges to address

## Challenges to address

1

Pfizer vaccine requires extremely cold temperature during storage and transport

2

Reaching population in remote areas such as the case of Saudi Arabia and Egypt

3

Proper track and trace of vaccine shipments during the logistics and storage cycle

4

Individuals willingness to receive the vaccine given insufficient testing and unclear long-term side effects

5

Last mile delivery of the vaccine

# To address the supply chain challenges, countries may consider some of the following ideas

1

## Transport and store

- Utilization of cold supply chains (including dry ice), establishment of transportation hubs and designation of a set of hospitals (or centres) with proper cold storage capability and capacity

2

## Distribute

- Bring individuals to designated hospitals to minimize chances of mishandling of vaccine shipments during last mile
- Use of mobile clinics to reach remote population areas

3

## Track and trace

- Implementation of sensors to track shipment and temperature
- Use of block chain technology to maintain shipment records including physical locations, travel routes, shipment temperature and so on.

# Presenter



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# Thank you

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