

# Considerations for mass deployment of innovative vaccines in LMIC immunization programmes

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# Scope

- Role of new technologies on immunization programmes
- Generating 'buy-in' at the country level
- Perspective on country readiness for entirely new and unfamiliar platforms intended for rapid roll out; case study Kenya

# Countries are advised to have an operational Immunization Policy



MINISTRY OF HEALTH KENYA  
NATIONAL POLICY GUIDELINES  
ON IMMUNIZATION

## The National Immunization Program

Guiding principles on immunizations

New and Emerging Vaccines

Advocacy & resource mobilization

Guide for Operational research

Creation of the NITAG

# Vaccine storage

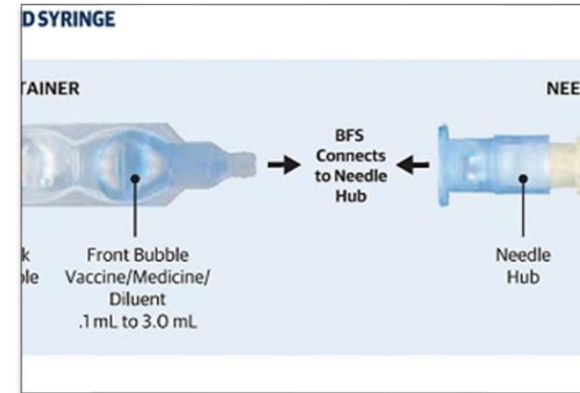
This is a fundamental requirement for vaccine introduction

Cold space burden has to be guaranteed before even the earliest consideration

Innovations should always aim for minimal expansion of cold space needs



Single and multi-dose containers



Single dose prefilled injector



**Pouch with attached reusable syringe** for use with disposable needle.



Pouch with a Luer port for use with Luer syringes with separate needles.

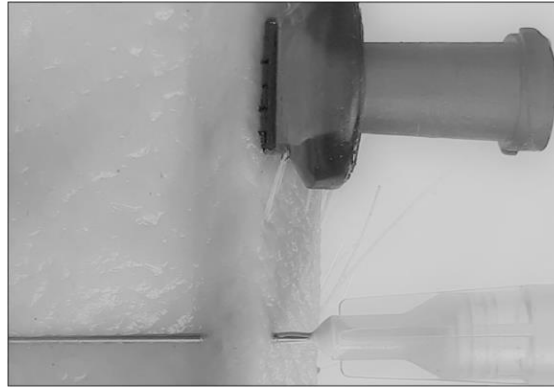
# Vaccine Delivery

These innovations aim to improve safety, delivery accuracy and ease of use.

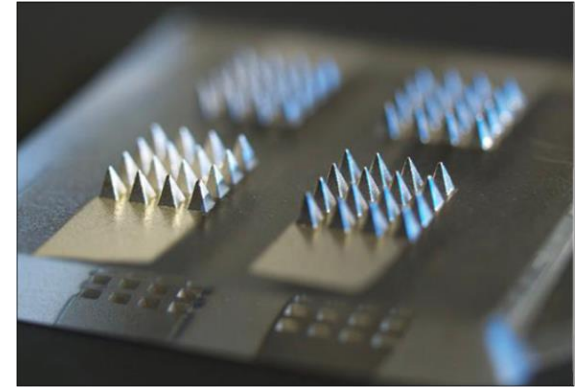
Additional training is always needed

Consideration should include multiple antigens in 1 device

Cost always a consideration as such may not be covered by GAVI



Microarray/needle patch



Microarray/needle patch



Oral delivery



Oral delivery

Overcoming challenges of new  
technology/vaccine introduction

## Essentially Cascaded

### Additional Training

- All new vaccine and/or innovations require additional training
- A massive multi-age intervention is expected to attract even higher needs as the usual EPI teams would not cope on their own
- Successes of such intervention will be driven by quality and extend of such training



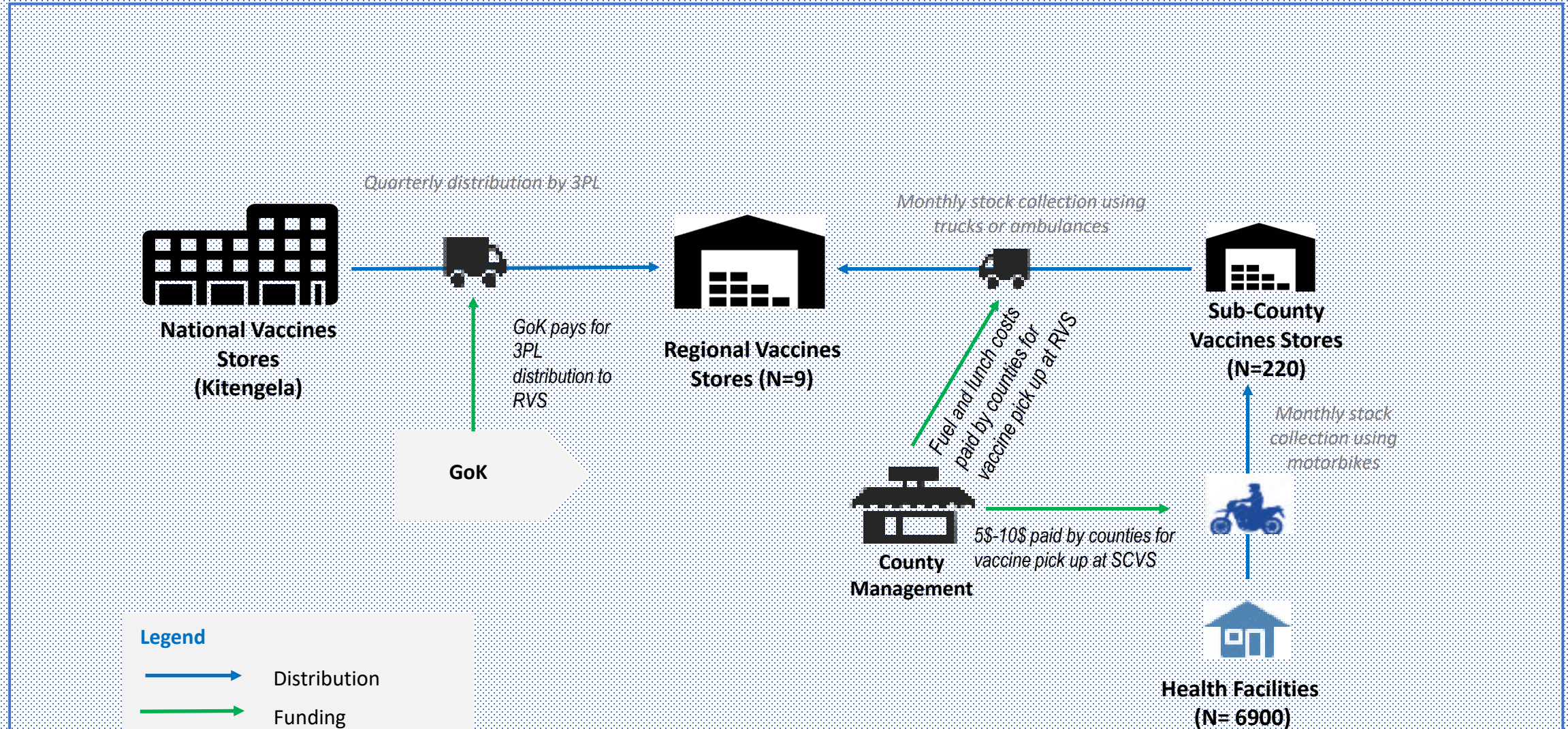
For the  
leadership  
levels

For the  
frontline  
worker

Typical cost....

# Safe Storage and Transportation

## Not Always Easy [case of Kenya]





Enhancing Buy In

# Key Buy in Considerations

## ITEM

Regulatory Approval

Product Selection

Criteria for Introduction

## RESPONSIBILITY

Appropriate bodies available in LMICs

Usually driven by GAVI

Set by NITAG for MOH

## CHALLENGES

Where absent WHO guides used

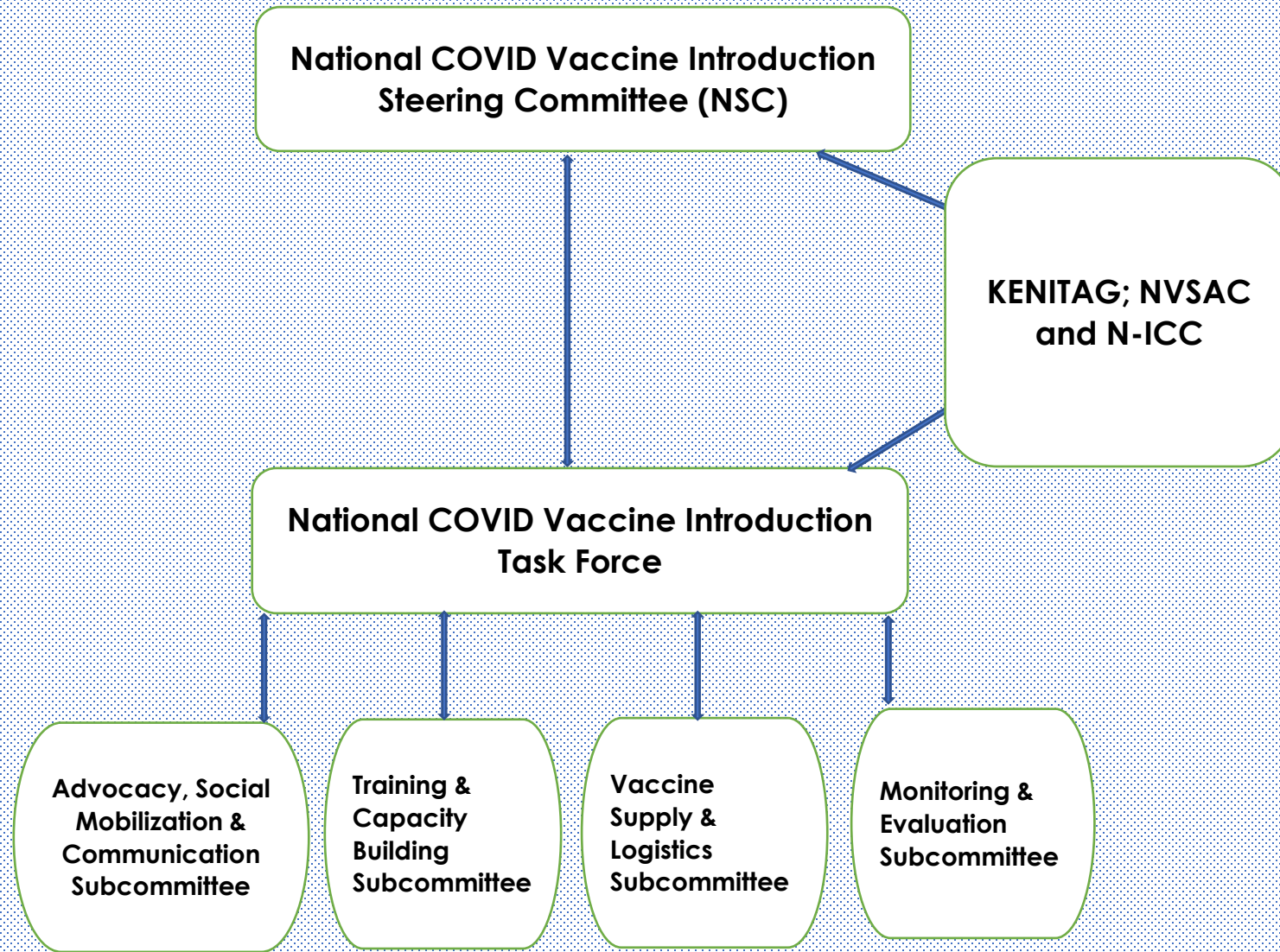
Impact of total cost-share

Weak in many LMICs

# COUNTRY PREPAREDNESS

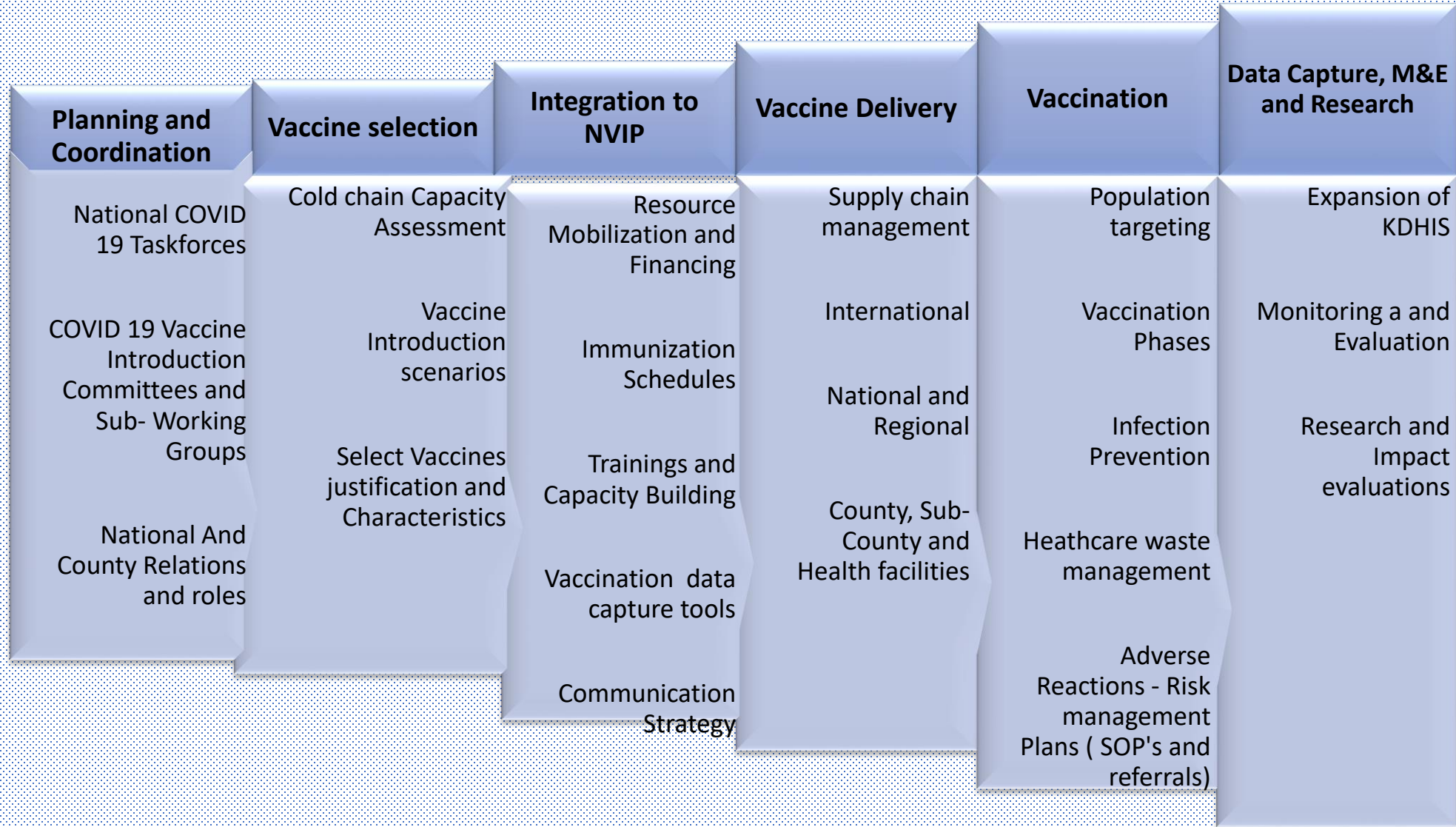
Case Study; Kenya Prepares for COVID-19 Vaccination

# Governance Framework for Vaccine Implementation



**\*\*Kenya National Immunization Technical Advisory Group (KENITAG), the National Vaccine Safety Advisory Committee (NVSAC) and the National Immunization Interagency Coordinating Committee (N-ICC) provide technical and advisory support and ensure coordination between different stakeholders.**

# Conceptual Framework for Covid 19 Vaccine introduction



# Phased Approach for COVID-19 Vaccine Introduction in Kenya

## Phase I (Q3 & Q4, FY 2021/2022)

- **Vaccine supply limited**
- **Focus:** Rapidly reaching critical target populations
- **Priority Group:** Front line Health Care Workers (HCWs- Including CHWs) Critical/ Essential Workers
- **Target Population:** 1.25 Million

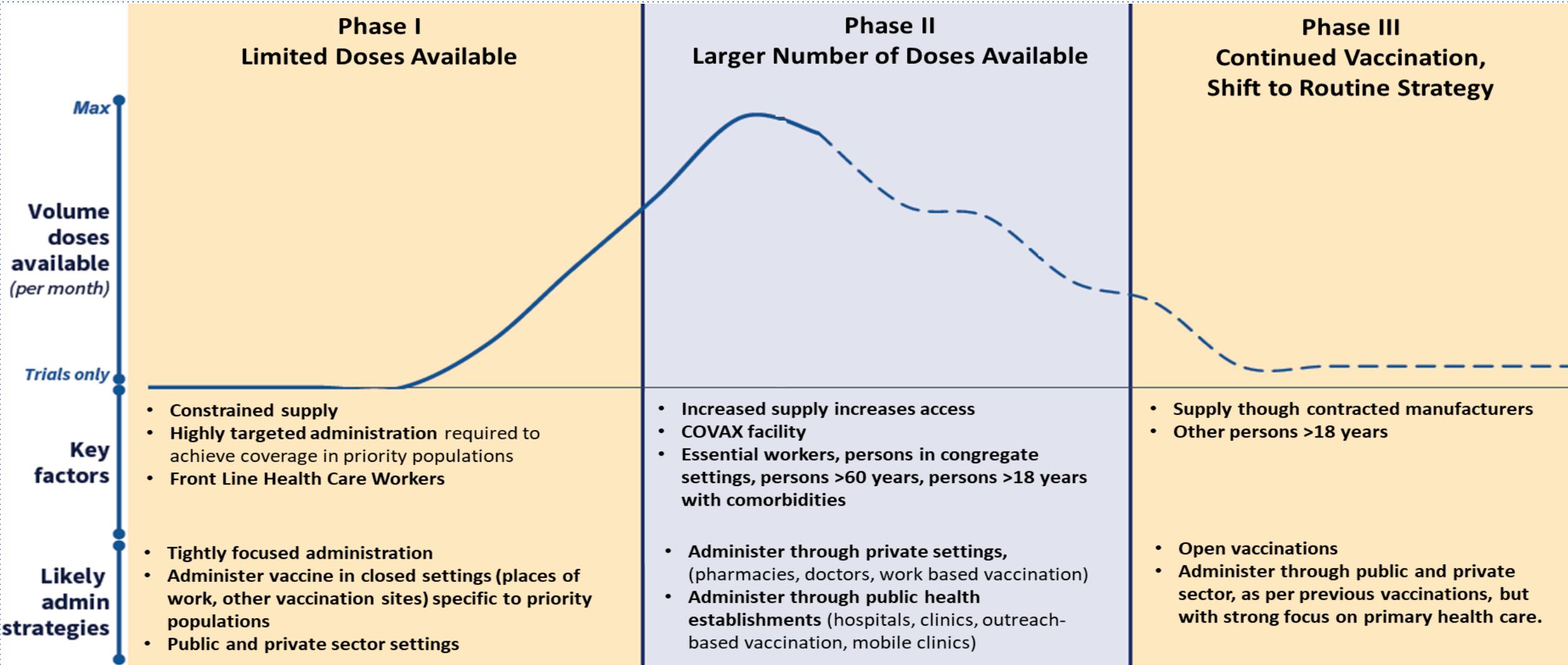
## Phase II (FY 2021/2022)

- **Larger number of vaccine doses available**
- **Focus:** Rapidly reaching target populations most vulnerable to severe disease and death
- **Priority Group:** Persons >50 years and those >18 years with co-morbidities
- **Target population:** 9.76 Million

## Phase II (FY 2022/2023)

- **Sufficient supply of vaccine doses**
- **Focus:** Ensuring equitable vaccination of other vulnerable groups
- **Priority Groups:** Persons > 18 years in congregate settings, Hospitality and tourism industry
- **Target Population:** 4.9 Million

# Phased approach based on availability of Vaccines- Scenarios



\*\* Distribution will adjust as volume of vaccines increases, moving from targeted to broader population reach (phased approach)

Advocacy; Awareness  
Creation



# ADVOCACY; RUNNING 4 CHILD SURVIVAL AWARENESS

