







## WHO Member State Briefing 11 Nov 2021



### Content

### **Global COVID-19 vaccine rollout**

Dr Soumya Swaminathan, Chief Scientist (WHO)

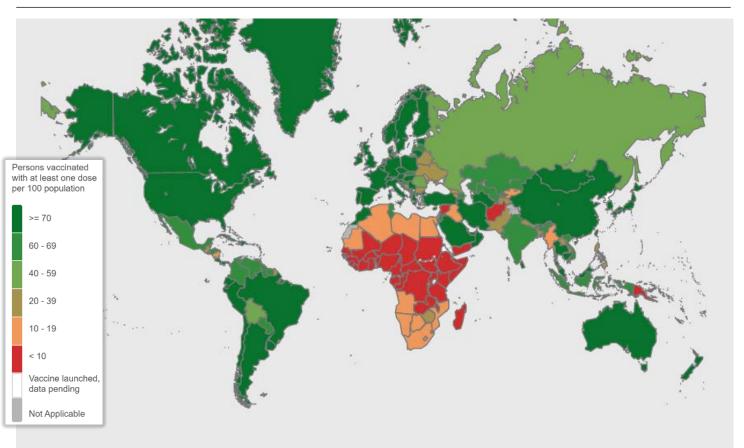
# Accelerating COVAX Supply Situation & Action by WHO Member States

Dr Seth Berkley, Gavi CEO

# While >7.3 billion doses have been administered globally, vaccine equity remains the 'challenge of our time'



### Persons vaccinated with at least one COVID-19 dose per 100 population



- 7,364M vaccine doses
   have been administered
- 23x more doses

   administered per
   inhabitant in high income
   countries than in low
   income Countries
- Only 4.2% of people in low income countries have received at least one dose

Note: The designations employed and the presentation of these materials do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

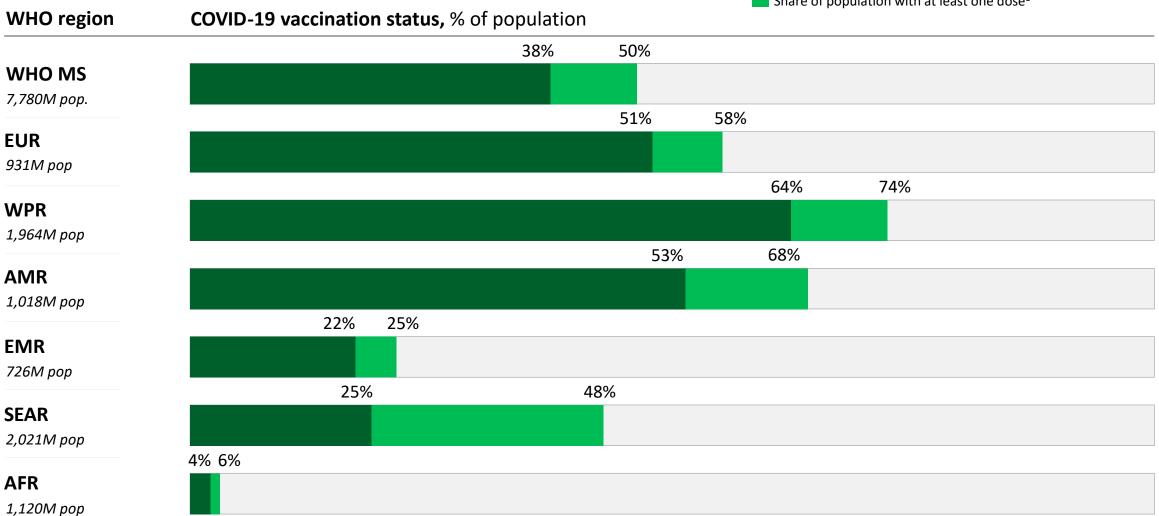
Source: WHO COVID-19 Dashboard

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## 50% of the total population across WHO Member States have had at







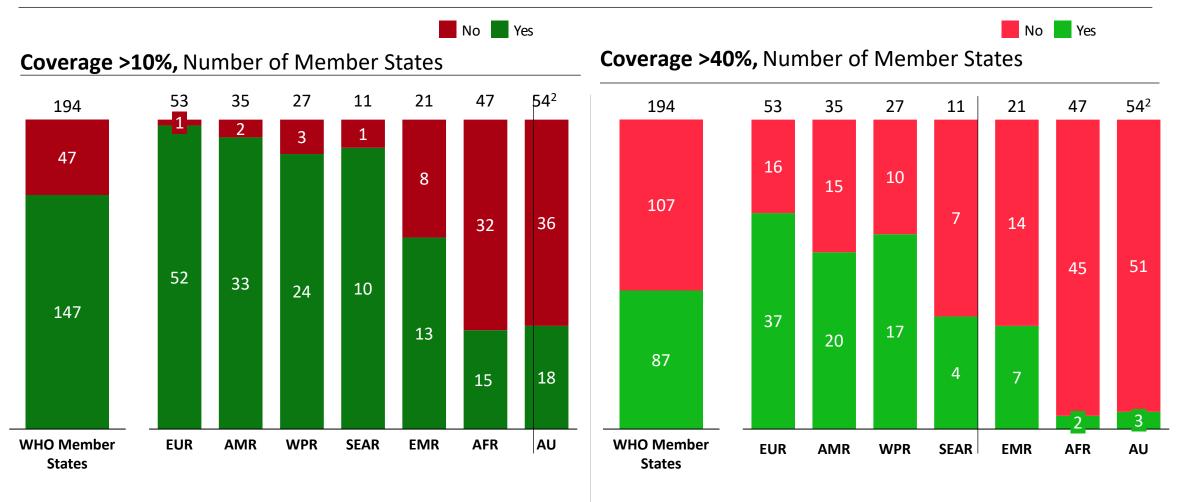
<sup>1.</sup> Incl. fully vaccinated people II 2. Excl. fully vaccinated people

<sup>2. ~17</sup>m decrease in comparison to Nov 8 reporting, potentially not fully updated database

# 47 WHO Member States have vaccinated less than 10% of their population, and 107 less than 40%



Share of WHO Member States with coverage<sup>1</sup> of at least 10/40%



<sup>1. #</sup> of persons fully vaccinated as a proportion of total population

Source: WHO COVID-19 Dashboard

No data available for Sahrawi Arab Democratic Republic

# All vaccines that have received WHO EUL are quality assured, safe and efficacious in preventing severe disease and death





## Comparable to results of efficacy trials

 High comparability with clinical trial results, across vaccines



## Effectiveness against variants

- All EUL vaccines substantial protection against severe disease and death
- Some reduced protection against moderate/mild disease and infection



### **Duration of protection**

- Sustained protection against severe disease and death
- Difficult to separate
   waning protection over
   time vs. effect of Delta
   variant vs.
   methodological issues in
   studies



#### Safety signals

- Benefits of vaccination far outweigh the known risks for all EUL vaccines
  - TTS for Adenoviral vector vaccines
  - Myocarditis for mRNA vaccines

Source: WHO

## New Expression of Interest (Nov. 10) - Receive technology transfer for mRNA vaccines and become a mRNA vaccine manufacturer



- Given the current critical shortage of COVID-19 vaccines low- and middle-income countries (LMICs), WHO
  and its partner, Medicines Patent Pool (MPP), are seeking to expand the capacity of LMICs to produce
  COVID-19 vaccines.
- WHO and MPP have facilitated the establishment of a mRNA technology transfer hub in South Africa which will soon<sup>1</sup> be able to:
  - Provide appropriate training to interested manufacturers in LMICs.
  - Transfer a comprehensive technology transfer package.
- Potential training and technology recipients from PAHO region have already been identified.
- WHO is now seeking expressions of interest from manufacturers elsewhere (i.e. LMICs not in PAHO) who
  would like to receive training and technology transfer for mRNA vaccines with the objective of
  establishing mRNA vaccine production

See Expression of interest <u>here</u> (published on November 10, 2021)



### Content

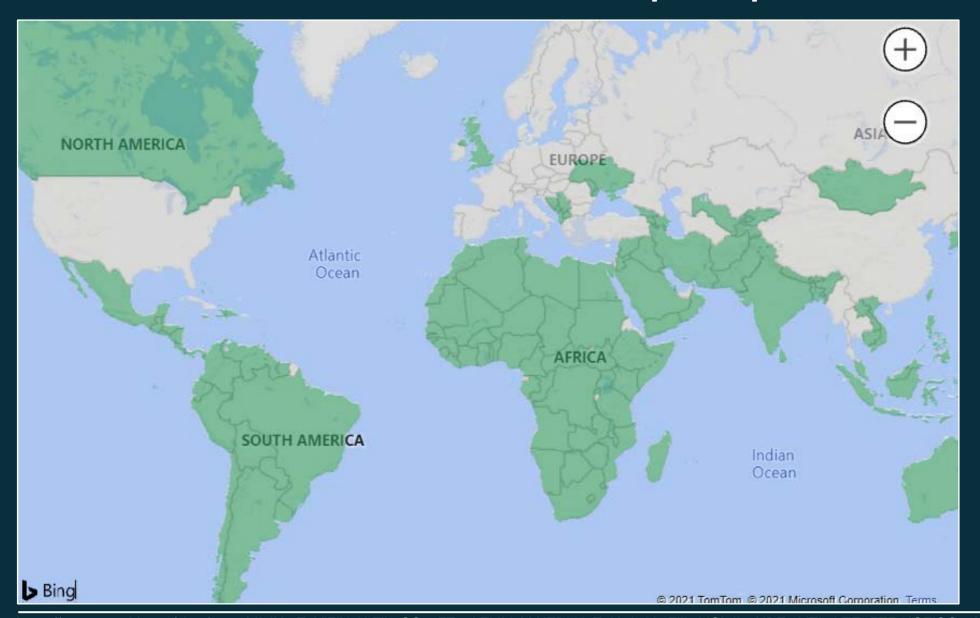
### Global COVID-19 vaccine rollout

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### 475M doses have been delivered to 144 participants



956M

Doses allocated

566M

**Doses Ordered** 

514M

Doses Released

475M

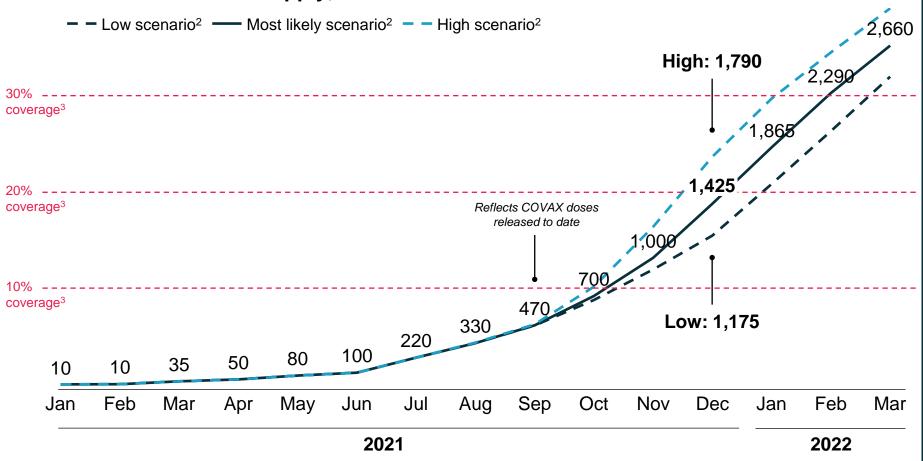
**Doses Shipped** 

### **COVAX Facility Supply Forecast**

Ranged forecasts under low, most likely, and high scenarios

#### PRELIMINARY AND SUBJECT TO ASSUMPTIONS





## 1 Timing of available supply is based on anticipated date of release by manufacturer, at which point doses become available for delivery. Timing of delivery to countries will be lagged due to need for local regulatory approvals, supply agreements, country readiness, export licenses, logistics, etc. Volumes for expected single-dose regimen candidates doubled to ensure comparability across vaccines. Volumes include dose donations that are committed to being delivered through COVAX. Volumes have been rounded to nearest 5M. 2 Scenarios are based on best available information from manufacturers and analysis from Gavi and UNICEF on the impact and likelihood of potential mitigation efforts.

## THREE BIGGEST DRIVERS OF UNCERTAINTY FOR COVAX SUPPLY

- Timing and extent to which export controls in India are eased.
- Manufacturers prioritising supply from global manufacturing networks to COVAX, allowing COVAX to access doses that it has already secured and paid for under its existing Advance Purchase Agreements.
- Timely regulatory approval of candidates that COVAX has signed deals with including those being developed by Novavax, SII-Novavax, and Clover.

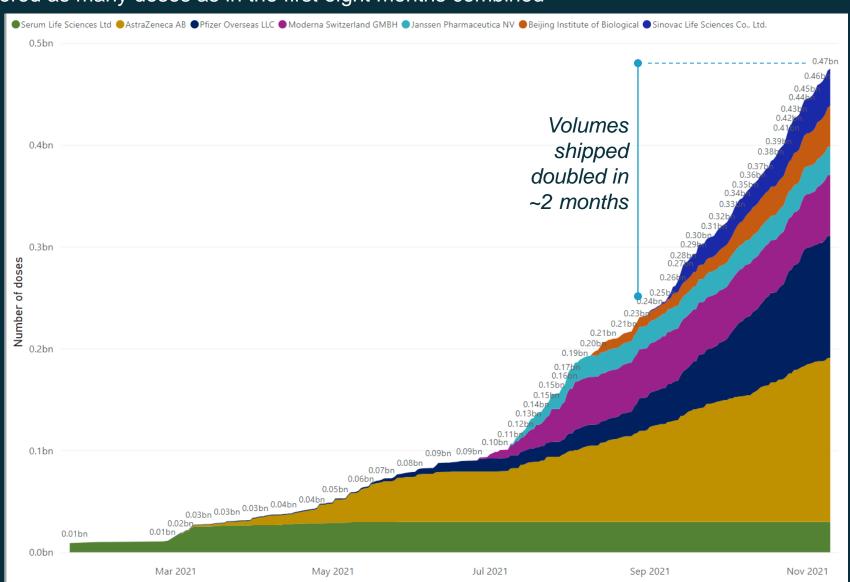
<sup>2</sup> Scenarios are based on best available information from manufacturers and analysis from Gavi and UNICEF on the impact and likelinood of potential mitigation efforts.

3 Coverage refers to proportion of total population in AMC91 Participants that could be fully vaccinated with available volumes, assuming India receives 20% of AMC-funded volumes.

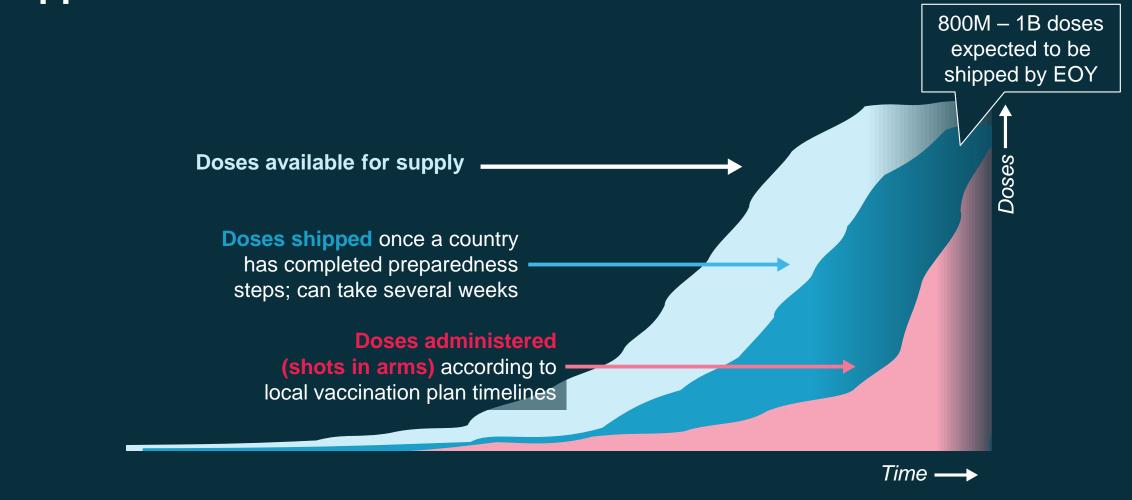
### Pace of shipments ramping up significantly

In past two months, COVAX delivered as many doses as in the first eight months combined

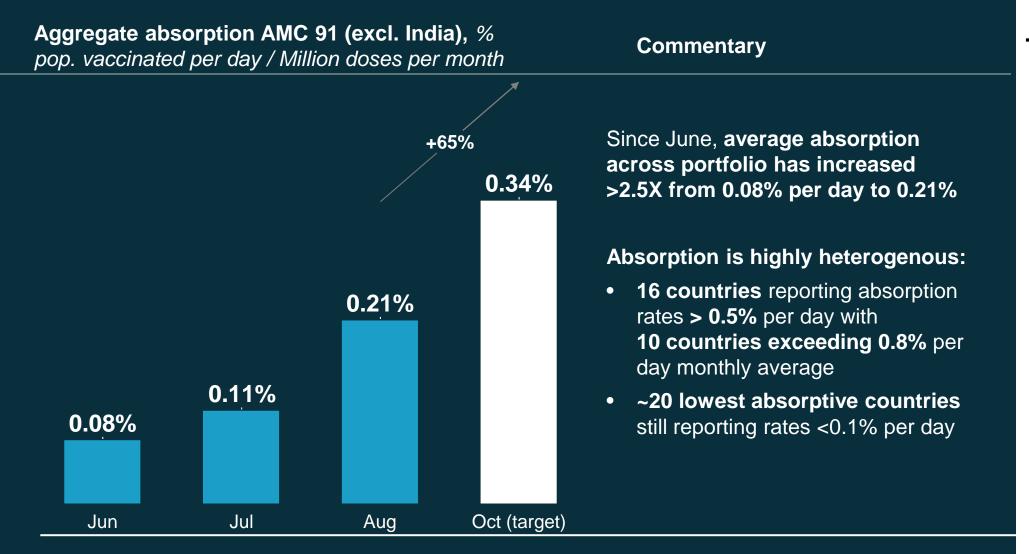
- COVAX faced with severe supply constraints in the past
- Multi-pronged effort to overcome challenges, building out the portfolio, working with manufacturers and donors
- Significant ramp up in deliveries over past months
- Expecting the next two months to bring another swell of doses on the path to 1Bn delivered by end of year



# There is a delay between doses made available for supply, doses shipped and shots-in-arms



# While absorption across AMC 92 is improving, constraints are dynamic and highly country specific



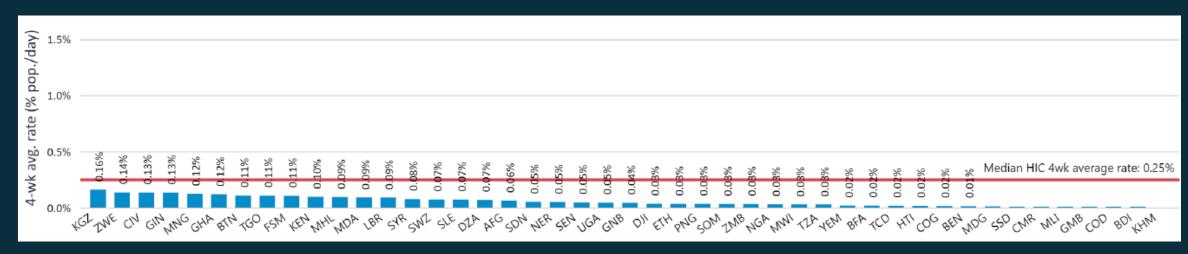
### **Takeaways**

Ensuring delivery capacity across countries requires:

- Continued focus on 'highest risk' countries and developing bespoke country specific delivery enhancement plans
- Ensuring predictable, high quality, scaled supply that take country preferences and context into account

### Large variation in absorption rates across the AMC92





SOURCE: CRD Vaccination rate dataset

## We are providing support to mitigate delivery risk from allocation to administration

Allocation and shipment

**In-country logistics** 

Service Delivery and administration

**Cross-cutting enablers** and considerations

Monitoring and intelligence

Matching allocation and absorption at country level

Dynamic country level intelligence to inform delivery support and allocation

Operational and delivery support

Ultra Cold Chain (UCC)
/Cold Chain Equipment
capacity and
expansion

Stock management capacity and readiness (including electronic Logistics Management Information System (eLMIS)) Delivery capacity expansion/scale up (including health care workers, Vaccination site readiness, etc)

**Delivery innovation** (including microplanning, vaccination status verification etc)

Demand generation and vaccine confidence

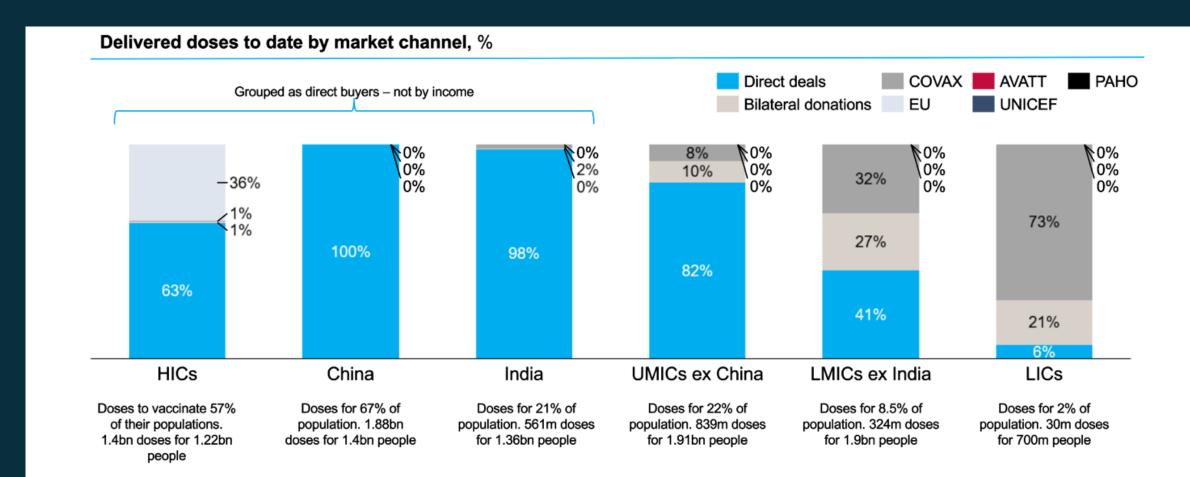
Program management and leadership capacity

Reporting and surveillance (incl. performance monitoring, Adverse Effects Following Immunisation (AEFI) reporting, etc)

**Delivery funding** (required for all delivery processes and enablers)

Partner coordination and collaboration (required for all delivery processes and enablers)

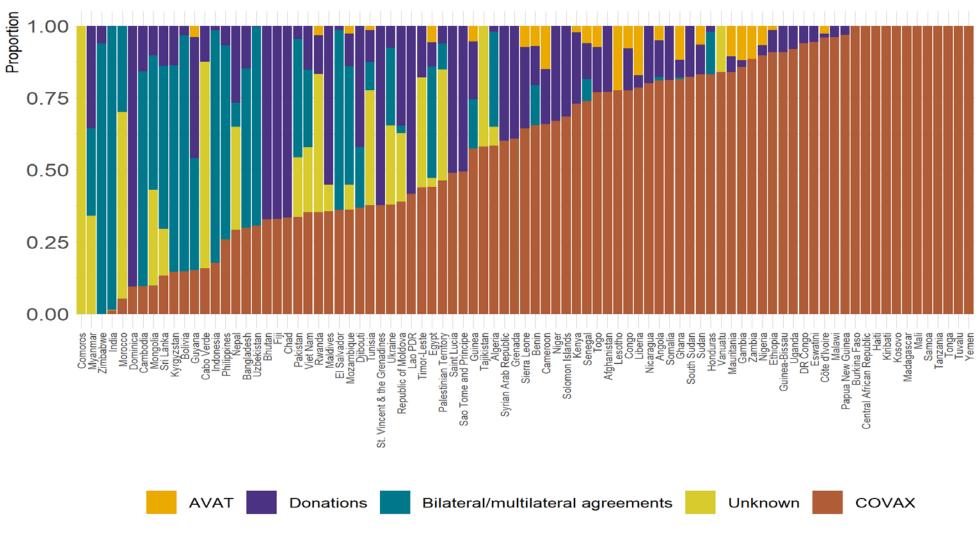
# Member states receive supply from multiple sources – COVAX critical for L(M)ICs



Note: 58% of doses delivered as unknown, 2.9bn. All HIC, China and India unknown designated as bilateral deals, totaling 2.6bn. Of the remaining 303m: UMIC: 80% of unknown designated as bilateral deal, LMIC: 80% of unknown designated as donated doses, LIC: 100% of unknown designated as donated doses. Source: UNICEF COVID-19 Vaccine Market Dashboard



### **Proportion of doses coming from COVAX: AMC92 participants**



- 49 AMC
   participants
   have >50%
   doses coming
   from COVAX
- 20 AMC
   participants
   have >90%
   doses coming
   from COVAX
   (incl. Ethiopia,
   DRC and
   Uganda)

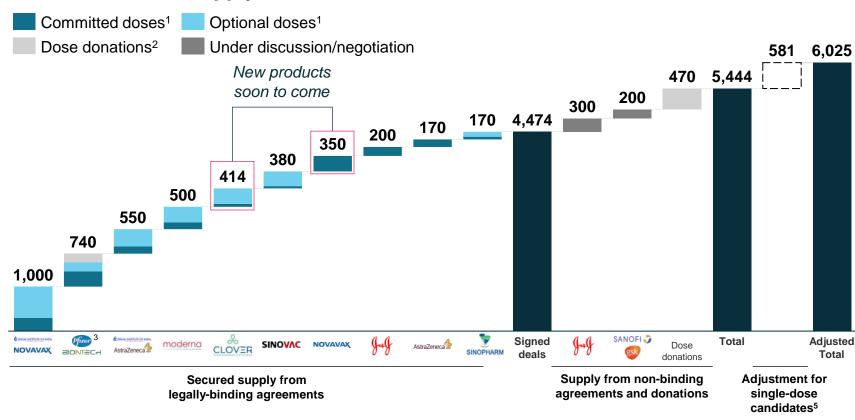
Source: UNICEF COVID-19 Vaccine Market Dashboard 28 Sept 2021

### **COVAX Facility Portfolio**

Product-specific overview

#### PRELIMINARY AND SUBJECT TO ASSUMPTIONS

### COVAX Available Supply, M doses, 2021 and 2022



1 "Committed doses" are doses that the COVAX Facility is required to procure. "Optional doses" are doses that the COVAX Facility has the option to procure in the future, but is not required to purchase. Once optional doses are exercised, they become committed doses.

5 In these supply forecasts, volumes for expected single-dose regimen candidates have been doubled to ensure comparability with two-dose candidates.

# There are currently eleven vaccines in the COVAX portfolio:

- 1. SII: Covovax ("NVX-CoV2373")
- 2. SII: Covishield ("AZD1222")
- 3. Pfizer/BioNTech: BNT162b2
- 4. Moderna: mRNA 1273
- 5. Clover Biopharmaceuticals: SCB-2019 (CpG1018/Alum)
- Sinovac: CoronaVac
- Novavax : NVX-CoV2373
- 8. Janssen J&J<sup>4</sup>: Ad26COV2.S
- 9. AstraZeneca: ChAdOx1-S [recombinant] ("AZD1222")
- 10. Sinopharm: BBIBP-CorV
- 11. Sanofi-GSK: Recombinant Protein

<sup>2 &</sup>quot;Dose donations" estimated based upon signed donor commitments to share new doses bilaterally with COVAX. Excludes announced, but not confirmed volumes. The transfer of COVAX allocations from SFPs to AMC Participants are already included in the volumes secured by COVAX from legally-binding agreements.

<sup>3</sup> US support has allowed COVAX to secure an additional 500M Pfizer/BioNTech doses. Reflecting US funding above its original pledge, 200M of these are recorded as a donation. 4 COVAX has signed an Advance Purchase Agreement (APA) with Janssen for 200M doses; negotiations for an additional 300M doses are ongoing as per the Memorandum of Understanding announced on 18 December 2020.

## **Dose Donations Pledges and shipped (in millions)**

Donations through COVAX

As of November 8th

Donor.	Donations Announced 2021-22	Total for AMC 2021 / (Total SFP+AMC 2021)		Total donated AMC 2021 <sup>5</sup> / (Total donated SFP+AMC 2021)		Total shipped AMC 2021/ (Total shipped 2021)	
Геат Europe	400+1,6	275 <sup>6</sup> /	(3096)	255/	(284)	40/	(48)
France	120 <sup>1</sup>	59.6/	(64)	60.5/	(64)	15.1/	(15.1)
Germany	175 <sup>1</sup>	93/	(100)	95/	(99)	10.4/	(11.2)
Italy	45 <sup>1</sup>	41/	(45)	38.5/	(41.4)	4.4/	(7)
Spain	50 <sup>1</sup>	23/	(41)	23/	(40.9)	3.4/	(8.1)
Portugal	<b>4</b> <sup>1</sup>	4/	(4)	4/	(4)	0.3/	(0.3)
Norway	5	5/	(5)	4.7/	(4.7)	1.4/	(1.4)
Belgium	7.6	7.1/	(7.6)	7.1/	(7.6)	1.6/	(1.8)
Finland	3.65	3.65/	(3.65)	1.4/	(1.4)	0.1/	(0.1)
Sweden	At least 6	5/	(5)	4.4/	(4.4)	2.8/	(2.8)
Denmark	4	3.7/	(3.7)	3.7/	(3.7)	0.6/	(0.8)
Netherlands	27	22/	(22)	4.5/	(4.5)	0	(0)
Ireland	1.3 <sup>1</sup>	1.3/	(1.3)	1.3/	(1.3)	0	(0)
Others	72	7/	(7)	7/	(7)4	0.09/	(0.09)
SA	800+3	180/	(193)	180/	(193)	111/	(120)
apan	60 <sup>1</sup>	17/	(18)	8.3/	(11.3)	8.3/	(11.3)
witzerland	4	4/	(4)	1.6/	(1.6)	0.3/	(0.3)
lew Zealand	2.3	2.3/	(2.3)	0.9/	(0.9)	0.2/	(0.2)
IK	120 <sup>1</sup>	25/	(25)	16.2/	(16.2)	6.2/	(6.2)
AE	1	1/	(1)	0/	(0)	0	(0)
anada	51 <sup>7</sup>	22/	(29)	7.4/	(8.4)	2.5/	(4.2)
long Kong SAR, China	7.5	3/	(3)	7.5/	(7.5)	0	(0)
<b>Total</b>	~1,500+ <sup>1</sup>	~525+	(~580+)	477/	(523)	169/	(199)

and delivered actly due to

- COVAX, final ased on latest y Donors; Luxembourg,
- nuania, oublic; llowed COVAX
- doses. These 700m doses in the total here. s from Greece
- (0.18m), oatia (0.65), ), Slovenia (0.27m)
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### **COVAX Facility Coverage objective for 2022: Principles**

- COVAX to contribute to the vaccination coverage goals countries set for themselves towards the 70% WHO global vaccination goal
- COVAX Facility supply to be complemented by bilateral / multilateral supply; COVAX to collaborate with the Africa Union's African Vaccine Acquisition Trust (AVAT)
- Pursue flexibility in the face of uncertainty by (1) continuing to invest in increased coverage and (2) establishing a contingency pool to manage risk (e.g., boosters, paediatric vaccination, emergence of variants)









Thank you