





# Dialogue with civil society: ACT-A and COVID-19 vaccines

9 March 2021

### Housekeeping

- Please use mute and turn video off while not speaking to preserve livestream quality
- We will have time for Q&A after the initial presentation
- To ask for the floor, please indicate your name and organization in the chat

### Agenda

1.	Welcome and introductions	COVAX	10 mins
2.	Updates from civil society representatives	CSOs	10 mins
3.	COVID-19 vaccine data and first introductions	WHO	20 mins
4.	Updates on the vaccine pipeline	CEPI	10 mins
5.	COVAX Facility update and supply forecast	Gavi	10 mins
6.	Q&A/Discussion	All	30 mins

# Update from civil society representatives

CSO representatives

### Civil Society Representation in COVAX

- Following a nomination process (coordinated by the lead agencies and led by civil society in October 2020), representatives were nominated to 10 working groups across COVAX.
- Co-chairs of CSO Coordination: Mike Podmore, STOP AIDS and Lisa Hilmi, CORE Group, representing GAVI CSO

Working Group	Name	Affiliated CBO/ NGO	Country
CCM	Mesfin Teklu Tessema	IRC	US/Ethiopia
Access/Allocation	Karrar Karrar	Save the Children	UK
Vaccine Strategy	Jane Barratt	International Federation on Aging	Canada
Technical Review Group	Rebecca Grais	MSF	France
Country Readiness & Delivery (Coordination Group)	Katy Clark	American Red Cross	Switzerland
Country Readiness & Delivery (Communication, Advocacy, Training)	Carla Toko	Village Reach	Democratic Republic of the Congo
Country Readiness & Delivery (Demand)	Robert Kanwagi	World Vision	Kenya
Manufacturing SWAT	Alain Alsalhani	MSF	France/Syria
Enabling Science SWAT	Sheetal Sharma	Safari Doctors	Kenya
Clinical Development and Operations SWAT	Farah Qamar	Aga Khan Foundation	Pakistan

### Civil Society Coordination in COVAX and across ACT-A

#### Regular methods of communication:

- Listserv and bi-weekly calls for COVAX representatives (co-facilitated by Platform for ACT-A Civil Society and Community Representatives & Gavi CSO Constituency)
- Broader ACT-A calls for all civil society representatives (coordinated by the Platform for ACT-A Civil Society and Community Representatives)

#### Recent steps for improved coordination:

- Call(s) between civil society representatives and the COVAX lead agencies
- Letter sent to all lead agencies in ACT-A

#### Next steps:

- Broader consultation with civil society and communities, particularly at the national and regional level
- Monthly Covax-CS Dialogue calls co-created and hosted by COVAX lead agencies and COVAX CS reps

### COVAX CS Representatives: Key Priorities

- Equity → Allocation (global & sub-national), vaccine nationalism, Humanitarian Buffer
- Operationalizing COVAX: delivery funding, reaching the most vulnerable, including migrants, IDPs, asylum seekers
- Vaccine supply constraints: Increase global manufacturing capacity, dose sharing
- **■** Transparency and accountability

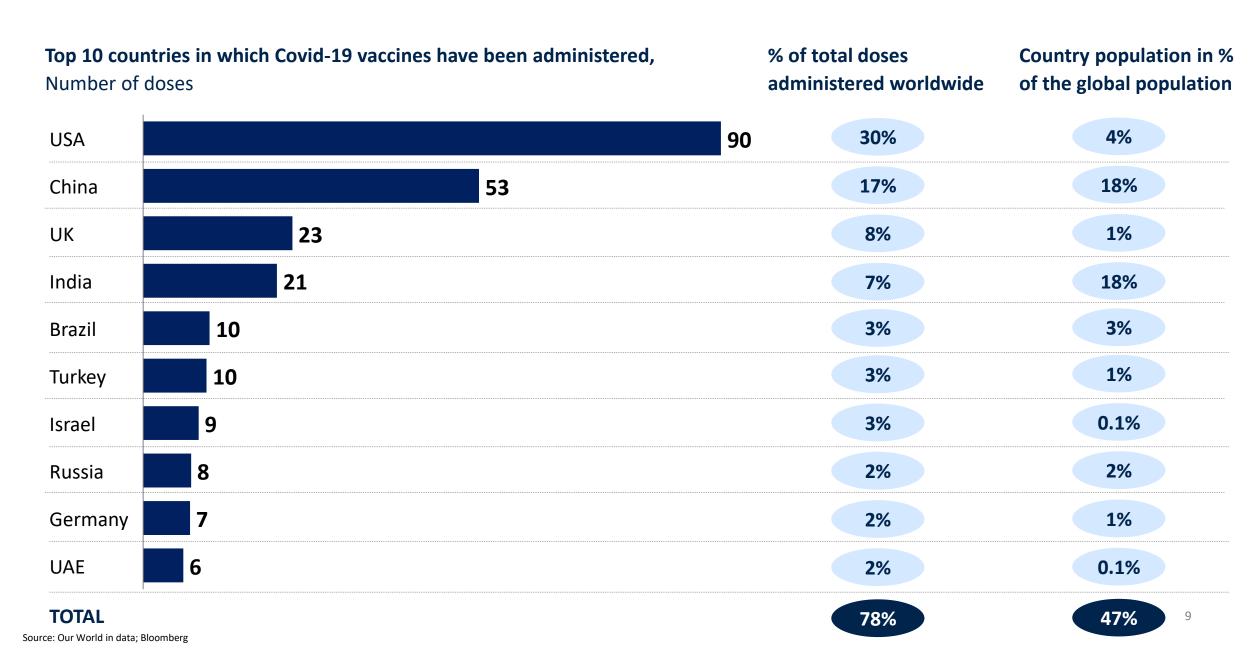
COVID-19 vaccine data and first introductions

Kate O'Brien, WHO

### COVID-19 vaccines: overview of key numbers (data at 8 March)

- 90 days since first countries started vaccinating<sup>1</sup>, 71 days since all EU countries received vaccines, and
   7 days since first use of COVAX doses<sup>2</sup>
- 304 million vaccine doses have been administered:
  - 78% of these doses have been administered in 10 countries
  - At least 9 different vaccines (3 platforms) have been administered<sup>3</sup>
- Campaigns have started in 124 economies:
  - o incl. 65 HICs, 33 UMICs, 23 LMICs and 3 LICs
  - The vaccines used by the highest number of economies are: Pfizer-BioNTech (67 economies using it), followed by Oxford/AZ (58),
     Moderna (30), Gamaleya (20) and Sinopharm (16)
- COVAX has shipped doses to 26 countries<sup>4</sup>:
  - 4 LMICs & 1 LIC have started campaigns thanks to COVAX doses
  - o In total, 15.6 M mn COVAX doses shipped4
- 1. Dec. 8, 2020 in the UK (Pfizer)
- 2. March 1 in Ghana and Côte d'Ivoire
- 3. Pfizer, Moderna, Gamaleya, Sinovac, Sinopharm, SII, Bharat Biotech, AZ, Johnson & Johnson
- 4. On Jan 17, India received an additional 10 mn doses through COVAX from India-based supplier SII (excluded from this figure)

### 78% of vaccine doses have been administered in 10 countries (data at 8 March)



### Covid-19 vaccination rollout has started in 124 economies (data at 8 March)

% of income

group where

57%

Status of Vx roll out per income group > 50% of countries  $25\% < X \le 50\%$  $10\% < X \le 25\%$ ≤ 10% **Green text:** COVAX doses only

Economies classified by income level <sup>1</sup>	per income group	where vaccina- tion has started	vaccination has started	ļ
High income economies (HICs)	83	65	78%	) () () ()
Upper-middle income economies (UMICs)	56	33	59%	)   
Lower-middle income economies (LMICs)	50	23	46%	l
Low income economies (LICs)	29	3	10%	,

# economies

124

# of economies

#### List of economies where vaccination has started

Andorra, Austria, Australia, Bahrain, Barbados, Belgium, Bermuda, Canada, Cayman Islands, Channel Islands, Chile, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Greece, Greenland, Gibraltar, Hungary, Hong Kong SAR, Iceland, Ireland, Isle of Man, Israel, Italy, Japan, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macao, Malta, Mauritius, Monaco, Netherlands, New Zealand, Norway, Oman, Panama, Poland, Portugal, Qatar, Romania, Saudi Arabia, San Marino, Seychelles, Singapore, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Trinidad and Tobago, Turks and Caicos, UAE, UK, Uruguay, USA

Albania, Argentina, Azerbaijan, Belarus, Belize, Brazil, Bulgaria, China, Colombia, Costa Rica, Dominican Republic, Ecuador, Gabon, Guatemala, Guyana, Indonesia, Iran, Jordan, Kazakhstan, Lebanon, Malaysia, Maldives, Mexico, Montenegro, Paraguay, Peru, Russia, Serbia, South Africa, Suriname, Thailand, Turkey, Venezuela

Algeria, Angola, Bangladesh, Bolivia, Cambodia, Côte d'Ivoire, El Salvador, Egypt, Ghana, Honduras, India, Kenya, Laos, Mongolia, Morocco, Myanmar, Nepal, Pakistan, Philippines, Senegal, Sri Lanka, Ukraine, Zimbabwe

Afghanistan, Guinea, Rwanda

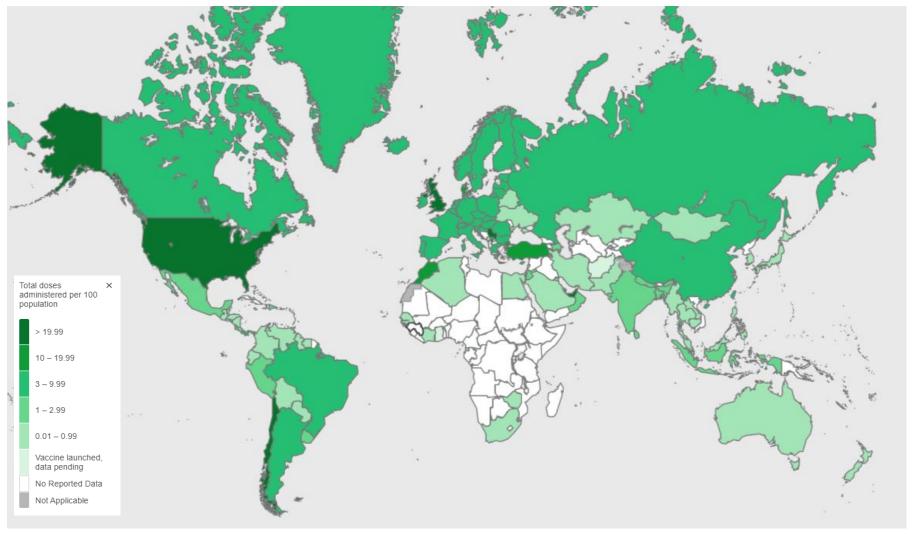
218

Total

<sup>1.</sup> World Bank classification (2021) Source: World Bank; WHO COVID-19 dashboard; Our World in data; Bloomberg; Reuters

### Accelerating the equitable rollout of COVID-19 vaccines is more important than ever

#### COVID-19 vaccine doses administered per 100 people, March 8, 2021



### The wave of COVAX deliveries kicked off on February 24<sup>th</sup>











### In total, > 10 million COVAX doses have been delivered in just over a week

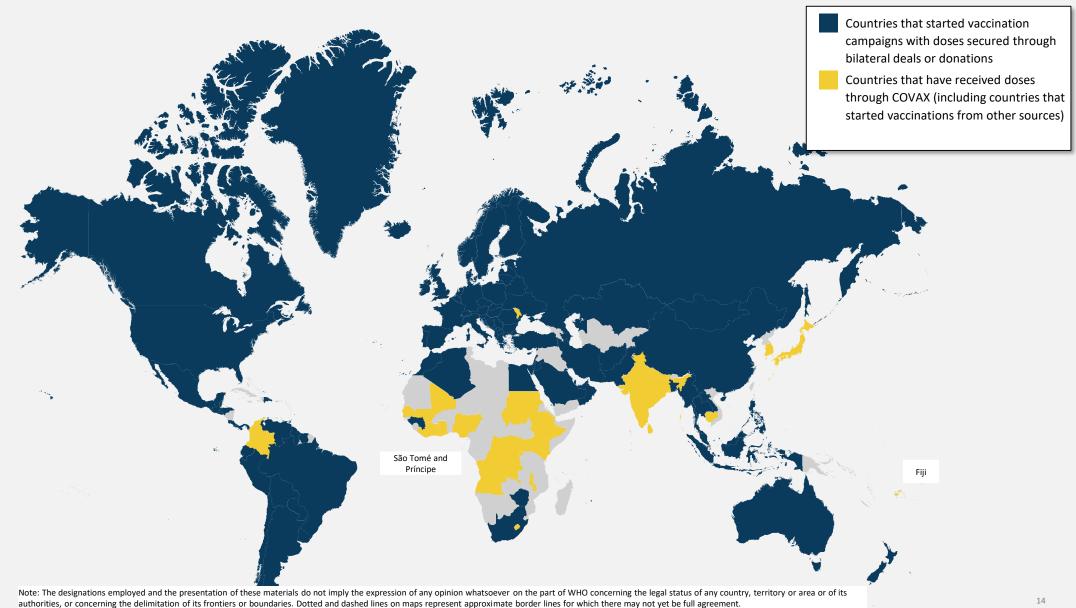




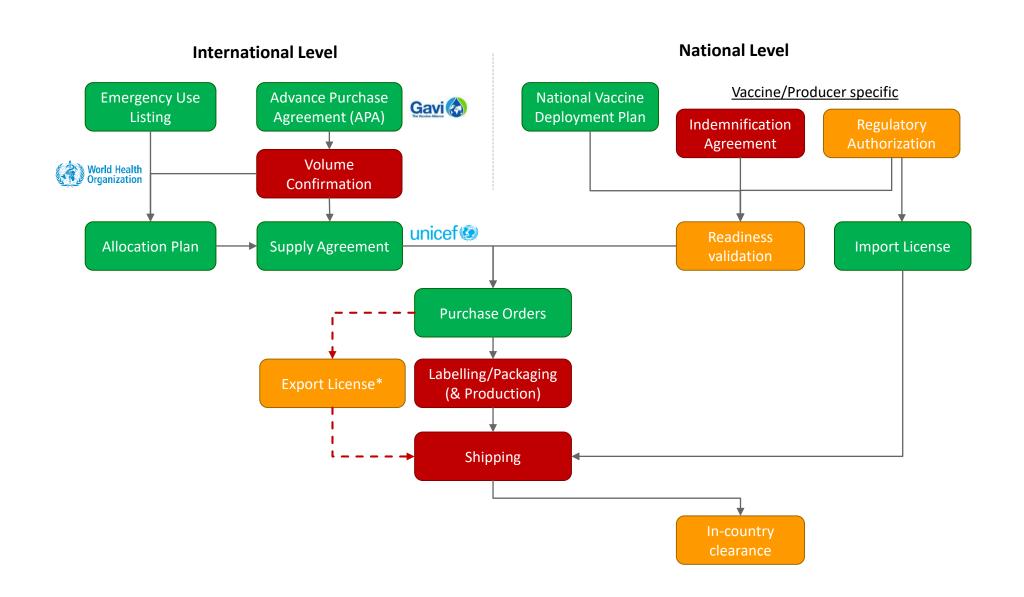


- More shipments to come in the coming days and weeks
- Planned shipments for the next 7 days are available on the <u>UNICEF</u> <u>Vaccine market dashboard</u> (see tab "Delivery")

### Countries that have received doses through COVAX (8 March)



### Deliveries of COVAX doses is a complex process – key bottlenecks at 8 Mar



# Addressing the challenges to further accelerate roll-out of COVAX Facility vaccines require several actions from countries

- 1. Each country needs to submit for each product a **signed I&L agreement** and a **Regulatory Authorization**
- 2. Ensure timely export licenses for COVAX (ideally waivers)
- 3. Prepare in-country use of vaccines by costing<sup>1</sup>, securing resources and preparing / launching Vx campaigns
- 4. Encourage manufacturers to rapidly provide data for EUL/PQ & SAGE<sup>2</sup>
- 5. All Member States allow manufacturers to prioritize COVAX commitments

### There are three main variants of concern

Figure 4. Countries, territories and areas reporting VOC 202012/01, as of 2 March 2021



VOC 202012/01 (first identified in the UK)

Figure 5. Countries, territories and areas reporting 501Y.V2, as of 2 March 2021



501Y.V2 or B.1.351 (first identified in South Africa)

Figure 6. Countries, territories and areas reporting P.1, as of 2 March 2021



P.1 (first identified in Brazil)

Variants of concerns are defined by WHO by their transmission, disease severity or impact on Covid counter measures

Evidence supports ongoing use of existing vaccines – with some concerns about B.1.351 vs. some vaccines (available data still limited)



# COVID-19 Vaccine and SARS-CoV2 variants Data are limited, early, and incomplete

#### **Availability of Evidence** (9 March 2021)

	B 1.1.7 (original report SSA)		B 1.351 (original report AZ)		P 1 (original report Brazil)	
	Clinical	Lab	Clinical	Lab	Clinical	Lab
AstraZeneca	<b>~</b>	pending	limited	<b>✓</b>		prelim
J&J			prelim	pending		
Moderna		<b>\</b>		<b>✓</b>		
Novavax	prelim		prelim	pending		
Pfizer				<b>✓</b>		
Sinopharm				pending		
Sinovac						<b>✓</b>

Evidence on protection against severe disease, hospitalization and deaths are especially limited

### Performance against B.1.351 or 501Y.V2 (variant first identified in South Africa)

#### **PRELIMINARY**















Reduction of neutralizing activity in laboratory assays	Clinical efficacy in South Africa	Clinical efficacy in global studies	Clinical efficacy criteria	
3x -		95%	-	
6x	-	94.1%	-	
2.5-31x / eliminated <sup>3</sup>	22% (NS) <sup>2</sup>	62-90%	Mild & moderate	
-	-	91.6%	-	
pending	57%	72%	Moderate to severe	
pending	49% <sup>1</sup> 60% <sup>2</sup>	89%	Mild, moderate & severe	
1.6x	-	79 - 86%	-	
-	-	50.4%	-	

<sup>1.</sup> Including HIV positive subjects (6% of the study population); 2. Excluding HIV positive subjects; 3. previously infected placebo participants showed similar results

https://extranet.who.int/pgweb/kev-resources/documents/status-covid-19-vaccines-within-who-eulpg-evaluation-process

#### Estimated dates of approval / Emergency use

		Estimated dates of approvary				
Vx candidates		FDA	MHRA	EMA	WHO EUL/PQ	Country reliance on PQ
Prizer BIONTECH		Dec. 12, 2020 Emergency Use	Dec. 2, 2020 Emergency Use	Dec. 21, 2020 Cond. Authorization <sup>1</sup>	Dec. 31, 2020 Emergency use	Since Jan
AstraZeneca 🕏	<b>AZ with EMA</b> as authority of reference	April 2021 <sup>2</sup>	Dec. 30, 2020 Emergency Use <sup>3</sup>	Jan. 29, 2021 Cond. Auth.¹ (non-Covax)	Between March and April 21 (Covax sites)	Between April and July 21 onwards
OXFORD	AZ South Korea w/ MFDS Korea as authority	Not applicable	Not applicable	Not applicable	Feb. 15, 2021 Emergency use	Since Feb
	of record  vaccine (Covishield) with  ndia as authority of record	-	-	-	Feb. 15, 2021 Emergency use	Since Feb
7	Sinopharm / BIBP <sup>5</sup>				March 2021 (Earliest)	April 2021 onwards
•	<b>)</b> sinovac	No FDA approval		No EMA approval	March 2021 (Earliest)	April 2021 onwards
	moderna	Dec. 18, 2020 Emergency Use	Jan. 8, 2021 Emergency Use	Jan. 6, 2021 Cond. Authorization <sup>1</sup>	March 2021	April 2021 onwards
	anssen infectious Diseases	Feb. 27, 2021 Emergency Use		March 2021	March 2021	April 2021 onwards
	THE GAMALEYA NATIONAL CENTER				Rolling submission started from Gamaleya. CMC data awaited	
ę	<b>康希诺生物</b> CanSinoBIO				Rolling submission of data from April 2021	April 2021 onwards
Y	Sinopharm / WIBP <sup>4</sup>					
	NOVAVAX *				Novavax submitted EOI on 23 Feb	

#### Legend (timing of approval)

Approval / Emergency use
Expected March 2021
From April 2021
No info

COVAX Facility product

#### Key messages

- Pfizer: WHO EUL on Dec. 31<sup>st</sup> with EMA as authority of record; ongoing country reliance on PQ
- AZ: WHO EUL confirmed 15 Feb with MFDS (South Korea) as authority of record
- SII/AZ: WHO EUL <u>confirmed on 15 Feb</u> with DCGI (India) as authority of record
- Focus on assessment of J&J, SinoPharm and Moderna.
- Gamaleya: only partial submission. CMC data awaited. Sinovac: additional data awaited.

<sup>\*.</sup> SII/Novavax needs to be specified

<sup>1.</sup> Conditional marketing authorization 2. According to the chief adviser for the U.S. COVID-19 vaccine program (Dec. 30, 2020; Source) 3. Temporary authorisation of supply of the vaccine in the emergency use setting (which is distinct from a marketing authorisation) 4. Wuhan Institute of Biological Products Co Ltd 5. Beijing Bio-Institute of Biological Products Co-Ltd

# COVAX delivered vaccine doses to low- and middle-income countries faster than the H1N1 vaccine deployment initiative in 2010 and aims at delivering 25 times more doses

Dimensions	Indicators		COVAX (March 2021)	H1N1 vaccine deployment Initiative	Focus of discussion  Difference
Breadth of	# of letter of intent		190	94	>2x
participation	# of recipients of	doses	To be determined	77	To be determined
Funding	Total pledges, in r	nn USD	5,900	56	>100x
		First country	<b>38</b> (India)	94	
Time to 1st dose	# of days after  1st vaccination	First country in Africa	<b>78</b> (Ghana)	145	~2 months faster
	in HICs	First 10 countries reached	Est. 90	149	
	# of countries	1 month <sup>1</sup>	>20	~4	
	that received	2 months	Est. 50	13	faster 4-5x
Vaccine doses <sup>2</sup>	doses after	3 months	142	29	
	Cumulative	1 month	<b>15.6</b> (at 12 days) <b>30+</b> (expected)	<1	
	doses delivered	3 months	Est. 250	10	>25x
	after (in Mn)	12 months	Est. 2,000	78	

<sup>2.</sup> Does not include the exceptional delivery of COVAX vaccines to India in January 2021 (10mn doses)

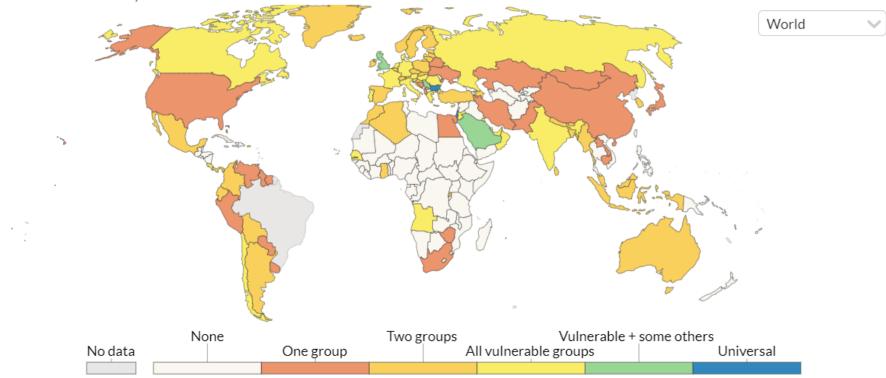
### Overview of Covid-19 vaccination policies worldwide

#### COVID-19 Vaccination Policy, Mar 7, 2021

in Data

This metric records policies for vaccine delivery for different groups.

- Availability for ONE of following: key workers/ clinically vulnerable groups / elderly groups
- Availability for TWO of following: key workers/ clinically vulnerable groups / elderly groups
- Availability for ALL of following: key workers/ clinically vulnerable groups / elderly groups
- Availability for all three plus partial additional availability (select broad groups/ages)
- Universal availability



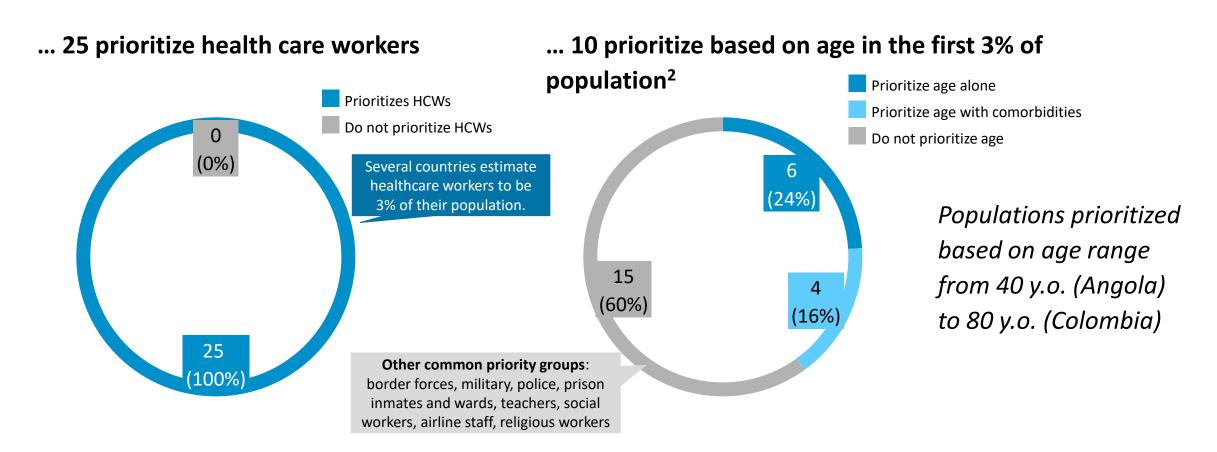
Source: Hale, Webster, Petherick, Phillips, and Kira (2020). Oxford COVID-19 Government Response Tracker – Last updated 8 March, 02:00 (London time)

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.

Our World

# Zoom on prioritized populations in countries that already received COVAX doses (data at March 8)

Out of 25 countries with an NDVP that have received COVAX doses<sup>1</sup>...



<sup>1.</sup> At the time of writing, COVAX had shipped to 26 countries (excluding India). The figure shown here includes 25 countries due to no NDVP available for Republic of Korea; 2. 100% prioritize based on age in the first 20% of the prioritized population

# WHO calls for urgent action to ramp up production of COVID-19 vaccines for all

"One of our main priorities now is to increase the ambition of COVAX to help all countries end the pandemic. This means urgent action to ramp up production."

Dr Tedros Adhanom Ghebreyesus, DG of the WHO on March 5



#### WHO is working on 3 approaches:

- 1. Connecting companies that produce vaccines with others that have excess capacity to fill and finish them (e.g., partnership between Johnson & Johnson and Merck announced last week)
- 2. Advocating bilateral technology transfers, so that companies that own vaccine patents can license them to another company.
- Implementing a coordinated technology transfer whereby universities and manufacturers would license their vaccines and Knowhow to other companies through a global mechanism coordinated by WHO through Technology Transfer Hubs

### How CSOs can continue helping COVAX

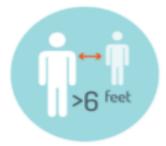
- Contribute to aspects of programme delivery, where feasible
- Support the vaccination of prioritized populations within countries
- Support acceptance and uptake of vaccination:
  - By supporting community leaders and their voices
  - By discussing the benefits and safety of vaccination with local communities
  - By promoting accurate information about vaccines
  - By advocating for fair and equitable access to vaccines
  - ... and any other locally tailored assistance
- Help to raise funds for COVAX

... and other areas where CSOs and community representatives may support









# Vaccine pipeline: latest developments

Kristine Rose, Richard Wilder CEPI

### Rapid progress in vaccine innovation

- Year in which pathogen was linked to disease
- Year in which US vaccine was licensed



Data source: Our World in Data

# CEPI's response to COVID-19

CEPI has moved quickly and collaboratively to rapidly develop vaccines against the COVID-19 virus.

We have so far invested ~1.2 USD Bn in the search for a COVID-19 vaccines, through **11** partnerships where of 9 is still active.

Our ultimate goal is to develop vaccines against COVID-19 as quickly as possible, making **2bn** doses available by the end of 2021 through COVAX.

CEPI



**COVAX R&D Wave 1 portfolio** 

Adjuvants:

gsk

**DYNAVAX** 

COVID-19	Moderna	CureVac	Inovio	Novavax	Clover	Biological E	AZ/University of Oxford
Location	USA	Tubingen, Germany	Plymouth Meeting, USA	Maryland, USA	China	India	Cambridge, UK
Platform	mRNA (modified)	mRNA (unmodified)	DNA	Protein	Protein	Protein	Viral Vector
Antigen / Adjuvant	Full-length S protein /	Full-length S protein /	Full-length S protein /	Full-length S protein / Matrix-M (saponin- based)	Full-length S protein / AS03 and CpG	Monomer RBD / CpG- alum	Full-length S protein /
Current clinical phase	Phase III	Phase II/III	Phase II/III	Phase III	Phase I	Phase I	Phase III
Clinical trial sites	USA, JPN	DEU, BEL, PER, PAN, ARG, COL, DOM, FRA, MEX, NLD, ESP	USA, KOR, CHN	AUS, USA, MEX, PRI, ZAF, GBR	AUS, Phase II/III in multiple countries	IND	GBR, USA, BRA, ZAF, IND, BGD, RUS, TUR, PER, DEU, FRA, CZE, ITA, NLD, ESP
Expected 1st efficacy data	Nov-20	Q1 21	Q1 21	Jan-21 (UK)   Q2 21 (US)	Q3 21	Q3 21	Nov-20
Signed budget to date (\$ M)	0.90	15.28	21.95	414.53	327.78	4.96	205.15

+ CEPI has also supported SK Bioscience and Hong Kong University COVID-19 vaccine candidate as part of 'Wave 2' investments



Speed



Scale



### Manufacturing; What we need to do now

To deliver 2 billion doses by the end of 2021, 2-3 successful programmes are needed to:

Produce early doses to support clinical studies

Scale up processes to industrial scale before clinical trials begin

Scale-out products in different countries to expand capacity

4 Stockpile vaccines in bulk in anticipation of dose level definition

Anticipate projects failing during clinical development

Repurpose facilities for successful products, if needed



### **CEPI** is committed to enabling equitable access

CEPI's partnerships are supporting scale-out to different geographical sites and provides the COVAX Facility with the right of first refusal to procure potentially up to 1bn doses in 2021:

- ➤ AstraZeneca UK Limited (AZ), manufacture in Europe and Asia
- ➤ BioE, manufacture in India
- ➤ Clover, manufacture in China + potential tech transfer
- ➤ Novavax, manufacture in Europe and Asia
- > SK BioSciences, manufacture in South Korea

CEPI has signed agreements with Biofabri (Spain) and GC farma (Republic of Korea) to reserve drug product manufacturing capacity for up to 1bn doses of CEPI-supported candidates

CEPI has also signed agreements with Dynavax to secure adjuvant in support of CEPI-supported candidates.

Source: https://cepi.net/wp-content/uploads/2020/12/Enabling-equitable-access-to-COVID19-vaccines\_26Jan-2021.pdf

## Emergence of new COVID-19 variants with increased transmission rates

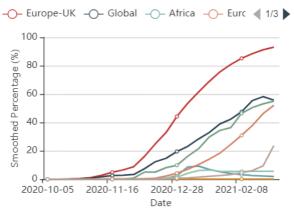
- At least five new variants of concern are spreading rapidly
  - By country of first identification: B.1.1.7 (United Kingdom); B.1.351 (South Africa); B.1.1.28.1 (Brazil); B.1.526 (U.S. NY); B.1.427/B.1429 (US CA)
  - Resulting in increased stress on healthcare systems and need for more stringent nonpharmaceutical interventions to maintain control
  - B.1.1.7 variant may result in more severe disease
- Evidence suggests current vaccines may be highly effective in preventing death and hospitalization from all variants
- Some new variants can reduce effectiveness of vaccines and natural immunity's protection against symptomatic disease
- ❖ There is an urgent need to develop vaccines for new variants (at risk), so sufficient doses are ready before a decision to introduce new vaccines is taken.

Map of tracked variant occurrence



#### Relative Variant Genome Frequency per Region (exponentially smoothed alpha=0.3)

Click Legend to show/hide series



Source: https://www.gisaid.org/hcov19-variants/

### New variants are making future vaccine planning more complex

#### **Options**

# Linear increase in coverage

**Variant** 

specific

boosters &

reformulation

#### **Details**

- Focus on maximizing production, distribution and coverage of existing vaccines
- Clinical trials to expand the use of current vaccines (i.e. broaden immune response, special populations)
- Current vaccines may be reformulated to better address variants

- Boosters for waning immunity
- Regardless of protection against variants, boosters may be needed for durable protection against infection or severe disease

#### **Considerations**

- Viable option if one or more current vaccines is highly effective in preventing death and hospitalization from all variants
- May not stop SARS-CoV-2 transmission long-term
- Reformulated vaccine could be given as 1<sup>st</sup> dose or as boosters to already vaccinated
- Similar to influenza vaccines, SARS-CoV-2 vaccines may need to be reformulated regularly
- Similar to booster doses against tetanus

### COVAX R&D strategies to address challenges of SARS-CoV-2 evolution

#### **Short term**

#### \* Assessing new variants

Agility project – partnership with GISAID, PHE and NIBSC to evaluate whether new variants compromise the effectiveness of current vaccines

Expanding CEPI central laboratory network to include variant neutralization assays

Refining animal models in CEPI Animal Model Network to assess vaccines designed to address variants

#### **❖** Optimizing current vaccines

Extending protection afforded by current vaccines (adjuvants; HPB)

Clinical trials to support expanded use of current vaccines- ongoing call for proposals

#### **❖** Developing new vaccines

Goal: Strain change, if needed, in 100 days from decision to proceed

Stepwise approach to funding developers to prepare, test, and manufacture vaccines against new strains

Work with Regulators to determine a strain change mechanism

#### **Medium term**

- ❖ Fund candidates with additional antigen targets to be available by 2022 if needed
- Evaluate limitations in manufacturing capacity that pose a threat to delivery of vaccines for new variants; including raw materials

#### Long term

❖ Develop broadly protective beta coronavirus vaccines to better protect against existing and potential future coronavirus threats – Call for proposal by end of March

# COVAX Facility update and supply forecast

Sanne Wendes

### **Overview**

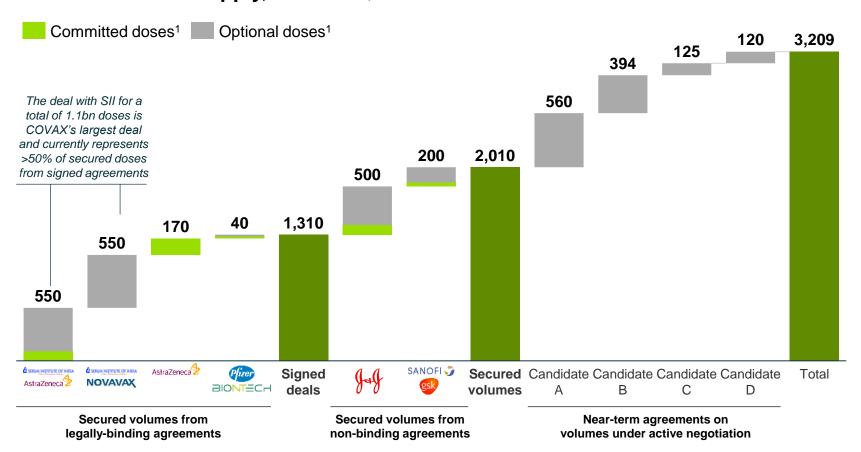
- 1 COVAX Facility Updates
  - Supply & Deals
  - Delivery & Shipment
- 2 COVAX Facility Design
  - Dose Sharing
  - Exchange
  - COVAX Buffer
- 3 Vaccine Candidate Decision Making
- 4 Country Readiness

### **COVAX Facility candidate-specific supply**

2021 and 2022

**PRELIMINARY** 

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



<sup>1 &</sup>quot;Committed doses" are doses that the COVAX Facility is required to purchase once a legally-binding agreement has been signed. "Optional doses" are doses that the COVAX Facility has the option to make a firm order commitment for in the future, but is not required to purchase.

There are 7 vaccines in the COVAX portfolio:

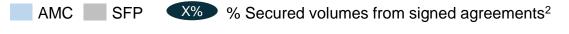
- 1. AstraZeneca: ChAdOx1-S [recombinant] ("AZD1222")
- 2. Novavax<sup>2</sup>: NVX-CoV2373
- 3. SII: Covishield ("AZD1222")
- 4. SII: Covovax ("NVX-CoV2373")
- 5. Pfizer: BNT162b2
- 6. Janssen J&J: Ad26COV2.S
- 7. Sanofi-GSK: Recombinant Protein

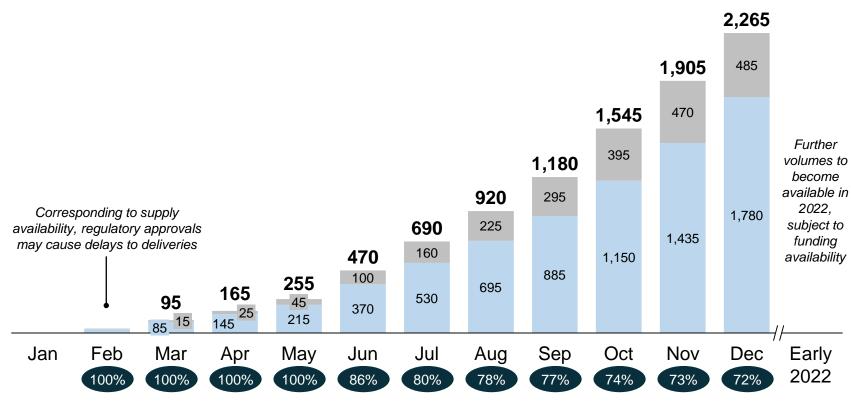
<sup>2</sup> Building on the recently announced memorandum of understanding with Novavax, negotiations on the final terms of the agreement and the distribution of volumes between Novavax and the Serum Institute of India are ongoing; updates will be published in due course.

### **COVAX Facility global supply forecast (AMC/SFP)**

#### PRELIMINARY AND SUBJECT TO ASSUMPTIONS

COVAX Available Supply, Cumulative, Mn doses, 20211





<sup>1</sup> Supply refers to volumes of vaccine available from the manufacturer. Timing of forecasts is based on anticipated release of doses from manufacturers. Volumes for expected single-dose regimen vaccine candidates doubled to ensure comparability across vaccine candidates. Volumes have been rounded to the nearest 5M, and so totals may not equal sum of segments.

#### 2 Signed agreements include legally-binding agreements, memoranda of understanding, and statements of intent.

#### **CAVEATS**

**Contracts:** Some of the supply included in the projections are linked to deals that are already concluded and some are currently being negotiated. Terms are subject to change.

Candidate attrition: Some candidates are still in clinical development. If they do not achieve positive clinical trial outcomes (safety and efficacy) and regulatory approval, these volumes will not be procured by COVAX.

**Regulatory approval:** Supply timing will depend on regulatory success and timelines, including reviews of individual batches ("batch release").

**Manufacturing:** In many cases, manufacturing is yet to reach full scale. Manufacturing productivity will be influenced by multiple factors, which will in turn influence volume and timing of supply.

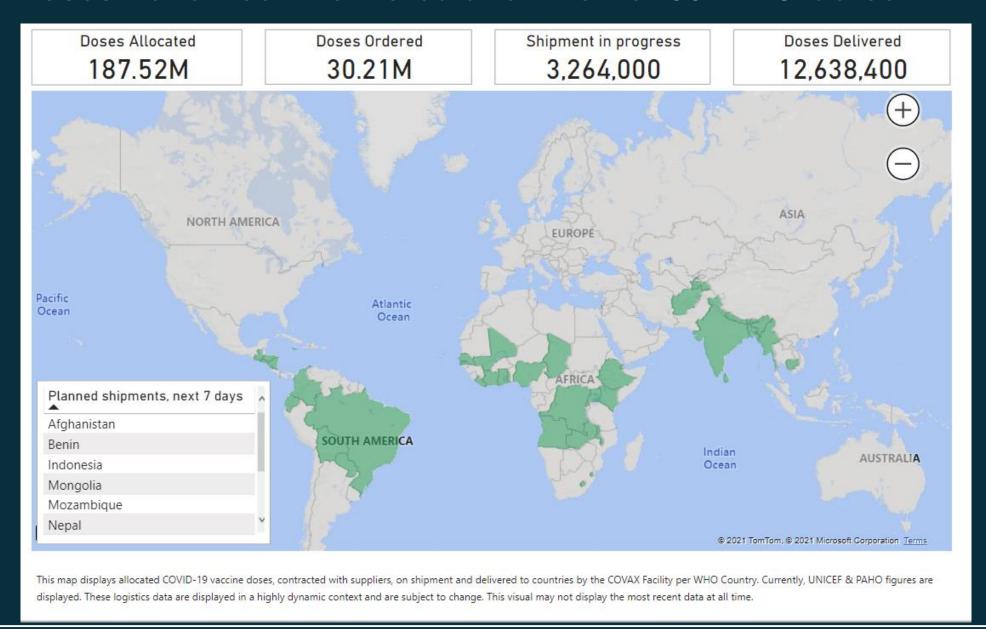
**Delivery:** Timing of delivery will depend on various factors, including local regulatory approval, country readiness, logistics, indemnification and liability in place, in-country distribution etc.

**Funding availability:** Total potential supply is shown; procurement of these doses will depend on COVAX AMC fundraising, AMC92 costsharing beyond donor-funded doses, and the final prices and volumes of doses allocated to AMC92.

**Allocation:** These supply forecasts reflect a preliminary distribution of doses based on each participant's share of available supply pro rata by demand and are to be treated as indicative. Final timing and volumes will be determined by the WHO Allocation Mechanism.



### 12.6mn Doses Have Been Delivered and Another 30.2m Ordered



### **COVAX Exchange**



### Mechanism under development to:

provide participants with a platform through which to trade their allocated doses with each other Through the Exchange, participants will be able to potentially improve upon their allocation

**Product consistency:** a participant trades to minimize the number of different vaccines and improve the performance of its vaccine programs.

**Optimize preferences:** a participant trades to increase access to a vaccine that it prefers.

(tbd) Temporal trade: a participant could trade current doses for future does (to a time when they plan to expand their program)

### Principles for the Exchange include:

- Mutual Benefit
- Fairness
- Speed
- Validity
- Financial Neutrality
- Simplicity

# Dose sharing mechanism under development to bring additional doses to AMC Participants to supplement funded doses

Mechanism under development, and conversations with donors underway to share excess doses via COVAX

#### **Dose sharing via COVAX will help to:**

- Accelerate coverage: Shared doses enable COVAX to reach highrisk populations faster
- Deepen coverage: Shared doses expand coverage rates for recipients
- Promote equity: Shared doses leverage allocation mechanism for distribution to advance equity goals
- Ensure efficiency and maximize benefits to countries: Streamlined processes and preferential terms for, e.g., indemnity and liability; access to no fault compensation scheme

All shared doses will meet COVAX standards for safety and effectiveness, and will be channeled through relevant COVAX processes

### Under development: A COVAX Buffer to act as last resort

Pending Gavi Board approval, 5% of COVAX Facility doses and COVAX AMC funding is proposed to:

1 Ensure access to COVID-19 vaccines for high-risk populations in humanitarian settings

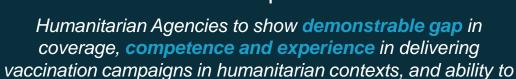
National plans are the first resort for covering all high-risk groups

Humanitarian Buffer doses available only as a last resort





if unavoidable gaps in vaccination plans



reach target populations



e.g. non-government controlled territories

- Provide a contingency provision to enable an emergency release of doses to meet public health needs where normal vaccine allocation timelines may not be sufficient
  - This mechanism is only considered relevant and appropriate once all COVAX Facility participants have been allocated an initial number of doses to ensure that all participating economies have established a basic, equal level of coverage

### **Indicative candidate pathway**

#### Candidates identified

Vaccine

the

candidates

**IPG** assesses

identified through candidate and portfolio criteria

RFP for supply up to end 2021

UNICEF/PAHO

(Early candidates identified through **CEPI** and direct **COVAX Facility** manufacturer engagement)

vaccine against

IPG advice

√ If candidate recommended. **COVAX** facility seeks advice from PRG

#### PRG advice

**PRG** reviews commercial terms of a deal, taking into consideration risk tolerance and broader market conditions

#### Negotiations

Advance Purchase Agreement **Negotiations** 

#### **MSDC** decision

MSDC approves financially binding agreements with manufacturers

IPG: Independent Product Group

PRG: Procurement Reference Group

MSDC: Market-Sensitive Decisions Committee



### **Criteria of country readiness**



Step 1: Countries are confirmed as COVAX participant (submission of vaccine request) Step 2: Countries submit their NDVPs or equivalent to online Platform Step 3: Countries plans are reviewed by Regional Review Committees Step 4: Countries who meet minimum criteria are included in next allocation round and allocated doses Step 5: Confirmation step: regulatory approval, import procedures, I&L agreements, plans match allocated vaccine products

orders are confirmed, and doses shipped

**Ongoing and throughout:** Countries work on preparing for vaccine, refining their NDVPs (including conducting pre-assessment checks), securing funding for vaccine delivery programme

104

Total NDVPs submitted for review through PP

86

AMC92 submitted Discussion/Q&A

All

# Thank you

#### FOR FURTHER INFORMATION...

#### **COVAX Facility:**

https://www.gavi.org/covax-facility .... and https://www.gavi.org/vaccineswork

#### **COVID-19 vaccines:**

https://www.who.int/emergencies/diseases/novel-coronavirus-2019/covid-19-vaccines

#### **Country readiness and delivery:**

https://www.who.int/initiatives/act-accelerator/covax/covid-19-vaccine-country-readiness-and-delivery

To sign up for our mailing list: CSO\_COVAX@who.int