

## EMERGING MARKETS: Covid-19 Vaccination Strategies and Challenges

Our Covid-19 vaccination table includes updated information on the immunization strategies selected EMs are pursuing and the challenges they face.

Below are some of this week's key developments. Please do not hesitate to contact us if you want to discuss any of the countries mentioned in more detail.

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### HIGHLIGHTS

#### Vaccine roll-out

- In **Brazil**, the administration of the first dose of Covid-19 vaccines fell 17% in the last week. This happened amid fears of a third-wave, lack of active pharmaceutical ingredients and import difficulties. Similarly, the administration of second vaccine doses fell by 23%. The Health Ministry expects the pace to be recovered in June.
- With over 40% of **Chile's** population having received a double vaccine dose, the government is working on a digital certificate for people to demonstrate their vaccination status.
- In **Greece**, the vaccine uptake among the elderly remains low by EU standards – 64.6% for over-80s, 68% for 70-79 and 53.1% for 60-69.
- **Peru** has been vaccinating at a rate of 55,000 doses daily over the past seven days; to cover the population aged over 18 by the end of 2021, the daily number would need to increase to around 98,000.
- To sustain a rapid pace of immunization, **Poland's** government is introducing various financial incentives – including lottery tickets – for vaccinated residents and local governments with the highest vaccination rates.
- Amid slow vaccination progress in **Russia**, the federal and regional authorities are discussing mandatory vaccination for certain groups of residents.
- Phase 2 of **South Africa's** vaccination rollout started on 17 May, targeting those over 60, while supply shortages should ease as large volumes of Pfizer and J&J vaccines arrive on a monthly basis.
- The percentage of **Thais** willing to be vaccinated dropped to 63% in May from 83% in January, according to a YouGov poll, on par with the Philippines' 63% and lower than Vietnam's 88%.

#### Vaccine procurement

- **Argentina** and **Mexico** will each receive 800,000 doses of the AstraZeneca (AZ) vaccine in the coming days; this is the first batch of the vaccine produced jointly between the two countries. The plan is to produce vaccines to supply the rest of **Latin America** (except Brazil, which has a separate agreement with AZ).
- **Colombia's** government is lobbying the US for a vaccine "loan" so that it can accelerate its rollout.
- **Hungary** opted out of the latest EU-wide deal to obtain Pfizer-BioNTech vaccines as the government considers having already contracted enough doses to re-vaccinate its population in 2022.
- **Kenya** expects to run out of Covid-19 vaccines by the end of May or early June. The country has received just 1.02mn AZ doses of 3.6mn doses that COVAX was due to deliver by May.
- Other African countries that have already exhausted their COVAX vaccines include **Ghana, Rwanda** and **Senegal**, while countries like **Malawi** and **South Sudan** have destroyed thousands of shots that had already expired.
- **Vietnam** has set up a special fund for the procurement of up to 150mn doses by the end of the year. It reveals an uncharacteristic misstep for the government, which wanted to rely on a domestically-produced vaccine but is now scrambling to purchase vaccines from abroad as its own local vaccine may not be ready in volume until much later this year.

### Infections and new variants

- Six **African** countries have now reported cases of the B.1.617 variant first identified in India: **Angola, the Democratic Republic of Congo, Morocco, Kenya, South Africa** and **Uganda**.
- In **Brazil**, three states (Para, Maranhão and Ceara) are investigating cases of the B 1.617 variant first identified in India.

### Vaccine diplomacy

- **International Monetary Fund (IMF)** MD Kristalina Georgieva has proposed a USD 50bn global initiative to overcome the vaccination gap between rich and poor countries. The proposal aims to vaccinate at least 40% of the global population by end-2021 and 60% by H1 2022 via USD 4bn in grants to COVAX, donations of surplus doses, and ensuring flows of raw materials and vaccines.
- After a center dispensing the Pfizer-BioNTech vaccine was swamped last week, the **Philippine** government stopped providing advance notice of the type of vaccine people would be receiving in their first dose. According to one national poll released this week, two out of three Filipinos prefer US-made vaccines.
- **Taiwanese** President Tsai Ing-wen accused the **Chinese** government of interfering to block a deal in December for Pfizer-BioNTech to sell to Taiwan.

### Client Portal >>

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## Emerging Markets Covid-19 Vaccination Strategies and Challenges

### Rating of countries' vaccine roll-out (as of 26 May 2020):

	Between 0% and 10% of the total population has received at least one Covid-19 vaccine dose
	Between 10% and 30% of the total population has received at least one Covid-19 vaccine dose
	More than 30% of the total population has received at least one Covid-19 vaccine dose

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Israel	Virtually all high-risk adults have been vaccinated.	Israel has one of the highest vaccination rates in the world, with 122 doses per hundred people. 59% of the population has been fully vaccinated, and daily vaccination rates have trended downward as the eligible population diminishes. Approximately 475,000 vaccines have been administered in the West Bank and Gaza, 9.2 doses per hundred people.	<b>Pfizer-BioNTech</b> – Israel is administering the Pfizer vaccine, in exchange for giving Pfizer extensive patient data. <b>Moderna</b> – Israel plans to vaccinate about 100,000 Palestinian workers with the Moderna vaccine. The Palestinian Authority has received more than 310,000 doses: 100,000 <b>Sinopharm</b> , 97,000 <b>AZ</b> , 70,000 <b>Sputnik</b> , 37,000 <b>Pfizer-BioNTech</b> and 2,000 <b>Moderna</b> .
UAE	Emirati citizens, their domestic workers, elderly, sick, and those in health and education are eligible for vaccination without appointment. Other residents eligible for vaccination free of charge.	As of 24 May, about 12.2mn shots have been administered (123% of population). The UAE has not reported how many are fully vaccinated since February. Third shots of Sinopharm drug are being given for those with low levels of antibodies. Dubai has emphasized the Pfizer vaccine, Abu Dhabi the Sinopharm vaccine.	<b>Sinopharm</b> and <b>Pfizer-BioNTech</b> are the two approved vaccines. UAE signed agreement to produce Sinopharm domestically.
Chile	Target to vaccinate 5mn people (ca. 26% of population) by end-Q1/2021 has been met. Next target is to vaccinate 15mn people (80% of population) by end H1/2021, which is on track; vaccinations currently being administered to people over the age of 35. Medical workers first to receive vaccinations, followed by elderly in care homes; over 65s; key workers in public bureaucracy; people with other co-morbidities.	Pfizer vaccinations started in late Dec but mass campaign using China's Sinovac vaccine started 3 Feb. As of 25 May, 9.6mn people (50.8% of population) have received one vaccine dose and 7.7mn (40.6% of population) have received a double dose.	<b>Pfizer-BioNTech</b> – agreement for 10mn doses; <b>Sinovac</b> – agreement for 60mn doses over three years; <b>AZ</b> – agreement for 14.4mn doses. <b>COVAX</b> – agreement for 8mn doses; first delivery of 160,000 AZ doses arrived late-April. <b>CanSino</b> – agreement for 1.8mn doses, with first delivery reported to be imminent. Local regulatory approval for <b>J&amp;J</b> and <b>Sputnik V</b> vaccines pending.
Hungary	Vaccination is available to all citizens as well as foreigners living in Hungary. Vaccinations (only with Pfizer-BioNTech vaccine) are available for 16-18-year-olds, and authorities considering a possibility of vaccinating the 12-15-year-old age group.	Vaccination started on 26 Dec. As of 26 May, 5.04mn people (52% of population) have received at least one jab and 3.2mn (33%) got both shots. Demand for AZ, Sinopharm and Sputnik V vaccines remains low.	Procurement contracts and deliveries as of 26 May via the EU's joint mechanism: <b>AZ</b> – 6.5mn doses (1.2mn delivered) <b>Moderna</b> – 1.7mn doses (561,600 delivered). <b>Pfizer-BioNTech</b> – 10.9mn doses (3.6mn delivered). <b>J&amp;J</b> – 4.4mn doses (121,200 delivered). <b>CureVac</b> – 500,000 doses. National-level procurement: <b>Sputnik V</b> – 2mn doses (2mn delivered). <b>Sinopharm</b> – 7mn doses (7.2mn delivered).
Singapore	Currently, seniors, healthcare and frontline workers nominated by their employers were the first to be eligible. The vaccination of those 40 years old is ongoing, and Singapore is phasing in younger groups as supply becomes available.	As of 22 May, 3.72mn doses have been administered, of which 2.11mn (37% of the population) have received one dose and 1.62mn (28%) have received both shots. The goal is to complete all immunizations by the end of the year.	The government has concluded agreements with three suppliers, with undisclosed quantities: <b>Pfizer-BioNTech</b> , <b>Moderna</b> and <b>Arcturus</b> . It has received <b>Coronavac</b> but claims that the data for authorization are incomplete. However, it is looking for additional supplies in anticipation of possible shortfalls.

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Poland	Adults of all age groups are allowed to register for a Covid-19 jab. Vaccination is available for employees of large companies (300+ people). To sustain a rapid pace of vaccination, government launched various financial incentives, including lottery, for individuals, municipalities and state-owned companies.	Vaccinations started on 27 Dec. As of 26 May, 13.0mn residents (33.9% of population) received a first jab and 5.4mn (14.2%) had both shots. Government likely to meet its target of administering 14mn doses during Q2 (in total 20mn doses in H1).	Procurement exclusively via the EU. Overall, around 100mn doses contracted. As of 26 May, 20.3mn vaccine doses delivered.
Greece	Greece is currently offering the full range of vaccines to everyone aged over 35. The government is hoping to administer at least 5.6mn vaccines by the end of May, meaning that around a third of Greeks would have received at least one jab. It hopes that half the population will have received at least one dose by end-June.	As of 24 May, Greece had administered just over 5mn vaccines, 3.3mn (30.6% of population) have received at least one jab, while 1.8mn (16.9% of population) have received both doses. The uptake among elderly Greeks remains low for EU standards – 64.6% for over-80s, 68% for 70-79 and 53.1% for 60-69. Also, although almost all the residents of a few islands have been fully vaccinated, the average of all islanders who have received at least one dose is around 30%.	Greece is using the <b>Pfizer-BioNTech, AZ, Moderna, and J&amp;J</b> jabs and is bound to the EU's procurement process. By the end of June, Greece is expecting 2.4mn from <b>Pfizer-BioNTech</b> , 850,000 from <b>AZ</b> and 308,000 from <b>Moderna</b> . 220,000 doses from <b>J&amp;J</b> are expected by early June.
China	Goal to vaccinate 560mn people, or 40% of the population, by end-June, is prompting some provinces to suspending first doses after 9 June to prioritize second doses. Chinese Centre for Disease Control and Prevention (CDC) said 80-85% vaccination required to reach herd immunity and that this level could be reached by the end of 2021. CDC also studying booster shots to increase effectiveness.	As of 25 May, 547mn vaccines doses administered (equal to 38% of population), including second doses, at average daily pace of 15.9mn doses over previous week. Small outbreaks in Anhui and Liaoning provinces appear to be contributing to a decline in vaccine hesitancy.	Government has approved five domestic vaccines; <b>Sinopharm Beijing, Sinopharm Wuhan, CanSino Biologics, Sinovac Biotech, and Anhui Zhifei Longcom Biopharmaceuticals</b> . Fosun Pharmaceutical reached a deal with BioNTech to build a factory in Shanghai to produce Pfizer/BioNTech vaccines.
Saudi Arabia	All Saudis over 16 are now eligible. Foreign workers in Saudis' homes, food services, and personal grooming will require vaccinations by mid-May to retain work permission. Vaccine will be required for entry to public facilities from August.	Vaccinations reportedly started in Dec. As of 24 May, 13mn doses have been administered (37.3% of population).	<b>Pfizer-BioNTech</b> and <b>AZ</b> approved for administration. <b>Sputnik V</b> – government has secured an unknown number of doses.
Czech Republic	Vaccination for people aged over 30 opened on 25 May. Starting 1 June, all residents aged over 16 will be eligible for vaccination.	Vaccinations started on 27 Dec. As of 26 May, 3.5mn residents (27.5% of population) have received a first jab and 1.25mn (9.8% of population) got both shots. Nearly 80% of immunizations carried out with Pfizer-BioNTech vaccine; 10% with AZ; 9.4% with Moderna and 0.6% with J&J.	Procurement has been conducted exclusively via the EU. As of 26 May, 4.8mn doses of vaccines delivered. <b>Pfizer-BioNTech</b> and <b>Moderna</b> – 4.3mn delivered out of 12mn doses ordered <b>AZ</b> – 486,854 delivered out 3mn doses ordered. <b>J&amp;J</b> – 31,925 delivered out of 2mn doses ordered. <b>CureVac</b> – 1mn doses ordered.
Turkey	Vaccination program divided into four stages, starting with medical personnel, pharmacy workers and the over 65s, followed by members of the security forces, teachers, those working in the food industry and transportation, and then Stage 2, the 50-64 age group. On 19 Apr, Turkey began vaccinating Group B2 of Stage 2, comprising people in the 55-59 age group. Next will be Group B3 of Stage 2, those in the 50-54 age group.	Vaccine roll-out started on 13 Jan with Sinovac. On 2 Apr, vaccinations also began with the Pfizer-BioNTech vaccine. As of 26 May, 28.37mn doses had been administered, with 16.24mn (19.4% of population) people receiving a first dose and 12.13mn (14.5%) receiving two doses. However, a shortage of vaccine has meant that the pace of vaccination has slowed since the beginning of May.	<b>Sinovac</b> – approved by regulator and roll-out started; agreement for 100mn doses, of which 26mn delivered by 26 May. <b>Pfizer-BioNTech</b> – approved by regulator and roll-out started; agreement for 120mn doses, with 6.1mn delivered by 26 May, another 14.2mn due by 15 Jun. <b>Sputnik V</b> – approved by regulator; agreement for 50mn doses with the first deliveries expected in Jun. Turkey has not joined <b>COVAX</b> .

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Brazil	<p>Phase 1: health workers; indigenous communities in demarcated territories; over 60s in care institutions; over 75s.</p> <p>Phase 2: 60-74s seniors.</p> <p>Phase 3: persons with comorbidities.</p> <p>Phase 4: education workers, homeless population, security and rescue forces, others.</p>	<p>As of 26 May, 19,8% (41,9mn) of the population has received the first dose of Covid vaccines. Meanwhile, 9,7% (20,6mn) has been vaccinated with both doses.</p>	<p><b>AZ</b> – 20,5mn doses expected to be delivered to the federal government in May, 108.4mn by June, 210.4mn by year-end.</p> <p><b>CoronaVac</b> – 5mn doses expected to be distributed in May by São Paulo state health institute Butantan. 130mn doses by year-end.</p> <p><b>Pfizer</b> – 2.5mn doses expected to be delivered in May. 100 mn by year-end.</p> <p><b>J&amp;J</b> – 38mn doses expected to be delivered in Q4.</p> <p><b>Sputnik V</b> – On 26 April, ANVISA (health regulator) rejected governors' request to import the immunizer. Meanwhile, emergency use request still pending regulator's approval.</p> <p><b>India's Covaxin</b> – purchase of 20mn doses but ANVISA approval yet to come.</p> <p><b>COVAX</b> – minimum 10% of population quota (42mn) doses. WHO to provide 10-14mn doses that will be distributed from mid-Feb to June. 2mn AZ and 842,000 Pfizer doses to be received in May.</p> <p><b>ButanVac</b> – 40mn doses are expected to be delivered from July and 100mn by year-end.</p>
Argentina	<p>Health sector personnel first in line for vaccine, followed in descending order by over 70s; over 60s; security personnel; vulnerable and at-risk in 18-59 age range; education sector; and strategic or vulnerable groups.</p>	<p>Sputnik V vaccinations started on 29 Dec. As of 26 May, 8.8mn first doses have been administered (representing 19.75% of population) while 2.4mn people (5.5% of population) have received two doses.</p>	<p><b>Sputnik V</b> – agreement for 30mn doses; local production currently undergoing testing. <b>AZ</b>– contract for 23.6mn doses, though most of this to be produced locally in conjunction with Mexico. <b>Sinopharm</b> – agreement for 4mn doses, of which around 3mn have now been delivered.</p> <p><b>COVAX</b> – approx. 1mn doses have been delivered; the government has been criticized for ordering only 20% of its Covax entitlement.</p>
India	<p>From 1 May, everyone above 18 is eligible for vaccination. All import curbs on foreign vaccines have been lifted and import duties have been waived. However, the target to vaccinate all above 45 without comorbidities is yet to be realized.</p>	<p>Vaccine roll-out began 16 Jan. As of 25 May, India has administered 198.33mn vaccine doses to 14.26% of the population. The number of Covid-19 new infections rates is dropping for the first time since April this year. India has halted AZ vaccine exports to cater to domestic demand. The export of drug Remdesivir and diversion of oxygen to any use other than medical has been banned.</p>	<p>All vaccines are now free to be used in India, whether Indian or foreign, as long as they have been certified as safe in the country of origin. Import duties have been waived. However, <b>Pfizer</b> wants an assurance of indemnity before it supplies doses to India. This is under negotiation. Russia's <b>Sputnik V</b> will also be available in June. Both <b>Pfizer-BioNTech</b> and <b>Moderna</b> have announced that they will supply the vaccine only to the federal government rather than to state governments directly. This is causing confusion and shortages.</p>
Mexico	<p>Frontline medical workers first in line followed by the over 60s age cohort; plan to vaccinate all this sector by end-April pushed back to end-May. Government wants all adults to have been offered a vaccine by October.</p>	<p>Vaccinations started 24 Dec. Roll-out stalled mid-Jan to mid-Feb but subsequently resumed with new vaccines from wider array of suppliers. As of 24 May, 18.6mn people (14.4% of population) have received one dose of the vaccine, with 11.8mn people (9.2% of population) fully inoculated.</p>	<p><b>AZ</b> – agreement for 77.4mn doses. US has supplied Mexico with 2.7mn doses from its AZ supply. <b>Pfizer</b> – 34mn doses ordered. <b>CanSino</b> – 35mn doses agreed.</p> <p><b>Sputnik V</b> – agreement for 24mn doses, with local production expected soon.</p> <p><b>COVAX</b> – 51.5mn doses agreed; <b>Sinovac</b> – agreement for 20mn doses. <b>Sinopharm</b> – agreement for 12mn doses though local regulatory clearance pending.</p>

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Colombia	Plan is to vaccinate 70% of the population (35mn people) by end-2021. Medical personnel first in line, followed by elderly and clinically vulnerable. Target is to vaccinate 26mn by end-July. Roll-out based on network of 3,000 vaccination centers.	Vaccination campaign started on 17 Feb with Pfizer vaccine. As of 24 May, 5.3mn people (representing 10.4% of population) have received a single dose, with 3.2mn people (6.2% of population) having received two doses. Government under pressure over slow start to vaccination campaign, though daily vaccinations have subsequently accelerated.	<b>Pfizer-BioNTech</b> – agreement for 10mn doses. <b>AZ</b> – 10mn doses agreed. <b>J&amp;J</b> – agreement for 9mn doses; local regulatory clearance granted. <b>Sinovac</b> – agreement for 7.5mn doses. <b>Moderna</b> – agreement for 10mn doses but arrival not expected until mid-2021. <b>COVAX</b> – agreement for 20mn doses.
Russia	Vaccination available to all citizens. Immunization target: 68.6mn people. In some regions, authorities are offering financial incentives for elderly to get vaccinated. Discussions on mandatory vaccination for certain occupational groups are taking place.	Vaccinations started in early Dec. As of 26 May, an estimated 16mn residents (10.9% of population) received at least one jab and 11.4mn (7.8% of population) were fully vaccinated. At current pace, Russia would immunize the targeted 60% of adult population in Apr/May 2022.	Russia relies solely on its own <b>Sputnik V</b> vaccine. Two more domestic vaccines - <b>EpiVax</b> and <b>CoviVac</b> have been approved by the country's regulators, but their production volumes are low. The export-oriented one-jab Sputnik Light vaccine approved on 6 May.
South Korea	First doses will be distributed to medical workers and elderly. Government has signed preapproval agreements for enough doses to vaccinate entire population. By 26 May, appointments have opened for the following: all citizens 60 and above, teachers for Pre-K to 2 <sup>nd</sup> Grade, essential workers and military personnel under 30. 261 vaccination sites are available nationwide as of 6 May.	Vaccination campaign started on 26 Feb. As of 26 May, 3.9% of the population have been fully vaccinated; 7.9% of the population have received at least one dose. The goal is to achieve herd immunity (70% vaccination rate) by November 2021. Authorities state that they have procured vaccines to inoculate 79 million people, but most of these are to be delivered later in the year creating a shortfall currently.	Government was slow to conclude purchasing agreements, believing it could wait due to low case numbers. <b>AZ</b> : 20mn doses; <b>Pfizer-BioNTech</b> : 20mn doses; <b>Moderna</b> : 40mn doses; <b>J&amp;J</b> : 6mn doses; <b>COVAX</b> : 20mn doses. <b>Novavax</b> : production began in April 2021, 20mn doses scheduled to roll out by September 2021.
Indonesia	Frontline healthcare workers estimated at 1.3mn have been vaccinated first, followed by security personnel, then 17mn teachers; working age 15 – 59 will also now be vaccinated, ahead of the elderly simultaneously. Vaccines procured by central government and distributed; free, not mandatory. Government is allowing the private sector to purchase vaccines for their employees, and their vaccination could start by June	Second phase of vaccination has started, focusing on the elderly and the active workforce. As of 25 May, 15.33mn (5.7% of population) have received at least one shot, while 10.13mn (3.75%) have received their second shot. Delays in AZ deliveries has led to uneven daily vaccination rates.	<b>Sinovac</b> – 125mn doses; <b>Pfizer-BioNTech</b> – 100mn doses; <b>Novavax</b> – 100mn doses; <b>COVAX</b> initiative – 100mn doses; <b>AZ</b> – 100mn doses; private sector importation unknown
Peru	Phase 1 focused on medical and other frontline emergency personnel, including election staff. Phase 2 focused on over 60s, those with co-morbidities, and indigenous population. Caretaker government has revised down its original goal and now wants 4.65mn people vaccinated by 28 July when handover to new government is scheduled; government also says it will leave sizeable stock of vaccines for incoming government.	Nov 2020 political crisis interrupted procurement process, but caretaker government accelerated procurement efforts from early 2021. Vaccinations using Sinopharm vaccine started 9 Feb. Pfizer vaccines now also being administered. As of 25 May, 2.27mn first doses have been administered (representing 7% of population). 1mn people (3% of population) have received two doses.	<b>Sinopharm</b> – contract for 38mn doses, 1mn of which have arrived. <b>AZ</b> – agreement for 14.4mn doses to arrive from Sep. <b>Pfizer-BioNTech</b> – original agreement for 20mn doses recently expanded to 32mn doses, of which around 3mn to arrive over May. <b>COVAX</b> – agreement for 13.2mn doses, of which around 400,000 doses have arrived. Ongoing talks with <b>J&amp;J</b> (5mn doses), <b>Russia's Gamaleya Institute</b> (for 10mn Sputnik V doses), <b>Moderna</b> (12mn doses), <b>Sinovac</b> (7mn doses), and <b>CureVac</b> .
Malaysia	Frontline medical workers, police and army officials are being prioritized in the first stage of the vaccine roll-out. The second phase that started 19 Apr and which will run through August will involve senior citizens, high-risk groups with co-morbidities and the disabled. The third phase starting in May will cover all adults above 18.	As of 25 May, 1.66mn (5.2% of the population) have received their first dose of the vaccine. Malaysia is aiming to vaccinate 80% of its population.	<b>Pfizer-BioNTech</b> – 32mn doses secured; <b>Sinovac</b> – 12mn doses; <b>AZ</b> – 6.4mn doses via <b>COVAX</b> facility and another 6.4mn contracted directly; Sputnik V – 6.4mn doses; CanSino Biologics – 3.5mn doses

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Thailand	In the first phase, the priority will be the elderly, frontline healthcare and social workers and those with co-morbidities. The second phase will focus on provinces with the highest Covid incidences. However, there are two special cases – companies will be allowed to import and distribute vaccines and tourism areas such as Phuket are being accelerated to achieve	As of 22 May, 2.8mn (4.11% of population) of first doses have been administered, with another 0.52mn (0.7%) having been fully vaccinated.	<b>Sinovac</b> – 2mn, but the country is negotiating for an additional 6mn doses. <b>AZ</b> – 61mn (imported and local joint venture)
Philippines	Vaccine roll-out started in March with high risk groups such as healthcare workers; workers in education, social welfare agencies; law enforcement and military personnel; the poor; senior citizens; other vulnerable populations. Private sector is allowed to import vaccines, although some are required to make counterpart donations. The private sector importation may make up the bulk of Q2 and Q3 vaccinations.	As of 26 May, around 3.5mn (3.4% of population) have received a one dose while 1% are fully vaccinated.	Various vaccines totaling 40mn are expected through July: 13.5mn <b>Sinovac</b> , 1.2mn <b>Moderna</b> , 7.47mn <b>AZ</b> , 14mn <b>Sputnik V</b> ; 3mn <b>Novavax</b> and 1.5mn <b>J&amp;J</b> . Government claims to have ordered a total of 132mn doses through the next 12 months.
Kenya	Kenya plans to inoculate 50% of its 50mn population by June 2022. Priority given to frontline medical workers, essential workers (police, teachers, students, immigration officials), workers in hospitality sector, people with comorbidities, and those aged 58+, people in informal settlements.	First 1.02mn AZ/COVAX vaccine doses arrived 2 Mar; roll-out began 5 Mar. Vaccine doses have been distributed to regional depots in all 47 counties, but shortages reported in high-uptake areas like Nairobi. A second delivery of 2.5mn AZ/COVAX doses has been delayed due to India's export restrictions. As of 23 May, 1.77% of population had been vaccinated.	Kenya is heavily reliant on <b>COVAX</b> (a total 24mn doses expected through 2021). India previously donated 100,000 AZ shots; the government plans additional acquisitions from Pfizer and J&J, some under the African Union's African Vaccine Acquisition Task Team ( <b>AVATT</b> ) initiative.
Egypt	Medical staff, elderly, and those with chronic illnesses have priority.	Egypt has administered an estimated 1.8mn vaccines, representing 1.73 per 100 people. Reporting has been incomplete and sporadic. Egypt is charging patients for vaccinations, in contravention of global trends. Institute for Health Metrics and Evaluation at the University in Washington estimated in May that Egypt has undercounted Covid deaths by a factor of more than 12.	<b>COVAX</b> – agreement for 20mn doses of <b>AZ</b> vaccine. <b>Sinopharm</b> – agreement for 40mn doses; 350,000 reportedly received. <b>Pfizer-BioNTech</b> – contracts reportedly signed for 20mn. <b>AZ</b> – agreement for 30mn doses <b>Sputnik V</b> – 25mn have been secured. Egypt has also signed agreements to manufacture <b>Sputnik V</b> and <b>Sinovac</b> vaccines domestically, with production of 60mn doses of the latter promised to start in June 2021.
Taiwan	Priority groups (868,000 people): health care personnel; essential workers; nursing home staff; military; social welfare workers. Outside priority groups, individuals can obtain vaccinations through a self-paid program if they intend to travel abroad (excluding tourism).	700,000 AZ doses have arrived as of late May. 319,065 doses administered (equal to 1.3% of population) as of 25 Ma, including second doses. President	20mn doses ordered: <b>AZ</b> – 10mn doses and 5mn additional AZ doses expected through <b>COVAX</b> . <b>Moderna</b> – 5mn doses, but delivery dates are unclear. First batch of 200,000 AZ doses through <b>COVAX</b> arrived in early April. Tsai Ing-wen accused the Chinese government of blocking a deal for BioNTech to sell to Taiwan.
South Africa	Plans to vaccinate 40mn people by Feb 2022, but rollout slow. Phase 1 (Feb-May): ca. 1.25mn frontline medical workers; Phase 2 (May-Oct): 16.6mn essential workers (mining, hospitality, media, taxi industry), people in institutions, over 60, with comorbidities; Phase 3 (Nov-Feb): 22.6mn remaining adult population.	Limited "implementation study" roll-out of J&J vaccine started on 18 Feb after last-minute pivot away from AZ vaccine due to concerns over efficacy against B.1.351 variant. Phase 2 started on 17 May. As of 22 May, 1.08% of population had been vaccinated.	61mn doses in pipeline – from J&J and Pfizer. Deliveries ramping up from May but largest volumes due in Q3/4. <b>J&amp;J</b> – 31mn <b>Pfizer-BioNTech</b> – 30mn Vaccine uptake from AVATT and COVAX allocations uncertain.

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Pakistan	Vaccine registration for those above 40 opened on 27 April. Meanwhile, walk-in vaccination is available for those above 50. Those above 65 and frontline workers are still being vaccinated. The country is reporting a fall in positivity rates and a decline in new infections.	As of 25 May, 1.1% of the population has received at least one dose of the vaccine. 0.5mn doses of China's Sinopharm arrived on 1 Feb. 50,000 doses of Sputnik V were received by a private logistics firm. As infections rose, on 26 April China shipped 1mn doses as an emergency measure. Pakistan averaged about 113,367 doses administered each day. At that rate it will take 383 more days to administer enough doses to another 10% of the population.	Emergency use permission given to <b>AZ</b> , <b>Sinopharm</b> and <b>CanSino</b> . Both Chinese vaccines are currently undergoing clinical trials. Four more vaccines in the pipeline. The first batch of <b>COVAX</b> vaccines has been received. Pakistan is working on developing a new nasal vaccine with <b>CanSino</b> , a Chinese manufacturer.
Nigeria	Vaccination targets: 40% of population in 2021, 70% by end-2022. Healthcare personnel; people over 50; people with underlying health conditions to be prioritized. Most heavily affected states will be prioritized in allocation of doses.	First batch (3.9mn doses) of AZ vaccine supplied by COVAX arrived 2 Mar; vaccination campaign has commenced. As of 23 May, 1.93mn people (0.94% of population) had received their first jab.	20% of vaccines supposed to be supplied through the <b>COVAX</b> initiative. Government expects total of 58mn vaccine doses from COVAX (16mn) and the African Vaccine Acquisition Task Team (AVATT, 42mn). Government also expressed interest in procuring <b>Sputnik V</b> and/or <b>Sinovac/Sinopharm</b> vaccines.

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