

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 the latest developments. Please do not hesitate to contact us if you want to discuss any of the countries mentioned in more detail.

Click on 'View PDF' to see the table.

HIGHLIGHTS

Vaccine rollout

- In **Argentina**, authorities successfully ramped up the application of second vaccine doses over August, fulfilling a pledge to administer 7mn jabs. However, the focus on second jabs resulted in a slower rollout of first jabs; during August, the daily average of first jabs administered was only 90,000.
- In **Brazil**, the federal government announced a third dose for seniors over 70 and immunosuppressed people in September. The health minister affirmed that booster shots should preferably be made with the Pfizer vaccine, but AstraZeneca (AZ) and Janssen (J&J) could also be used.
- A survey measuring public confidence in the various vaccines being administered in **Chile** shows the public trusts the Pfizer vaccine the most, though confidence in Chinese-made Sinovac's vaccine has risen steadily as the Covid-19 caseload and positivity rates decline; Pfizer and Sinovac account for over 90% of doses administered in Chile.
- The **Czech Republic** will start registration for third vaccine doses on 20 September. The booster shots are recommended for the elderly but will be available to anyone who has been vaccinated eight months ago or earlier.
- In **Greece**, the goal of vaccinating 70% of adults by the end of summer is in doubt. However, after a big dip during summer, daily vaccination numbers are picking up slightly. Among the over-60s, the vaccination uptake ranges between 72 and 85%, a lower figure than in other western European countries.
- **Indonesia's** health minister disclosed that 450,000 healthcare workers – about one-third of the national total – have received Moderna as a booster shot. They had initially received the Sinovac vaccine.
- **Nigeria** has resumed its vaccination program, following major deliveries of AZ and Moderna vaccines donated by the UK and US, respectively, and the first delivery of the J&J vaccine procured via the African Union's African Vaccine Acquisition Task Team (AVATT).

- Health authorities in **Peru** want to “fill gaps” in vaccine coverage; the health ministry says 900,000 people over 60 are not yet fully vaccinated even though vaccine hesitancy has dropped from 40% in late-2020 to 11% now.
- In **Russia**, the number of administered first doses dropped to around 160,000 per day, comparable to pre-mandatory vaccination levels in spring and early summer; a renewed push for compulsory vaccination may come after the State Duma election in September.
- **South Africa**'s vaccine rollout has been opened to all adults earlier than planned, with registration for the 18-34 age cohort opening on 20 August. Around 240,000 shots are now being administered per day; the official target has been raised to 300,000.
- On 17 Aug, **Turkey** announced plans to provide a second Pfizer-BioNTech dose to those who had received two doses of Sinovac. 8.79mn (10.05% of the population) have already received three doses.

Vaccine procurement

- **Africa** expects to receive 117mn vaccine doses in the coming months, but an additional 34mn will be needed to reach even a modest 10% vaccination target.
- In August, the **African Union** (AU) announced the start of monthly shipments of vaccines acquired by the African Union's African Vaccine Acquisition Task Team (AVAT) to member states. AVAT has ordered 220mn J&J single-shot vaccines.
- **Chinese** health authorities have not yet approved the Pfizer-BioNTech vaccine for emergency use on the mainland, freeing up Shanghai Fosun Pharmaceutical – which has an exclusive contract to distribute Pfizer-BioNTech vaccines in Greater China – to deliver 1mn doses to Taiwan in early September, about a month earlier than planned.
- **Nigeria**'s drug regulatory agency has certified the Chinese Sinopharm vaccine safe for use. The decision paves the way for the use of a yet-to-be-determined delivery of 7.7mn Sinopharm vaccines via the COVAX program.
- **Peru** expects 12.9mn vaccine doses to arrive over September, with Sinopharm and Pfizer doses making up the bulk of deliveries.

Infections and new variants

- According to the Pan American Health Organization (PAHO), the Delta variant accounts for 94% of coronavirus cases in **Mexico**; despite the variant's rapid spread since it was first identified in Mexico in May, health authorities are saying Mexico's “third wave” is now waning. However, this week's return to in-person schooling could change the situation.
- Authorities in **Poland** and **Hungary** are concerned that the recent rise in Covid-19 cases marks the start of the fourth wave of the pandemic. Nonetheless, the new academic year is starting with full-time in-person education, and there are few restrictions in place.

Vaccine diplomacy

- **Colombia** plans to ask the US for a “loan” of Moderna vaccines to make up for a shortfall in deliveries, while it should also receive almost 1mn AZ doses from Spain via the Covax initiative imminently; looking to the medium-term, the government last week also signed an agreement with South Korean pharmaceutical companies to facilitate local vaccine production.
- **Indonesian** regulators have authorized the use of Sputnik V, but since it is not part of the government's national vaccination program, the administration of the vaccine is being authorized for the private sector.
- Slovakia will stop the administration of the **Russian** Sputnik V vaccine in September due to low demand.

- The **World Health Organization** (WHO) has called for a moratorium on booster shots until the end of September to ensure that at least 10% of people in all countries are vaccinated before boosters are provided.

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Emerging Markets Covid-19 Vaccination Strategies and Challenges

Rating of countries' vaccine rollout (as of 1 September 2021):

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

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Israel	Israel was first to roll out third dose Pfizer booster, and has progressively lowered the eligibility age (at least 1.6mn people have received the third shot). The health ministry reported that so far booster doses appear to have curbed a Delta-led surge and prevented severe illness. A lower dosage of Pfizer has been authorized for vulnerable children between 5-11 years old, and children over 12 are eligible for the vaccine.	Israel has vaccinated 66% of its 9.3mn citizens with at least one dose, and 60% are fully vaccinated (majority have received Pfizer). Vaccine supply to West Bank and Gaza has barely scratched the surface with only around 14% vaccinated with a first dose and 9.2% in the territory fully vaccinated (although reporting is lagging).	Pfizer-BioNTech – Israel administering Pfizer vaccine, in exchange for giving Pfizer extensive patient data. Another 1mn Pfizer doses to arrive in Sept. Moderna – Israel plans to vaccinate about 100,000 Palestinian workers with the Moderna vaccine. 500,000 doses arrived late August in West Bank and Gaza from the US (via COVAX). The Palestinian Authority has received more than 390,000 doses: 100,000 Sinopharm , 97,000 AZ SK Bio , 90,000 Sputnik V , 140,000 Pfizer-BioNTech and 2,000 Moderna , 25,000 AZ SII , and 48,000 AZ R-Pharm .
UAE	UAE has one of the highest immunization rates globally. Booster doses being administered for those who received second Sinopharm dose 6+ months ago; not yet required for other vaccines. With school resuming, unvaccinated children 12+ will be required to take a weekly PCR to attend classes. From 30 Aug, the UAE is receiving tourists from all countries who have received both doses of a WHO-approved Covid-19 vaccine (a rapid test is still required on departure and arrival in the UAE).	As of 31 Aug, 18.1mn doses have been administered. 87% of the UAE population have received a first dose, while 76% are fully vaccinated according to the health ministry.	Sinopharm , Sinovac , AZ , Covishield , J&J , Moderna and Pfizer-BioNTech are the WHO-approved vaccines that are accepted. UAE signed an agreement to produce Sinopharm domestically.
Chile	Target to vaccinate 80% of population over 16 years of age has been met. Medical workers were the first to receive vaccinations, followed by elderly in care homes; over 65s; key workers in public bureaucracy; people with other co-morbidities. Offer of booster jabs also opened in Aug.	Pfizer vaccinations started in late Dec but mass campaign using China's Sinovac vaccine started 3 Feb. As of 30 Aug, 14.4mn people (74.8% of population) have received at least one dose, while 13.5mn people (70.2% of the population) have been fully vaccinated. Campaign of booster jabs started in mid-Aug.	Pfizer-BioNTech – agreement for 10mn doses; Sinovac – agreement for 60mn doses over three years; AZ – agreement for 14.4mn doses. COVAX – agreement for 8mn doses. CanSino – agreement for 1.8mn doses. J&J – regulatory clearance in early June. Sputnik V - local regulatory clearance obtained late-Jul.
Hungary	Vaccination is available to all citizens aged 12+ years-old as well as foreigners living in Hungary. There is no official vaccination target. Starting Aug, third vaccine doses are available to citizens vaccinated four months ago or earlier. As of 15 Aug, vaccination is mandatory for healthcare employees. Vaccinations are available at schools at the start of the school year in September.	Vaccination started on 26 Dec. As of 31 Aug, 5.75mn people (59.1% of population) have received at least one jab and 5.50mn (56.6%) have been fully immunized. The government extended mandatory vaccination deadline for medical professionals by two weeks until 15 September.	Procurement contracts and deliveries as of 31 Aug via the EU's joint mechanism: AZ – 6.5mn doses (2.9mn delivered) Moderna – 1.7mn doses (1.47mn). Pfizer-BioNTech – 10.9mn doses (8.3mn delivered). J&J – 4.3mn doses (550,800 delivered). National-level procurement: Sputnik V – 2mn doses (delivered). Sinopharm – 5mn doses (5.2mn delivered).
Singapore	Seniors, healthcare and frontline workers nominated by their employers were the first eligible groups. Starting in July, all residents 12 years and older are eligible to be vaccinated. Sinovac has been imported and allowed for distribution by some private clinics but is not being counted in the official vaccination count.	As of 29 Aug, 4.43mn (77.6% of population) have been fully vaccinated and .16mn (2.91% of population) have received at least one dose. Having reached its vaccination targets, Singapore is planning on lifting many restrictions and allowing some inbound travel in the fourth quarter.	Government has concluded agreements with three suppliers, with undisclosed quantities: Pfizer-BioNTech , Moderna and Arcturus . It has received CoronaVac and has allowed private purchases of the vaccine. It is looking for additional supplies in anticipation of possible shortfalls.

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Poland	All residents aged 12+ years old are eligible for vaccination. Starting 1 Jul, vaccinated residents can participate in a state-run lottery. Discussions on mandatory vaccination are likely to pick up as the fourth wave of the pandemic is approaching. Third (booster) vaccine doses are available to people with immunodeficiency.	Vaccinations started on 27 Dec. As of 31 Aug, 19.3mn residents (50.5% of population) received a first jab and 17.0mn (44.4%) are fully vaccinated. The number of new vaccinations has dropped to around 75,000 per week at the end of Aug (down from the peak of 1.2mn in early May).	Procurement exclusively via the EU. As of 31 Aug, 53.9mn vaccine doses delivered: 37.6mn Pfizer-BioNTech , 9.5mn AZ , 4.7mn Moderna , 2.2mn J&J .
Greece	Currently offering vaccines to everyone over the age of 12 but is short of its target to vaccinate 70% of adults by the end of summer. The government has made it compulsory for hospital staff to be vaccinated. Non-vaccinated workers will be suspended from September 1. There are no firm plans to extend this to other parts of the civil service.	As of 30 Aug, 56.3% of the total population had received at least one jab and 53.4% are fully vaccinated. Daily vaccination rates dipped substantially during much of the summer but they have started to rise again over the past few days, at roughly 20,000. Among over 60s, the vaccination uptake ranges between 72 and 85%.	Greece is using the Pfizer-BioNTech , AZ , Moderna and J&J vaccines, adhering to the EU's procurement process. Next day appointments for vaccines are available in most parts of the country. Greece recently gifted 200,000 vaccines to Libya.
China	Goal of fully vaccinating 560mn people, or 40% of the population, by end-Jun appears to have been met, though government has not disclosed exact figures. The Chinese Centre for Disease Control and Prevention (CDC) said 80-85% vaccination is required to reach herd immunity and that this level could be reached by end-2021. The CDC is also studying booster shots to increase effectiveness against variants.	As of 26 Aug, 889mn residents, or 54% of the population, was fully vaccinated, and China had administered 1.86bn doses (including second doses) by 15 Aug. Average daily pace (seven-day moving average) was 14mn on 29 Aug.	Regulators have approved five domestic vaccines; Sinopharm Beijing , Sinopharm Wuhan , CanSino Biologics , Sinovac Biotech , and Anhui Zhifei Longcom Biopharmaceuticals . Fosun Pharmaceutical has contract to distribute and produce Pfizer-BioNTech vaccine and is waiting for mainland regulators to approve.
Saudi Arabia	587+ vaccine centers across the country. Mix of vaccines approved for 2 separate doses. KSA has now expanded approved vaccine list to include Sinopharm and Sinovac. Moderna approved for 12-17 year olds; students 12+ and school employees must be fully vaccinated from start of school term (29 Aug). Employees can be dismissed from employment for refusal to get vaccinated, individuals can be arrested for violating quarantines, and businesses fined for violating preventive measures. Vaccination mandatory to enter commercial and govt spaces (since 1 Aug); citizens need to be fully vaccinated to leave KSA.	The vaccination program began on 17 Dec. As of 31 Aug, the Kingdom has administered over 36.8mn vaccine doses; 65% of the population has received at least one dose and 43% are fully vaccinated.	Pfizer-BioNTech , Moderna , J&J , and AZ approved for administration. Sinovac and Sinopharm have just been approved. Sputnik V is not accepted or approved by Saudi Arabia for travelers visiting the Kingdom.
Czech Republic	Since 1 Jul, all residents of 12+ years old are eligible for vaccination. The government has set up vaccination centers that allow residents to show up without pre-registering. Registration for third (booster) vaccine dose will start on 20 September and will be available to persons who have received their second/last dose eight months ago or earlier.	Vaccinations started on 27 Dec. As of 31 Aug, 5.7mn residents (53.6% of population) have received a first jab and 5.5mn (51.6%) were fully immunized. 82.8% of immunizations carried out with Pfizer-BioNTech vaccine; 7.7% with AZ; 7.8% with Moderna and 1.7% with J&J. The number of administered first vaccine doses dropped to around 15,000 per week in late Aug, down from the peak of 440,000 in mid-May.	Procurement has been conducted exclusively via the EU. As of 31 Aug, nearly 13mn doses of vaccines delivered: Pfizer-BioNTech – 10.1mn; Moderna – 1.4mn; AZ – 1.1mn; J&J – 350,000.
Turkey	Vaccination program divided into four stages, starting with medical personnel and those over 65, followed by workers in key industries and then the 50-64, 18-49 and under 18 age groups, respectively. On 31 Aug, Turkey began offering vaccinations to the 15-24 age group. Turkey aims to vaccinate all adult residents by Sep. On 1 Jul, it began offering an additional dose of Pfizer-BioNTech to those who had received two doses of Sinovac, amid concerns about Sinovac's effectiveness against the Delta variant. On 17 Aug, Turkey announced plans to provide a second Pfizer-BioNTech dose to those who had received two doses of Sinovac.	Vaccine rollout started on 13 Jan with Sinovac. On 2 Apr, vaccinations also began with Pfizer-BioNTech vaccine. As of 31 Aug, 94.05mn doses had been administered, with 48.22mn (57.67% of population) people having received a first dose, 37.04mn (44.30% of population) at least two doses and 8.79mn (10.05% of population) three doses. After slowing in May, fresh Pfizer-BioNTech deliveries resulted in a rapid vaccine acceleration from Jun.	Sinovac – agreement for 100mn doses, of which 34.5mn delivered by 31 Aug. Pfizer-BioNTech – agreement for 120mn doses, with 70mn delivered by 31 Aug. Sputnik V – agreement for 50mn doses. 0.4mn doses arrived in late Jun but none had been administered as of 31 Aug. Turkey has not joined COVAX .

	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: adults with comorbidities.</p> <p>Phase 4: education workers, homeless population, security and rescue forces, others.</p> <p>Phase 5: 59-18 gradually.</p> <p>Phase 6: teenagers with comorbidities.</p> <p>Phase 7: teenagers above 12.</p>	<p>As of 31 Aug, 130.02mn first doses have been administered (representing 60.9% of the population) while 61.16mn people (28.67% of population) are fully vaccinated.</p>	<p>AZ – agreement for 162mn by year-end.</p> <p>CoronaVac – 110mn doses by year-end.</p> <p>Pfizer – 200mn by year-end.</p> <p>J&J – 41mn doses expected in Q4.</p> <p>Sputnik V – Contract suspended.</p> <p>Covaxin – Contract suspended.</p> <p>COVAX – minimum 10% of population quota (42mn) doses. WHO provided 10mn doses for distribution until Aug.</p> <p>ButanVac – currently on trial; 100mn expected 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. 12-17 year olds with comorbidities will also receive vaccines.</p>	<p>Sputnik V vaccinations started on 29 Dec. As of 30 Aug, 27.8mn people (representing 61% of population) have received a first dose, while 14.4mn people (32.3% of population) have received two doses.</p>	<p>Sputnik V – agreement for 30mn doses; local production underway.</p> <p>AZ – contract for 23.6mn doses, though most to be produced locally in conjunction with Mexico.</p> <p>Sinopharm – agreement for 24mn doses.</p> <p>CanSino – agreement for 5.4mn doses.</p> <p>Pfizer – agreement for 20mn doses finalized end-Jul, with deliveries expected as early as September.</p> <p>Moderna – 3.5mn doses made available from US government.</p> <p>COVAX – approx. 1.9mn AZ doses delivered; government has been criticized for ordering only 20% of its entitlement.</p>
South Korea	<p>Vaccination campaign started on 26 Feb. Goal to vaccinate 70% of the population with two doses by Nov 2021. Vaccinations of high schools and elementary schools are underway. Vaccinations for those aged 18 to 49 have started; hope to expand to younger population.</p>	<p>As of 1 Sep, 27% of population have been fully vaccinated; 54% of the population have received at least one dose. AZ jabs are administered only to the 50yrs+ age group. The military has begun providing second Pfizer-BioNTech jabs to personnel aged under 30, supported by a US donation of 1mn vaccines delivered in Jun. Samsung and other large companies will launch in-house vaccination programs in Aug.</p>	<p>A swap-deal with Israel has been set up to boost immediate supplies. South Korea will also strengthen support for phase 3 clinical trials of homegrown Covid-19 vaccines by the end of the year. The government has signed a letter intent to develop and produce vaccines with Denmark; similar agreements with Vietnam, the Vatican, and APEC (Asia-Pacific Economic Cooperation). Ongoing discussions with Russia and Romania.</p> <p>The country will purchase 30mn Pfizer-BioNTech vaccines for 2022. 400,000 J&J vaccines arrived on Aug 15. 1.01mn doses of Moderna vaccines arrived on Aug 23. 7mn doses will be delivered over the next 2 weeks. Government announces that 170mn vaccine doses will be available in 2022. The announcement was made to ease public concerns about the supply of vaccines.</p>

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Mexico	Frontline medical workers first in line followed by the over 60s age cohort and then in descending order by age. Government wants all adults to have been offered at least one dose by Oct.	Vaccinations started 24 Dec. Rollout stalled mid-Jan to mid-Feb but subsequently resumed with new vaccines from wider array of suppliers. As of 29 Aug, 57.6mn people (44.2% of population) have received at least one vaccine dose, with 33.6mn people (25.8% of population) fully inoculated.	<p>AZ – agreement for 77.4mn doses. US has supplied Mexico with 2.7mn additional AZ doses.</p> <p>Pfizer – 34mn doses ordered; 22mn delivered as of 4 Jul.</p> <p>CanSino – 35mn doses agreed.</p> <p>Sputnik V – agreement for 24mn doses, with local production expected soon.</p> <p>COVAX – 51.5mn doses agreed; Sinovac – agreement for 20mn doses.</p> <p>J&J – 1.35mn doses delivered.</p> <p>Sinopharm – agreement for 12mn doses though local regulatory clearance pending.</p> <p>Moderna – local regulatory clearance given in Aug.</p>
Colombia	Plan is to vaccinate 70% of the population (35mn people) by end-2021 was reached ahead of schedule at end-Aug. Medical personnel were first in line, followed by elderly and clinically vulnerable.	Vaccination campaign started on 17 Feb with Pfizer vaccine. As of 28 Aug, 35mn doses have been applied in total. 14.6mn people (29% of the population) have been fully inoculated, 2.8mn of whom have been vaccinated with a single-dose vaccine.	<p>Pfizer-BioNTech – agreement for 15mn doses.</p> <p>AZ – 10mn doses agreed.</p> <p>J&J – agreement for 9mn doses.</p> <p>Sinovac – agreement for 10mn doses.</p> <p>Moderna – agreement for 10mn doses.</p> <p>COVAX – agreement for 20mn doses.</p>
Taiwan	<p>Upcoming round of AZ vaccinations will target two groups totaling 1mn people: those over 29 years old who previously indicated willingness to receive AZ and those over 18 years old who belong to at-risk groups.</p> <p>For BioNTech doses, preference will be given to 12-17 year olds, followed by standard priority list previously issued by health authorities (healthcare workers, over 65, high-risk adults, etc).</p>	As of 29 Aug, 9.1mn people (38% of the population) had received one dose and a further 881,000 (4% of the population) was fully vaccinated. Average daily pace (7-day moving average) was 117,000 doses on 29 Aug.	<p>Taiwan has received 11.5mn doses, out of 81mn total doses ordered, with 10.6mn doses already administered through 27 Aug. 1.95mn additional AZ doses are expected in late August.</p> <p>1mn BioNTech vaccines ordered from Shanghai Fosun Pharmaceutical may arrive in early September due to delay in approval of BioNtech for mainlanders, which freed up Fosun doses for delivery to Taiwan.</p>
Malaysia	Frontline medical workers, police, and army officials were prioritized in phase one of the vaccine rollout. Phase two, which started 19 Apr and will run through Aug, will target senior citizens, high-risk groups with co-morbidities, and the disabled. Third phase that started in May included all adults over 18. Sinovac's CoronaVac is being phased out from the program once supplies run out.	As of 30 Aug, 14.88mn (46.6% of population) have been fully vaccinated and another 4.73mn (14.83%) are still on their first shot.	<p>Pfizer-BioNTech – 32mn doses;</p> <p>Sinovac – 12mn doses;</p> <p>AZ – 6.4mn doses via COVAX facility and another 6.4mn contracted directly;</p> <p>Sputnik V – 6.4mn doses;</p> <p>CanSino Biologics – 3.5mn doses</p>
India	From 1 May, everyone above 18 became eligible for vaccination. From 21 Jun, all vaccines from government health facilities have been declared free of cost. The federal government – in charge of vaccinations – is allocating vaccine supplies to states according to demand assessments. All import curbs on foreign vaccines have been lifted and import duties have been waived. While the target to vaccinate everybody above 45 without comorbidities has yet to be met, the vaccination process has picked up pace. However, private hospitals say that their administrative charges are not met by the INR 150 (USD 2) cap on the fee they are allowed to charge. They claim that vaccination has slowed down as a result. There is still no decision on vaccinations for children below 18.	Vaccine rollout began on 16 Jan. As of 28 Aug, 142.3mn people are fully vaccinated (10.2% of population) and 483.5mn (34.7% of the population) have received one dose. The rate of new Covid-19 infections remains stable after a significant decline between May and Jun. India has halted AZ vaccine exports to cater to domestic demand. Exports of Remdesivir and diversion of oxygen to non-medical uses have been banned. Some taxes on inputs in vaccine manufacturing have been lowered. A decision on mixing vaccines likely later in the week. Unless India steps up its daily vaccination rate, it is not going to be able to keep to its deadline of vaccinating its entire population by the end of the year.	All vaccines 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, Pfizer is negotiating an assurance of indemnity before it supplies vaccines to India. Russia's Sputnik V is available since Jun. Both Pfizer-BioNTech and Moderna have announced that they will supply vaccines only to federal government rather than state governments directly. Vaccine supplies have improved dramatically after the federal government took charge. However, some states are noticing supply chain glitches.

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Russia	Vaccination available to all citizens 18+. Immunization of adolescents aged 12-17 is expected to be launched in Sep. More than half of the country's 85 regions announced some form of compulsory vaccination for certain occupational groups. To encourage vaccinations, government has launched a lottery.	Vaccinations started in early Dec. As of 31 Aug, an estimated 43.9mn residents (30% of population) had received at least one jab and 36.6mn (25.1% of population) were fully vaccinated. The pace of new vaccinations has dropped to around 160,000 doses per day, which is comparable to the period before the roll out of mandatory for certain occupational groups in June.	Russia relies solely on domestically developed vaccines: Sputnik V , EpiVac , CoviVac and Sputnik Light . A fifth domestic vaccine EpiVacCorona-N – which is an updated version of EpiVac – has been registered by the Ministry of Health in late August. Authorities rule out imports of foreign vaccines.
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 that left office end-Jul left new government with contracts for 59.1mn doses to be delivered between Aug and Dec 2021, though new government has questioned this claim.	Nov 2020 political crisis interrupted procurement process, but caretaker government that left office end-July accelerated vaccine procurement. Vaccinations using Sinopharm vaccine started 9 Feb. Pfizer and AZ vaccines also being administered. As of 27 Aug, 10mn people (representing 30.1% of the population) have received at least one dose. 7.8mn people (23.4% of population) have received two doses.	Sinopharm – contract for 38mn doses. AZ – agreement for 14.4mn doses. Pfizer-BioNTech – original agreement for 20mn doses expanded to 32mn doses. COVAX – agreement for 13.2mn doses. Ongoing talks with J&J (5mn doses), Russia's Gamaleya Institute (for 10mn Sputnik V doses), Moderna (12mn doses), Sinovac (7mn doses), and CureVac .
Indonesia	Frontline healthcare workers estimated at 1.3mn have been vaccinated first, followed by security personnel and 17mn teachers; working age 15-59 are also now being vaccinated, simultaneously with the elderly. Vaccines procured by central government; distributed for free but not mandatory. Government is allowing the private sector to purchase vaccines for their employees, with these vaccinations now underway.	Second vaccination phase has started, focusing on the active workforce. As of 30 Aug, 35.52mn (13.1% of the population) have been fully vaccinated and another 27.1mn (10%) are on their first jab. The vaccination pace could accelerate starting in Sep. as more supplies are expected.	Sinovac – 125mn doses; Pfizer-BioNTech – 100mn doses; Novavax – 100mn doses; COVAX initiative – 100mn doses; AZ – 100mn doses; private sector importation unknown.
Thailand	Phase one prioritizes the elderly, frontline healthcare and social workers, and those with co-morbidities. Phase two will focus on provinces with highest Covid-19 incidence. However, there are two special cases – companies will be allowed to import and distribute vaccines, and tourism areas such as Phuket are being prioritized.	Uneven supplies of locally-produced AZ vaccines sometimes slow down vaccine rollout. Sinovac and Sinopharm vaccines are now being imported. As of 30 Aug, 7.78mn (11.17%) of population have been fully vaccinated and 15.62mn (22.4%) are on their first jab.	Sinovac – 2mn, but Thailand is negotiating for an additional 6mn doses. AZ – 61mn (imported and local joint venture).
Pakistan	Vaccination of 18-year-olds and above commenced on 3 Jun. Vaccine registration for over-40s opened on 27 Apr. Meanwhile, walk-in vaccination is available for those above 50. Those above 65 and frontline workers are still being vaccinated. Positivity rates and new infections have been rising for a month. Govt aims to vaccinate 70mn people by Dec 2021. Many states have imposed stricter curbs on gatherings, weddings, cinema halls and schools. Among them is the region of Sindh, whose capital Karachi is facing a surge.	As of 26 Aug, 50.9mn vaccines had been administered and 15.27mn or 6.8% had been vaccinated fully. 17.7% of population had received at least one dose while 6.8% were fully vaccinated.	Emergency use permission given to AZ , Sinopharm and CanSino . Both Chinese vaccines are undergoing clinical trials. Four more vaccines in the pipeline. First COVAX vaccines have been received. Pakistan is working on developing a new nasal vaccine with CanSino , a Chinese manufacturer. On 4 Jun, it announced the successful manufacture of CanSinoBio , a single-dose vaccine produced with Chinese technology. On 21 Jun, Pfizer-BioNTech announced it will provide 13mn doses over the course of 2021
South Africa	Plans to vaccinate 35mn people by end-2021 and 40mn by Mar 2022. Rollout started late (18 Feb) but is accelerating. Age-group-based rollout largely abandoned amid improved vaccine supply.	J&J and Pfizer vaccines are arriving in large quantities. Vaccination open to all adults (registration for 18-34 age cohort began on 20 Aug). Shots administered now average around 240,000 per day but official target revised upwards to 300,000. As of 30 Aug, 15.41% of population had received at least one shot.	Initially reliant on COVAX/AZ vaccines, South Africa pivoted to two manufacturers, J&J and Pfizer. Deliveries ramped up from May, with largest volumes due in Q3/4. J&J – 31mn doses Pfizer-BioNTech – 30mn doses Authorities now reconsidering acquiring other vaccines, including AZ .

	Vaccination strategy	Current state of vaccine roll-out	Procurement
Philippines	Vaccine rollout started in Mar 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 allowed to import vaccines, though some are required to make counterpart donations. Private sector importation may make up the bulk of Q2 and Q3 vaccinations. In Manila, citizens whose work requires them to leave their homes are now being vaccinated.	As of 16 Aug, 13.78mn (12.75%) of the population are fully vaccinated and 4.91mn (4.54%) are fully vaccinated. Shortages in supply have been slowing down the vaccination rate since July, but the government is hoping for substantial Moderna and AstraZeneca deliveries in the fourth quarter.	The Philippine government has ordered 113mn doses from five vaccine manufacturers: Sinovac – 26mn doses, Sputnik V – 10mn, Moderna – 20mn, AZ – 17mn, Pfizer – 40mn. Several million Novavax doses imported by the private sector are expected in the Q4.
Kenya	Kenya now plans to vaccinate all adults by Jun 2022. Rollout in three phases (which may overlap): 1) frontline workers (including healthcare, teachers, army/police officers) and people aged 58+; 2) frontline workers and adults aged 18+ with comorbidities; 3) all adults aged 18+.	Rollout began 5 Mar with first 1mn AZ/COVAX doses, but supplies ran out by Jun amid India's export restrictions. Deliveries picked up in Jul via COVAX deliveries, US and EU donations. As of 30 Aug, 3.54% of the population had been fully or partly vaccinated.	Kenya relies on COVAX for 24mn doses but recently budgeted for additional purchases. AZ , Pfizer and Moderna vaccine donations arriving from various countries. Amid COVAX delays, government has ordered 13mn J&J vaccines under the African Vaccine Acquisition Task Team (AVATT) initiative.
Egypt	657 vaccination centers (target of 800 for end-Aug) across Egypt. Govt targeting 800k daily vaccination rate. 4.5mn state employees to be vaccinated in Aug/Sept to accelerate program ahead of a possible fourth wave (early cases of Delta variant have been reported); vaccinations to become mandatory in all public institutions; university, school students, and staff prioritized in preparation for academic year beginning October.	As of 31 Aug, Egypt has administered 8.7mn doses; 5.6% of the population have received a first dose, while only 3.1% of the population have been fully vaccinated. Egypt aims to vaccinate 10% by end-September; 40% by Dec 2021; 70% by 2022. Egypt's VACSERA complex aims to produce 8 types of vaccines and serve as a vaccine hub and the largest producer of Covid-19 vaccines in MENA.	COVAX – advanced purchase agreement for 40mn doses to be provided in batches. J&J – contract to buy 20mn doses; delivery of 261,600 doses arrived in Aug, second shipment to arrive in Sep. Sinopharm – agreement for 40mn doses. Pfizer-BioNTech – contracts reportedly signed for 20mn. 5.2mn doses of Pfizer and Moderna to arrive in Sep. AZ – agreement for 30mn doses; 1.7mn doses arrived early Aug via COVAX, UK sent addtl 300k early Aug (via COVAX) plus another 300,000 doses in mid-Aug. Sputnik V – 25mn have been secured. Egypt signed agreements to manufacture Sputnik V and Sinovac vaccines domestically; production of 15mn doses of Sinovac locally.
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 vaccine deliveries since March arrived in August, including 4mn doses of Moderna and 700,000 AZ vaccines from respective US and UK stockpiles via COVAX. Delivery of 7.7mn Sinopharm vaccines via COVAX expected. First small batch (178,000) of the J&J vaccine procured via AVATT arrived on 12 Aug, monthly deliveries via AVATT expected to follow up until 29.8mn doses have been supplied. As of 28 Aug, 1.3% of population had received at least one jab and 0.67% were fully vaccinated.	20% of vaccines supposed to be supplied through the COVAX initiative. Government expects total of 58mn vaccine doses from COVAX (16mn) and the AVATT (42mn). Government also expressed interest in procuring Sputnik V and/or Sinovac/Sinopharm vaccines.

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