

COVID-19 VACCINATION & AFRICA

- Current Vaccine facilities set up by multilateral organizations in Africa include:

- COVAX Facility
- Africa Union's Vaccine Acquisition Task Team (AVATT)

- Number of African countries that have expressed interest to participate in the Facilities:

- COVAX – 42 countries
- AU – 16 countries

- So far **only 7** countries in Africa have started administering the COVID-19 vaccine: **Algeria, Egypt, Guinea, Mauritius, Morocco, Rwanda and Seychelles**

- Of the **1.44M+** doses administered in Africa, **1.39M (96%)** were administered in Morocco

- Africa intends to vaccinate at least **20%** of its population by the end of 2021 and more than 60% by 2023

- Key vaccines ordered for use in Africa include: **AstraZeneca, Pfizer-BioNTech, Johnson & Johnson, Sputnik, Sinopharm and Moderna**

25.3M+

Global COVID-19
Active Cases

374k+

Africa COVID-19
Active Cases

2.2%

Global Mortality
Rate

2.6%

Africa Mortality
Rate

\$3–\$10

Average Cost
Range of COVID-
19 Vaccine in USD

US \$10B

~1.6B Doses

Cost in USD
expected to cover
60% vaccination
of Africa's 1.37B
Population

173M+

Total COVID
Vaccines
Administered -
Globally

78

Countries Currently
Administering
COVID Vaccines -
Globally

1.44M+

Total COVID
Vaccines
Administered –
Africa

7

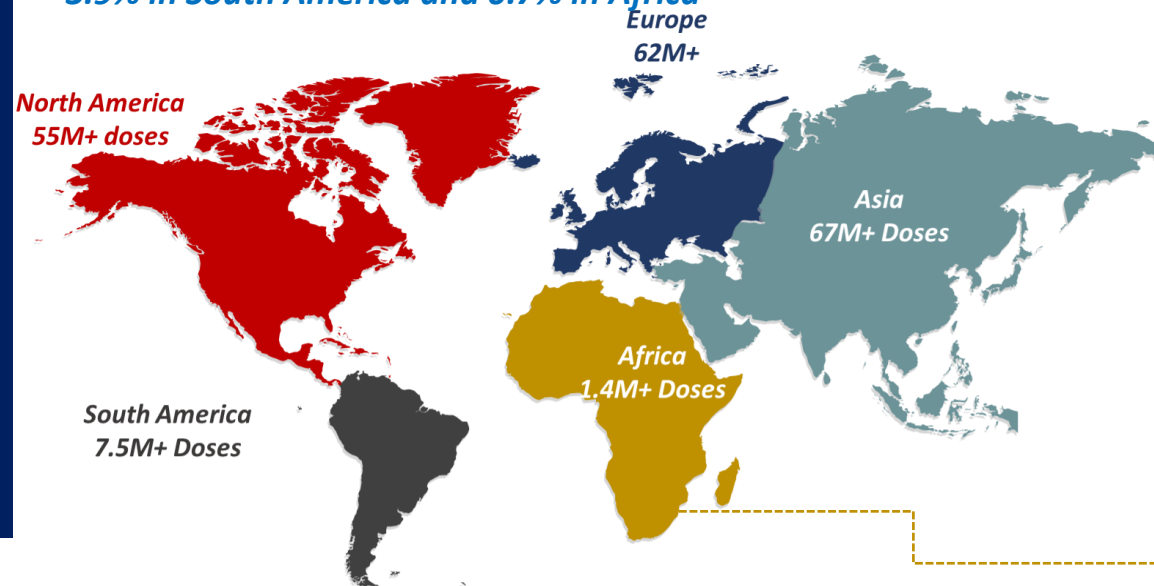
Countries Currently
Administering
COVID Vaccines -
Africa

20%

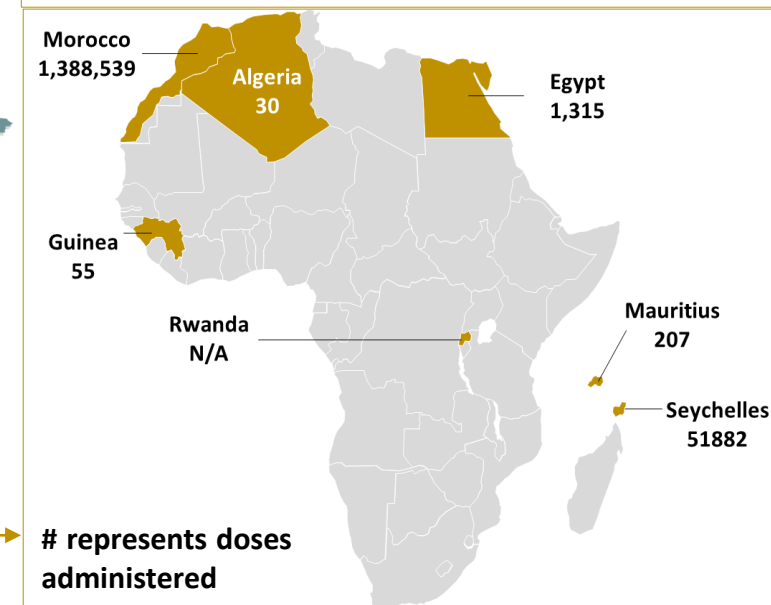
% of Africa's
Population Expected
to be vaccinated in
2021 (~600M Doses)

Vaccines Administered by Continent

Of the 173m+ doses administered, 34.8% have been administered in Asia, 31.9% in Europe, 28.7% in North America, 3.9% in South America and 0.7% in Africa



Countries in Africa Administering the COVID-19 Vaccine



Data as of 14 Feb 2021

Sources: WHO, Africa CDC, Reuters, Bloomberg, BBC, News Articles, Our World in Data, Gates Foundation, Rockefeller Foundation, MCL Analysis

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CHANNELS AFRICAN COUNTRIES ARE USING TO ACCESS COVID-19 VACCINES

Majority of African Countries intend to access the COVID-19 vaccine through four key channels: COVAX, AVATT (AU Initiative), Direct Government Purchases and Private Purchases; An estimated \$10bn is required to fully vaccinate 60% of Africa's population

COVAX

- Set up by **GAVI, WHO, UNICEF, the Coalition for Epidemic Preparedness Innovations**, and others
- In Africa the facility seeks to distribute vaccines to **42** African nations
- 92** low income countries around the world will receive COVID vaccines for free under the Advance Market Commitment (AMC) program; while **98** higher income countries will get vaccines under the Self Financing Program (SFP)
- COVAX has raised **\$2.4bn** so far and estimates it needs to raise an additional **US\$ 6.8b** in 2021

600M+ doses to Africa by end of 2021; 20% of Africa's population

670M+ doses secured; distributed in 2021 and 2022

1.4B+
(of 1.6B needed)

Estimated Number of Doses Ordered in Africa

?

?

AVATT

- The Africa Union's African Vaccine Acquisition Task Team (AVATT)'s initiative aims to provide vaccine access to the **55** countries under AU
- The **African Export-Import Bank** will facilitate payments by providing advance procurement commitment guarantees of up to **US\$2bn** to the manufacturers on behalf of the Member States
- So far, **16** countries have expressed interest in the initiative for **114m** doses
- Vaccines will be distributed in 2021 and 2022**
- The key vaccine suppliers are: Pfizer, AstraZeneca (through Serum Institute of India) and Johnson & Johnson
- 400m** of these secured doses are from AstraZeneca

PRIVATE / DONOR PURCHASES

- Private sector organizations and donor funds are contributing to the purchase of vaccine through funds disbursement as well as through direct purchase of the vaccines for some African countries
- Notable organizations that are doing this include: **Russia's Alrosa, Gates Foundation, Rockefeller Foundation, MTN**, among many others

GOVERNMENT PURCHASES

- African governments are independently purchasing COVID-19 vaccines directly from the manufacturer or bilaterally from individual countries e.g. India, China, Russia
- Doses purchased directly from various vaccine manufacturers arrived as early as Dec 2020 for Guinea
- Key engaged vaccine manufacturers include: **Pfizer, AstraZeneca, Sinopharm and Sputnik**

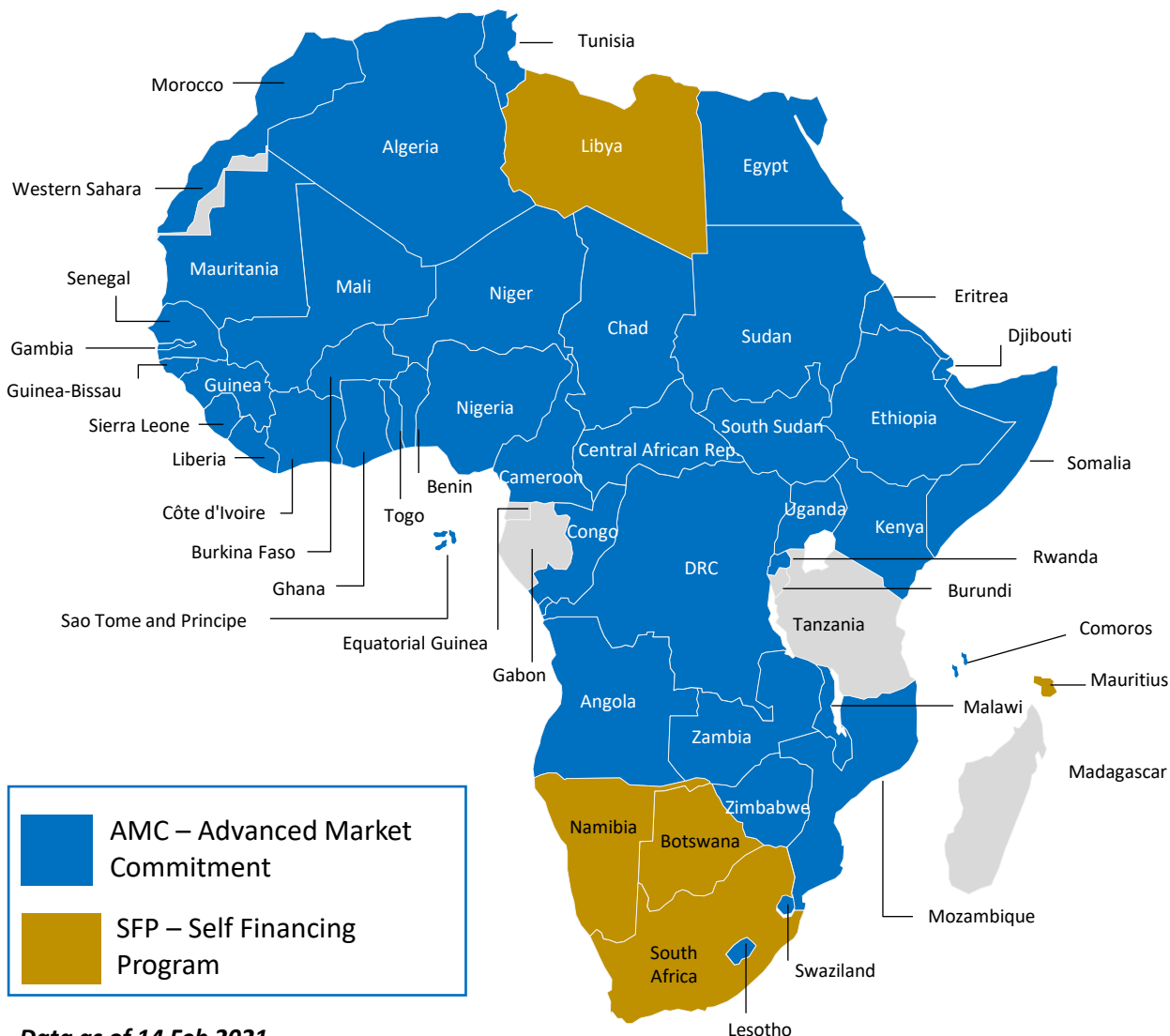
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COVAX FACILITY & AFRICA

*Under the COVAX Initiative **42** African countries will receive COVID vaccines for free under the AMC program while **5** higher income countries will get vaccines under the self financing program; **Tanzania, Burundi** have announced they no plans to purchase the COVID-19 vaccine*



COVAX Advance Market Commitment (AMC) Program

- In Africa **42** countries will participate in the COVAX initiative under the AMC category
- Countries under the COVAX AMC program will receive the vaccines **free of charge**, majority of these countries are also looking at administering the vaccine free of charge to its citizens
- To support the program, GAVI and others are aiming to raise at least US\$ 2B

COVAX Self Financing Program (SFP)

- In Africa **5** countries will participate in the COVAX initiative under the SFP category. They include: **Libya, Namibia, Botswana, Mauritius and South Africa**
- Under the SFP Program, the **World Bank and Afreximbank** will be financing the purchase
- Afreximbank announced that it would provide **advance procurement guarantees of up to USD 2bn to vaccine manufacturers**, upon receipt of firm orders from Member States
- Under the plan, countries would have to **pay a 15% deposit on any order** to take advantage of the financing. They would then **repay Afreximbank via quarterly instalments made over five to seven years, using their own resources, World Bank loans or funds from other sources**

Data as of 14 Feb 2021

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COVID-19 VACCINATION PLAN IN AFRICA

In Africa, only 7 countries have officially started administering the COVID-19 vaccine. With majority of countries receiving the vaccine by Q1 2021, we expect an increase 40 countries that would have started administering the COVID-19 vaccine. Priority will be given to health sector workers and other essential workers like teachers

1.4m+

**Estimated Total
COVID Vaccines
Administered to Date**

Morocco – 1,388,539

Seychelles – 51,882

Mauritius – 207

Egypt - 1,315

Guinea - 55

Algeria – 30

Rwanda – began on 14/02/21 and has 1,000 doses of Moderna in this initial phase

Data as of 14 Feb 2021

600M+

**Doses secured to be
delivered by the
COVAX facility**

88M+

**Doses to be
distributed in the
COVAX First Round
(H1 2021)**

47

**Countries in Africa to
receive in COVAX's First
Round of Distribution
(H1 2021)**

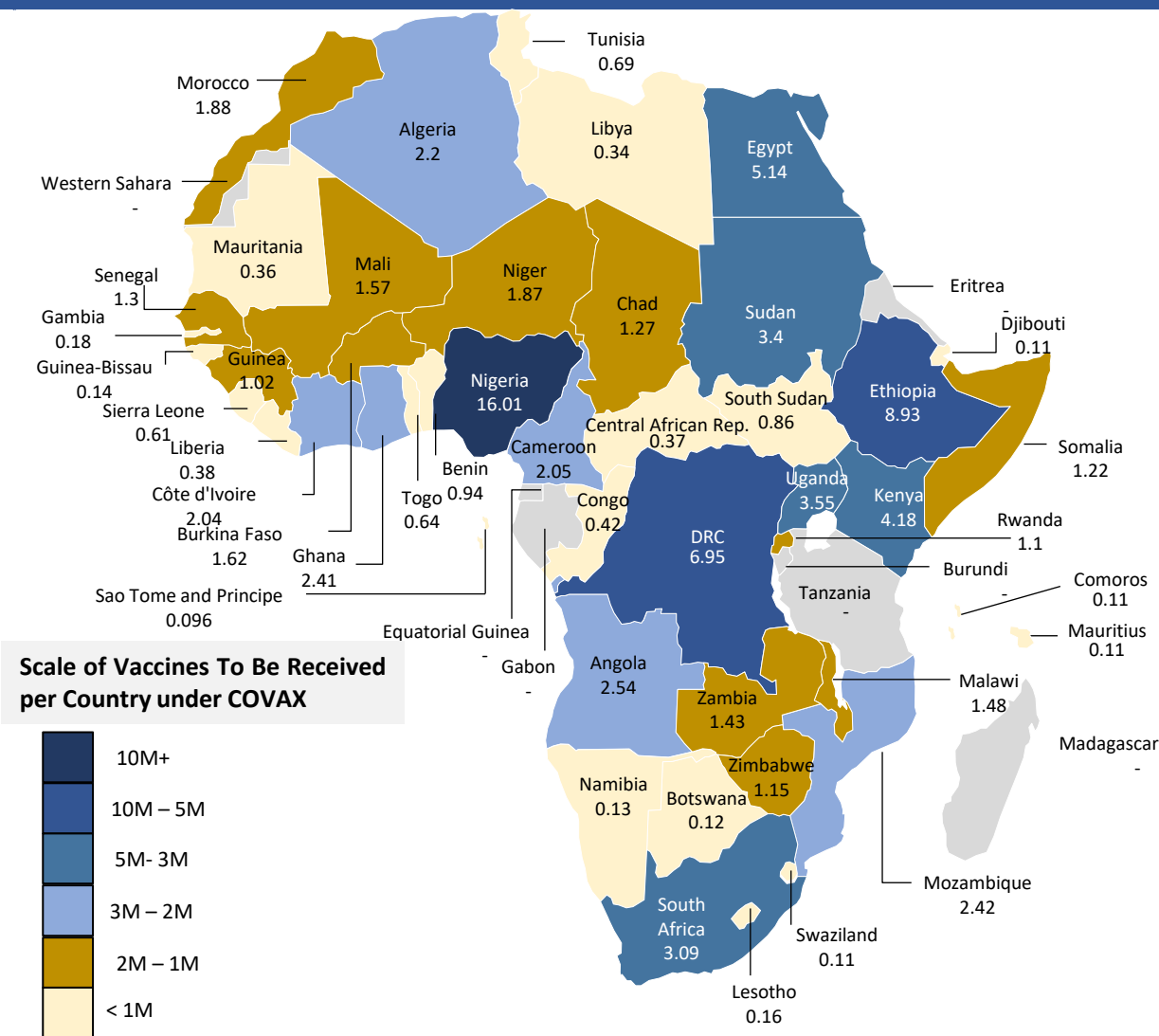
Among the 16 countries participating in the AU's AVATT vaccination plan some include: Burundi, Kenya, Lesotho, Namibia, Nigeria, South Africa, South Sudan, Zambia and Zimbabwe

Countries like Kenya have allowed private sector to directly import vaccines; although the price at which such vaccines are sold has not been announced

Data as of 14 Feb 2021

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Countries to Receive COVID-19 Vaccine in H1 2021 under COVAX Initiative (No of Doses in Millions)



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COVID-19 VACCINE DELIVERY TIMELINES IN AFRICA

Country/Month& Year	D -2020	J - 2021	F – 2021	M – 2021	A - 2021	M - 2021	J - 2021
Guinea							
Egypt							
Mauritius							
Morocco							
Seychelles							
Algeria							
Rwanda							
Angola							
Kenya							
Zimbabwe							
South Africa							
Malawi							
Nigeria							
Mali							
Cote d'Ivoire							
Uganda							
Benin							
Botswana							
Burkina Faso							
Cameroon							
Chad							
Congo							
DRC							
Djibouti							
Ethiopia							
Gambia							
Ghana							
Guinea-Bissau							
Lesotho							
Liberia							
Libya							
Mauritania							
Mozambique							
Namibia							
Niger							
Senegal							
Sierra Leone							
Somalia							
South Sudan							
Sudan							
Togo							
Zambia							

Data as of 14 Feb 2021

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Key Assumption: For countries receiving the first batch of vaccines from COVAX facility in late February or Early March, they will subsequently commence administration by either late March or Early April, unless stated otherwise

By end of H1 2020, over 40 African countries will have either commenced vaccination trials on received samples or have officially started administering the COVID-19 vaccine to its citizens

Signifies expected start month of the vaccination campaign in the respective country

Signifies expected start months of the vaccination campaign in the respective country (i.e. vaccination expected to start in late March or in April)