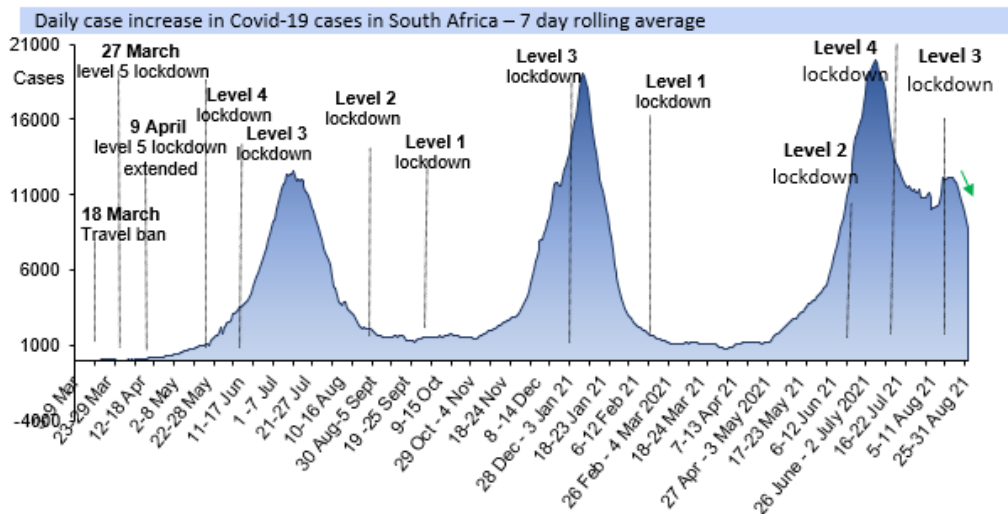


# SA Economics

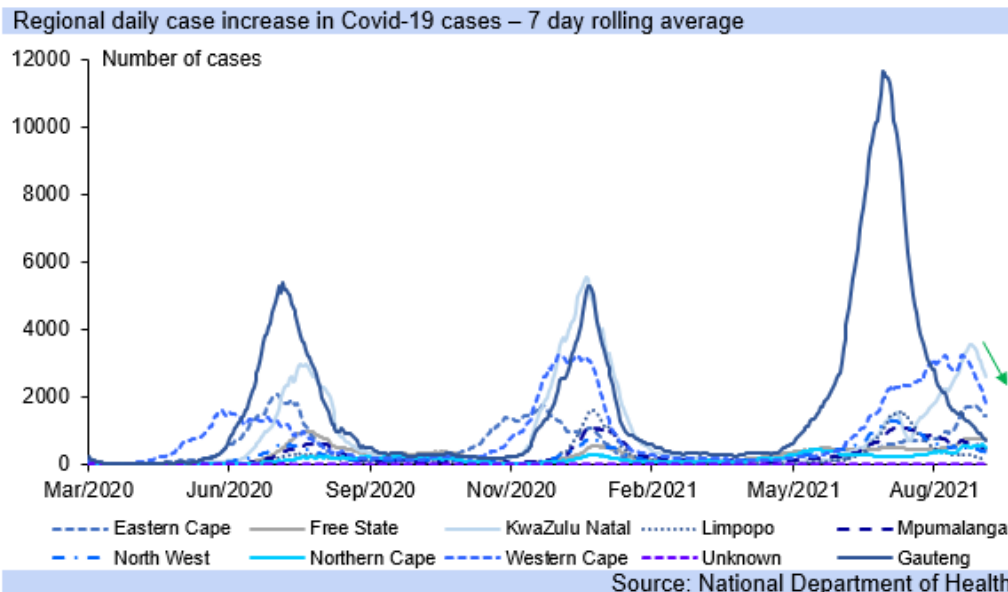


Friday 3 September 2021

COVID-19: SA's vaccination progress is impeded by weak uptake but otherwise is progressing well overall, while the third wave is moderating, but low vaccination rates pose the risk of the creation of tougher variants



Source: National Department of Health

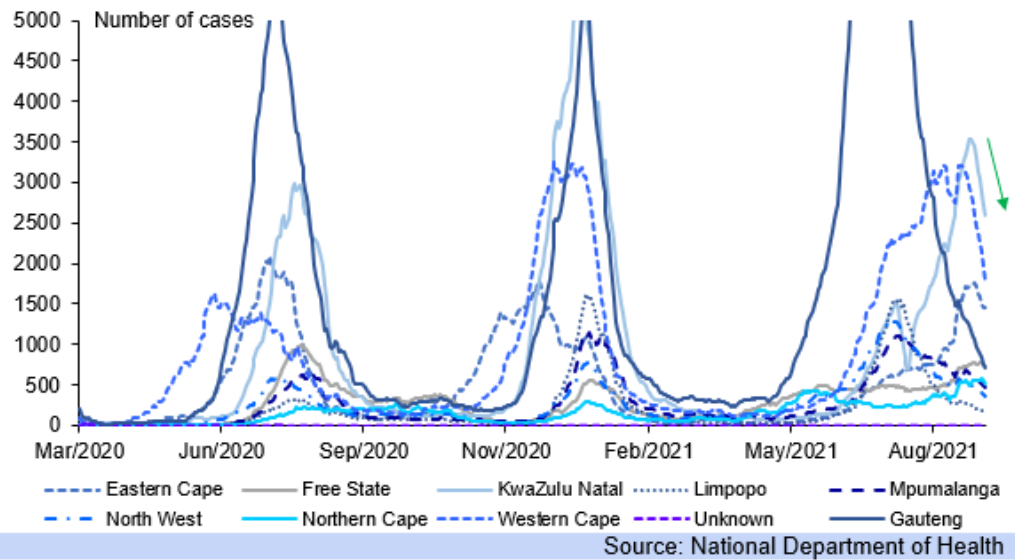


Source: National Department of Health

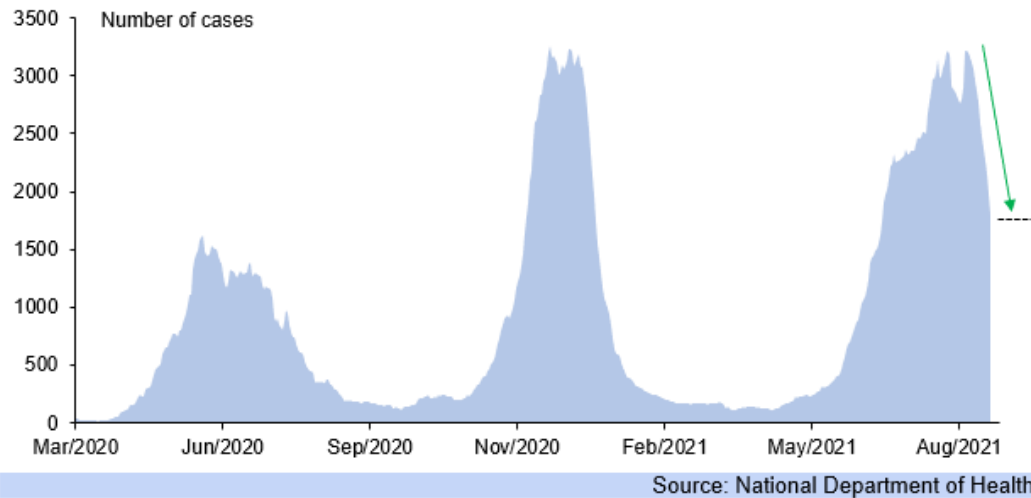
# SA Economics



Regional daily case increase in Covid-19 cases – 7 day rolling average – first 3 500



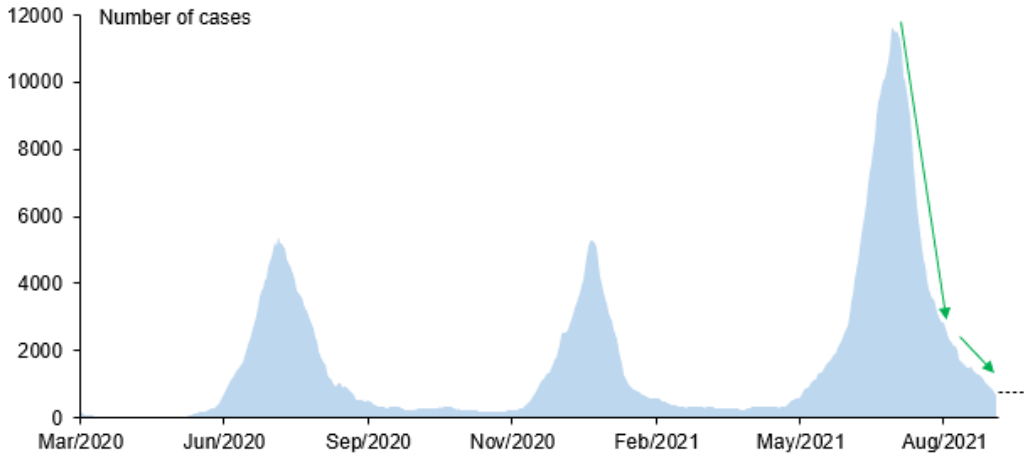
Daily new cases in the Western Cape with 7 day rolling average – 2 September 2021



# SA Economics

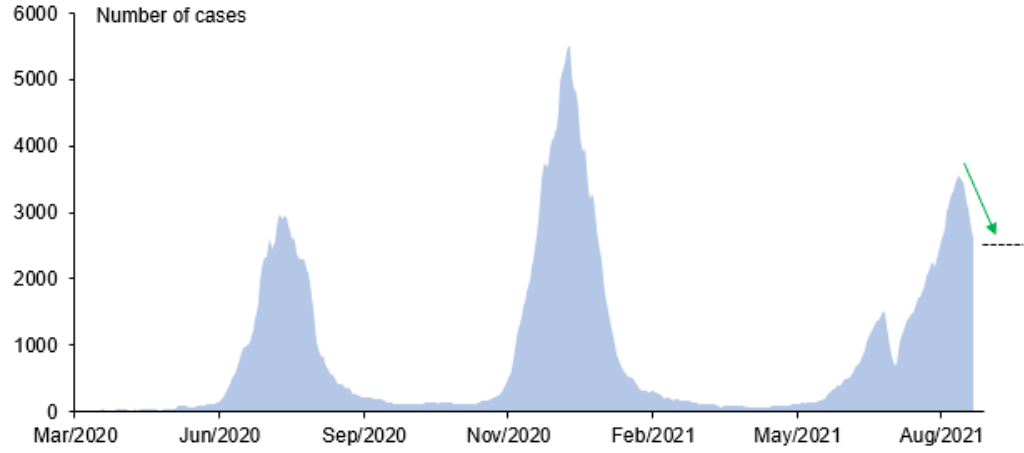


Daily new cases in Gauteng with 7 day rolling average – 2 September 2021



Source: National Department of Health

Daily new cases in KwaZulu Natal with 7 day rolling average – 2 September 2021

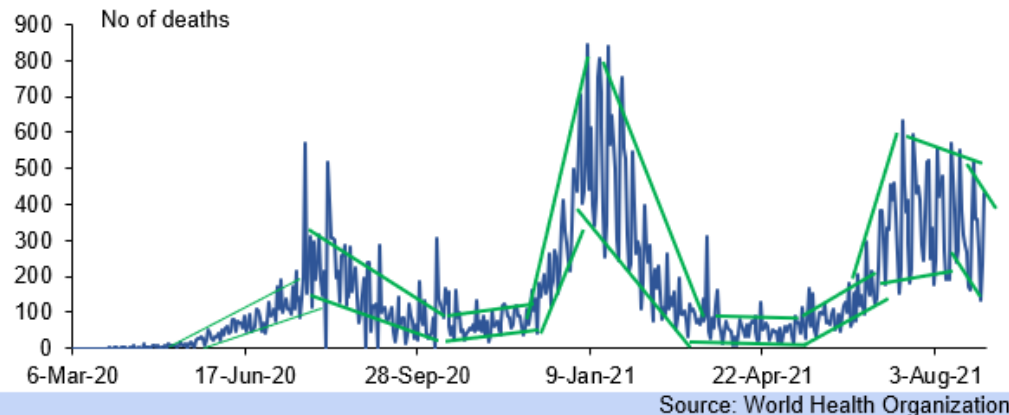


Source: National Department of Health

# SA Economics



Number of new deaths per day in South Africa



Source: World Health Organization

- Infections in KwaZulu-Natal, the Eastern and Western Cape have all turned down (on a seven-day rolling average basis), and Gauteng's has collapsed, while the Northern Cape, North West Province and the Free State are attempting to turn the corner.
- Overall, South Africa's seven day rolling average of new daily cases of COVID-19 infections has moderated noticeably, to 8 776 from 11 706 a week ago and 12 021 a week before that, after seeing a second, small, spike three to four weeks after July's riots.
- Deaths from COVID-19 in South Africa are still fairly elevated, but showing potential signs of moderating, although the third wave is proving lengthier, and seeing less of a material decline at the same point of the second wave - the current wave is lasting longer than the first two.
- Indeed, the third wave is still at very elevated levels, and not at a level appropriate to lessen social restrictions, while there is no certainty at all it will fall rapidly enough by 27<sup>th</sup> October to allow municipal elections to be held with safety.
- With the national state of emergency extended to 15<sup>th</sup> October, it is still uncertain whether the municipal elections will go ahead in October. SA could "look forward to" reduced lockdown regulations if infections decrease or stabilise, the Health Minister is reported to have said.
- Reportedly adding on the vaccination front, that government is "looking at soft incentives. People are hungry for entertainment", "(f)or instance, we are saying so many people can go to soccer stadiums if they are vaccinated."
- And the "priority is to mobilise people to come forward voluntarily and take the vaccine," with a vaccination rate of over 90% for over thirty-fives touted as the rate needed to avoid a fourth and fifth wave – SA is currently at 12.7% with 13.1million vaccines administered.
- Bloomberg estimates it will take twelve months from today for South Africa to reach a vaccination rate of only 75%. South Africa's fourth wave is expected by the end of the year, and could well be heavily aided by the municipal elections going ahead.

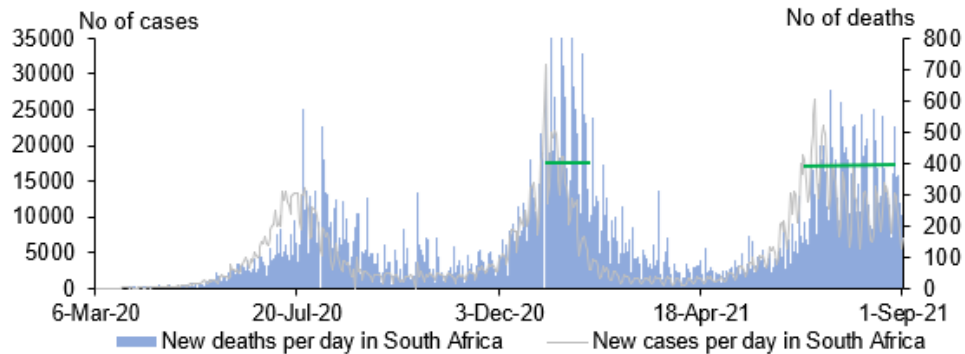
# SA Economics



- The new variant of interest in SA, C.1.2., is, as variants are, a result of a high rate of non-vaccinated individuals in a population. 87.3% of South Africa's population is not vaccinated. Researchers do not know yet if C.1.2. is more contagious or deadly than other variants.

Please scroll down to the second section below

Number of new infections and deaths per day in South Africa: a longer peaking period in the third wave



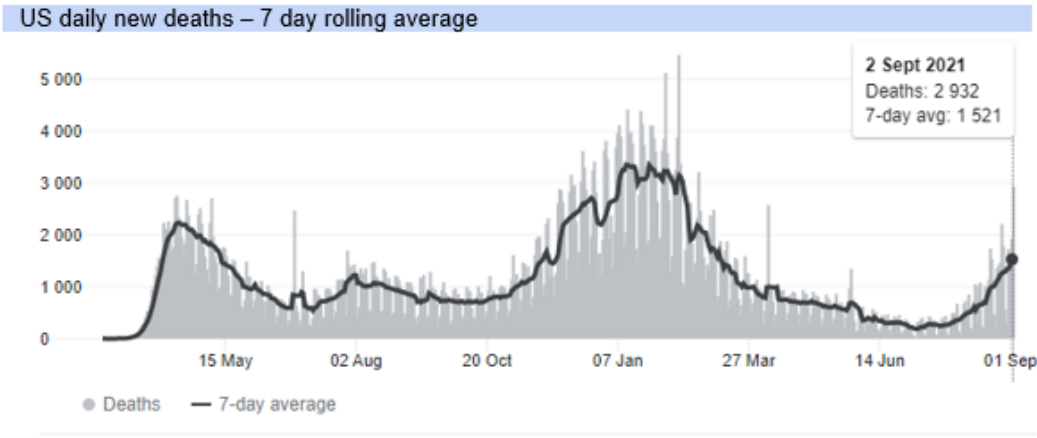
Source: World Health Organization

US daily new cases – 7 day rolling average

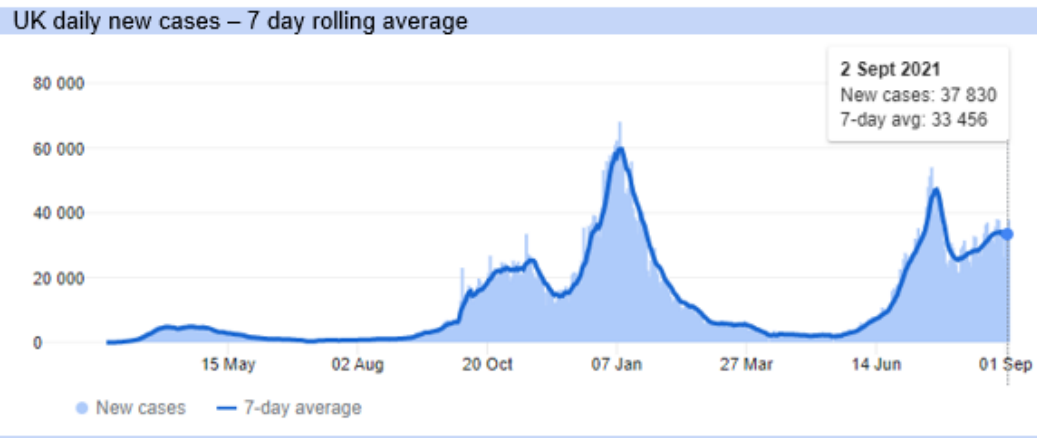


Source: Wikipedia

# SA Economics



Source: Wikipedia

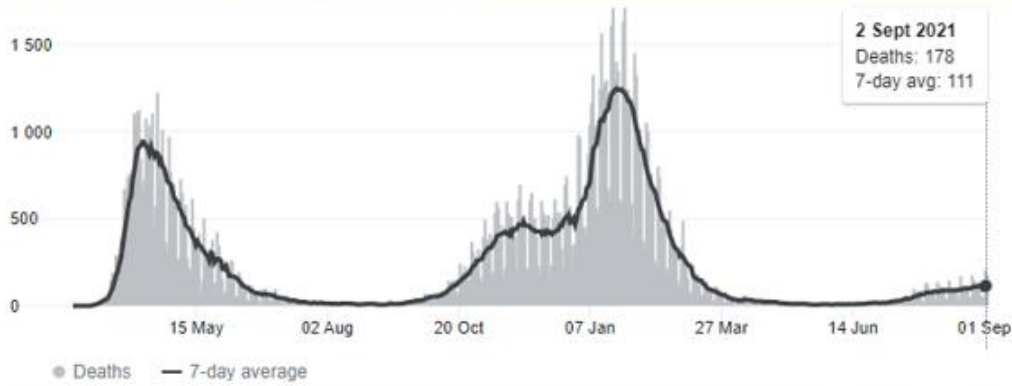


Source: Wikipedia

# SA Economics

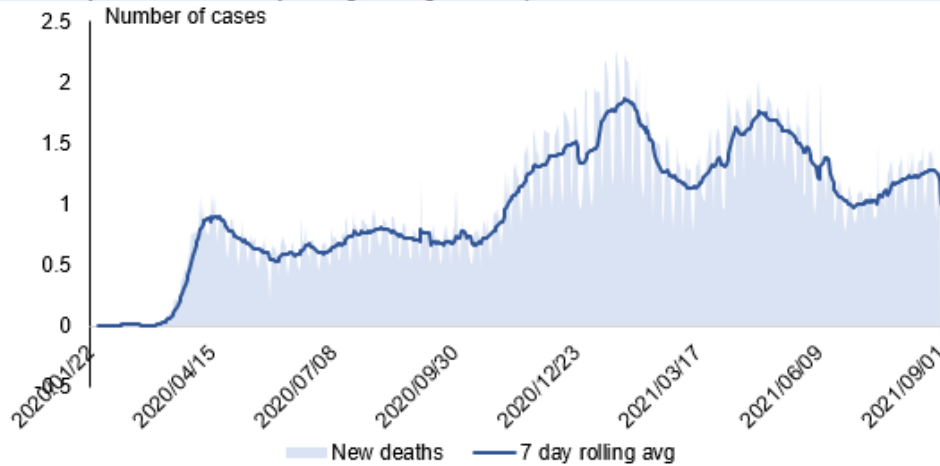


UK daily new deaths – 7 day rolling average



Source: Wikipedia

Global daily deaths with 7 day rolling average – 2 September 2021

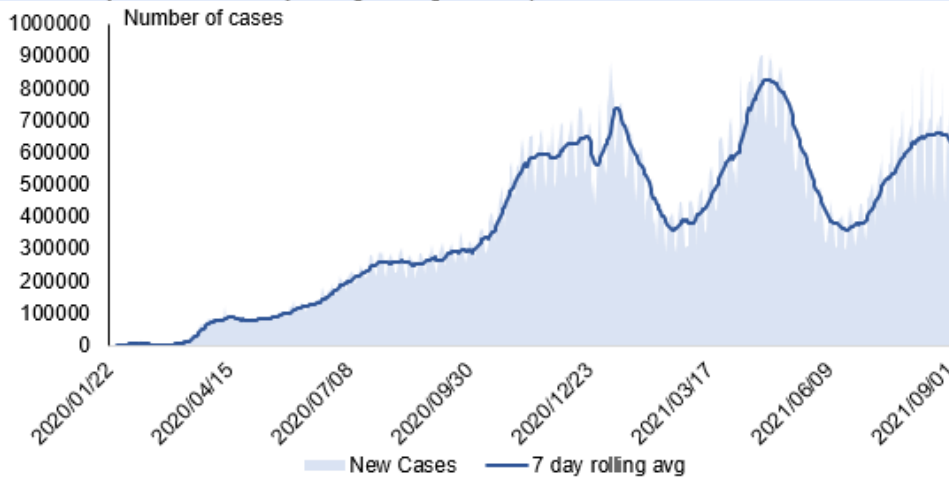


Source: Our World in Data

# SA Economics



Global daily cases with 7 day rolling average – 2 September 2021



Source: Our World in Data

- That is, variants of interest are those which have genetic changes from the original strain that could cause it to be more transmissible, cause greater illness or fatalities or even reduce the effectiveness of vaccines.
- When one of the above criteria is fulfilled the WHO would define it as a variant of concern, but the NICD (South Africa's National Institute of Communicable Diseases) recently said it was of low level of concern.
- The SA Medical Research Council Vaccines and Infectious Diseases Analytics Research Unit is reported to have said "(i)t is currently only accounting for approximately 2.7% of the circulating genomes so it could easily disappear".
- Reportedly adding that SA's new variant " has mutations that are the same as Beta and Delta as well as new mutations, so it has the potential to evade immunity to some degree but it is just too soon to know this at the moment."
- "But what we do know is that C.1.2 shares a lot of mutations with other variants of concerns. So, we have a pretty good handle on what those mutations do to the variants and the properties they give them."
- While its "very early days" to tell if its more contagious than other variants "it's the same story really as it does share a couple of mutations that we think are associated with increased transmissibility compared to the original variants."
- And that "it's very likely we are going to see a fourth wave. I think that's what we resigned ourselves to. But at this stage, what drives that fourth wave we really don't have a good idea about and I think it's virtually impossible for us to predict those kinds of things."
- Globally, 35.1% of the world's population has full coverage from vaccination (Bloomberg), and as such there is still high uncertainty for the path of the COVID-19 virus, as there is substantial space for new variants to continue emerging.



# SA Economics



- While there is also expected to be a 75% vaccination coverage globally in five months' time (Bloomberg), over a hundred countries will take long, with many countries in Africa currently likely to take over ten years to reach a 75% coverage rate of their population..

# SA Economics



Global Vaccination Campaign (continued)					
Country	No. of doses administered	Enough for % of people	Given 1+ dose	Fully vaccinated	Daily rate of doses administered
<i>Global Total</i>	5,397,114,170	–	–	–	40,990,666
Mainland China	2,076,428,000	74.2	–	63.5	12,570,714
India	663,037,334	24.2	37.3	11.1	8,455,837
EU	535,562,888	60.3	65.1	59.5	1,721,131
U.S.	372,116,617	58.2	62.0	52.7	910,432
Brazil	195,521,167	47.5	64.9	30.2	1,562,812
Japan	132,033,831	52.3	57.8	46.8	1,231,670
Germany	102,168,969	61.5	65.5	60.9	222,117
Indonesia	101,178,820	19.0	24.1	13.7	1,296,140
Turkey	95,565,306	57.5	58.4	44.9	545,394
U.K.	91,155,368	68.2	72.1	64.4	151,475
France	88,476,170	68.2	75.0	68.8	399,088
Mexico	85,375,481	33.5	45.5	26.9	439,182
Russia	81,706,196	27.8	30.0	25.4	410,654
Italy	78,418,351	65.0	70.9	61.1	284,958
Spain	66,464,730	71.5	78.6	71.8	255,750
Pakistan	58,156,714	14.2	21.8	8.8	1,042,612
Canada	53,518,230	71.3	73.4	66.3	98,367
Ontario	20,827,809	71.7	73.8	67.2	31,772
Quebec	12,486,612	73.5	75.4	68.2	31,942
British Columbia	7,479,315	73.6	75.6	68.2	14,199
Alberta	5,566,535	63.9	66.8	59.4	8,287
Manitoba	1,909,852	69.8	71.4	65.8	3,141
Saskatchewan	1,478,163	63.1	65.1	58.0	1,882
Nova Scotia	1,449,655	74.8	77.4	69.6	1,957
New Brunswick	1,116,866	72.0	74.4	64.9	2,196
Newfoundland and Labrador	785,092	74.9	79.0	66.6	2,393
Prince Edward Island	241,495	77.1	81.2	69.5	322
Northwest Territories	67,111	74.4	63.8	59.6	136
Yukon	65,161	78.9	77.9	73.4	41
Nunavut	44,564	57.8	60.6	53.3	63
South Korea	45,741,376	44.2	57.0	31.5	758,072
Argentina	43,221,929	48.1	62.3	32.9	386,998
Saudi Arabia	37,575,208	55.1	65.4	44.2	295,424
Poland	36,335,572	47.8	50.8	49.6	50,454
Colombia	35,546,165	35.3	46.8	29.2	212,792
Malaysia	35,150,474	53.9	61.2	46.8	330,060
Morocco	34,160,942	48.0	53.0	43.0	359,486
Philippines	34,112,320	15.9	20.5	13.2	382,695
Thailand	32,600,001	23.4	33.6	11.2	653,853
Chile	29,191,019	76.4	75.5	71.7	141,859
Iran	27,057,253	16.2	22.4	10.1	622,874
Bangladesh	26,821,841	8.1	11.3	4.8	291,530
Netherlands	21,955,854	63.7	69.6	62.4	20,410
Sri Lanka	21,146,303	48.5	57.2	37.5	400,633
Vietnam	20,210,381	10.5	18.1	2.8	303,658
Australia	20,028,084	39.2	48.5	28.7	277,840
Ecuador	19,512,448	56.5	62.0	51.0	317,387
Cambodia	19,246,143	58.3	66.1	52.1	184,716
Peru	18,880,704	28.5	31.2	24.6	179,994
UAE	18,289,168	85.1	80.9	70.7	54,301
Belgium	16,219,756	70.8	73.6	71.1	32,290

Source: Bloomberg Vaccine Tracker, 3 September 2021

Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that do not report daily, the last-known average rate is used.

# SA Economics



Global Vaccination Campaign (continued)					
Country	No. of doses administered	Enough for % of people	Given 1+ dose	Fully vaccinated	Daily rate of doses administered
Portugal	14,770,220	71.9	84.3	74.2	60,486
Uzbekistan	14,338,693	21.6	28.5	4.2	159,669
Cuba	14,115,595	62.3	49.0	34.6	180,399
Israel	13,888,948	76.7	66.2	60.7	95,592
Ukraine	13,264,263	15.9	22.4	9.4	213,048
<b>South Africa</b>	<b>12,841,537</b>	<b>12.7</b>	<b>16.3</b>	<b>10.5</b>	<b>209,385</b>
Sweden	12,739,829	61.7	66.9	56.1	65,300
Kazakhstan	12,212,130	32.8	35.8	29.2	84,651
Hungary	11,633,799	59.5	59.2	56.3	24,045
Czech Republic	11,494,922	54.0	55.9	53.9	22,272
Greece	11,466,985	53.5	56.7	53.6	26,915
Dominican Republic	11,189,420	54.0	56.3	50.6	30,159
Taiwan	10,982,471	23.3	42.6	4.0	69,330
Austria	10,469,177	59.1	62.2	58.8	13,673
Nepal	10,092,164	17.7	19.1	16.4	206,908
Romania	9,793,157	25.2	27.1	26.5	10,328
Switzerland	9,642,591	56.4	58.5	52.2	23,312
Egypt	9,391,465	4.7	6.2	3.2	198,126
Venezuela	9,342,817	16.8	21.6	12.0	518,303
Singapore	8,891,445	77.9	80.7	77.8	15,731
Denmark	8,633,295	74.3	76.0	72.7	19,374
Hong Kong	7,685,413	51.1	55.6	46.6	56,799
Norway	7,047,918	65.8	72.5	59.1	61,398
Azerbaijan	6,911,439	34.6	41.9	27.4	82,305
Finland	6,865,509	62.2	73.0	51.4	32,059
Ireland	6,853,648	69.2	74.6	68.5	21,218
Jordan	6,452,806	32.0	34.6	29.5	27,568
El Salvador	6,298,361	48.8	54.8	42.7	70,363
Myanmar	6,253,687	5.9	8.4	3.4	152,983
Bolivia	6,019,660	26.1	34.8	24.0	63,533
Serbia	5,934,117	42.6	42.1	40.4	22,103
Tunisia	5,683,733	24.1	35.5	18.3	7,390
Uruguay	5,669,864	80.6	75.8	71.4	35,467
Slovakia	4,614,683	42.3	43.9	39.9	7,890
Guatemala	4,607,145	13.1	19.0	7.1	68,735
Panama	4,480,988	53.1	65.0	39.4	63,327
Qatar	4,479,962	80.1	83.3	77.0	20,899
Nigeria	4,432,282	1.1	1.5	0.7	59,386
Mongolia	4,337,491	65.8	68.0	63.6	4,505
Costa Rica	4,278,505	42.2	60.3	24.0	30,685
Zimbabwe	4,270,430	14.3	17.5	11.1	44,608
Algeria	4,146,091	4.8	7.9	1.7	25,604
Honduras	4,077,054	20.9	28.3	13.4	182,659
Paraguay	3,928,259	27.5	31.7	23.2	23,917
Oman	3,752,420	44.7	59.7	25.0	53,223
New Zealand	3,593,746	36.5	47.8	25.2	81,627
Iraq	3,504,509	4.5	2.1	1.3	64,847
Croatia	3,278,961	40.3	42.5	39.8	7,307
Lithuania	3,179,096	57.1	59.8	54.4	11,724

Source: Bloomberg Vaccine Tracker, 3 September 2021

Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that do not report daily, the last-known average rate is used.

# SA Economics



Global Vaccination Campaign (continued)					
Country	No. of doses administered	Enough for % of people	Given 1+ dose	Fully vaccinated	Daily rate of doses administered
Laos	3,044,669	21.3	28.8	23.0	248,490
Belarus	2,963,378	15.6	17.2	14.1	26,299
Tajikistan	2,808,056	15.1	21.6	8.6	99,821
Kenya	2,807,945	2.9	4.2	1.7	22,589
Bahrain	2,492,774	84.0	77.3	73.4	3,819
Lebanon	2,488,130	18.1	20.1	16.0	812
Ethiopia	2,455,791	1.3	2.5	–	11,960
Kuwait	2,380,000	25.1	56.2	19.4	12,990
Bulgaria	2,324,643	16.7	16.5	17.0	10,518
Mozambique	2,297,842	3.7	5.3	2.1	84,381
Rwanda	2,174,283	8.8	12.2	5.3	75,120
Angola	2,086,325	3.5	3.9	3.1	50,422
Afghanistan	1,979,652	2.7	2.1	1.2	167,273
Slovenia	1,907,504	47.1	48.1	43.9	4,752
Senegal	1,732,362	5.3	7.2	3.5	2,830
Mauritius	1,564,974	61.8	64.4	59.1	9,782
Latvia	1,514,085	39.4	44.9	39.9	6,378
Albania	1,472,316	25.7	29.2	22.4	11,562
Uganda	1,376,986	1.7	2.3	0.6	9,984
Ivory Coast	1,370,123	2.6	5.2	0.9	11,276
Moldova	1,289,764	24.0	22.1	25.9	4,701
Estonia	1,275,705	48.1	55.0	43.6	3,892
Ghana	1,271,393	2.1	2.9	1.3	761
North Macedonia	1,267,666	30.5	35.0	25.9	10,800
Georgia	1,235,386	16.6	21.8	11.3	24,220
Guinea	1,199,686	4.4	5.9	2.9	24,633
Kyrgyzstan	1,154,363	9.0	10.8	7.2	12,875
Libya	1,130,485	8.6	16.3	0.9	15,372
Cyprus	1,098,334	62.7	65.7	59.7	2,509
Bhutan	1,045,074	70.1	76.1	64.2	1,373
Malawi	943,766	2.3	3.4	2.1	6,479
Bosnia and Herzegovina	928,126	14.1	17.2	10.9	8,974
Trinidad and Tobago	910,602	32.6	36.6	28.7	5,515
Sudan	829,682	1.0	1.5	0.4	574
Fiji	821,657	45.9	62.4	26.2	5,437
Kosovo	808,078	22.4	29.9	15.0	15,875
Malta	797,562	80.7	83.8	83.6	528
Luxembourg	764,330	62.2	66.4	58.1	989
Maldives	686,956	92.3	103.3	81.3	1,174
Nicaragua	645,733	4.9	6.8	3.1	4,705
Macau	598,356	44.0	48.0	40.3	2,627
Timor-Leste	588,299	22.7	30.2	15.3	5,253
Zambia	575,032	1.6	1.8	1.4	2,537
Mauritania	565,434	7.0	6.0	0.5	44,468
Jamaica	550,010	10.1	15.0	5.3	7,576
Togo	535,518	3.3	4.4	2.2	3,573
Iceland	528,743	74.1	78.3	73.9	517
Botswana	528,003	11.1	16.0	8.7	13,337
Niger	491,738	1.1	1.7	0.4	170
Guyana	474,491	30.2	39.9	20.5	2,154
Cameroon	428,255	0.8	1.4	0.3	1,048
–	403,254	–	–	–	2,105
Montenegro	401,157	32.2	33.9	29.7	2,011

Source: Bloomberg Vaccine Tracker, 3 September 2021

Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that do not report daily, the last-known average rate is used.

# SA Economics



Global Vaccination Campaign (continued)					
Country	No. of doses administered	Enough for % of people	Given 1+ dose	Fully vaccinated	Daily rate of doses administered
Gambia	351,281	7.5	8.2	6.7	2,990
Equatorial Guinea	348,830	12.8	14.6	11.1	1,868
Suriname	340,023	28.5	34.0	22.9	3,580
Namibia	329,062	6.7	8.7	4.7	3,425
Brunei	327,825	35.6	50.4	20.9	7,800
Mali	317,060	0.8	1.2	0.5	5,408
Yemen	311,483	0.5	0.9	<0.1	880
Tanzania	310,103	0.3	–	–	5,718
Cape Verde	309,001	28.1	42.9	13.2	4,645
Somalia	295,107	1.0	1.3	0.6	1,565
Republic of the Congo	290,287	3.2	4.0	2.3	2,750
Comoros	277,419	15.9	20.0	11.7	3,826
Armenia	275,138	4.6	5.9	3.3	5,114
Eswatini	239,519	10.7	15.0	9.8	9,139
Belize	237,507	29.1	41.1	17.1	2,371
Barbados	204,266	35.6	38.3	32.9	1,581
Lesotho	201,795	4.9	2.0	–	24,504
Madagascar	197,001	0.4	0.7	–	178
Sierra Leone	193,557	1.2	2.0	0.4	1,051
Curaçao	182,930	56.1	59.1	53.2	244
Benin	152,699	0.6	1.0	–	7,271
Jersey	148,729	–	–	–	155
Aruba	148,632	66.4	70.4	62.3	263
Bahamas	146,738	19.3	24.1	15.1	2,215
Seychelles	143,490	74.7	77.4	72.6	158
Papua New Guinea	134,444	0.8	1.2	0.2	1,337
Samoa	132,420	32.9	45.5	18.7	933
Gabon	130,798	3.1	3.7	2.5	507
Isle of Man	127,749	75.1	76.6	73.7	131
Liberia	113,680	1.2	2.3	0.6	1,365
Central African Republic	108,895	1.1	1.6	0.7	931
Burkina Faso	108,799	0.3	0.5	0.1	3,279
Greenland	102,357	89.8	124.5	57.4	300
Cayman Islands	101,008	77.7	79.3	76.1	161
Guernsey	99,484	–	–	–	32
DR Congo	97,818	<0.1	0.1	<0.1	1,429
Andorra	91,660	59.5	66.3	52.7	86
Bermuda	84,748	67.3	68.0	66.5	104
Solomon Islands	83,441	6.5	9.8	2.3	1,973
Gibraltar	78,889	116.0	116.6	115.4	20
Antigua and Barbuda	75,069	38.7	42.3	35.1	369
Faroe Islands	71,315	72.8	75.0	70.6	124
Tonga	68,404	34.2	41.1	25.8	296
Micronesia	66,122	31.8	37.7	–	372
St. Lucia	64,523	17.9	20.4	15.4	194
Djibouti	60,141	2.8	3.4	2.2	271
South Sudan	57,150	0.2	0.4	<0.1	4
Chad	55,598	0.2	0.3	0.1	1,197
Turks & Caicos	49,107	64.6	67.4	61.8	84

Source: Bloomberg Vaccine Tracker, 3 September 2021

Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that do not report daily, the last-known average rate is used.

# SA Economics

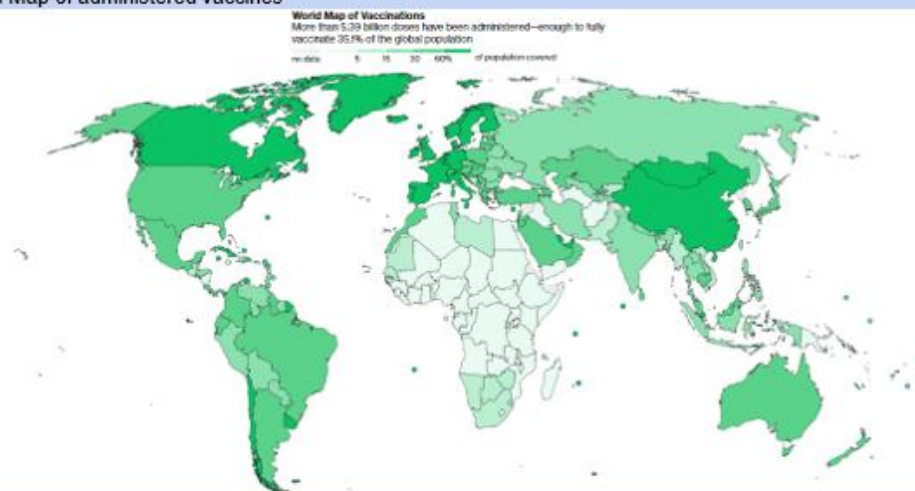


Global Vaccination Campaign (continued)					
Country	No. of doses administered	Enough for % of people	Given 1+ dose	Fully vaccinated	Daily rate of doses administered
Sint Maarten	48,042	57.2	59.9	54.5	58
Monaco	47,882	61.4	66.5	56.3	153
San Marino	46,556	68.5	70.5	70.5	10
Sao Tome and Principe	46,349	10.9	16.2	5.6	148
Saint Kitts and Nevis	45,980	40.3	42.6	38.1	149
Dominica	42,529	30.0	31.5	28.4	122
Grenada	42,484	19.5	22.0	17.0	344
Turkmenistan	41,993	0.4	0.6	0.2	-
Haiti	31,698	0.1	0.2	<0.1	1,056
Guinea-Bissau	31,090	0.9	1.6	0.2	44
St. Vincent and the Grenadines	26,690	12.1	14.9	9.3	3
Anguilla	18,458	61.5	63.3	59.8	-
Nauru	14,790	56.9	58.6	55.2	-
St. Helena	7,892	65.8	72.7	58.9	8
Falkland Islands	4,407	73.5	87.7	59.2	202
Montserrat	2,828	28.3	29.2	27.4	6

Source: Bloomberg Vaccine Tracker, 3 September 2021

Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that do not report daily, the last-known average rate is used.

## World Map of administered vaccines



Source: Bloomberg Vaccine Tracker, 3 September 2021

Note: "Population covered" divides the doses administered by each vaccine type by the number of doses required for full vaccination. Data gathered from government agencies, public statements, Bloomberg interviews and the WHO and John Hopkins University.

# SA Economics



Covid-19 situation in numbers (official total and new cases in past 24 hours for the 2 Sept 2021)

Reporting regions	Confirmed	Total confirmed new cases	Total Deaths	Total new deaths	Ratio of deaths to infections
<b>South Africa</b>	<b>2 777 659</b>	<b>7 084</b>	<b>86 261</b>	<b>431</b>	<b>3.1</b>
Region of the Americas	84 209 689	239 283	2 107 049	3 701	2.5
Globally	218 205 951	606 760	4 526 583	8 758	2.1
Eastern Mediterranean Region	14 727 613	57 680	268 502	1 003	1.8
European Region	65 509 302	174 623	1 276 045	1 956	1.9
African Region	5 650 962	16 131	135 699	592	2.4
Western Pacific Region	6 700 376	74 026	91 732	1 327	1.4
South-East Asia Region	41 407 245	61 148	647 543	771	1.6

Source: World Health Organization