# Risk Assessment for International Dissemination of COVID-19 to the ASEAN Region

ASEAN Biodiaspora Virtual Center (ABVC)

as of April 29, 2020 (2:00 PM GMT+8)



# COVID-19: Highlights and Situation Overview

- World Health Organization (WHO) has called on countries to ensure that usual immunization is maintained wherever possible and surveillance for vaccine-preventable diseases is not disrupted during the ongoing pandemic.
- WHO Director-General Dr. Tedros, in his regular media briefing, highlighted "As lockdowns in Europe ease with declining numbers of new cases, we continue to urge countries to find, isolate, test and treat all cases of COVID-19 and trace every contact, to ensure these declining trends continue".
- Cambodia reports no new COVID-19 case/s since April 12.
- Laos reports no new COVID-19 case/s since April 12.
- Brunei reports no new COVID-19 case/s since April 19.
- Vietnam reports no new COVID-19 case/s since April 24.
- West Java (Indonesia) Governor has extended the large-scale social restrictions (PSBB) period of the affected cities and regencies of Bogor, Depok and Bekasi by two weeks to May 13, 2020, from the initial end date of April 29. Jakarta Governor also extended the city's PSBB status from April 23 to May 22, 2020.
- Singapore is rapidly building bed space for coronavirus patients in cavernous exhibition halls and other temporary facilities as it faces a surge in cases, mainly among its large community of migrant workers. At the new Changi isolation center, each room has blood-pressure monitors and other medical equipment for patients to conduct their own health checks three times daily, while remotecontrolled robots provide meals and teleconferencing services to reduce human-to-human contact.
- Thailand will extend a state of emergency over COVID-19 until May 31, but will consider easing some restrictions on businesses and public activities as the number of new cases has eased. It also recommends a continued restriction on travel between provinces and large-scale public activities, extended work from home policy, and delaying four public holidays in May.
- Vietnam starts easing its nationwide lockdown due to COVID-19. Ho Chi Minh City (Vietnam) authorities removed sports centers and indoor sports businesses from the list of suspended businesses due to COVID-19 allowing gyms to reopen. In addition, the public gathering limit has been raised to 30 people from the previous 20. Likewise, schools in Hanoi and Ho Chi Minh City are expected to gradually resume classes on May 4.

## Travel Advisories (new update/s)

- Malaysia: AirAsia Malaysia resumes domestic flights operations starting today (April 29, 2020), but passengers will need to follow COVID-19 safety measures. Each passenger will need wear mask before, during, and after the flight including during check-in and bag collection. Any guest without a mask will be denied boarding in the aircraft.
- Thailand: The Civil Aviation Authority of Thailand extended a ban on all incoming international passenger flights until May 31. The flight ban exempts state and military aircraft, and aircraft/s making an emergency landing without disembarkation. The decision will affect international airlines planning to resume commercial flights to Thailand, including Philippines AirAsia, which has announced the resumption of its Manila-Bangkok flights from May 1.
- Vietnam: Ministry of Transport has allowed the increase in the frequency of domestic flights on the Hanoi-Ho Chi Minh City route as well as the reopening

of other domestic routes. However, this will depend on demand, and travelers should still confirm travel details with the airlines. Taxis, buses, Grab services and inter-provincial transport have also resumed though with restrictions as per the transport authorities.

### Cases and Deaths as of 29 April 2020

- As of April 29 (2PM, GMT+8), worldwide, there were **3,055,896** confirmed cases, including **216,350** deaths. Globally, Case Fatality Ratio (CFR)\* is **7.08**.
- In **China**, there were **84,348** confirmed cases with **4,643** deaths, including deaths in Hong Kong (4) and Taiwan (6). Confirmed cases in China include confirmed cases in Hong Kong (1,038), Macau (45), and Taiwan (429).
- 2,971,548 confirmed cases of COVID-19 have been reported in 210 countries/states (other than China, Hong Kong, Taiwan and Macau):

REGION	COUNTRY	FIRST COUNTRY CONFIRMED CASE(S)		CONFIRMED CASES/ (Deaths)	CASE FATALITY RATIO*
ASIA PACIFIC	Thailand	13 Jan 2020	28 Apr 2020	2,938 (54)	1.84
	Vietnam	23 Jan 2020	24 Apr 2020	270	0.00
	Singapore	23 Jan 2020	28 Apr 2020	14,951 (14)	0.09
	Malaysia	25 Jan 2020	28 Apr 2020	5,851 (100)	1.71
	Cambodia	27 Jan 2020	12 Apr 2020	122	
	Philippines	30 Jan 2020	28 Apr 2020	7,958 (530)	6.66
	Indonesia	02 Mar 2020	28 Apr 2020	9,511 (773)	8.13
	Brunei	10 Mar 2020	24 Apr 2020	138 (1)	0.72
	Myanmar	23 Mar 2020	28 Apr 2020	149 (5)	3.36
	Lao PDR	24 Mar 2020	13 Apr 2020	19	
	Japan	16 Jan 2020	28 Apr 2020	14,320 (392)	2.74
	South Korea	20 Jan 2020	28 Apr 2020	10,752 (244)	2.27
	Nepal	24 Jan 2020	28 Apr 2020	54	0.00
	Australia	25 Jan 2020	28 Apr 2020	6,731 (84)	1.25
	Sri Lanka	27 Jan 2020	28 Apr 2020	596 (7)	1.17
	India	30 Jan 2020	28 Apr 2020	31,168 (977)	3.13
	Afghanistan	24 Feb 2020	28 Apr 2020	1,828 (58)	3.17
	Pakistan	26 Feb 2020	28 Apr 2020	14,514 (312)	2.15
	New Zealand	28 Feb 2020	28 Apr 2020	1,472 (19)	1.29
	Bhutan	05 Mar 2020	23 Apr 2020	7	
	Maldives	07 Mar 2020	28 Apr 2020	245	
	Bangladesh	08 Mar 2020	28 Apr 2020	6,462 (155)	2.40
	Mongolia	10 Mar 2020	26 Apr 2020	38	
	Turkey	10 Mar 2020	28 Apr 2020	112,261 (2,900)	2.58

	French Polynesia	12 Mar 2020	28 Apr 2020	58	
	Guam	15 Mar 2020	28 Apr 2020	144 (5)	3.47
	New Caledonia	17 Mar 2020	02 Apr 2020	18	
	Fiji	18 Mar 2020	20 Apr 2020	18	
	Papua New Guinea	21 Mar 2020	22 Apr 2020	8	
	Timor Leste	21 Mar 2020	25 Apr 2020	24	
	Northern Mariana Islands	28 Mar 2020	17 Apr 2020	14 (2)	14.29
MERICAS	USA	21 Jan 2020	28 Apr 2020	1,029,179 (58,568)	5.69
	Canada	25 Jan 2020	28 Apr 2020	49,815 (2,852)	5.73
	Brazil	26 Feb 2020	28 Apr 2020	68,188 (4,674)	6.85
	Mexico	28 Feb 2020	28 Apr 2020	15,529 (1,434)	9.23
	Saint Martin	01 Mar 2020	23 Apr 2020	38 (2)	5.26
	Ecuador	01 Mar 2020	28 Apr 2020	24,258 (871)	3.59
	Dominican Republic	01 Mar 2020	28 Apr 2020	6,416 (286)	4.46
	Chile	03 Mar 2020	27 Apr 2020	13,813 (198)	1.43
	Argentina	03 Mar 2020	28 Apr 2020	4,003 (197)	4.92
	Peru	05 Mar 2020	28 Apr 2020	28,699 (782)	2.72
	Costa Rica	06 Mar 2020	28 Apr 2020	697 (6)	0.86
	Colombia	06 Mar 2020	28 Apr 2020	5,597 (253)	4.52
	French Guiana	06 Mar 2020 28 Apr 2020 124 (1)		124 (1)	0.81
	Martinique	06 Mar 2020	26 Apr 2020	175 (14)	8.00
	Paraguay	07 Mar 2020	28 Apr 2020	230 (9)	3.91
	Panama	10 Mar 2020	28 Apr 2020	6,021 (167)	2.77
	Bolivia	10 Mar 2020	28 Apr 2020	1,014 (53)	5.23
	Honduras	11 Mar 2020	28 Apr 2020	702 (64)	9.12
	Cuba	11 Mar 2020	29 Apr 2020	1,389 (56)	4.03
	Guyana	11 Mar 2020	26 Apr 2020	74 (8)	10.81
	Jamaica	12 Mar 2020	28 Apr 2020	364 (7)	1.92
	St Vincent and the Grenadines	12 Mar 2020	27 Apr 2020	15	
	Saint Lucia	13 Mar 2020	11 Apr 2020	15	
	Trinidad and Tobago	13 Mar 2020	27 Apr 2020	116 (8)	6.90
	Venezuela	13 Mar 2020	28 Apr 2020	329 (10)	3.04
	Guatemala	13 Mar 2020	28 Apr 2020	530 (15)	2.83
	Uruguay	13 Mar 2020	28 Apr 2020	620 (15)	2.42
	Curacao	13 Mar 2020	25 Apr 2020	16 (1)	6.25
	Puerto Rico	13 Mar 2020	27 Apr 2020	1,388 (53)	3.82
	Suriname Antigua and	13 Mar 2020 13 Mar 2020	08 Apr 2020 22 Apr 2020	10 (1) 24 (3)	10.00 12.50
	Barbuda Guadeloupe	13 Mar 2020	24 Apr 2020	149 (12)	8.05
	Cayman Islands	13 Mar 2020	24 Apr 2020 25 Apr 2020	70 (1)	1.43
	Aruba	13 Mar 2020	23 Apr 2020 23 Apr 2020	100 (2)	2.00

Bahamas	15 Mar 2020	27 Apr 2020	80 (11)	13.75
US Virgin Islands	16 Mar 2020	23 Apr 2020	54 (3)	5.56
Sint Maarten	17 Mar 2020	27 Apr 2020	74 (11)	14.86
Montserrat	17 Mar 2020	25 Apr 2020	11 (1)	9.09
Barbados	17 Mar 2020	28 Apr 2020	80 (6)	7.50
El Salvador	18 Mar 2020	28 Apr 2020	345 (8)	2.32
Nicaragua	18 Mar 2020	27 Apr 2020	13 (3)	23.08
Bermuda	18 Mar 2020	28 Apr 2020	110 (6)	5.45
Haiti	19 Mar 2020	28 Apr 2020	76 (6)	7.89
Dominica	22 Mar 2020	11 Apr 2020	16	
Grenada	22 Mar 2020	26 Apr 2020	18	
Belize	23 Mar 2020	14 Apr 2020	18 (2)	11.11
Turks and Caicos Islands	23 Mar 2020	28 Apr 2020	12 (1)	8.33
Saint Kitts and Nevis	24 Mar 2020	20 Apr 2020	15	
British Virgin Islands	25 Mar 2020	26 Apr 2020	6 (1)	16.67
Anguilla	26 Mar 2020	03 Apr 2020	3	
Caribbean Netherlands	01 Apr 2020	19 Apr 2020	5	
Falkland Islands	03 Apr 2020	24 Apr 2020	13	
Saint Pierre and Miquelon	05 Apr 2020	05 Apr 2020	1	10.45
France	24 Jan 2020	28 Apr 2020	126,835 (23,660)**	18.65
Germany	27 Jan 2020	28 Apr 2020	159,513 (6,237)	3.91
Finland	29 Jan 2020	28 Apr 2020	4,740 (193)	4.07
Italy	30 Jan 2020	28 Apr 2020	201,505 (27,359)	13.58
<b>Russian Federation</b>	31 Jan 2020	28 Apr 2020	93,558 (867)	0.93
Spain	31 Jan 2020	28 Apr 2020	232,128 (23,822)	10.26
Sweden	31 Jan 2020	28 Apr 2020	19,621 (2,355)	12.00
United Kingdom of Great Britain	31 Jan 2020	28 Apr 2020	161,145 (21,678)	13.45
Belgium	05 Feb 2020	28 Apr 2020	47,334 (7,331)	15.49
Switzerland	25 Feb 2020	28 Apr 2020	29,264 (1,677)	5.73
Austria	25 Feb 2020	28 Apr 2020	15,357 (569)	3.71
Croatia	25 Feb 2020	28 Apr 2020	2,047 (63)	3.08
Norway	26 Feb 2020	28 Apr 2020	7,599 (206)	2.71
Romania	26 Feb 2020	28 Apr 2020	11,616 (663)	5.71
Estonia	26 Feb 2020	28 Apr 2020	1,660 (50)	3.01
Georgia	26 Feb 2020	28 Apr 2020	511 (6)	1.17
North Macedonia	26 Feb 2020	28 Apr 2020	1,421 (71)	5.00
Greece	26 Feb 2020	28 Apr 2020	2,566 (138)	5.38
Denmark	27 Feb 2020	28 Apr 2020	8,851 (434)	4.90
San Marino	27 Feb 2020	26 Apr 2020	538 (41)	7.62

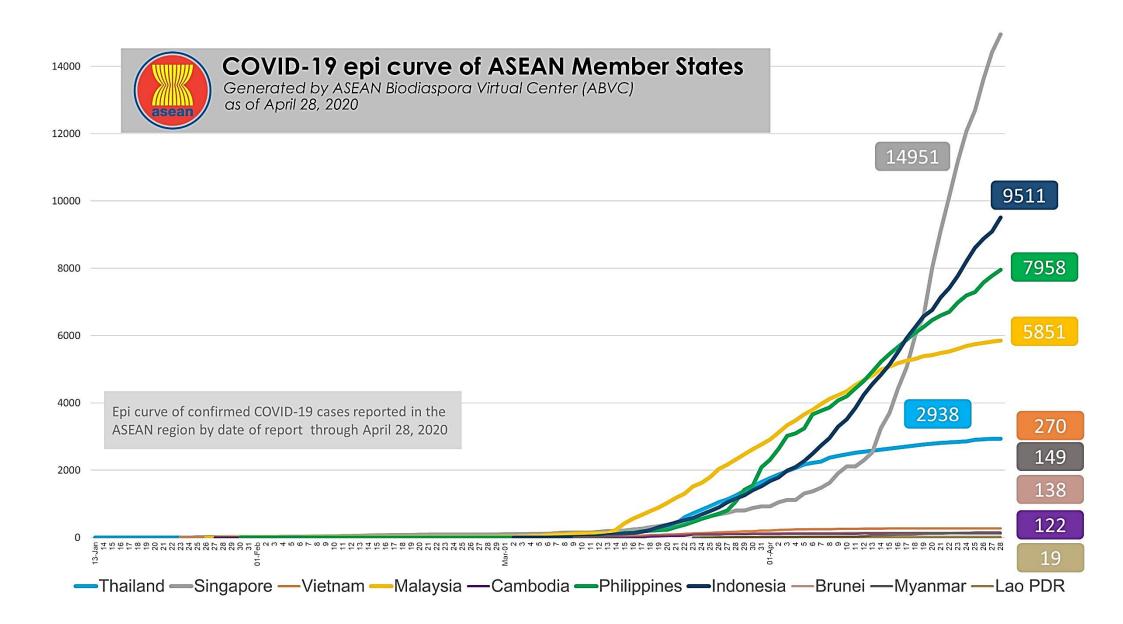
EUROPE

	Lithuania	27 Feb 2020	28 Apr 2020	1,344 (44)**	3.27
	Netherlands	27 Feb 2020	28 Apr 2020	38,416 (4,566)	11.89
	Azerbaijan	27 Feb 2020	28 Apr 2020	1,717 (22)	1.28
	Belarus	28 Feb 2020	28 Apr 2020	12,208 (79)	0.65
	Iceland	28 Feb 2020	26 Apr 2020	1,792 (10)	0.56
	Ireland	28 Feb 2020	28 Apr 2020	19,648 (1,102)	5.61
	Monaco	29 Feb 2020	28 Apr 2020	95 (4)	4.21
	Czech Republic	01 Mar 2020	28 Apr 2020	7,449 (223)	2.99
	Luxembourg	01 Mar 2020	27 Apr 2020	3,729 (88)	2.36
	Armenia	01 Mar 2020	28 Apr 2020	1,867 (30)	1.61
	Latvia	02 Mar 2020	28 Apr 2020	836 (13)	1.56
	Portugal	02 Mar 2020	28 Apr 2020	24,322 (948)	3.90
	Andorra	02 Mar 2020	28 Apr 2020	743 (40)	5.38
	Liechtenstein	03 Mar 2020	27 Apr 2020	82 (1)	1.22
	Ukraine	03 Mar 2020	28 Apr 2020	9,410 (239)	2.54
	Slovenia	04 Mar 2020	28 Apr 2020	1,408 (86)	6.11
	Hungary	04 Mar 2020	28 Apr 2020	2,649 (291)	10.99
	Poland	04 Mar 2020	28 Apr 2020	12,218 (596)	4.88
	Faroe Islands	04 Mar 2020	23 Apr 2020	187	
	Bosnia and	05 Mar 2020	28 Apr 2020	1,585 (63)	3.97
	Herzegovina				0.77
	Gibraltar	05 Mar 2020	27 Apr 2020	141	
	Slovakia	06 Mar 2020	28 Apr 2020	1,384 (20)	1.45
	Serbia	06 Mar 2020	28 Apr 2020	8,497 (168)	1.98
	Vatican City	06 Mar 2020	10 Apr 2020	9	
	Malta	07 Mar 2020	28 Apr 2020	458 (4)	0.87
	Moldova	07 Mar 2020	28 Apr 2020	3,638 (103)	2.83
	Bulgaria	08 Mar 2020	28 Apr 2020	1,387 (58)	4.18
	Albania	09 Mar 2020	28 Apr 2020	750 (30)	4.00
	Cyprus	09 Mar 2020	27 Apr 2020	822 (14)	1.70
	Channel Islands	09 Mar 2020	28 Apr 2020	530 (35)	6.60
	Jersey	10 Mar 2020	05 Apr 2020	126 (3)	2.38
	Kazakhstan	13 Mar 2020	28 Apr 2020	3,027 (25)	0.83
	Kosovo	13 Mar 2020	28 Apr 2020	780 (22)	2.82
	Uzbekistan	15 Mar 2020	28 Apr 2020	1,939 (8)	0.41
	Greenland	16 Mar 2020	05 Apr 2020	11	
	Montenegro	17 Mar 2020	26 Apr 2020	321 (7)	2.18
	Kyrgyztan	18 Mar 2020	28 Apr 2020	708 (8)	1.13
	Isle of Man	19 Mar 2020	28 Apr 2020	308 (20)	6.49
DLE EAST	UAE	29 Jan 2020	28 Apr 2020	11,380 (89)	0.78
	Iran	19 Feb 2020	28 Apr 2020	92,584 (5,877)	6.35
	Israel	21 Feb 2020	28 Apr 2020	15,589 (208)	1.33
	Lebanon	21 Feb 2020	28 Apr 2020	717 (24)	3.35
	Kuwait	24 Feb 2020	28 Apr 2020	3,440 (23)	0.67
	Oman Bahrain	24 Feb 2020 24 Feb 2020	28 Apr 2020 28 Apr 2020	2,131 (10) 2,810 (8)	0.47
	Iraq	24 Feb 2020 24 Feb 2020	28 Apr 2020 28 Apr 2020	1,847 (88)	4.76

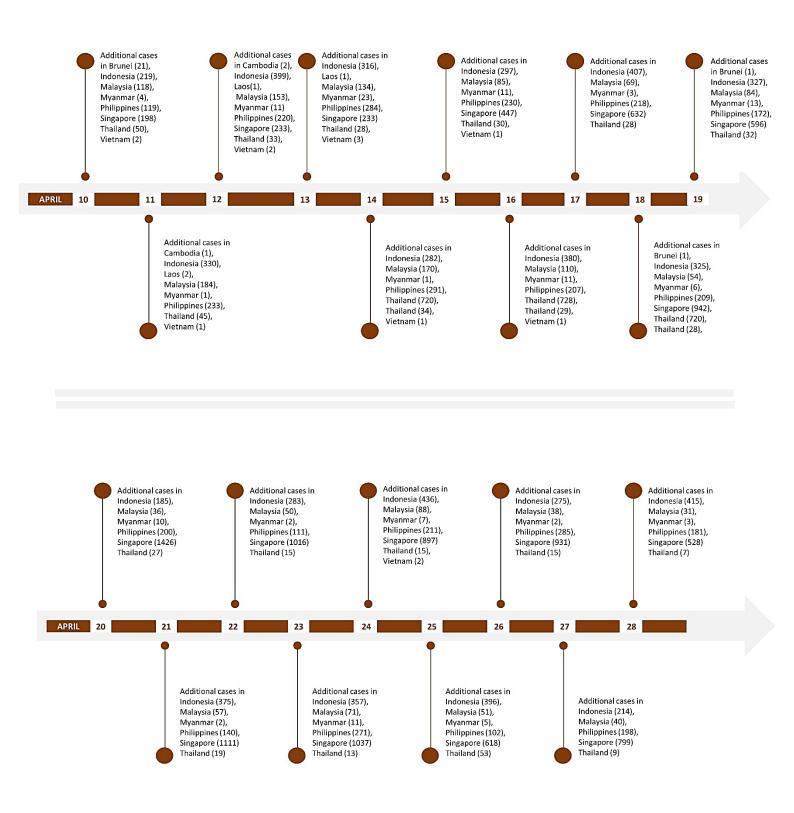
	Qatar	29 Feb 2020	28 Apr 2020	11,921 (10)	0.08
	Saudi Arabia	02 Mar 2020	28 Apr 2020	20,077 (152)	0.76
	Jordan	02 Mar 2020	28 Apr 2020	449 (7)**	1.56
	Palestine	05 Mar 2020	28 Apr 2020	501 (4)	0.80
	Syria	22 Mar 2020	27 Apr 2020	43 (3)	6.98
	Yemen	10 Apr 2020	10 Apr 2020	1	
RICA	Egypt	14 Feb 2020	28 Apr 2020	5,042 (359)	7.12
	Algeria	25 Feb 2020	28 Apr 2020	3,649 (437)	11.98
	Nigeria	28 Feb 2020	28 Apr 2020	1,337 (40)	2.99
	Tunisia	02 Mar 2020	28 Apr 2020	967 (39)	4.03
	Morocco	02 Mar 2020	28 Apr 2020	4,246 (163)	3.84
	Senegal	02 Mar 2020	28 Apr 2020	823 (9)	1.09
	South Africa	05 Mar 2020	28 Apr 2020	4,793 (90)	1.88
	Cameroon	06 Mar 2020	28 Apr 2020	1,705 (58)	3.40
	Тодо	06 Mar 2020	28 Apr 2020	99 (6)	6.06
	Burkina Faso	09 Mar 2020	28 Apr 2020	635 (42)	6.61
	Democratic	10 Mar 2020	28 Apr 2020	471 (30)	6.37
	Republic of Congo		201.01 2020		0.07
	Ivory Coast	11 Mar 2020	28 Apr 2020	1,164 (14)	1.20
	Reunion	11 Mar 2020	28 Apr 2020	418	
	Ghana	13 Mar 2020	26 Apr 2020	1,550 (11)	0.71
	Guinea	13 Mar 2020	28 Apr 2020	1,163 (7)	0.60
	Gabon	13 Mar 2020	28 Apr 2020	211 (3)	1.42
	Sudan	13 Mar 2020	28 Apr 2020	275 (22)	8.00
	Kenya	13 Mar 2020	28 Apr 2020	374 (14)	
	Ethiopia	13 Mar 2020	28 Apr 2020	126 (3)	2.38
	Central African	14 Mar 2020	28 Apr 2020	50	2.00
	Republic	14 ///01 2020	20 Apr 2020	50	
	Seychelles	14 Mar 2020	06 Apr 2020	11	
	Rwanda	14 Mar 2020	28 Apr 2020	207	
	Namibia	14 Mar 2020	05 Apr 2020	16	
	Swaziland	14 Mar 2020	28 Apr 2020	71 (1)	1.41
	Mauritania	14 Mar 2020	14 Apr 2020	7 (1)	14.29
	Mayotte	14 Mar 2020	28 Apr 2020	460 (4)	0.87
	Equatorial Guinea	15 Mar 2020	26 Apr 2020	258 (1)	0.39
	Republic of Congo	13 Mai 2020	28 Apr 2020	207 (8)	3.86
	Republic of Colligo	15 Mar 2020	20 Apr 2020	207 (0)	5.00
	Benin	16 Mar 2020	27 Apr 2020	64 (1)	1.56
	Liberia	16 Mar 2020	28 Apr 2020	133 (16)	12.03
	Tanzania	16 Mar 2020	25 Apr 2020	299 (10)	3.34
	Somalia	16 Mar 2020	27 Apr 2020	480 (26)	5.42
	Gambia	17 Mar 2020	27 Apr 2020 20 Apr 2020	10 (1)	10.00
	Zambia	17 Mar 2020	28 Apr 2020	95 (3)	3.16
	Mauritius	18 Mar 2020	28 Apr 2020 24 Apr 2020	334 (10)	2.99
	Djibouti	18 Mar 2020	28 Apr 2020	1,035 (2)	0.19
	Niger	19 Mar 2020	26 Apr 2020	684 (27)	3.95
	Chad	19 Mar 2020	26 Apr 2020	46	10.50
	Zimbabwe	20 Mar 2020	28 Apr 2020	32 (4)	12.50
	Cape Verde	20 Mar 2020	28 Apr 2020	114 (1)	0.88
	Madagascar	20 Mar 2020	28 Apr 2020	128	
	Uganda	21 Mar 2020	27 Apr 2020	79	
	Eritrea	21 Mar 2020	19 Apr 2020	39	
	Angola	21 Mar 2020	28 Apr 2020	27 (2)	7.41
	Mozambique	22 Mar 2020	27 Apr 2020	76	
	Libya	24 Mar 2020	25 Apr 2020	61 (2)	3.28
	Guinea-Bissau	25 Mar 2020	28 Apr 2020	73 (1)	1.37
	Mali	25 Mar 2020	28 Apr 2020	408 (23)	5.64

			2,971,548 (211,707)	
Sao Tome and Principe	06 Apr 2020	28 Apr 2020	8	
South Sudan	05 Apr 2020	26 Apr 2020	6	
Malawi	02 Apr 2020	27 Apr 2020	36 (3)	8.33
Burundi	31 Mar 2020	22 Apr 2020	11 (1)	9.09
Sierra Leone	31 Mar 2020	28 Apr 2020	99 (4)	4.04
Botswana	30 Mar 2020	23 Apr 2020	22 (1)	4.55

The calculated CFR is based on reported deaths and reported case counts, and does not account for recovered cases over time or rate of testing in a particular region. \*\*adjusted cumulative count from last report



## Timeline of COVID-19: ASEAN (continuation)



## **Transmission Category of COVID-19 Affected Countries**

BlueDot has classified countries worldwide into categories based on the observed rate of COVID-19 transmission using data generated by Bluedot's global epidemic surveillance system, as of 9:00AM EST on 28 April 2020. To contextualize each country's current situation, Bluedot calculated: (1) each country's rate of change for COVID-19 case reports over 7 days, (2) case fatality ratios (CFR) for each country, (3) each country's COVID-19 case burden, per 1,000 population and (4) each country's case doubling time (in days). We also utilized the Infectious Disease Vulnerability Index as a measure of each country's public health capacity to detect, respond, and/or control a COVID-19 outbreak.

The following report includes the following figures and table:

А

Map 1: Map depicting countries by the corresponding COVID-19 transmission category, as defined below.

Map 2: Map depicting the total number of COVID-19 cases reported per 1,000 population at a national level since the beginning of the pandemic. This case count includes active cases, resolved cases, and fatalities.

Table: Summary of country categorizations, IDVI value, and COVID-19 cases per 1,000 population

#### Countries reporting <100 cases and a slowly increasing rate of COVID-19 transmission

• These countries have reported <100 cases of COVID-19, a CFR  $\leq$ 4%, and have a favorable IDVI suggesting adequate capacity to detect, respond, and/or control an epidemic.

• Interpretation: These countries may be in an early phase of the epidemic, with limited community-based transmission.

#### B Countries reporting a steadily increasing OR stabilizing rate of COVID-19 transmission

• These countries have reported  $\geq 100$  cases of COVID-19 and have a steadily increasing OR stabilizing rate of COVID-19 transmission (i.e. the number of new cases reported each day is consistent, or increasing at a low rate).

• Interpretation: These countries may be in an early stage of the epidemic with either steadily increasing community-based transmission, OR demonstrating early evidence of effective epidemic control measures, OR have incomplete testing/reporting.

#### Countries reporting a rapidly increasing rate of COVID-19 transmission

• These countries have reported  $\geq$ 100 cases of COVID-19 and have a rapidly accelerating rate of COVID-19 transmission.

• Interpretation: These countries may be in the most aggressive stages of the epidemic and are experiencing widespread community-based transmission and likely have sufficient testing capacity.

#### D Countries reported a negative rate of COVID-19 transmission

- These countries have reported  $\geq\!100$  cases of COVID-19 and have a decelerating rate of COVID-19 transmission.

• Interpretation: These countries may be in the mid- or later stages of the epidemic, with a negative rate of transmission (i.e. fewer new cases reported each day) due to robust and effective control measures.

#### E Countries where insufficient information is available on COVID-19 transmission

• These countries have not reported imported or local cases of COVID-19

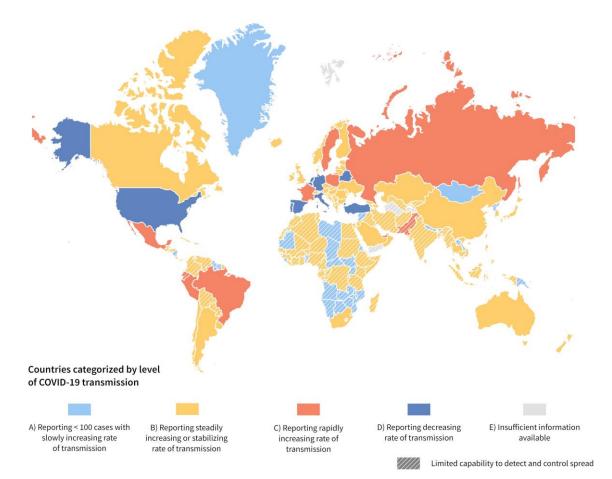


Figure 1. Map depicting countries by the corresponding COVID-19 transmission category

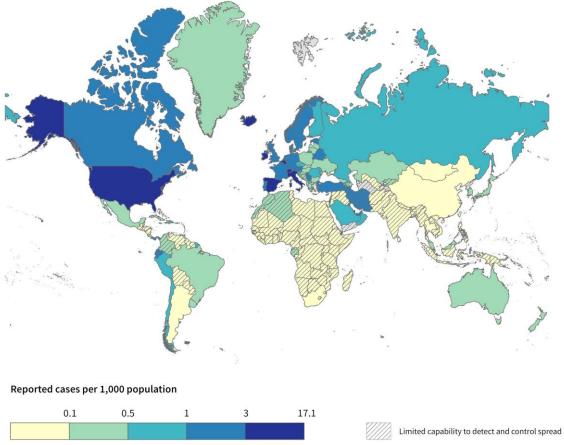


Figure 2. Map depicting the total number of COVID-19 cases reported per 1,000 population at a national level since the beginning of the pandemic. This include active cases, resolved cases, and fatalities

Country	COVID-19 Category As of April 31	COVID-19 Category As of April 71	COVID-19 Category As of April 91	COVID-19 Category As of April 15 <sup>1</sup>	COVID-19 Category As of April 17 <sup>1</sup>	COVID-19 Category As of April 21 <sup>1</sup>	COVID-19 Category As of April 24 <sup>1</sup>	COVID-19 Category As of April 28 <sup>1</sup>	IDVI Score	Doubling Time (days)⁴	Confirmed COVID-19 cases per1,000 Population
Brunei	В	В	В	В	В	В	В	В	0.763	37	0.349
Cambodia	В	В	В	В	В	В	В	В	0.355	21	0.008
Indonesia	В	В	В	В	В	В	В	В	0.563	15	0.037
Laos	E	E	А	A	А	А	А	А	0.355	13	0.003
Malaysia	В	В	В	В	В	В	В	В	0.761	26	0.206
Myanmar	E	E	А	A	А	В	В	В	0.448	12	0.003
Philippines	D	В	В	В	В	В	В	В	0.545	19	0.078
Singapore	В	В	В	С	С	С	В	В	0.878	8	4.065
Thailand	В	В	В	В	В	В	В	В	0.711	29	0.044
Vietnam	В	В	В	В	В	В	В	В	0.626	31	0.003

Table 1. Summary of ASEAN Member States' country categorization, IDVI value, and COVID-19 cases per 1,000 population as of 28 April 2020

(refer to additional file for country categorization globally)

\* Categorized based on suspected cases of COVID-19. Confirmed COVID-19 cases count & cases per 1,000

population unavailable.

1 Categorization determined based on the 7-day rate-of-change in new case reports.

2 Doubling time is calculated retrospectively based on cumulative case reports as of April 28, 2020 at 9:00AM EST.



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