

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

ASEAN Biodiaspora Virtual Center (ABVC)

as of April 10, 2020 (2:00 PM GMT+8)



## COVID-19: Highlights and Situation Overview

- As millions of Christians, Jews and Muslims celebrate Easter, Passover and Ramadan, **WHO** has released guidance for religious leaders and faith-based communities in the context of COVID-19. More information in this link: <https://www.who.int/publications-detail/practical-considerations-and-recommendations-for-religious-leaders-and-faith-based-communities-in-the-context-of-covid-19>
- The large-scale social distancing measures shall be implemented in **Jakarta, Indonesia** starting today (April 10) is required to its residents. Gatherings are limited to five people and ramped up police patrols will enforce compliance by the public. The measures include the closure of all schools, most workplaces and public facilities. The operation hours for all public transport services, including the MRT, commuter rail and buses will be shortened to 12 hours. This also include restrictions on social, cultural and religious activities. However, sectors providing essential services, including health, food, energy, logistics and finance, will remain in operation.
- Today (April 10), the **Philippines** launched an online and mobile platform that can help the government track people exhibiting symptoms of the coronavirus disease and conduct more efficient contact tracing. Users will be asked during the online registration process if they manifest COVID-19 symptoms such as fever, cough, fatigue, muscle pain, runny nose, sore throat, shortness of breath and diarrhea. The platform will then generate a result indicating mild, moderate or severe depending on the number of symptoms the user is experiencing. The data will be forwarded to a “heat map” in the admin dashboard of StaySafe.ph, which will then show the areas and the number of people showing symptoms of the highly-contagious illness. The developer pointed out that users do not have to disclose sensitive information such as birthdate when registering in the platform.
- **Travel Advisories (new updates)**
  - Cambodia: Cambodia government bans traveling inside the country for district to district and province to province effective from April 9 until April 16. The restriction exempts transportation of goods, vehicles and other means of transportation of civil officers, ambulance, fire engine, garbage truck, service vehicle of factory or enterprise that have permits from the Ministry of Labour and Vocational Training.
  - Singapore: Starting April 9, all Singapore Citizens, Permanent Residents and Long Term [1] Pass holders entering Singapore will be - required to serve a 14-day self-isolation at dedicated Stay-Home Notice (SHN) facilities. Returnees who are already back in Singapore will continue to serve their 14-day SHN at their current location.
  - Thailand: Civil Aviation Authority of Thailand (CAAT) extended its temporary ban on all international flights to the country until April 18. According to the order, all aircraft carrying passengers were prohibited from entering Thailand with the exceptions of state or military aircraft, emergency landings, humanitarian aid, medical and relief flights, repatriation flights and cargo aircraft.

### Cases and Deaths as of 10 April 2020

- As of April 10 (2PM, GMT+8), worldwide, there were **1,578,999** confirmed cases, including **93,965** deaths.
- In **China**, there were **83,246** confirmed cases with **3,344** deaths, including deaths in Hong Kong (4) and Taiwan (5). Confirmed cases in China include confirmed cases in Hong Kong (974), Macau (45), and Taiwan (380).
- **1,496,195 confirmed cases** of COVID-19 have been reported in **209 countries/states** (other than China, Hong Kong, Taiwan and Macau):

REGION	COUNTRY	FIRST CONFIRMED CASE(S)	LATEST CONFIRMED CASE(S)	CONFIRMED CASES/(Deaths)	CASE FATALITY RATIO*
ASIA PACIFIC	Thailand	13 Jan 2020	10 Apr 2020	2,473 (33)	1.33
	Vietnam	23 Jan 2020	09 Apr 2020	255	
	Singapore	23 Jan 2020	09 Apr 2020	1,910 (6)	0.31
	Malaysia	25 Jan 2020	09 Apr 2020	4,228 (67)	1.58
	Cambodia	27 Jan 2020	09 Apr 2020	119	
	Philippines	30 Jan 2020	10 Apr 2020	4,195 (221)	5.27
	Indonesia	02 Mar 2020	09 Apr 2020	3,293 (280)	8.50
	Brunei	10 Mar 2020	04 Apr 2020	135 (1)	0.74
	Myanmar	23 Mar 2020	10 Apr 2020	27 (3)	11.11
	Lao PDR	24 Mar 2020	09 Apr 2020	16	
	Japan	16 Jan 2020	09 Apr 2020 5,379 (105)	4,683 (105) 696 from quarantined ship	2.24
	South Korea	20 Jan 2020	09 Apr 2020	10,423 (204)	1.95
	Nepal	24 Jan 2020	05 Apr 2020	9	
	Australia	25 Jan 2020	09 Apr 2020	6,104 (51)	0.84
	Sri Lanka	27 Jan 2020	09 Apr 2020	190 (7)	3.68
	India	30 Jan 2020	09 Apr 2020	6,725 (226)	3.36
	Afghanistan	24 Feb 2020	09 Apr 2020	484 (15)	3.09
	Pakistan	26 Feb 2020	09 Apr 2020	4,489 (63)	1.40
	New Zealand	28 Feb 2020	09 Apr 2020	1,239 (1)	0.08
	Bhutan	05 Mar 2020	02 Apr 2020	5	
	Maldives	07 Mar 2020	02 Apr 2020	19	
	Bangladesh	08 Mar 2020	09 Apr 2020	330 (21)	6.36
	Mongolia	10 Mar 2020	07 Apr 2020	16	
	Turkey	10 Mar 2020	09 Apr 2020	42,282 (908)	2.14
	French Polynesia	12 Mar 2020	09 Apr 2020	51	
	Guam	15 Mar 2020	09 Apr 2020	128 (4)	3.12
New Caledonia	17 Mar 2020	02 Apr 2020	18		
Fiji	18 Mar 2020	07 Apr 2020	15		

<b>AMERICAS</b>	<b>Papua New Guinea</b>	21 Mar 2020	06 Apr 2020	2	
	<b>Timor Leste</b>	21 Mar 2020	21 Mar 2020	1	
	<b>Northern Mariana Islands</b>	28 Mar 2020	09 Apr 2020	11 (2)	18.2
	<b>USA</b>	21 Jan 2020	09 Apr 2020	458,445 (16,312)	3.55
	<b>Canada</b>	25 Jan 2020	09 Apr 2020	20,696 (503)	2.43
	<b>Brazil</b>	26 Feb 2020	09 Apr 2020	16,238 (823)	5.06
	<b>Mexico</b>	28 Feb 2020	09 Apr 2020	3,181 (174)	5.47
	<b>Saint Martin</b>	01 Mar 2020	07 Apr 2020	32 (2)	6.25
	<b>Ecuador</b>	01 Mar 2020	09 Apr 2020	4,965 (272)	5.47
	<b>Dominican Republic</b>	01 Mar 2020	09 Apr 2020	2,349 (118)	5.02
	<b>Chile</b>	03 Mar 2020	09 Apr 2020	5,972 (14)	0.23
	<b>Argentina</b>	03 Mar 2020	09 Apr 2020	1,795 (67)	3.73
	<b>Peru</b>	05 Mar 2020	09 Apr 2020	4,324 (121)	2.79
	<b>Costa Rica</b>	06 Mar 2020	09 Apr 2020	502 (3)	0.59
	<b>Colombia</b>	06 Mar 2020	09 Apr 2020	2,054 (55)	2.67
	<b>French Guiana</b>	06 Mar 2020	09 Apr 2020	83	
	<b>Martinique</b>	06 Mar 2020	09 Apr 2020	154 (4)	2.59
	<b>Paraguay</b>	07 Mar 2020	09 Apr 2020	124 (5)	4.03
	<b>Panama</b>	10 Mar 2020	09 Apr 2020	2,528 (63)	2.49
	<b>Bolivia</b>	10 Mar 2020	08 Apr 2020	264 (18)	6.81
	<b>Honduras</b>	11 Mar 2020	09 Apr 2020	343 (23)	6.70
	<b>Cuba</b>	11 Mar 2020	09 Apr 2020	515 (15)	2.91
	<b>Guyana</b>	11 Mar 2020	09 Apr 2020	37 (6)	16.21
	<b>Jamaica</b>	12 Mar 2020	08 Apr 2020	63 (3)	4.76
	<b>St Vincent and the Grenadines</b>	12 Mar 2020	08 Apr 2020	8	
	<b>Saint Lucia</b>	13 Mar 2020	06 Apr 2020	14	
	<b>Trinidad and Tobago</b>	13 Mar 2020	09 Apr 2020	109 (8)	7.33
	<b>Venezuela</b>	13 Mar 2020	09 Apr 2020	167 (9)	5.39
	<b>Guatemala</b>	13 Mar 2020	09 Apr 2020	93 (3)	3.22
	<b>Uruguay</b>	13 Mar 2020	08 Apr 2020	424 (7)	1.65
	<b>Curacao</b>	13 Mar 2020	09 Apr 2020	14 (1)	7.14
	<b>Puerto Rico</b>	13 Mar 2020	09 Apr 2020	683 (33)	4.83
	<b>Suriname</b>	13 Mar 2020	08 Apr 2020	10 (1)	10.0
	<b>Antigua and Barbuda</b>	13 Mar 2020	08 Apr 2020	19 (2)	10.52
<b>Guadeloupe</b>	13 Mar 2020	09 Apr 2020	141 (8)	5.67	
<b>Cayman Islands</b>	13 Mar 2020	08 Apr 2020	45 (1)	2.22	
<b>Aruba</b>	14 Mar 2020	09 Apr 2020	77		
<b>Bahamas</b>	15 Mar 2020	09 Apr 2020	40 (7)	17.5	
<b>US Virgin Islands</b>	16 Mar 2020	30 Mar 2020	30		
<b>Sint Maarten</b>	17 Mar 2020	09 Apr 2020	43 (6)	13.95	
<b>Montserrat</b>	17 Mar 2020	08 Apr 2020	9		

<b>Barbados</b>	17 Mar 2020	08 Apr 2020	63 (1)	1.58
<b>El Salvador</b>	18 Mar 2020	09 Apr 2020	103 (5)	4.85
<b>Nicaragua</b>	18 Mar 2020	06 Apr 2020	6 (1)	16.7
<b>Bermuda</b>	18 Mar 2020	07 Apr 2020	39 (2)	5.12
<b>Haiti</b>	19 Mar 2020	09 Apr 2020	30 (2)	6.67
<b>Dominica</b>	22 Mar 2020	07 Apr 2020	15	
<b>Grenada</b>	22 Mar 2020	04 Apr 2020	12	
<b>Belize</b>	23 Mar 2020	08 Apr 2020	8 (1)	12.5
<b>Turks and Caicos Islands</b>	23 Mar 2020	07 Apr 2020	8 (1)	12.5
<b>Saint Kitts and Nevis</b>	24 Mar 2020	07 Apr 2020	11	
<b>British Virgin Islands</b>	25 Mar 2020	31 Mar 2020	3	
<b>Anguilla</b>	26 Mar 2020	03 Apr 2020	3	
<b>Caribbean Netherlands</b>	01 Apr 2020	01 Apr 2020	2	
<b>Falkland Islands</b>	03 Apr 2020	09 Apr 2020	5	
<b>Saint Pierre and Miquelon</b>	05 Apr 2020	05 Apr 2020	1	
<b>EUROPE</b>				
<b>France</b>	24 Jan 2020	09 Apr 2020	117,749 (12,210)	10.36
<b>Germany</b>	27 Jan 2020	08 Apr 2020	114,257 (2,349)	2.05
<b>Finland</b>	29 Jan 2020	09 Apr 2020	2,605 (42)	1.61
<b>Italy</b>	30 Jan 2020	08 Apr 2020	139,422 (17,669)	12.67
<b>Russian Federation</b>	31 Jan 2020	09 Apr 2020	10,131 (76)	0.75
<b>Spain</b>	31 Jan 2020	09 Apr 2020	152,446 (15,238)	9.99
<b>Sweden</b>	31 Jan 2020	09 Apr 2020	9,141 (793)	8.67
<b>United Kingdom of Great Britain</b>	31 Jan 2020	09 Apr 2020	65,077 (7,978)	12.25
<b>Belgium</b>	05 Feb 2020	09 Apr 2020	24,983 (2,523)	10.09
<b>Switzerland</b>	25 Feb 2020	09 Apr 2020	24,046 (948)	3.94
<b>Austria</b>	25 Feb 2020	09 Apr 2020	13,138 (295)	2.24
<b>Croatia</b>	25 Feb 2020	09 Apr 2020	1,407 (20)	1.42
<b>Norway</b>	26 Feb 2020	09 Apr 2020	6,160 (108)	1.75
<b>Romania</b>	26 Feb 2020	09 Apr 2020	5,202 (246)	4.73
<b>Estonia</b>	26 Feb 2020	09 Apr 2020	1,207 (24)	1.98
<b>Georgia</b>	26 Feb 2020	09 Apr 2020	218 (3)	1.37
<b>North Macedonia</b>	26 Feb 2020	09 Apr 2020	663 (30)	4.52
<b>Greece</b>	26 Feb 2020	09 Apr 2020	1,955 (87)	4.45
<b>Denmark</b>	27 Feb 2020	09 Apr 2020	5,635 (237)	4.20
<b>San Marino</b>	27 Feb 2020	09 Apr 2020	308 (34)	11.03
<b>Lithuania</b>	27 Feb 2020	09 Apr 2020	955 (16)	1.67
<b>Netherlands</b>	27 Feb 2020	09 Apr 2020	21,792 (2,396)	10.99
<b>Azerbaijan</b>	27 Feb 2020	09 Apr 2020	929 (9)	0.96
<b>Belarus</b>	28 Feb 2020	09 Apr 2020	1,066 (13)	1.21
<b>Iceland</b>	28 Feb 2020	09 Apr 2020	1,648 (6)	0.36
<b>Ireland</b>	28 Feb 2020	09 Apr 2020	6,574 (263)	4.00

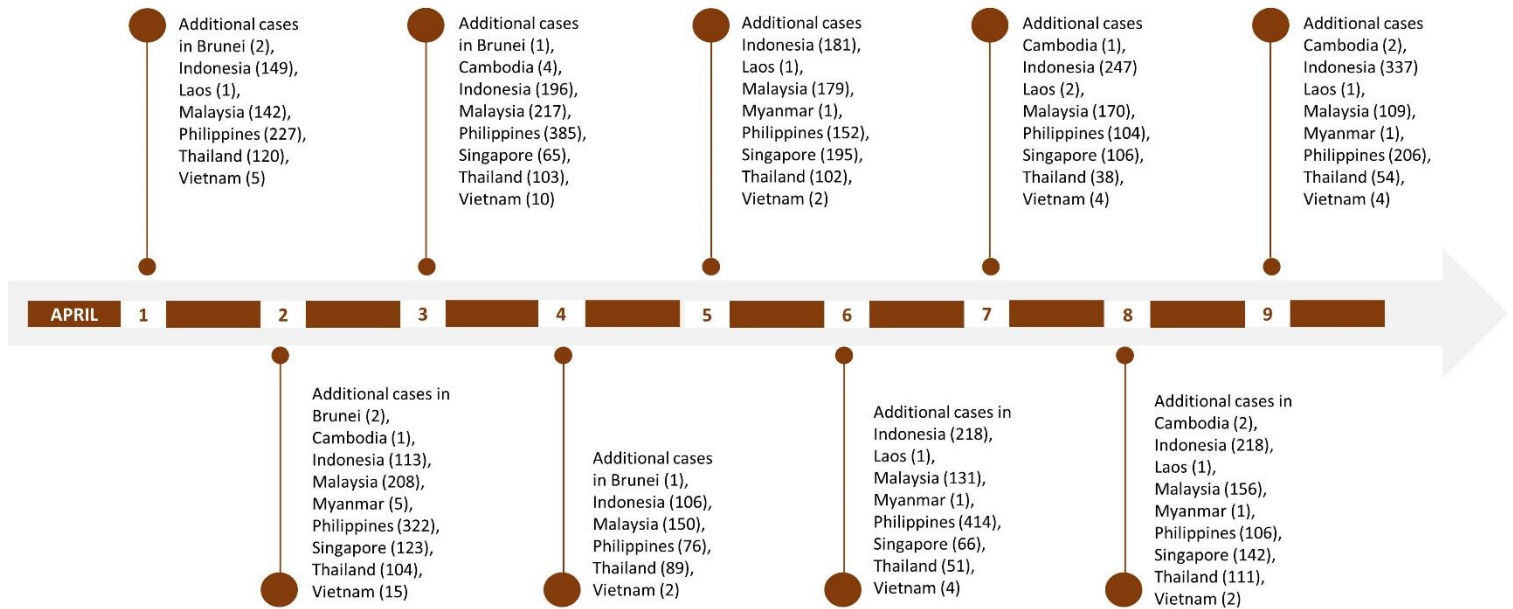
	<b>Monaco</b>	29 Feb 2020	08 Apr 2020	81 (1)	1.23
	<b>Czech Republic</b>	01 Mar 2020	09 Apr 2020	5,467 (112)	2.04
	<b>Luxembourg</b>	01 Mar 2020	08 Apr 2020	3,034 (46)	1.51
	<b>Armenia</b>	01 Mar 2020	09 Apr 2020	921 (10)	1.08
	<b>Latvia</b>	02 Mar 2020	09 Apr 2020	589 (2)	0.33
	<b>Portugal</b>	02 Mar 2020	09 Apr 2020	13,956 (409)	2.93
	<b>Andorra</b>	02 Mar 2020	09 Apr 2020	564 (23)	4.07
	<b>Liechtenstein</b>	03 Mar 2020	08 Apr 2020	78 (1)	1.28
	<b>Ukraine</b>	03 Mar 2020	09 Apr 2020	1,892 (57)	3.01
	<b>Slovenia</b>	04 Mar 2020	09 Apr 2020	1,124 (43)	3.82
	<b>Hungary</b>	04 Mar 2020	09 Apr 2020	980 (66)	6.73
	<b>Poland</b>	04 Mar 2020	09 Apr 2020	5,575 (174)	3.12
	<b>Faroe Islands</b>	04 Mar 2020	07 Apr 2020	184	
	<b>Bosnia and Herzegovina</b>	05 Mar 2020	09 Apr 2020	841 (35)	4.16
	<b>Gibraltar</b>	05 Mar 2020	09 Apr 2020	123	
	<b>Slovakia</b>	06 Mar 2020	09 Apr 2020	701 (2)	0.28
	<b>Serbia</b>	06 Mar 2020	09 Apr 2020	2,867 (66)	2.30
	<b>Vatican City</b>	06 Mar 2020	09 Apr 2020	8	
	<b>Malta</b>	07 Mar 2020	09 Apr 2020	337 (2)	0.59
	<b>Moldova</b>	07 Mar 2020	09 Apr 2020	1,174 (28)	2.38
	<b>Bulgaria</b>	08 Mar 2020	09 Apr 2020	565 (22)	3.89
	<b>Albania</b>	09 Mar 2020	09 Apr 2020	409 (22)	5.38
	<b>Cyprus</b>	09 Mar 2020	09 Apr 2020	564 (10)	1.77
	<b>Channel Islands</b>	09 Mar 2020	09 Apr 2020	351 (8)	2.27
	<b>Jersey</b>	10 Mar 2020	05 Apr 2020	126 (3)	2.38
	<b>Kazakhstan</b>	13 Mar 2020	09 Apr 2020	764 (7)	0.91
	<b>Kosovo</b>	13 Mar 2020	08 Apr 2020	184 (5)	2.71
	<b>Uzbekistan</b>	15 Mar 2020	09 Apr 2020	582 (3)	0.51
	<b>Greenland</b>	16 Mar 2020	05 Apr 2020	11	
	<b>Montenegro</b>	17 Mar 2020	09 Apr 2020	252 (2)	0.79
	<b>Kyrgyztan</b>	18 Mar 2020	09 Apr 2020	280 (4)	1.43
	<b>Isle of Man</b>	19 Mar 2020	09 Apr 2020	190 (1)	0.52
<b>MIDDLE EAST</b>	<b>UAE</b>	29 Jan 2020	08 Apr 2020	2,659 (12)	0.45
	<b>Iran</b>	19 Feb 2020	09 Apr 2020	66,220 (4,110)	6.20
	<b>Israel</b>	21 Feb 2020	09 Apr 2020	9,968 (86)	0.86
	<b>Lebanon</b>	21 Feb 2020	09 Apr 2020	582 (19)	3.26
	<b>Kuwait</b>	24 Feb 2020	09 Apr 2020	910 (1)	0.11
	<b>Oman</b>	24 Feb 2020	09 Apr 2020	457 (2)	0.43
	<b>Bahrain</b>	24 Feb 2020	09 Apr 2020	866 (5)	0.57
	<b>Iraq</b>	24 Feb 2020	09 Apr 2020	1,232 (69)	5.60
	<b>Qatar</b>	29 Feb 2020	09 Apr 2020	2,376 (6)	0.25
	<b>Saudi Arabia</b>	02 Mar 2020	09 Apr 2020	3,287 (44)	1.33
	<b>Jordan</b>	02 Mar 2020	09 Apr 2020	372 (7)	1.88
	<b>Palestine</b>	05 Mar 2020	08 Apr 2020	263 (1)	0.38
	<b>Syria</b>	22 Mar 2020	05 Apr 2020	19 (2)	10.5
	<b>AFRICA</b>	<b>Egypt</b>	14 Feb 2020	09 Apr 2020	1,560 (103)
<b>Algeria</b>		25 Feb 2020	09 Apr 2020	1,572 (205)	13.04

<b>Nigeria</b>	28 Feb 2020	09 Apr 2020	276 (6)	2.17
<b>Tunisia</b>	02 Mar 2020	09 Apr 2020	643 (25)	3.88
<b>Morocco</b>	02 Mar 2020	09 Apr 2020	1,346 (96)	7.13
<b>Senegal</b>	02 Mar 2020	09 Apr 2020	250 (2)	0.80
<b>South Africa</b>	05 Mar 2020	08 Apr 2020	1,845 (18)	0.97
<b>Cameroon</b>	06 Mar 2020	09 Apr 2020	730 (10)	1.37
<b>Togo</b>	06 Mar 2020	09 Apr 2020	73 (3)	4.10
<b>Burkina Faso</b>	09 Mar 2020	09 Apr 2020	414 (23)	5.55
<b>Democratic Republic of Congo</b>	10 Mar 2020	29 Mar 2020	65 (6)	9.23
<b>Ivory Coast</b>	11 Mar 2020	09 Apr 2020	384 (3)	0.78
<b>Reunion</b>	11 Mar 2020	09 Apr 2020	362	
<b>Ghana</b>	13 Mar 2020	09 Apr 2020	313 (6)	1.91
<b>Guinea</b>	13 Mar 2020	09 Apr 2020	194	
<b>Gabon</b>	13 Mar 2020	09 Apr 2020	34 (1)	2.94
<b>Sudan</b>	13 Mar 2020	09 Apr 2020	15 (2)	13.3
<b>Kenya</b>	13 Mar 2020	09 Apr 2020	184 (6)	3.26
<b>Ethiopia</b>	13 Mar 2020	09 Apr 2020	56 (2)	3.57
<b>Central African Republic</b>	14 Mar 2020	03 Apr 2020	8	
<b>Seychelles</b>	14 Mar 2020	06 Apr 2020	11	
<b>Rwanda</b>	14 Mar 2020	09 Apr 2020	110	
<b>Namibia</b>	14 Mar 2020	05 Apr 2020	16	
<b>Swaziland</b>	14 Mar 2020	09 Apr 2020	12	
<b>Mauritania</b>	14 Mar 2020	09 Apr 2020	7	
<b>Mayotte</b>	14 Mar 2020	09 Apr 2020	184 (2)	
<b>Equatorial Guinea</b>	15 Mar 2020	09 Apr 2020	18	
<b>Republic of Congo</b>	15 Mar 2020	09 Apr 2020	60 (5)	8.33
<b>Benin</b>	16 Mar 2020	07 Apr 2020	26 (1)	3.84
<b>Liberia</b>	16 Mar 2020	08 Apr 2020	31 (4)	6.45
<b>Tanzania</b>	16 Mar 2020	08 Apr 2020	25 (1)	4.00
<b>Somalia</b>	16 Mar 2020	08 Apr 2020	12 (1)	8.33
<b>Gambia</b>	17 Mar 2020	25 Mar 2020	4 (1)	25.0
<b>Zambia</b>	17 Mar 2020	02 Apr 2020	39 (1)	2.56
<b>Mauritius</b>	18 Mar 2020	09 Apr 2020	273 (7)	2.56
<b>Djibouti</b>	18 Mar 2020	08 Apr 2020	135	
<b>Niger</b>	19 Mar 2020	09 Apr 2020	342 (11)	3.21
<b>Chad</b>	19 Mar 2020	08 Apr 2020	10	
<b>Zimbabwe</b>	20 Mar 2020	08 Apr 2020	11 (2)	18.18
<b>Cape Verde</b>	20 Mar 2020	04 Apr 2020	7 (1)	14.28
<b>Madagascar</b>	20 Mar 2020	08 Apr 2020	93	
<b>Uganda</b>	21 Mar 2020	08 Apr 2020	53	
<b>Eritrea</b>	21 Mar 2020	09 Apr 2020	33	
<b>Angola</b>	21 Mar 2020	09 Apr 2020	19 (2)	10.52
<b>Mozambique</b>	22 Mar 2020	09 Apr 2020	17	
<b>Libya</b>	24 Mar 2020	08 Apr 2020	21 (1)	4.76
<b>Guinea-Bissau</b>	25 Mar 2020	09 Apr 2020	36	
<b>Mali</b>	25 Mar 2020	09 Apr 2020	59 (7)	11.86
<b>Botswana</b>	30 Mar 2020	09 Apr 2020	13 (1)	7.69
<b>Sierra Leone</b>	31 Mar 2020	08 Apr 2020	7	
<b>Burundi</b>	31 Mar 2020	03 Apr 2020	3	

<b>Malawi</b>	02 Apr 2020	07 Apr 2020	8 (1)	12.5
<b>South Sudan</b>	05 Apr 2020	09 Apr 2020	3	
<b>Sao Tome and Principe</b>	06 Apr 2020	06 Apr 2020	4	
			<b>1,496,195 (90,621)</b>	

\*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.

## Timeline of COVID-19: ASEAN





## 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 4:00PM EST on April 9. 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:

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

Note: on April 9, the categorization scheme changed. Those countries that would have formerly been in category E (formerly purple) will now be included in category A (light blue). The IDVI value is now represented by hatched lines on the map. Category E (grey) now represents countries where insufficient information is available on COVID-19 transmission.

- A** **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.
- C** **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

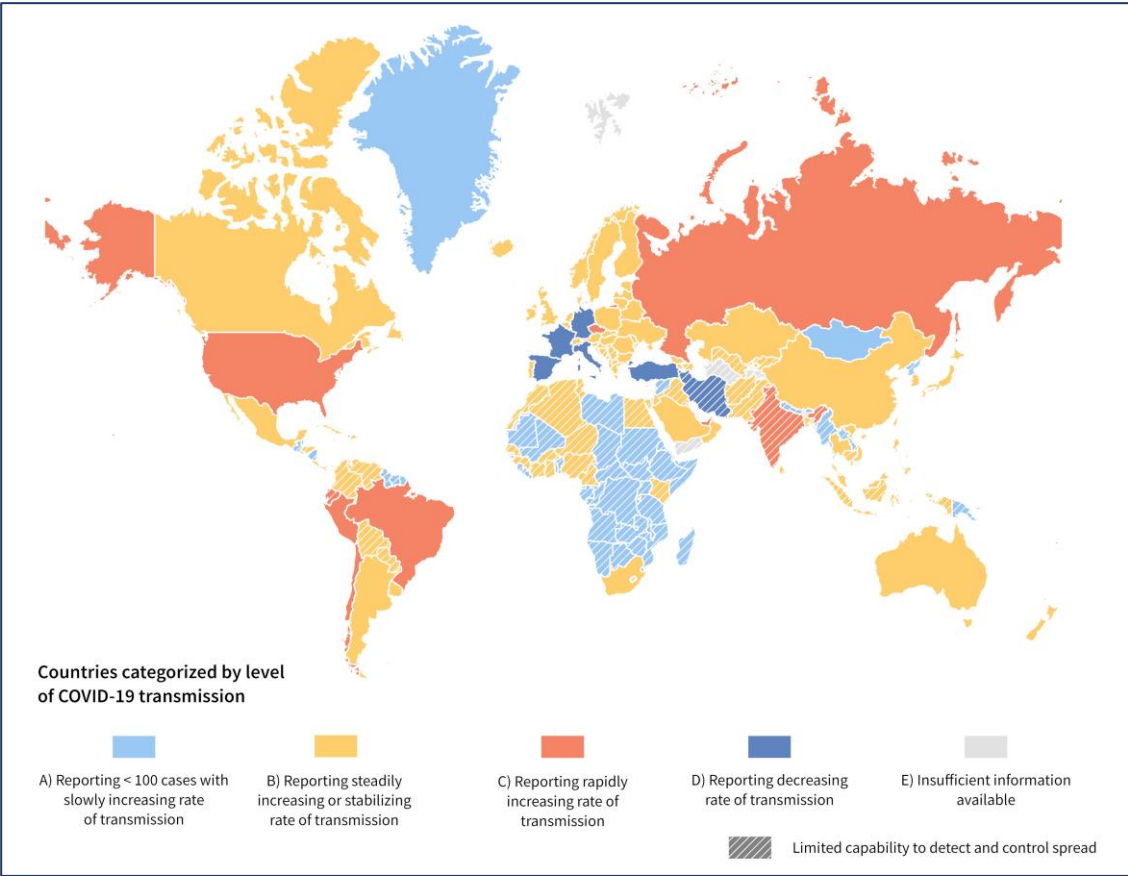


Figure 1. Map depicting countries by the corresponding COVID-19 transmission category

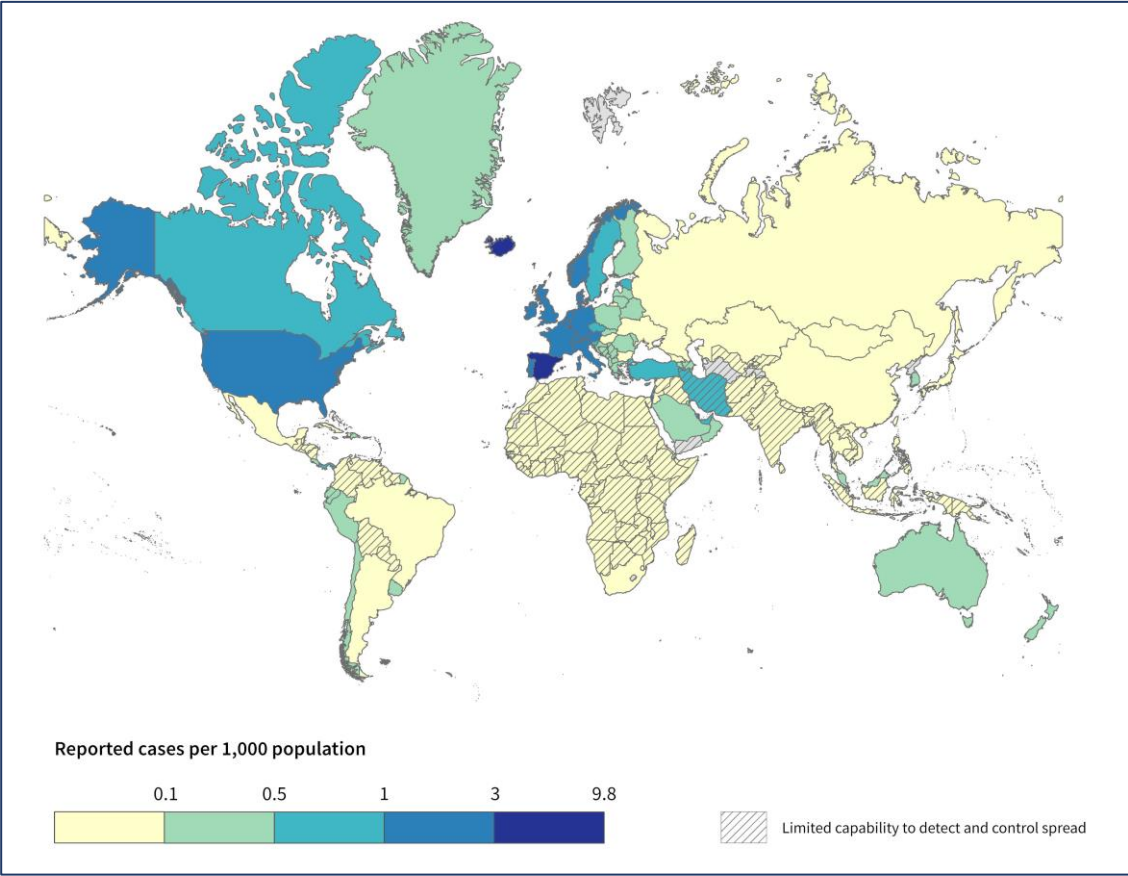


Figure 2. Map depicting the total number of COVID-19 cases reported per 1,000 population at a national level since the beginning of the pandemic. This include active cases, resolved cases, and fatalities

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

Country	COVID-19 Category As of April 3, 2020 <sup>1</sup>	COVID-19 Category As of April 7, 2020 <sup>2</sup>	COVID-19 Category As of April 9, 2020 <sup>2,3</sup>	IDVI Score	Cumulative Cases As of April 9, 2020	Doubling Time (days) <sup>4</sup>	Confirmed COVID-19 cases per 1,000 Population
Brunei	B	B	B	0.763	135	19	0.342
Cambodia	B	B	B	0.355	119	18	0.008
Indonesia	B	B	B	0.563	3,293	9	0.014
Laos	E	E	A	0.355	16	11	0.003
Malaysia	B	B	B	0.761	4,228	14	0.150
Myanmar	E	E	A	0.448	23	10	0.0004
Philippines	D	B	B	0.545	4,076	10	0.041
Singapore	B	B	B	0.878	1,910	9	0.538
Thailand	B	B	B	0.711	2,423	13	0.036
Vietnam	B	B	B	0.626	255	17	0.003

\*refer to additional file for country categorization globally

1 Categorization determined based on the 3-day rate-of-change in new case reports.

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

3 On April 9, the categorization scheme changed. Those countries that would have formerly been in category E (formerly purple) will now be included in category A (light blue). The IDVI value is now represented by hatched lines on the map. Category E (grey) now represents countries where insufficient information is available on COVID-19 transmission.

4 Doubling time is the amount of time it takes for a value to double itself at a consistent rate of growth



Report generated by  
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