Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.

Note: Based on Hinojales, Marthe, Anne Oeking, and Li Lian Ong, 2020, “Where are We in the Covid Cycle?” AMRO Analytical Note, Singapore, April 27. Minor outbreaks are classified as outbreaks in the bottom 75th percentile of a country’s 7-day average daily new cases. Outbreaks can retroactively be reclassified as non-minor if a later date breaches the 75th percentile threshold. Individual cycles available upon request.

Prepared by Anne Oeking, Edmond Choo and Marthe Hinojales.
Figure 2. US States: Covid Cycle Heat-map

United States

Alabama
Alaska
Arizona
Arkansas
California
Colorado
Connecticut
Delaware
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Mississippi
Missouri
Montana
Nebraska
Nevada
New Hampshire
New Jersey
New Mexico
New York
New York City
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Vermont
Virginia
Washington
West Virginia
Wisconsin
Wyoming
District of Columbia

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.

Note: Based on Hinojales, Marthe, Anne Oeking, and Li Lian Ong. 2020. "Where are We in the Covid Cycle?" AMRO Analytical Note, Singapore, April 27; and Hinojales, Marthe, Anne Oeking, and Li Lian Ong. 2020. "The Covid Conundrum: Reopening in a Truly Global Pandemic" AMRO Analytical Note, Singapore, May 12. Minor outbreaks are classified as outbreaks in the bottom 75th percentile of a country's 7-day average daily new cases. Outbreaks can retroactively be reclassified as non-minor if a later date breaches the 75th percentile threshold. Recovery data for California, Florida, Georgia, Illinois, Missouri, Washington, and New York City is not reported, thus estimated using the US-wide recovery rate.
**Figure 3. ASEAN+3 and Selected Economies: Capacity of the Healthcare System during COVID-19**

(Measured by the number of hospital beds to active cases)

| ECONOMY       | Ratio t = 0 | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | Hospital Bed Density |
|---------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|----------------------|
| China         | 3,055       |     |     |     |     |     |     |     |     |     | 24,740.0   |
| Japan         | 589,855     |     |     |     |     |     |     |     |     |     | 205.7       |
| Korea         | 247,144     |     |     |     |     |     |     |     |     |     | 13.4        |
| Indonesia     | 1,142,878   |     |     |     |     |     |     |     |     |     | 11.5        |
| Malaysia      | 7,514,836   |     |     |     |     |     |     |     |     |     | 1.2         |
| Philippines   | 355,743     |     |     |     |     |     |     |     |     |     | 0.5         |
| Singapore     | 4,165       |     |     |     |     |     |     |     |     |     | 107.5       |
| Thailand      | 26,311      |     |     |     |     |     |     |     |     |     | 2.1         |
| Brunei Darussalam | 8,650      |     |     |     |     |     |     |     |     |     | 1,079.7     |
| Cambodia      | 48,906      |     |     |     |     |     |     |     |     |     | 4,325.1     |
| Lao PDR       | 38,146      |     |     |     |     |     |     |     |     |     | 2,638.3     |
| Myanmar       | 42,025      |     |     |     |     |     |     |     |     |     | 10,699.0    |
| Vietnam       | 2,334.0     |     |     |     |     |     |     |     |     |     | 2.7         |
| Belgium       | 502,176     |     |     |     |     |     |     |     |     |     | 4,746.2     |
| France        | 196,461     |     |     |     |     |     |     |     |     |     | 6.2         |
| Germany       | 951,937     |     |     |     |     |     |     |     |     |     | 6.5         |
| Italy         | 1,352,259   |     |     |     |     |     |     |     |     |     | 8.3         |
| Spain         | 972,704     |     |     |     |     |     |     |     |     |     | 3.4         |
| Switzerland   | 283,564     |     |     |     |     |     |     |     |     |     | 4.7         |
| Brazil        | 3,255,190   |     |     |     |     |     |     |     |     |     | 2.8         |
| Canada        | 178,871     |     |     |     |     |     |     |     |     |     | 2.7         |
| Argentina     | 701,485     |     |     |     |     |     |     |     |     |     | 2.2         |
| Mexico        | 1,352,259   |     |     |     |     |     |     |     |     |     | 2.7         |
| Peru          | 310,017     |     |     |     |     |     |     |     |     |     | 1.9         |
| US            | 49,223      |     |     |     |     |     |     |     |     |     | 2.2         |
| Australia     | 6,327,353   |     |     |     |     |     |     |     |     |     | 3.8         |
| India         | 6,327,353   |     |     |     |     |     |     |     |     |     | 0.7         |
| Iran          | 249,521     |     |     |     |     |     |     |     |     |     | 3.7         |
| Russia        | 4,156,157   |     |     |     |     |     |     |     |     |     | 9.5         |
| Saudi Arabia  | 644,872     |     |     |     |     |     |     |     |     |     | 2.7         |
| South Africa  | 1,170,512   |     |     |     |     |     |     |     |     |     | 3.3         |

Sources: Haver Analytics, sourced from John Hopkins University; World Health Organization; and AMRO staff calculations.

Note: t = 0 refers to the value on February 1, 2020. Where unavailable, t = 0 refers to the date when the data series for each economy begins. The comparison is relative to each economy's own historical ratios, and does not take into account the quality of healthcare. The greener the heatmap, the greater the capacity of the economy's healthcare system compared to its past capacity; the redder, the weaker the capacity.
Figure 4. Selected Economies: Daily Confirmed Cases

Note: For Singapore, the majority of the new confirmed cases belongs to work permit holders residing in dormitories. For the past one week (October 09 – 15), the proportion of this group of cases took up 16.3% of the total new cases.
Figure 4. Selected Economies: Daily Confirmed Cases
(Cont’d)

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.
Figure 5. Selected Economies: Daily Confirmed Deaths

- **ASEAN+3**
- **China**
- **Hong Kong, China**
- **Japan**
- **Korea**
- **Indonesia**
- **Malaysia**
- **Philippines**
- **Singapore**
- **Thailand**
- **Brunei Darussalam**
- **Cambodia**
Figure 5. Selected Economies: Daily Confirmed Deaths (Cont’d)

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.
Figure 6. ASEAN+3: Confirmed Cases
(Number of days after 100th confirmed case; cases in log scale)

Figure 7. ASEAN+3: Confirmed Deaths
(Number of days after 5th confirmed case; cases in log scale)

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.
Figure 8. Selected ASEAN+3 Economies: Confirmed Cases

Per million population (above 100 cases/million)

Per million population (below 100 cases/million)

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.
Figure 9. World: Daily New Cases by Region

(Number of cases, 7-day average)

(Percentage share of total new cases, 7-day average)

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.
Figure 10. Selected Economies: Confirmed Cases vs. Confirmed Deaths

(Fatality rate below 5 percent)

(Fatality rate above 5 percent)

Sources: Haver Analytics, sourced from John Hopkins University; and AMRO staff calculations.