



# **Annex 1.** Multiple crises matrix methodology

Rationale for the selection of indicators and thresholds

The multiple crises matrix presented in this report draws inspiration from Pathfinders' work in "An Age of Crises", by which countries are categorized according to the number of shocks they have experienced in recent years. This is combined with the Economic and Social Commission for Western Asia (ESCWA) Food Security Monitoring Framework to classify shocks affecting food security as economic, political or environmental. The indicators presented in each category have been selected on the basis of their relevance to the region and time period and considering data availability. While this matrix only presents an overview of the crises experienced, the discussion in chapter 3 of the present report sheds some light on how multiple crises reinforce each other.

For this exercise, shocks that affected the Arab region during the years 2020, 2021 and 2022 have been focused on. Some long-term processes, such as climate change effects or decades-long conflicts, continue to affect countries' development in general and food security in particular. Some of these processes and their relationship to food security inequality are discussed in chapter 2. The multiple crises matrix, however, aims to identify shortterm shocks that help to explain the deteriorating food security situation in the region over the last three years, for which data are limited.

**Economic indicators.** Considering the Arab region's unique challenges as well as the changes in the global economy brought on by the COVID-19 pandemic and the war in Ukraine, four variables have been chosen by ESCWA to assess countries' economic situation during the 2020–2022 period.

• Inflation. Price increases, captured by the inflation rate in the 2020–2022 period, are a particularly

serious challenge for developing countries and poorer households and contribute to increasing inequalities in access to food. Developing countries absorb global price changes faster due to their shorter supply chains. Poorer households then spend a larger percentage of their income and have a lower ability to buffer the rising cost of living through savings or borrowing. The thresholds for inflation alerts have been set to 33 per cent for an amber alert and 50 per cent for a red alert. A 33 per cent inflation rate in the 2020–2022 period would be equivalent to average inflation of 11 per cent per year. Inflation rates beyond 11 per cent are considered moderately high even for developing economies.<sup>228</sup>

- Foreign currency reserves. Given that most countries in the Arab region depend on imports to ensure sufficient food availability, maintaining sufficient foreign currency reserves is key. Amber alert is categorized as having the ability to sustain less than six months of imports, while having reserves for less than three months is considered a red alert.
- External debt. Some countries are experiencing debt stress. As discussed in the chapter 1, debt in the Arab region has been growing steadily over the last decade and recent global events have exacerbated the situation. Debt, however, is key for development finance and increased debt does not necessarily represent a problem if managed efficiently. Debt over 60 per cent of gross domestic product (GDP) is categorized as an amber alert; the European Commission Stability and Growth Pact requires public debt must not exceed 60 per cent of GDP. Debt over 90 per cent of GDP is categorized as a red alert. Debt-to-GDP ratios above 90 per cent are associated with one per cent lower growth rates than otherwise.<sup>229</sup> In addition, low-income countries (LICs), which received an overall risk of debt distress rank of "High" or "In distress" in the latest International Monetary Fund (IMF) Debt Sustainability Analysis, were rated as "High stress",

regardless of their level of debt-to-GDP. This indicator remains subjective and should be taken as a stress measure instead of a crisis and should always be analysed together with other macroeconomic components.

• Energy. This indicator ranks countries' ability to provide universal access to affordable and sufficient energy for domestic and commercial use. It is part of the World Energy Trilemma Index, which includes an Equitable Energy Ranking that sorts countries from 1 (best) to 112 (worst). Positions above 66 are considered to be amber alert and positions above 81 to be red alert.

**Political and crisis indicators.** Monitoring changes in violent conflict and political unrest in the Arab region remains key to ensuring food security. Three key indicators have been selected to present different aspects of political crises: social unrest, violent conflict and the number of refugees and internally displaced persons (IDPs).

- Protests. A high number of protest events in the 2020–2022 period can be considered a useful indicator of increased social unrest. Over 1,000 protest events are considered to be an amber alert and over 4,000 a red alert. The number of protests, however, should be analysed carefully. A very low number is not necessarily desirable as it could be an indication of a lack of rights to assembly and peaceful protest.
- Violent events. There were a number of violent events during 2020–2022, including riots, battles, explosions/ remote violence and violence against civilians. Over 1,000 events are considered to be an amber alert and over 10,000 to be a red alert.
- Refugees and IDPs. In some countries, there was an increase in the number of refugees and IDPs from 2019 to 2022. Large movements of people can be an indicator of crisis in the country or neighbouring countries during the period and can also generate its own challenges in the short term. Over 100,000 additional refugees and IDPs is considered to be an amber alert and over 500,000 a red alert.

**Environmental indicators.** Many countries in the region are experiencing food insecurity and displacement as a result of extreme weather events. Poorer populations are more vulnerable to extreme weather events and suffer disproportionately when they happen, leading to greater inequalities in the absence of a prompt and coordinated response. Three indicators are considered based on available satellite geolocated data – extreme temperatures, extreme precipitation and consecutive dry days – and one indicator based on the number of people estimated to have been affected by these events.

 Extreme heat. This indicator relates to the number of days in the 2020–2022 period that exceeded the 95th percentile threshold of daily maximum average temperature in the 1981–2010 period. The number of extreme heat days is calculated at the pixel level (10 km x 10 km) and averaged across the country. Thresholds for alert have been set at over 25 per cent of days for amber and over 30 per cent for red.

**Extreme precipitation levels.** This indicator records the change in the number of very heavy precipitation days (over 20 mm) in the 2020–2022 period compared to a 30-year historical average (1981–2010). The number of precipitation days is calculated at the pixel level (10 km x 10 km) and averaged across the country. Thresholds for alert have been set at an over five per cent increase from the historical average for amber and an over 15 per cent increase for red.

- Dry days. This indicator shows the change in consecutive dry days (CDD) in the 2020–2022 period compared to a 30-year historical average (1981–2010). The number of CDD is calculated at the pixel level (10 km x 10 km) and averaged across the country. The combination of increased CDD with extreme precipitation levels leads to an increased flooding probability. Thresholds for alert have been set at an over five per cent increase from the historical average for amber and an over 15 per cent increase for red.
- **People affected by natural disasters.** This indicator is the number of people reported to have been impacted by natural disasters (including floods, earthquakes, droughts, extreme temperatures, storms and wildfires). It comprises the number of people requiring immediate assistance, those injured and those left homeless. This indicator only includes natural disasters that fulfil one or more of the following criteria: (a) 10 or more deaths reported; (b) 100 or more affected people reported; and (c) declaration by the country of a state of emergency and/or an appeal for international assistance. Over 100,000 people affected constitutes an amber alert and over a million people affected constitutes a red alert.

Finally, other critical crises that are not captured by the indicators presented, such as the port explosion in Lebanon or the locust crises in Somalia and Yemen, are discussed in chapter 3.

## Indicator description

|               | Indicator                                  | Description   | Time period                     | Data availability | Source   |
|---------------|--|---|---------------------------------|-------------------|--|
|               | Inflation                                  | Inflation based on Consumer<br>Price Index  | October 2019 to<br>October 2022 | 15/22             | https://data.unescwa.org/portal/CPI                  |
| Economic      | Foreign<br>currency<br>reserves            | Total reserves in months of imports   | 2021                            | 14/22             | World Bank and Climate Extremes Index data           |
|               | Debt                                       | External debt as percentage of GDP  | 2022                            | 19/22             | IMF World Economic Outlook Database,<br>October 2022 |
|               | Energy                                     | Energy security ranking   | 2021                            | 14/22             | https://trilemma.worldenergy.org/                    |
|               | Protests                                   | Number of protests  | 2020-2022                       | 22/22             | https://acleddata.com/about-acled/                   |
| Political     | Violence                                   | Number of violent events<br>(riots, battles, explosions/<br>remote violence, violence<br>against civilians)   | 2020-2022                       | 22/22             | https://acleddata.com/about-acled/                   |
|               | Refugees and<br>IDPs                       | Increase in the number of<br>refugees and IDPs<br>from 2019 to 2022   | 2022                            | 22/22             | https://www.unhcr.org/refugee-<br>statistics/        |
|               | Extreme heat                               | Percentage of days in which<br>temperatures exceed the<br>95th percentile threshold of<br>daily maximum temperature<br>averaged over the historical<br>period 1981-2010 | 2020-2022                       | 21/22             | ESCWA calculations based on ERA5<br>dataset          |
| Environmental | Extreme<br>precipitation<br>levels         | Change in the number of very<br>heavy precipitation days<br>(>20 mm) in the last 3 years<br>(2020-2022) compared to the<br>30-year average (1981-2010)                  | 2020-2022                       | 21/22             | ESCWA calculations based on ERA5 dataset             |
|               | Consecutive dry<br>days                    | Change in CDD in 2020-2022<br>compared to the 30-year<br>average (1981-2010)  | 2020-2022                       | 21/22             | ESCWA calculations based on ERA5 dataset             |
|               | People affected<br>by natural<br>disasters | Number of people affected<br>by natural disasters (floods,<br>earthquakes, drought,<br>extreme temperature,<br>storm, wildfire)   | 2020-2022                       | 22/22             | https://www.emdat.be/                                |

### Threshold for amber and red alerts

|               | Indicator                               | Threshold for amber alert                                | Threshold for red alert  |  |
|---------------|---|--|--|--|
|               | Inflation                               | Between 33 and 50 per cent                               | Above 50 per cent  |  |
| Formania      | Foreign currency reserves               | Between 3 and 6 months                                   | Lower than 3 months  |  |
| Economic      | Debt                                    | Between 60 and 90 per cent                               | Higher than 90 per cent or receiving an overall risk<br>of debt distress rank of "High" or "In distress" in<br>the latest IMF Debt Sustainability Analysis |  |
|               | Energy                                  | Ranking between 66 and 81                                | Ranking above 81   |  |
|               | Protests                                | Between 1,000 and 4,000 protest events                   | More than 4,000 protest events   |  |
| Political     | Violence                                | Between 1,000 and 10,000 violent events                  | More than 10,000 violent events  |  |
|               | Refugees and IDPs                       | Between 100,000 and 500,000 additional refugees and IDPs | More than 500,000 additional refugees and IDPs   |  |
|               | Extreme heat                            | Over 25 per cent of days in the year                     | Over 30 per cent of days in the year   |  |
|               | Extreme precipitation levels            | Over 5 per cent increase from the historical average     | Over 15 per cent increase from the historical average  |  |
| Environmental | Consecutive dry days                    | Over 5 per cent increase from the historical average     | Over 15 per cent increase from the historical average  |  |
|               | People affected by<br>natural disasters | More than 100,000 people affected                        | More than 1 million people affected  |  |

## Number of countries in crisis per indicator

|               | Indicator                            | Data availability | Countries in amber alert | Countries in red alert |
|---------------|--------------------------------------|-------------------|--------------------------|------------------------|
|               | Inflation                            | 15/22             | 0                        | 3                      |
| Francis       | Foreign currency reserves            | 14/22             | 4                        | 2                      |
| Economic      | Debt                                 | 16/22             | 5                        | 7                      |
|               | Energy                               | 14/22             | 3                        | 3                      |
|               | Protests                             | 22/22             | 6                        | 4                      |
| Political     | Violence                             | 22/22             | 4                        | 4                      |
|               | Refugees and IDPs                    | 22/22             | 3                        | 2                      |
|               | Extreme heat                         | 21/22             | 2                        | 1                      |
|               | Extreme precipitation levels         | 21/22             | 1                        | 3                      |
| Environmental | Consecutive dry days                 | 21/22             | 7                        | 1                      |
|               | People affected by natural disasters | 14/22             | 2                        | 5                      |

## Summary of crises per country

| Country              | ESCWA classification             | Economic shocks | Political shocks<br>and conflict | Environmental<br>shocks |
|----------------------|----------------------------------|-----------------|----------------------------------|-------------------------|
| Algeria              | Middle-income country            |                 |                                  |                         |
| Bahrain              | Gulf Cooperation Council country |                 |                                  |                         |
| Comoros              | Least developed country          |                 |                                  |                         |
| Djibouti             | Least developed country          |                 |                                  |                         |
| Egypt                | Middle-income country            |                 |                                  |                         |
| Iraq                 | Country in conflict              |                 |                                  |                         |
| Jordan               | Middle-income country            |                 |                                  |                         |
| Kuwait               | Gulf Cooperation Council country |                 |                                  |                         |
| Lebanon              | Middle-income country            |                 |                                  |                         |
| Libya                | Country in conflict              |                 |                                  |                         |
| Mauritania           | Least developed country          |                 |                                  |                         |
| Morocco              | Middle-income country            |                 |                                  |                         |
| Oman                 | Gulf Cooperation Council country |                 |                                  |                         |
| State of Palestine   | Country in conflict              |                 |                                  |                         |
| Qatar                | Gulf Cooperation Council country |                 |                                  |                         |
| Saudi Arabia         | Gulf Cooperation Council country |                 |                                  |                         |
| Somalia              | Least developed country          |                 |                                  |                         |
| Sudan                | Least developed country          |                 |                                  |                         |
| Syrian Arab Republic | Country in conflict              |                 |                                  |                         |
| Tunisia              | Middle-income country            |                 |                                  |                         |
| United Arab Emirates | Gulf Cooperation Council country |                 |                                  |                         |
| Yemen                | Country in conflict              |                 |                                  |                         |

# **Annex 2.** Food security indicators and trends

| Dimension     | Indicator   | SDG               | Year | World | Arab  | Gulf<br>Cooperation<br>Council<br>countries | Least<br>developed<br>countries | Middle-<br>income<br>countries | Countries<br>in conflict |
|---------------|---|-------------------|------|-------|-------|---|---------------------------------|--------------------------------|--------------------------|
|               | Primary wheat yield as a<br>percentage of potential<br>achievable yield (%)                       | 2.3.1             | 2016 | n.a.  | 81.2  | 124.0                                       | n.a.                            | 94.2                           | 56.0                     |
|               | Agriculture orientation index<br>for government expenditure                                       | 2.a.1             |      | n.a.  | 4.0   | 0.3   | 0.1                             | 0.2                            | n.a.                     |
|               | Food loss (% of total food<br>available)  |                   |      | n.a.  | 6.3   | 2.1   | 9.9                             | 7.6                            | 4.7                      |
| Availability  | Average dietary energy supply<br>adequacy (%)   |                   |      | n.a.  | 129.2 | 130.8                                       | 107.4                           | 142.8                          | n.a.                     |
|               | Cereal import dependency<br>ratio (%)   |                   |      | n.a.  | 61.4  | 94.3  | n.a.                            | 57.2                           | 67.8                     |
|               | Share of water resources used<br>in agriculture, out of total<br>renewable water resources<br>[%] | 6.4.2             |      | n.a.  | 80.7  | 71.4  | 94.7                            | 75.0                           | 88.7                     |
|               | Poverty headcount ratio (% of population)   | 1.1.1/1.2.1/1.2.2 |      | 26.2  | 33.9  | 9.8   | 40.7                            | 17.7                           | 36.5                     |
| Accessibility | Share of food consumption<br>expenditure in total household<br>consumption expenditure (%)        |                   | 2021 | n.a.  | 31.3  | 19.0  | n.a.                            | 33.1                           | 36.2                     |
|               | Unemployment rate (%)   | 8.5.2             |      | 6.2   | 10.7  | 4.3   | 18.5                            | 9.7                            | 14.0                     |
|               | Logistics performance index   |                   | 2020 | 2.9   | 2.6   | 3.2   | 2.4                             | 2.7                            | 2.2                      |
|               | Inflation (%)   |                   | 2018 | 1.9   | 17.3  | 2.0   | 275.9                           | 14.2                           | n.a.                     |

|                    | Percentage of population<br>using at least basic drinking<br>water services (%)          | 1.4.1/6.1.1 | 2020 | 90.0 | 88.8 | 98.5 | 60.7 | 96.4 | 86.0 |
|--------------------|--|-------------|------|------|------|------|------|------|------|
|                    | Percentage of population<br>using at least basic sanitation<br>services (%)              | 1.4.1/6.2.1 | 2020 | 78.0 | 83.4 | 99.0 | 38.8 | 93.4 | 82.9 |
| Utilization        | Percentage of children<br>under 5 years of age who are<br>stunted (%)                    | 2.2.1       | 2020 | 22.2 | 19.4 | 4.9  | 31.4 | 16.3 | 24.9 |
|                    | Percentage of children under<br>5 years of age affected<br>by wasting (%)                | 2.2.2       | 2016 | 7.5  | 7.7  | n.a. | 15.9 | 6.1  | 8.5  |
|                    | Prevalence of anaemia among<br>women of reproductive age<br>(15-49 years) (%)            |             | 2017 | 29.9 | 33.2 | 27.1 | 38.5 | 30.3 | 39.5 |
|                    | Climate change - temperature<br>change (degree Celsius)                                  |             | 2019 | 1.7  | 1.9  | 2.0  | 1.5  | 2.1  | 2.0  |
|                    | Food price anomalies<br>(moderate or severe)   | 2.c.1       | 2020 | n.a. | n.a. | n.a. | n.a. | n.a. | -0.1 |
| Stability          | Political stability and absence<br>of violence   |             |      | n.a. | 16.0 | 40.4 | 5.8  | 19.7 | 1.5  |
|                    | Per capita food production<br>variability (\$1,000/capita)<br>(in constant 2004–2006 \$) |             |      | n.a. | 15.2 | 8.0  | 17.4 | 14.7 | 18.9 |
|                    | Per capita food supply<br>variability (kcal/capita/day)                                  |             |      | n.a. | 31.1 | 32.3 | 20.9 | 28.1 | 43.0 |
|                    | Prevalence of<br>undernourishment (%)  | 2.1.1       | n.a. | 9.3  | 11.9 | 4.5  | 22.6 | 5.3  | n.a. |
| Core<br>indicators | Prevalence of moderate<br>or severe food insecurity<br>measured using FIES (%)           | 2.1.2       | 2020 | 27.6 | 33.3 | n.a. | 57.2 | 27.2 | n.a. |
|                    | Prevalence of obesity in the<br>adult population<br>(18 years and older) (%)             |             | 2019 | 13.1 | 28.4 | 34.2 | n.a. | 30.0 | 25.8 |

#### **Middle-income countries**

|           | Indicator     |   | 2010  | Latest |      | Trend |
|-----------|---------------|---|-------|--------|------|-------|
|           | Code          | Description                                 | Value | Value  | Year |       |
| Availabi  | lity indicato | rs  |       |        |      |       |
|           | AV1           | Wheat yields - %                            | 82.7  | 94.2   | 2020 | •     |
|           | AV2           | Agriculture expenditure - index             | 0.2   | 0.2    | 2018 | •     |
|           | AV3           | Food loss (R) - %                           | 6.7   | 7.6    | 2020 | •     |
|           | AV4           | Dietary energy supply - %                   | 141.2 | 142.8  | 2020 |       |
|           | AV5           | Wheat import dependency (R) - %             | 51.2  | 57.2   | 2018 | •     |
|           | AV6           | Agriculture water (R) - %                   | 77.7  | 75.0   | 2020 |       |
| Access i  | indicators    |   |       |        |      |       |
|           | AC1           | Poverty (R) - %                             | 30.6  | 17.7   | 2022 | •     |
|           | AC2           | Food consumption (R) - %                    | 42.1  | 33.1   | 2018 | •     |
|           | AC3           | Unemployment (R) - %                        | 9.4   | 9.7    | 2023 |       |
|           | AC4           | Logistics - index                           | 2.6   | 2.7    | 2018 |       |
|           | AC5           | Inflation (R) - %                           | 7.0   | 14.2   | 2022 | •     |
| Utilizati | on indicators | 5   |       |        |      |       |
|           | UT1           | Drinking water access - %                   | 92.8  | 96.4   | 2020 |       |
|           | UT2           | Sanitation access - %                       | 89.3  | 93.4   | 2020 |       |
|           | UT3           | Child stunting (R) - %                      | 18.9  | 16.3   | 2020 | •     |
|           | UT4           | Child wasting (R) - %                       | n.a.  | 6.1    | 2016 |       |
|           | UT5           | Women's anaemia (R) - %                     | 31.5  | 30.3   | 2019 |       |
| Stability | y indicators  |   |       |        |      |       |
|           | ST1           | Climate change (R) - OC                     | 2.2   | 2.1    | 2021 | •     |
|           | ST2           | Price anomalies (R) - index                 | n.a.  | n.a.   |      |       |
|           | ST3           | Political stability - ranking               | 22.0  | 19.7   | 2021 | •     |
|           | ST4           | Production variability (R) - 1,000\$/capita | 16.3  | 14.7   | 2019 | •     |
|           | ST5           | Supply variability (R) - kcal/capita/day    | 28.6  | 28.1   | 2020 |       |
| Core ind  | licators      |   |       |        |      |       |
|           | C01           | Undernourishment (R) - %                    | 4.6   | 5.3    | 2020 | •     |
|           | C02           | Food insecurity (R) - %                     | 26.1  | 27.2   | 2020 |       |
|           | C03           | Obesity (R) - %                             | 25.9  | 30.0   | 2016 | •     |

R = Reversed

n.a. = Not available

• Red: negative trend

• Yellow: neutral trend

• Green: positive trend

## **Gulf Cooperation Council countries**

|            | Indicato     | ır  | 2010  | Latest |      | Trend |
|------------|--------------|---|-------|--------|------|-------|
|            | Code         | Description                                 | Value | Value  | Year |       |
| Availabil  | lity indicat | tors  |       |        |      |       |
|            | AV1          | Wheat yields - %                            | 117.9 | 124.0  | 2020 |       |
|            | AV2          | Agriculture expenditure - index             | 0.4   | 0.3    | 2019 | •     |
|            | AV3          | Food loss (R) - %                           | 2.5   | 2.1    | 2020 |       |
|            | AV4          | Dietary energy supply - %                   | 125.7 | 130.8  | 2020 |       |
|            | AV5          | Wheat import dependency (R) - %             | 88.2  | 94.3   | 2018 | •     |
|            | AV6          | Agriculture water (R) - %                   | 76.6  | 71.4   | 2020 |       |
| Access i   | ndicators    |   |       |        |      |       |
|            | AC1          | Poverty (R) - %                             | 13.6  | 9.8    | 2022 | •     |
|            | AC2          | Food consumption (R) - %                    | 22.6  | 19.0   | 2018 | •     |
|            | AC3          | Unemployment (R) - %                        | 4.4   | 4.3    | 2023 |       |
|            | AC4          | Logistics - index                           | 3.3   | 3.2    | 2018 |       |
|            | AC5          | Inflation (R) - %                           | 4.0   | 2.0    | 2021 | •     |
| Utilizatio | on indicato  | prs   |       |        |      |       |
|            | UT1          | Drinking water access - %                   | 98.1  | 98.5   | 2020 |       |
|            | UT2          | Sanitation access - %                       | 98.6  | 99.0   | 2020 |       |
|            | UT3          | Child stunting (R) - %                      | 6.5   | 4.9    | 2020 | •     |
|            | UT4          | Child wasting (R) - %                       | n.a.  | n.a.   |      |       |
|            | UT5          | Women's anaemia (R) - %                     | 26.1  | 27.1   | 2019 |       |
| Stability  | indicator    | s   |       |        |      |       |
|            | ST1          | Climate change (R) - OC                     | 2.0   | 2.2    | 2021 | •     |
|            | ST2          | Price anomalies (R) - index                 | n.a.  | n.a.   |      |       |
|            | ST3          | Political stability - ranking               | 49.0  | 40.4   | 2021 | •     |
|            | ST4          | Production variability (R) - 1,000\$/capita | 5.4   | 8.0    | 2019 | •     |
|            | ST5          | Supply variability (R) - kcal/capita/day    | 69.3  | 32.3   | 2020 | •     |
| Core ind   | icators      |   |       |        |      |       |
|            | C01          | Undernourishment (R) - %                    | 6.3   | 4.5    | 2020 | •     |
|            | C02          | Food insecurity (R) - %                     | n.a.  | n.a.   |      |       |
|            | C03          | Obesity (R) - %                             | 30.3  | 34.2   | 2016 | •     |
|            |              |   |       |        |      |       |

R = Reversed

n.a. = Not available

• Red: negative trend

• Yellow: neutral trend

• Green: positive trend

#### **Countries in conflict**

|           | Indicato     | Indicator                                   |       | Latest | Latest |   |
|-----------|--------------|---|-------|--------|--------|---|
|           | Code         | Description                                 | Value | Value  | Year   |   |
| Availabi  | lity indicat | ors   |       |        |        |   |
|           | AV1          | Wheat yields - %                            | 46.6  | 56.0   | 2020   | • |
|           | AV2          | Agriculture expenditure - index             | n.a.  | n.a.   |        |   |
|           | AV3          | Food loss (R) - %                           | 4.7   | 4.7    | 2020   |   |
|           | AV4          | Dietary energy supply - %                   | n.a.  | n.a.   |        |   |
|           | AV5          | Wheat import dependency (R) - %             | n.a.  | 67.8   | 2018   |   |
|           | AV6          | Agriculture water (R) - %                   | 86.6  | 88.7   | 2020   |   |
| Access i  | ndicators    |   |       |        |        |   |
|           | AC1          | Poverty (R) - %                             | 23.3  | 36.5   | 2022   | • |
|           | AC2          | Food consumption (R) - %                    | n.a.  | 36.2   | 2017   |   |
|           | AC3          | Unemployment (R) - %                        | 11.0  | 14.0   | 2023   | • |
|           | AC4          | Logistics - index                           | 2.4   | 2.2    | 2018   | • |
|           | AC5          | Inflation (R) - %                           | 5.6   | n.a.   |        |   |
| Utilizati | on indicato  | prs   |       |        |        |   |
|           | UT1          | Drinking water access - %                   | 80.1  | 86.0   | 2020   | • |
|           | UT2          | Sanitation access - %                       | 77.0  | 82.9   | 2020   | • |
|           | UT3          | Child stunting (R) - %                      | 30.8  | 24.9   | 2020   | • |
|           | UT4          | Child wasting (R) - %                       | n.a.  | 8.5    | 2016   |   |
|           | UT5          | Women's anaemia (R) - %                     | 39.9  | 39.5   | 2019   |   |
| Stability | indicators   | S   |       |        |        |   |
|           | ST1          | Climate change (R) - OC                     | 2.1   | 2.0    | 2021   | • |
|           | ST2          | Price anomalies (R) - index                 | n.a.  | -0.1   | 2020   |   |
|           | ST3          | Political stability - ranking               | 10.6  | 1.5    | 2021   | • |
|           | ST4          | Production variability (R) - 1,000\$/capita | 14.3  | 18.9   | 2019   | • |
|           | ST5          | Supply variability (R) - kcal/capita/day    | 33.8  | 43.0   | 2020   | • |
| Core ind  |              |   |       |        |        |   |
|           | C01          | Undernourishment (R) - %                    | n.a.  | n.a.   |        |   |
|           | C02          | Food insecurity (R) - %                     | n.a.  | n.a.   |        |   |
|           | C03          | Obesity (R) - %                             | 22.3  | 25.8   | 2016   |   |

R = Reversed

n.a. = Not available

Red: negative trendYellow: neutral trend

• Green: positive trend

### Least developed countries

|             | Indicator  |   | 2010  | Latest |      | Trend |
|-------------|------------|---|-------|--------|------|-------|
|             | Code       | Description                                 | Value | Value  | Year |       |
| Availabili  | ty indicat | ors   |       |        |      |       |
|             | AV1        | Wheat yields - %                            | n.a.  | n.a.   |      |       |
|             | AV2        | Agriculture expenditure - index             | n.a.  | 0.1    | 2019 |       |
|             | AV3        | Food loss (R) - %                           | 2.7   | 9.9    | 2020 | •     |
|             | AV4        | Dietary energy supply - %                   | 112.1 | 107.4  | 2020 |       |
|             | AV5        | Wheat import dependency (R) - %             | n.a.  | n.a.   |      |       |
|             | AV6        | Agriculture water (R) - %                   | 94.5  | 94.7   | 2020 |       |
| Access in   | dicators   |   |       |        |      |       |
|             | AC1        | Poverty (R) - %                             | n.a.  | 40.7   | 2022 |       |
|             | AC2        | Food consumption (R) - %                    | n.a.  | n.a.   |      |       |
|             | AC3        | Unemployment (R) - %                        | 15.8  | 18.5   | 2023 | •     |
|             | AC4        | Logistics - index                           | 2.0   | 2.4    | 2018 | •     |
|             | AC5        | Inflation (R) - %                           | 12.2  | 275.9  | 2021 | •     |
| Utilizatio  | n indicato | prs   |       |        |      |       |
|             | UT1        | Drinking water access - %                   | 50.4  | 60.7   | 2020 | •     |
|             | UT2        | Sanitation access - %                       | 29.1  | 38.8   | 2020 | •     |
|             | UT3        | Child stunting (R) - %                      | 34.8  | 31.4   | 2020 | •     |
|             | UT4        | Child wasting (R) - %                       | n.a.  | 15.9   | 2014 |       |
|             | UT5        | Women's anaemia (R) - %                     | 39.5  | 38.5   | 2019 |       |
| Stability i | ndicator   | s   |       |        |      |       |
|             | ST1        | Climate change (R) - OC                     | 1.5   | 1.5    | 2021 |       |
|             | ST2        | Price anomalies (R) - index                 | n.a.  | n.a.   |      |       |
|             | ST3        | Political stability - ranking               | 2.9   | 5.8    | 2021 | •     |
|             | ST4        | Production variability (R) - 1,000\$/capita | n.a.  | 17.4   | 2019 |       |
|             | ST5        | Supply variability (R) - kcal/capita/day    | 18.2  | 20.9   | 2020 | •     |
| Core indic  | cators     |   |       |        |      |       |
|             | C01        | Undernourishment (R) - %                    | 28.9  | 22.6   | 2020 | •     |
|             | C02        | Food insecurity (R) - %                     | n.a.  | 57.2   | 2020 |       |
|             | C03        | Obesity (R) - %                             | n.a.  | n.a.   |      |       |

R = Reversed

n.a. = Not availableRed: negative trend

Yellow: neutral trend

Green: positive trend

Inequality in the Arab region Food insecurity fuels inequality