Training Workshop on the use of the Food Security Monitoring Framework in the Arab Region

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UN House – 19-22 August 2019

Overview of the indicators
Indicators

1. Core
2. Availability
3. Access
4. Utilization
5. Stability

1-Definition
2-Method of Measurement
3-Data Source
4-Country Progress / Missing Data
CO1- Prevalence of Undernourishment (%)

What is it? Estimation of the population not getting enough food

How is it measured? Based on a comparison of usual food consumption expressed in terms of dietary energy (kcal) with certain energy requirement norms.

Where can we find it? FAOSTAT
Prevalence of severe food insecurity (FIES) (%)

**What is it?**
Number of people who feel hungry but have no food.

**How is it measured?**
Consists of an-8 questions questionnaire that investigates people’s experience of access to adequate food.

**Where can we find it?**
FAOSTAT
Prevalence of obesity in the adult population (%)

What is it?
A measure of the prevalence of excess weight in the population.
Obesity is defined as having a Body Mass Index (BMI) equal or greater than 30

How is it measured?
BMI is a simple index of weight-for-height

Where can we find it?
FAOSTAT
AV1 - Primary wheat yield as a percentage of potentially achievable yield

What is it? Assesses the difference between the potential and actual yield. It was developed for the specific purpose of this monitoring framework.

How is it measured? \[ X = 100 \times \frac{\text{Achieved yield}}{\text{Potentially achievable yield}} \]

Where can we find it? Muller et al, 2012 & FAOSTAT
AV2 - The agriculture orientation index for government expenditures (AOI)

**What is it?**
Assessment of governmental expenditures in agriculture.

**How is it measured?**
The Agriculture share of Government Expenditure / the Agriculture value added share of GDP

**Where can we find it?**
FAOSTAT
AV3- Food loss (% of total food available)

What is it?
Estimate the food produced but which does not reach retailers and/or consumers.

How is it measured?
\[ X = 100 \times \frac{\text{Losses}}{\text{Available food}} \]

Where can we find it?
FAOSTAT
AV4- Average dietary energy supply adequacy (ADESA)

What is it?
Estimates the amount of calories from food available for human consumption

How is it measured?
Each country's or region's average supply of calories for food consumption is normalized by the average dietary energy requirement estimated for its population to provide an index of adequacy of the food supply in terms of calories.

Where can we find it?
FAOSTAT
**AV5- : Cereal import dependency ratio**

**What is it?**
Shows how much of the cereal available has been imported and indirectly how much is produced locally.

**How is it measured?**
Calculated on the basis of three year averages and computed as:

\[
\frac{\text{Cereal imports} - \text{cereal exports}}{\text{cereal production} + \text{cereal imports} - \text{cereal exports}} \times 100
\]

**Where can we find it?**
FAOSTAT
AV6- Share of water resources used in agriculture, out of total renewable water resources

What is it? A measure of the share of water used for agricultural production

How is it measured? $X = 100 \times \frac{\text{Agricultural water withdrawal}}{\text{Total renewable water resources}}$

Where can we find it? AQUASTAT
**AC1- Poverty headcount (% of population)**

**What is it?**
A measure of the number of people not having sufficient resources for their needs

**How is it measured?**
In the monitoring framework $3.20 will be used as a poverty cutoff figure, because the data is more relevant to the current situation in Arab countries than $1.9 a day

**Where can we find it?**
World Bank
AC2- Share of food consumption expenditure in total household consumption expenditure (%)

**What is it?**
Value of acquired food for household consumption

**How is it measured?**
\[
\frac{\text{Expenditure on Food}}{\text{Total Expenditure}} \times 100
\]

**Where can we find it?**
FAO
AC3- Unemployment rate (%)

What is it? A measure of the number of working age people without a job.

How is it measured? Dividing the number of unemployed people by the total number of people in the labor force. For this framework the age group selected was 25 years and above.

Where can we find it? World Bank
AC4- Logistics performance index:

**What is it?** Assessment of the quality of the infrastructure within a country

Respondents countries appraise eight economies on six main dimensions scaled from 1 (worst) to 5 (best). The economies are selected based on the most important export and import markets of the respondent's country. Scores for the six areas are averaged across all respondents and aggregated to a single score.

**Where can we find it?** World Bank
AC5- Inflation:

What is it? A measure of volatility in prices.

How is it measured? The price at base period, the observation period and the quantity are taken into consideration when calculated through the CPI.

Where can we find it? World Bank
**UT1- Proportion of population using at least basic drinking water services:**

**What is it?**
Assessment of the number of people with access to basic drinking water services.

**How is it measured?**
Produced by the Joint Monitoring Programme based on several various sources. The information is collected from households during interviews conducted by national statistical offices.

**Where can we find it?**
FAOSTAT
UT2- Proportion of population using at least basic sanitation services:

What is it?  Assessment of number of people with access to basic sanitation services

How is it measured?  Data produced by the Joint Monitoring Programme based on various sources and surveys.

Where can we find it?  FAOSTAT
UT3- Percentage of children under 5 years of age affected by stunting (%)

**What is it?**  Number of children with low **height-to-age**

**How is it measured?**  Number of children aged 0-5 years that fall below minus two standard deviations from the median height for age of the WHO Child Growth Standards

**Where can we find it?**  FAOSTAT
UT4- Percentage of children under 5 years of age affected by wasting (%)

What is it? Number of children too thin for their heights

How is it measured? Number of children aged 0-5 years that fall below minus two standard deviations from the median weight for height of the WHO Child Growth Standards

Where can we find it? FAOSTAT
UT5-Prevalence of anemia among women of reproductive age (15-49 years) (%)

What is it? Percentage of women (15-49) without sufficient healthy red blood cells

How is it measured? It is the weighted average of both non-pregnant with haemoglobin levels below 12 g/dL and pregnant women with haemoglobin levels below 11 g/dL

Where can we find it? FAOSTAT
ST1-Climate change vulnerability index

**What is it?**
A measure of the country’s vulnerability to climate change.

**How is it measured?**
Assessments taking into consideration three major impacts of climate change: weather related disasters; sea level rise; and loss of agriculture productivity.

**Where can we find it?**
STAT PLANET
**ST2-Food Price anomalies**

**What is it?** A measure of price distortion over a time period

**How is it measured?** Quarterly and annual compound growth rates in a year and in a month, their weighed means and standard deviations

**Where can we find it?** UNSTAT
**ST3-Political stability and absence of violence**

**What is it?**  A measure of the likelihood of political destabilization or violence

**How is it measured?**  Measured by looking at a list of individual variables from different data sources such as armed conflict, violent demonstrations, social unrest and international tensions ...

**Where can we find it?**  World Bank
ST4-Per capita food production variability

**What is it?** A measure of the variation in per capita food production

**How is it measured?** This indicator compares the variations of the per capita food production across countries and time.

**Where can we find it?** FAOSTAT
ST5-Per capita food supply variability

**What is it?**
Corresponds to the variability in the food supply expressed in kcal/capita/day.

**How is it measured?**
Represented as the standard deviation over the previous five years per capita food supply.

**Where can we find it?**
FAOSTAT
On the donut:

- Stability
- Availability
- Utilization
- Access

Core

NB: When the recent performance < 2010 performance → doesn’t show on Excel
Thank You!