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

UN House – 19-22 August 2019

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Economic and Social Commission for Western Asia

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Overview of the indicators

Indicators

1-DEFINITION

2-METHOD OF MEASUREMENT

3-DATA SOURCE

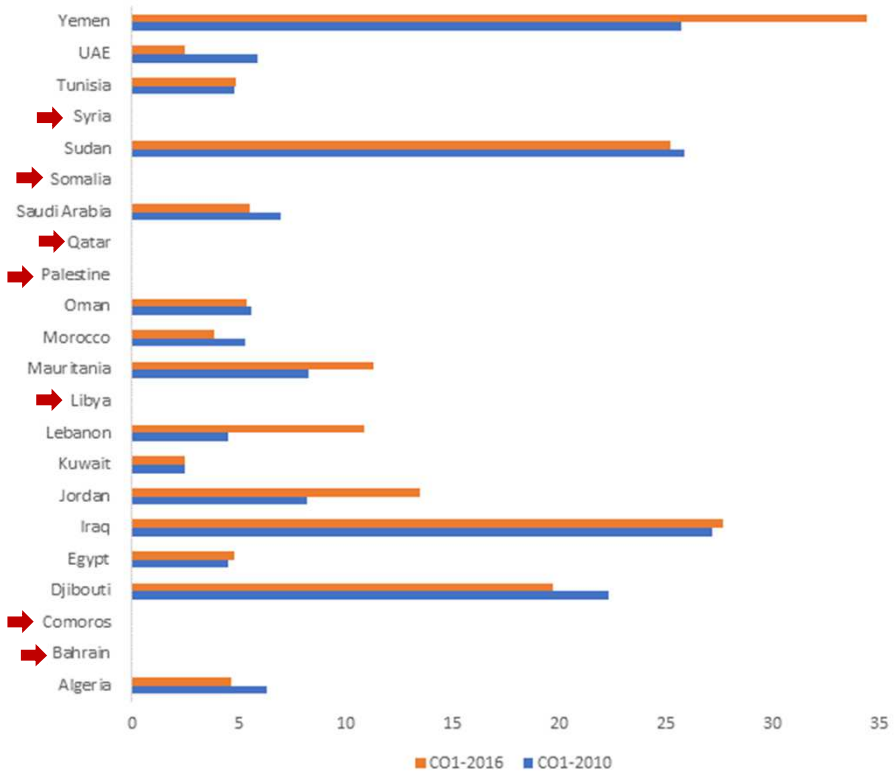
4-COUNTRY PROGRESS / MISSING DATA

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

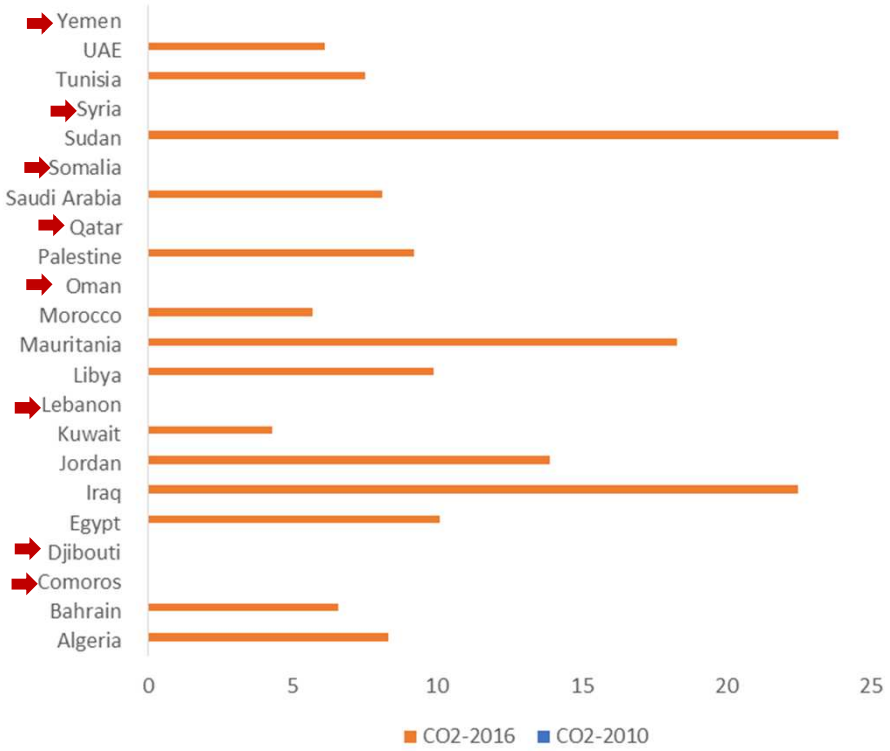


CO2- Prevalence of severe food insecurity (FIES) (%)

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



CO3- Prevalence of obesity in the adult population (%)

What is it?

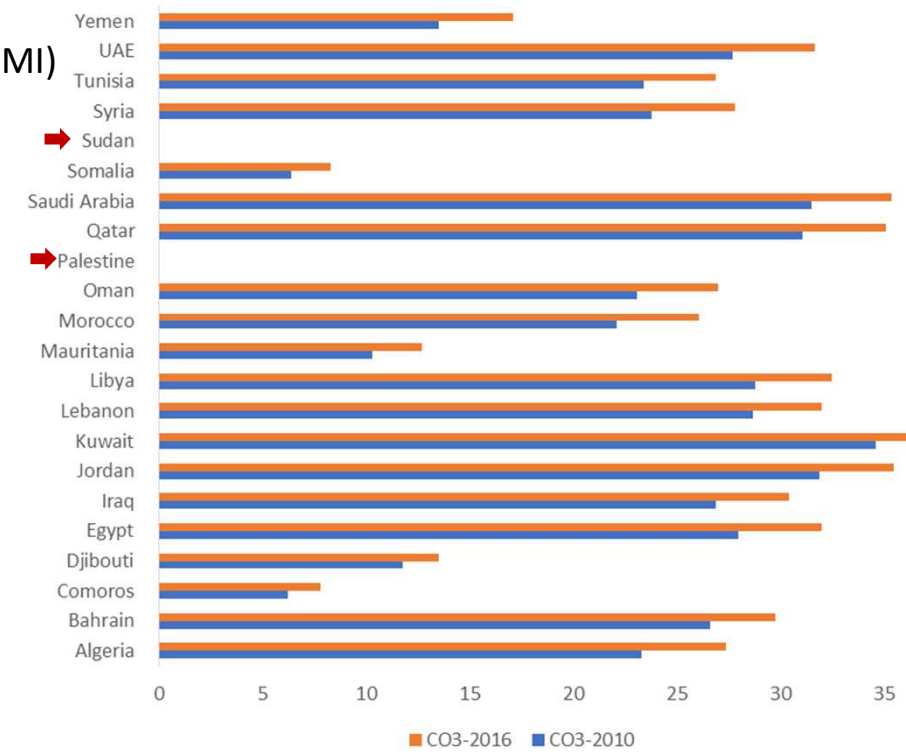
A measure of the prevalence of excess weight in the population.
Obesity is defined as having a Body Mass Index (BMI) **equal or greater than 30**

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

2

What is it?

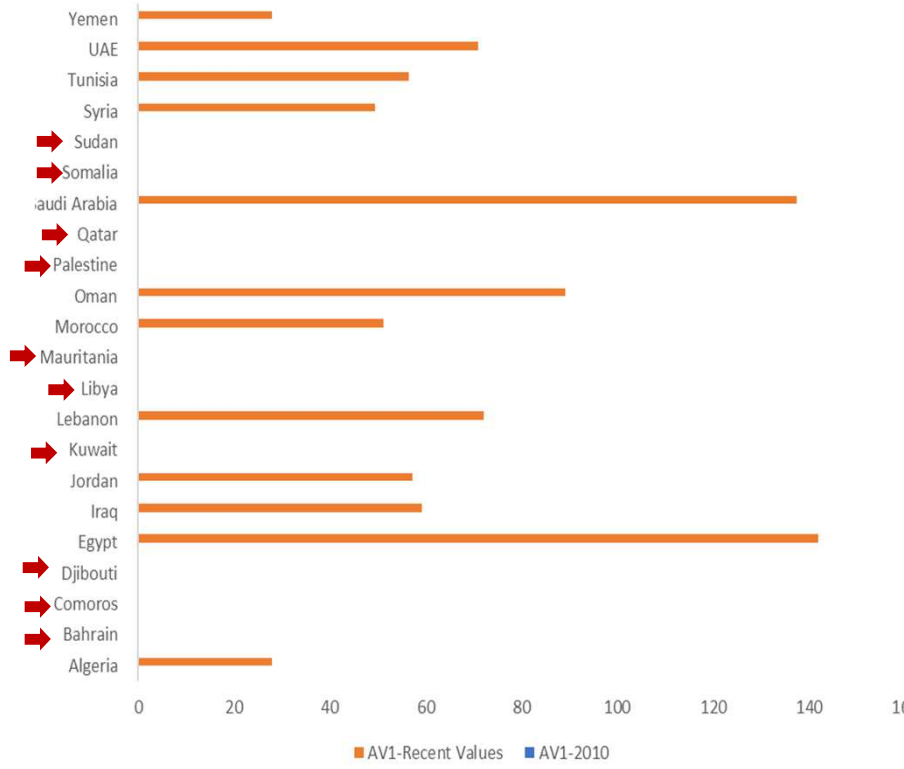
Assesses the difference between the potential and actual yield.
It was developed for the specific purpose of this monitoring framework

How is it measured?

X=100∗ $Achieved\ yield\ /\ Potentially\ achievable\ yield$

Where can we find it?

Muller et al, 2012
&
FAOSTAT



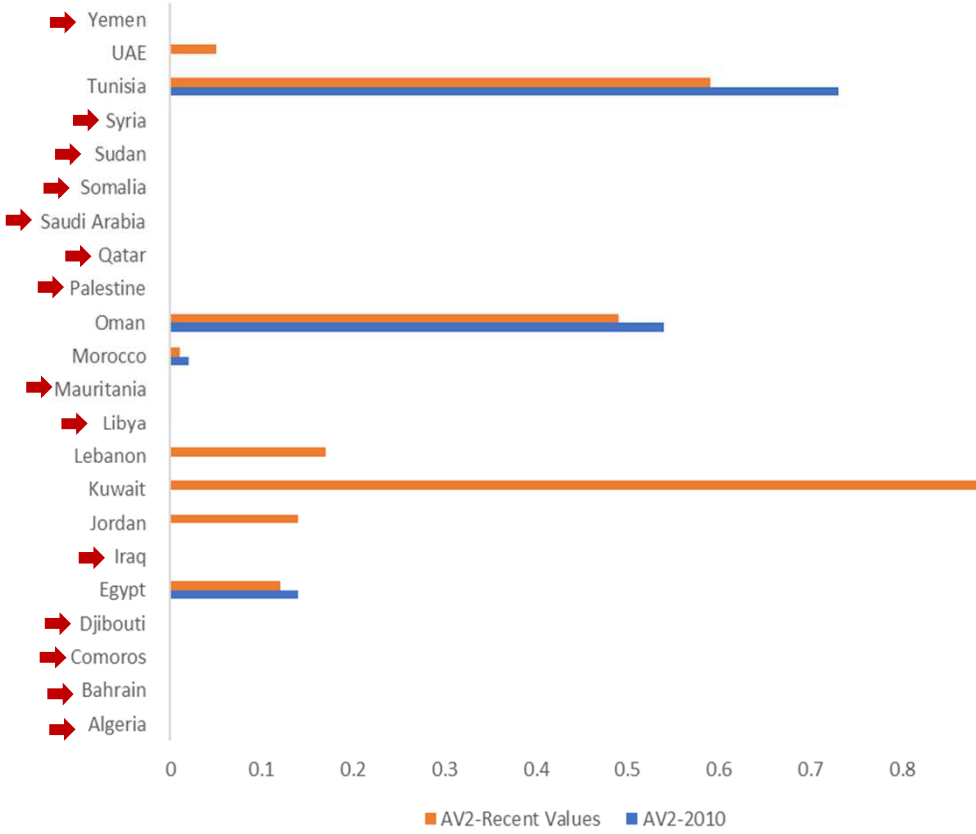
AV2- The agriculture orientation index for government expenditures (AOI)

2

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)

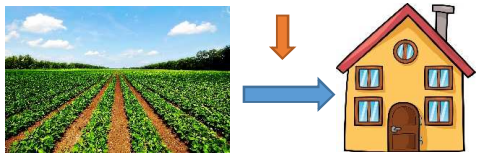
What is it? Estimate the food produced but which does not reach retailers and/or consumers.

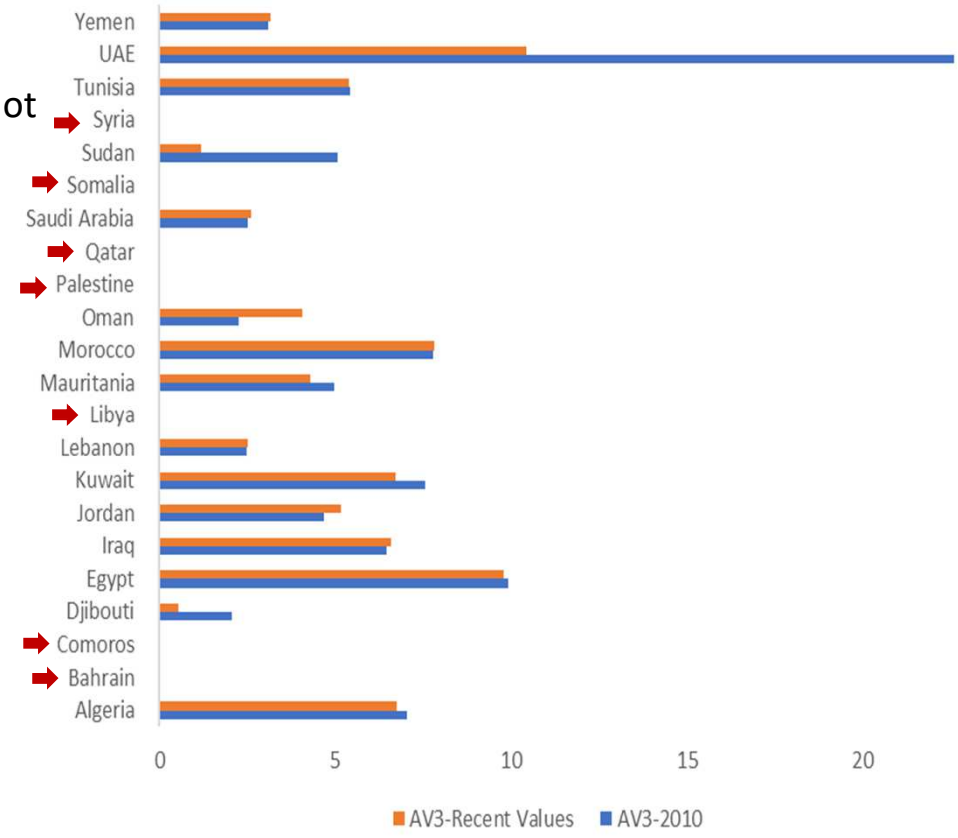
How is it measured?

X = 100 * Losses / Available food

Available food = Imports + Production - Exports

Where can we find it? FAOSTAT





AV4- Average dietary energy supply adequacy (ADESA)

What is it?

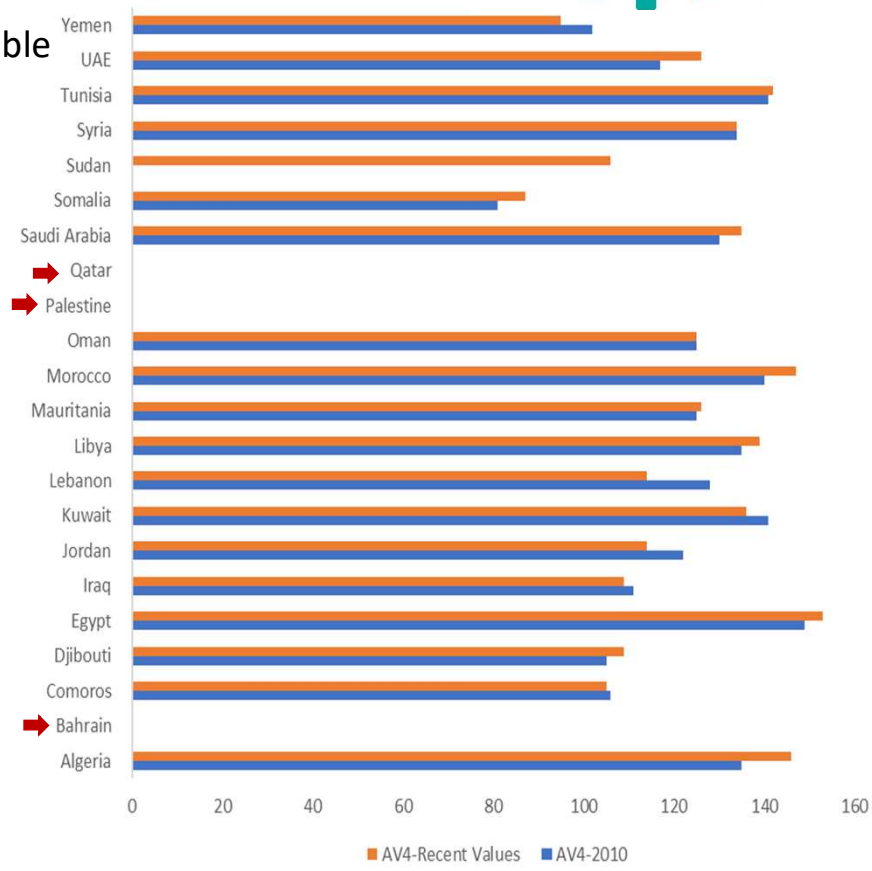
Estimates the amount of calories from food available for human consumption

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.

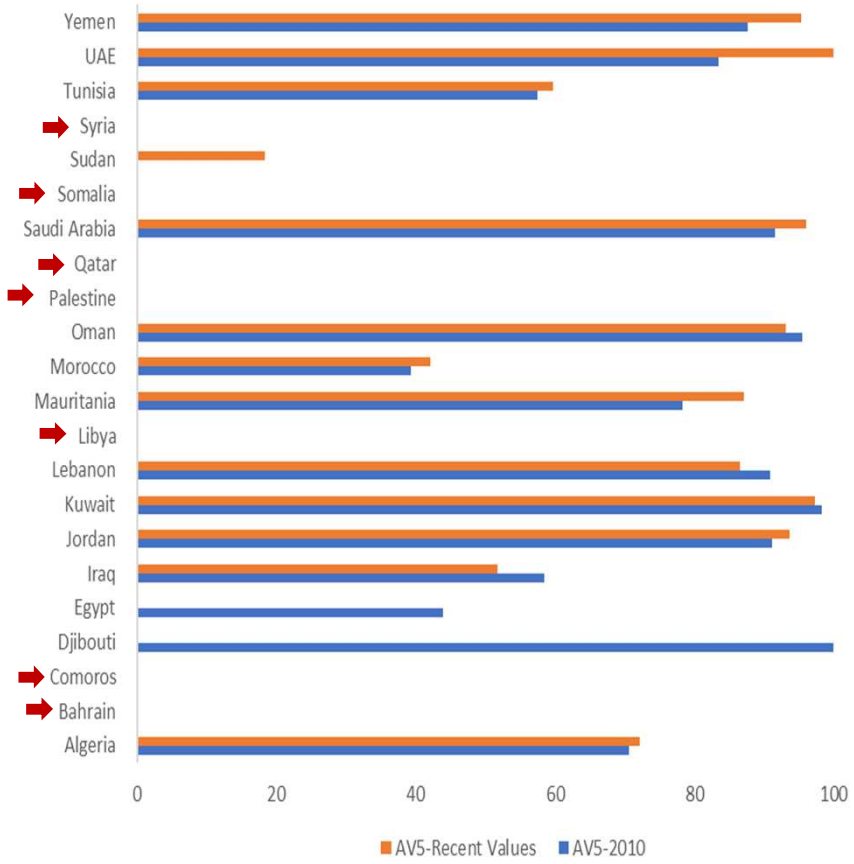
How is it measured?

Calculated on the basis of three year averages and computed as:

(Cereal imports - cereal exports) / (cereal production + cereal imports - cereal exports) * 100

Where can we find it?

FAOSTAT



AV6- Share of water resources used in agriculture, out of total renewable water resources

2

What is it?

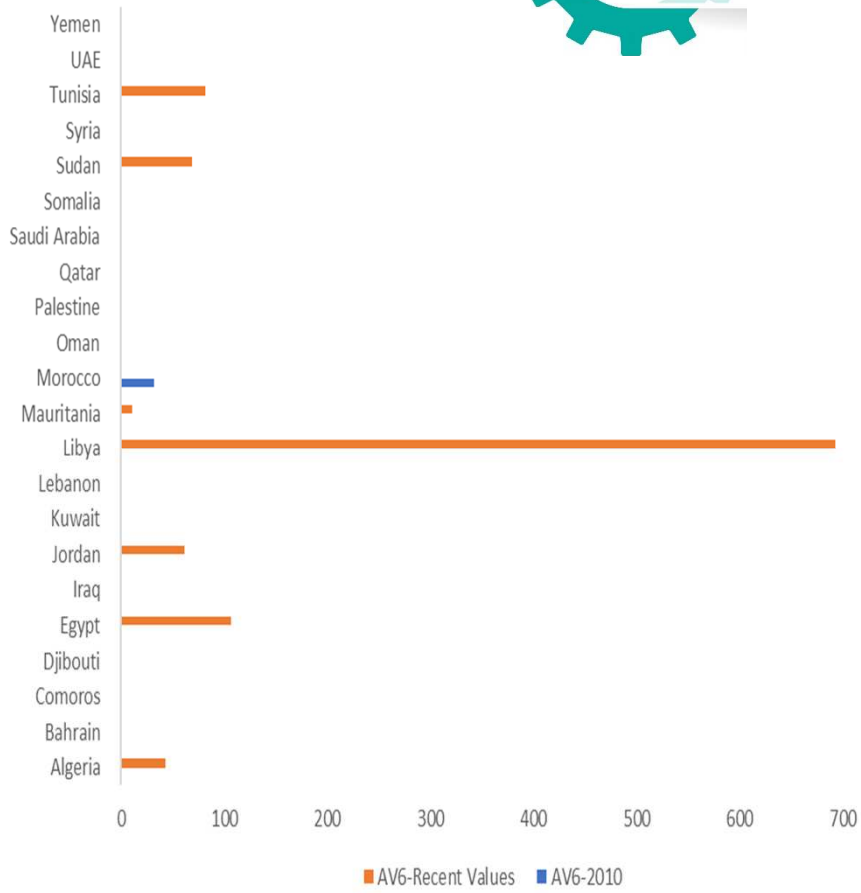
A measure of the share of water used for agricultural production

How is it measured?

X=100∗$Agricultural\ water\ withdrawal\ /\ Total\ renewable\ water\ resources$

Where can we find it?

AQUASTAT



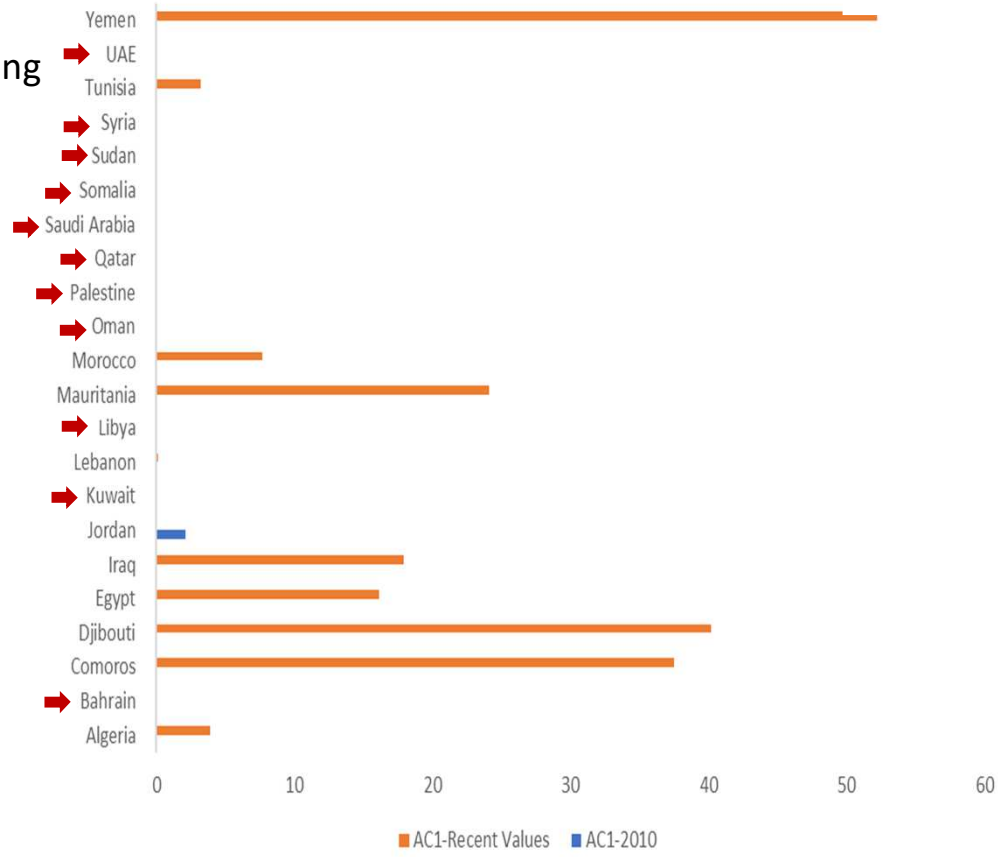
AC1- Poverty headcount (% of population)

3

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 (%)

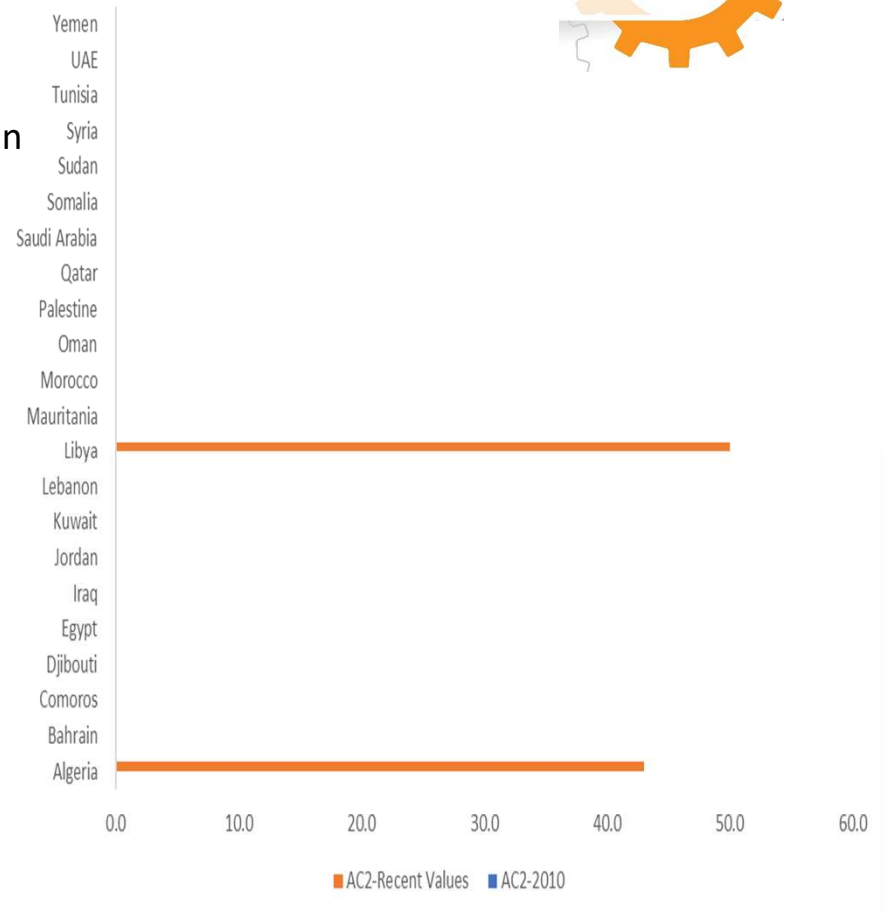
3

What is it? Value of acquired food for household consumption

How is it measured?

$$\frac{Expenditure\ on\ Food}{Total\ Expenditure} \times 100$$

Where can we find it? FAO

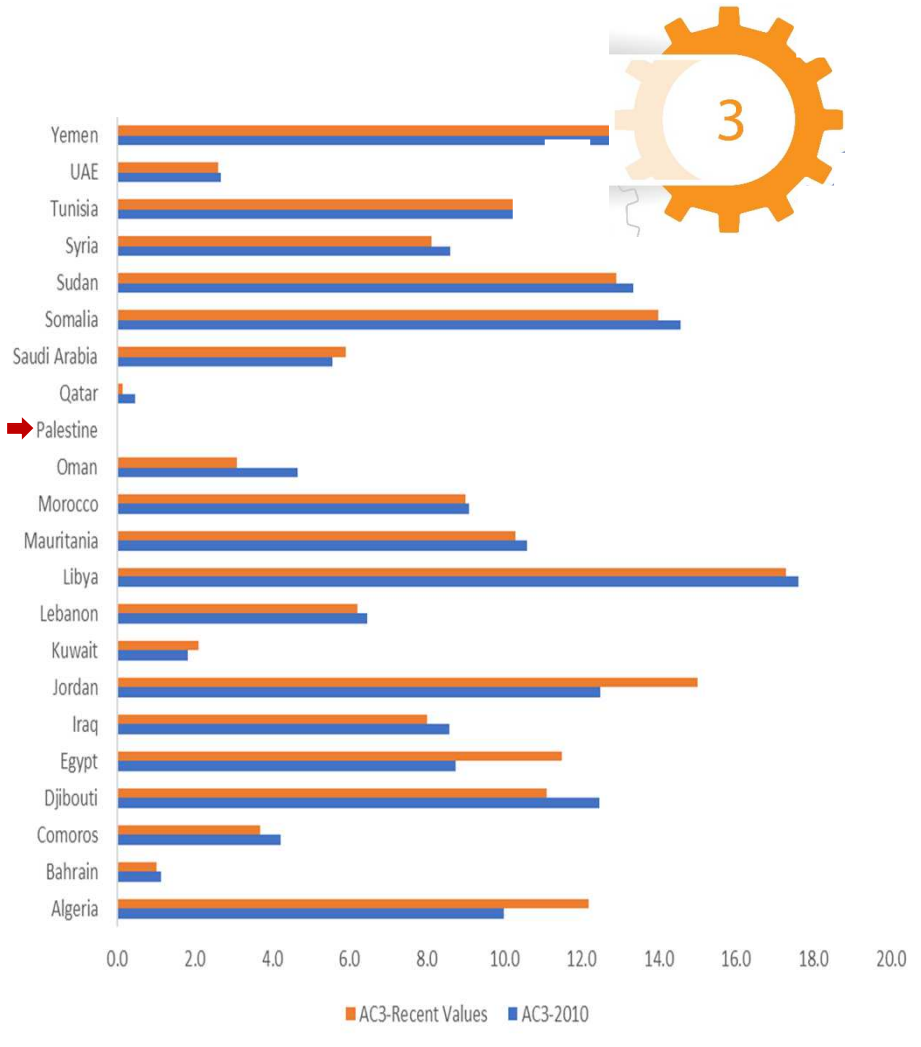


AC3- Unemployment rate (%)

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?

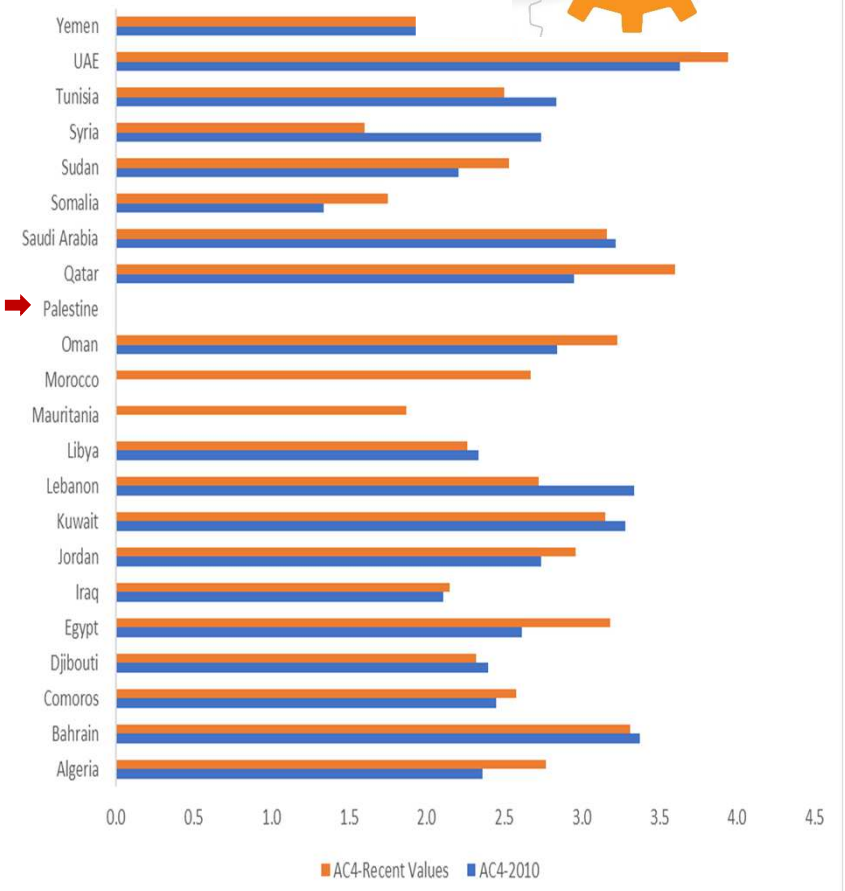
Assessment of the quality of the infrastructure within a country

How is it measured?

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



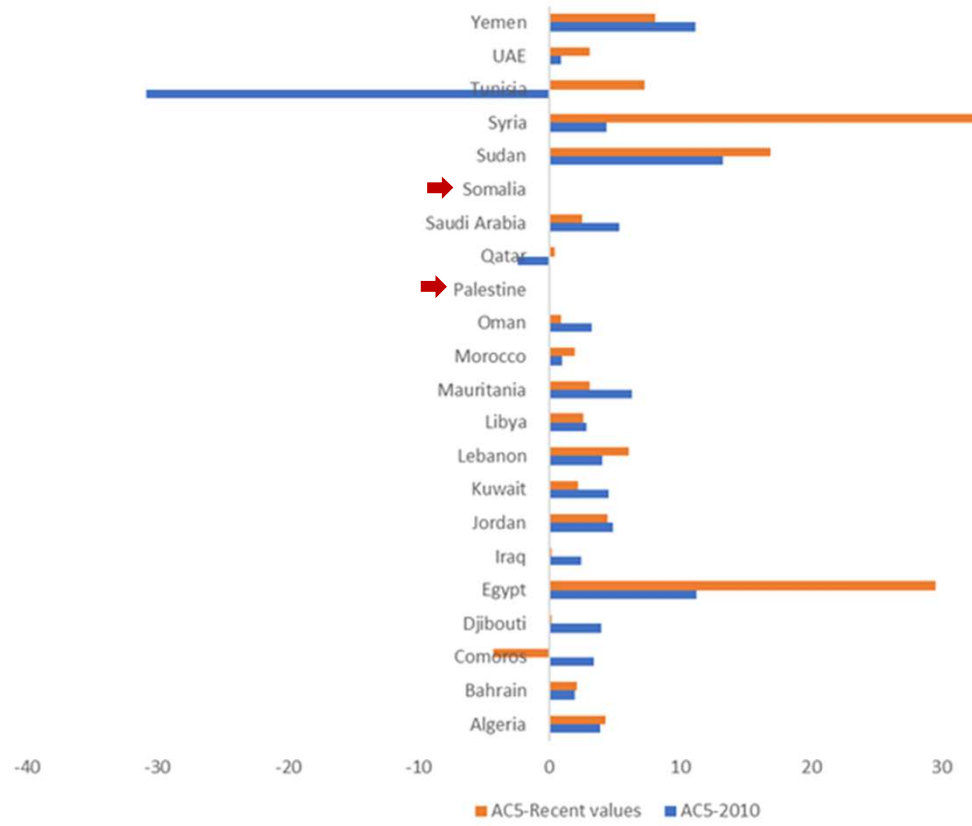
AC5- Inflation:

3

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?

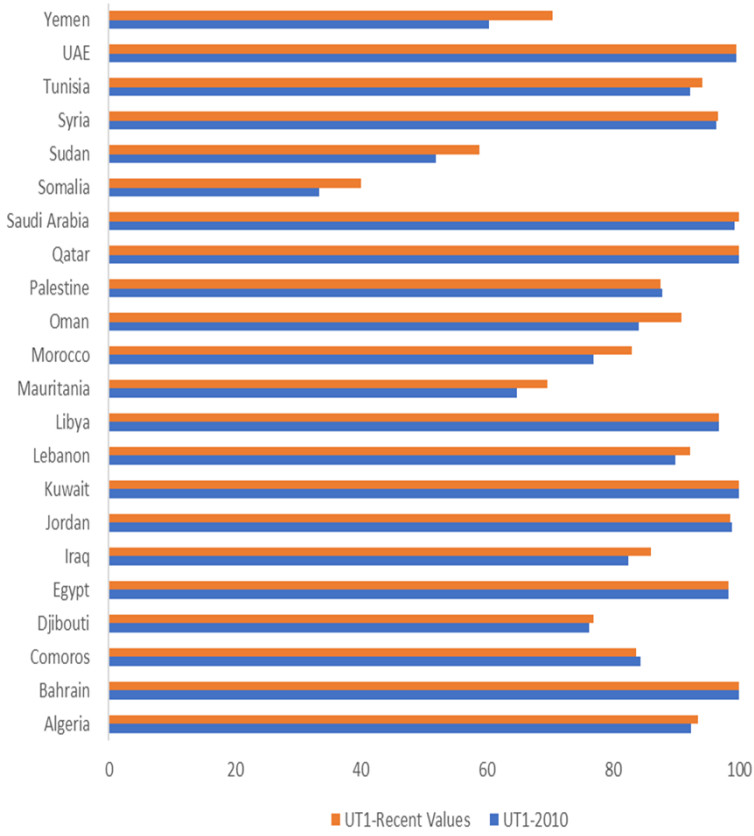
Assessment of the number of people with access to basic drinking water services.

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

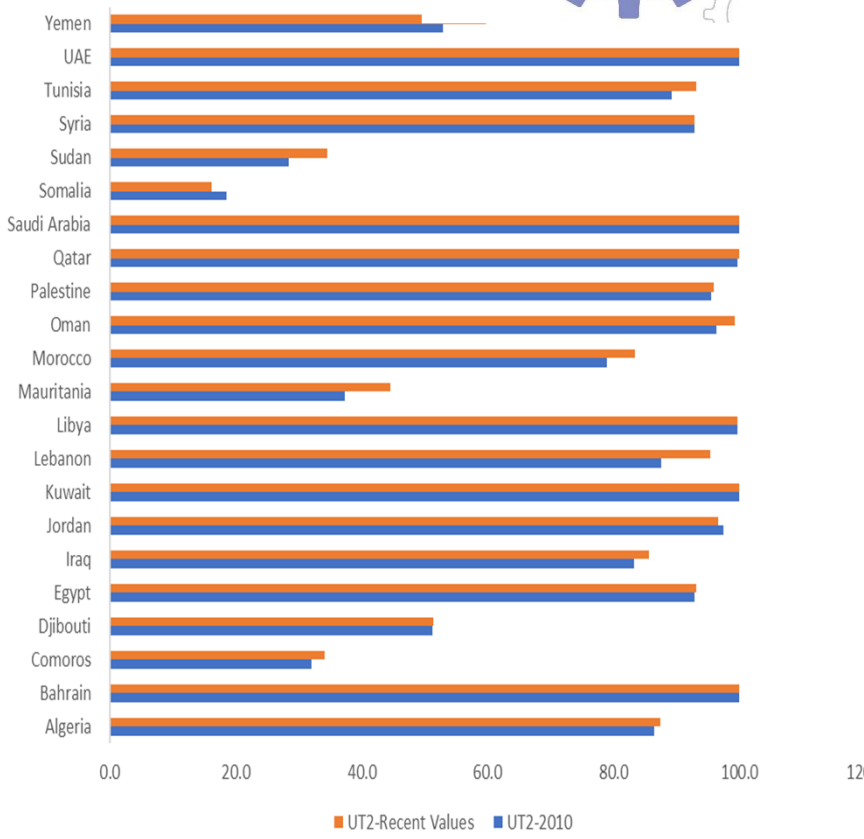
How is it measured?

Data produced by the Joint Monitoring Programme based on various sources and surveys.

The information is collected from households during interviews conducted by national statistical offices

Where can we find it?

FAOSTAT



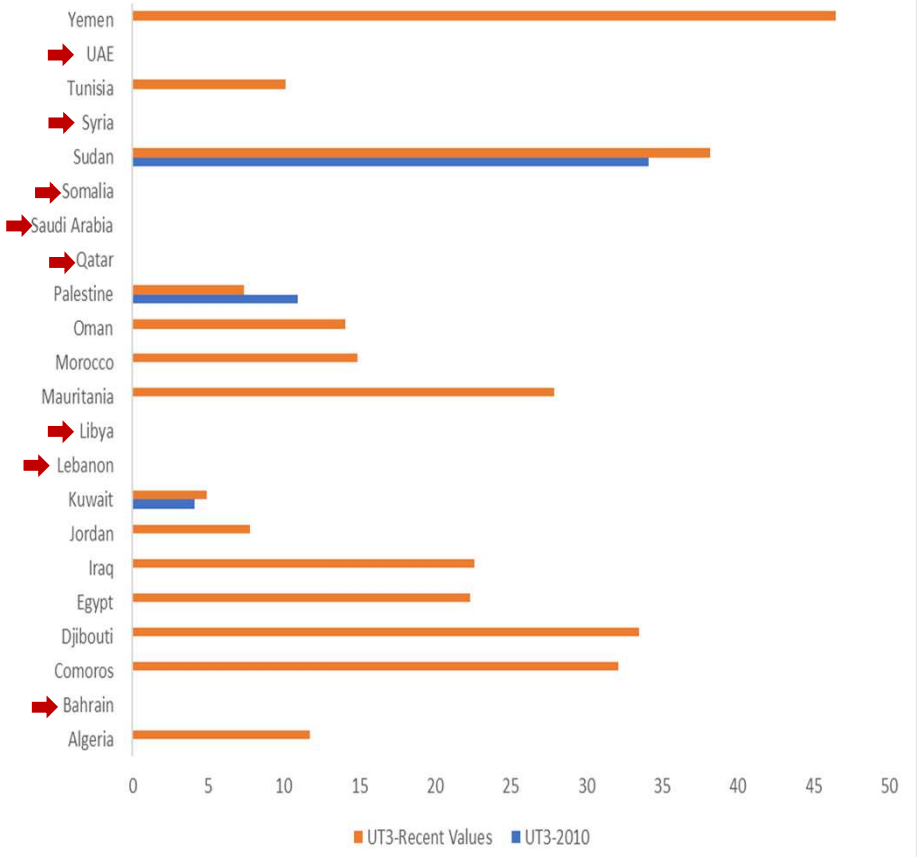
UT3- Percentage of children under 5 years of age affected by stunting (%)

4

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

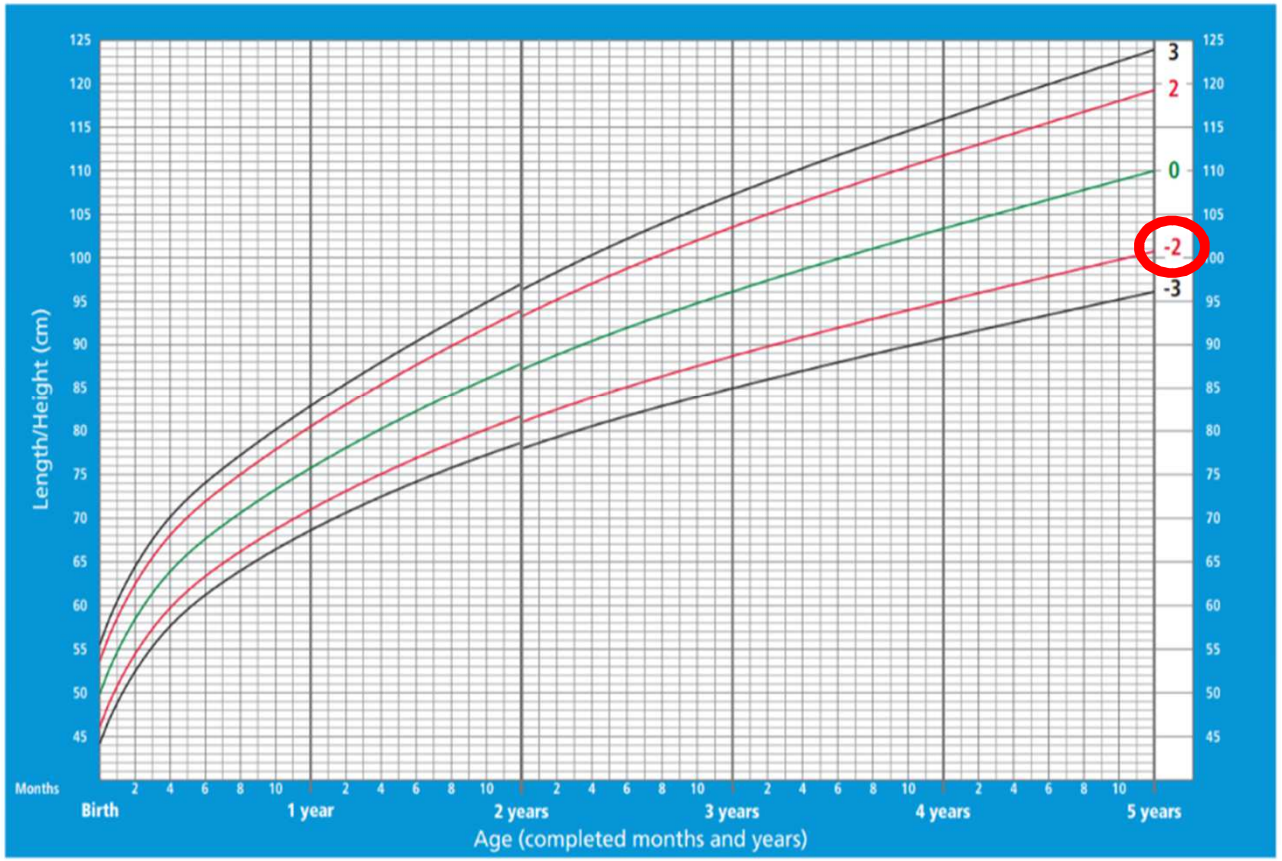
Where can we find it? FAOSTAT



Length/height-for-age BOYS

Birth to 5 years (z-scores)

World Health Organization



WHO Child Growth Standards

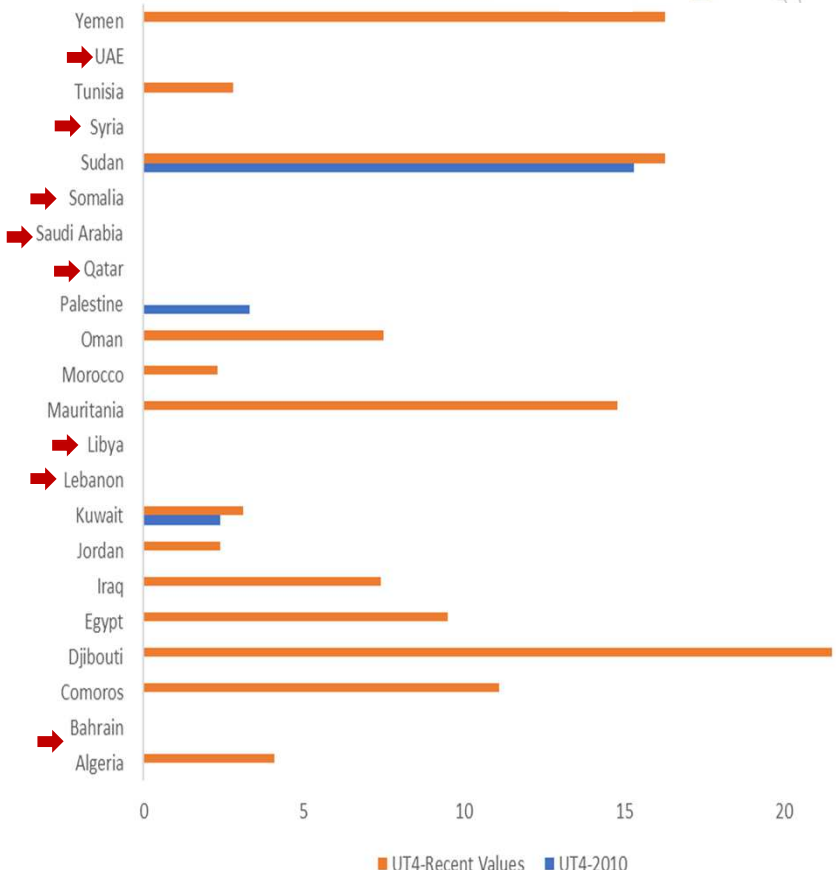
UT4- Percentage of children under 5 years of age affected by wasting (%)

4

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



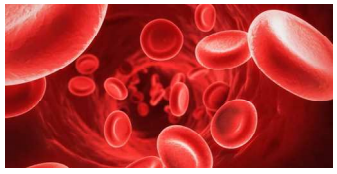
UT5-Prevalence of anemia among women of reproductive age (15-49 years) (%)

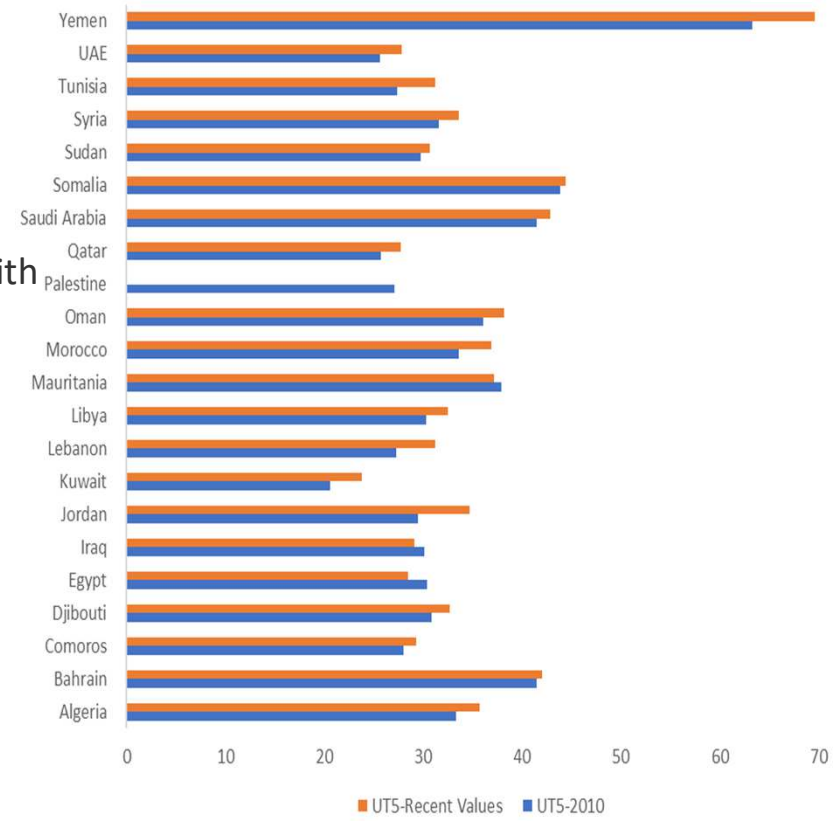
4

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





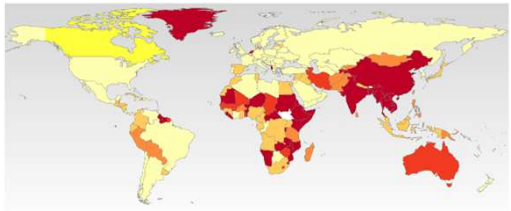
ST1-Climate change vulnerability index

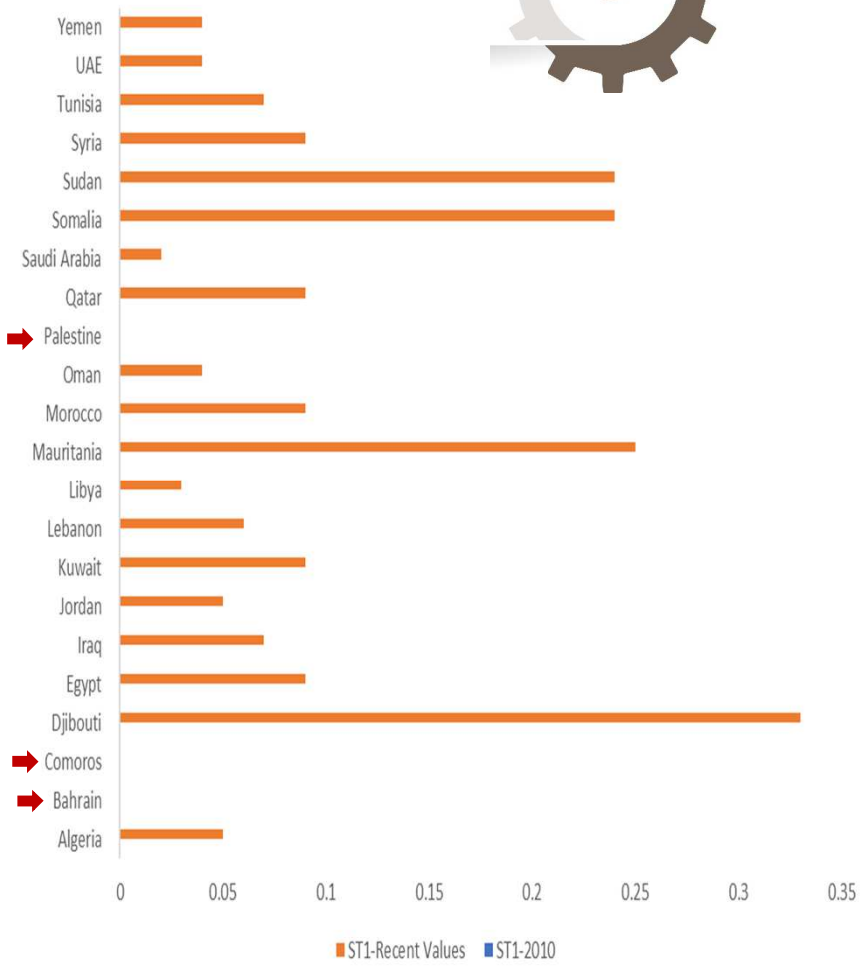
5

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





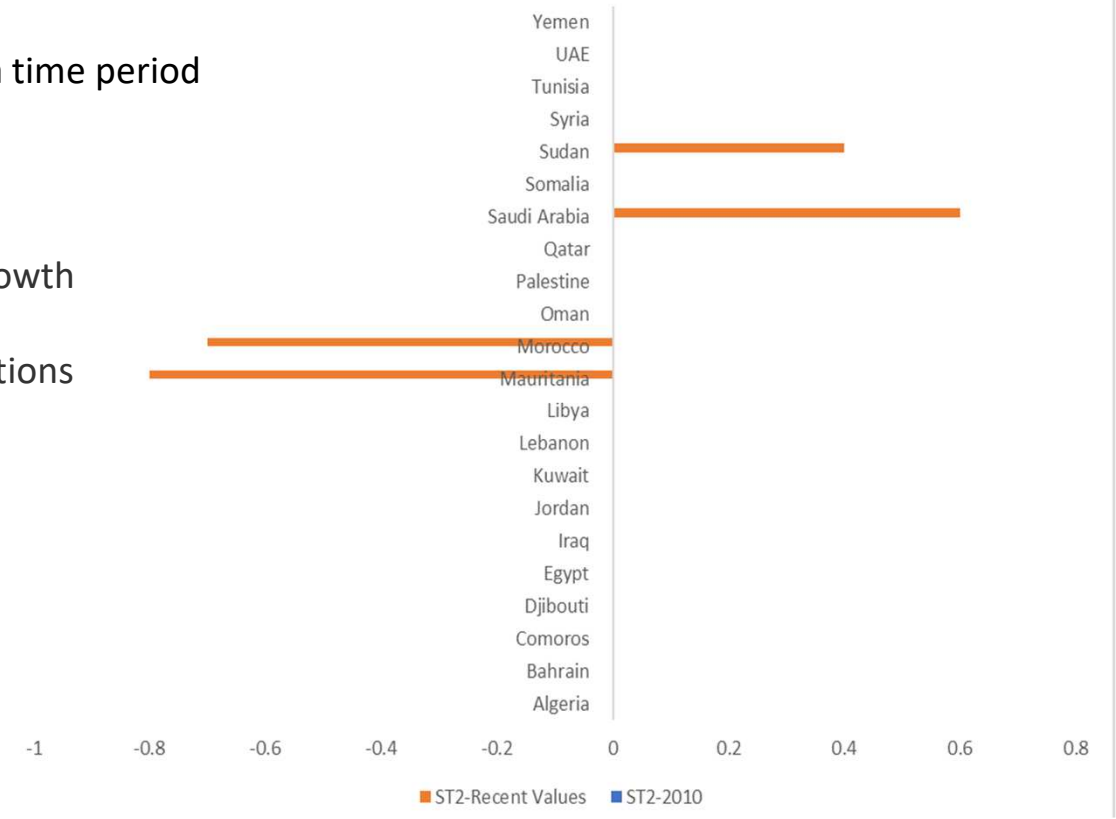
ST2-Food Price anomalies

5

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



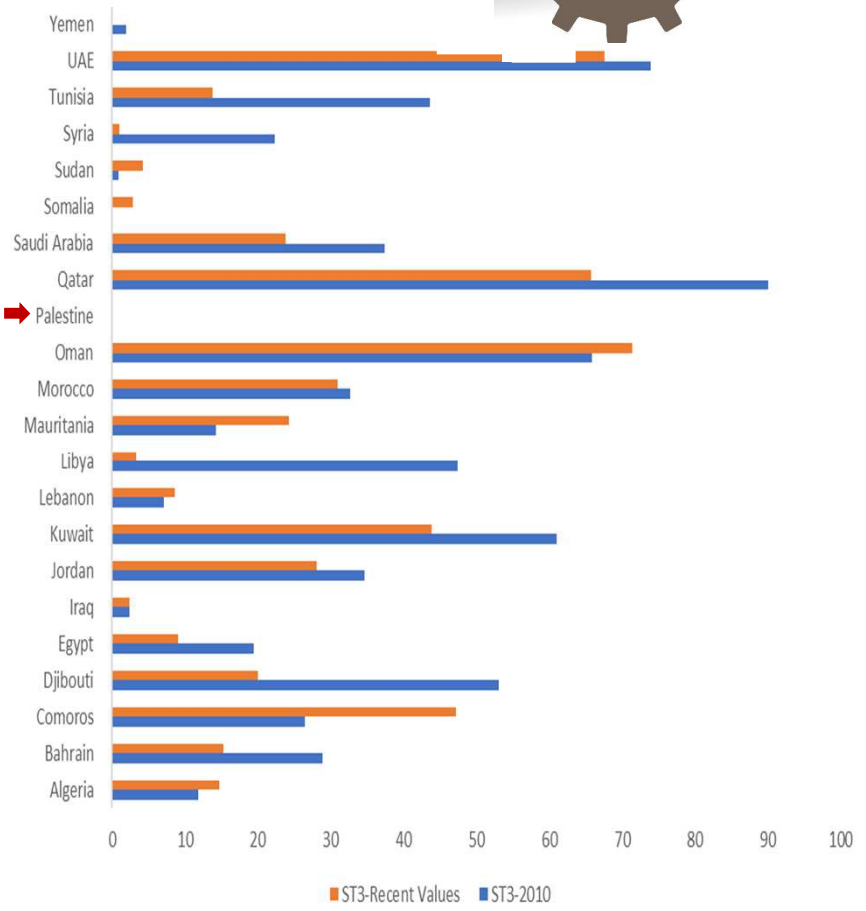
ST3-Political stability and absence of violence

5

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 source such as armed conflict, violent demonstrations, social unrest and international tensions …

Where can we find it? World Bank



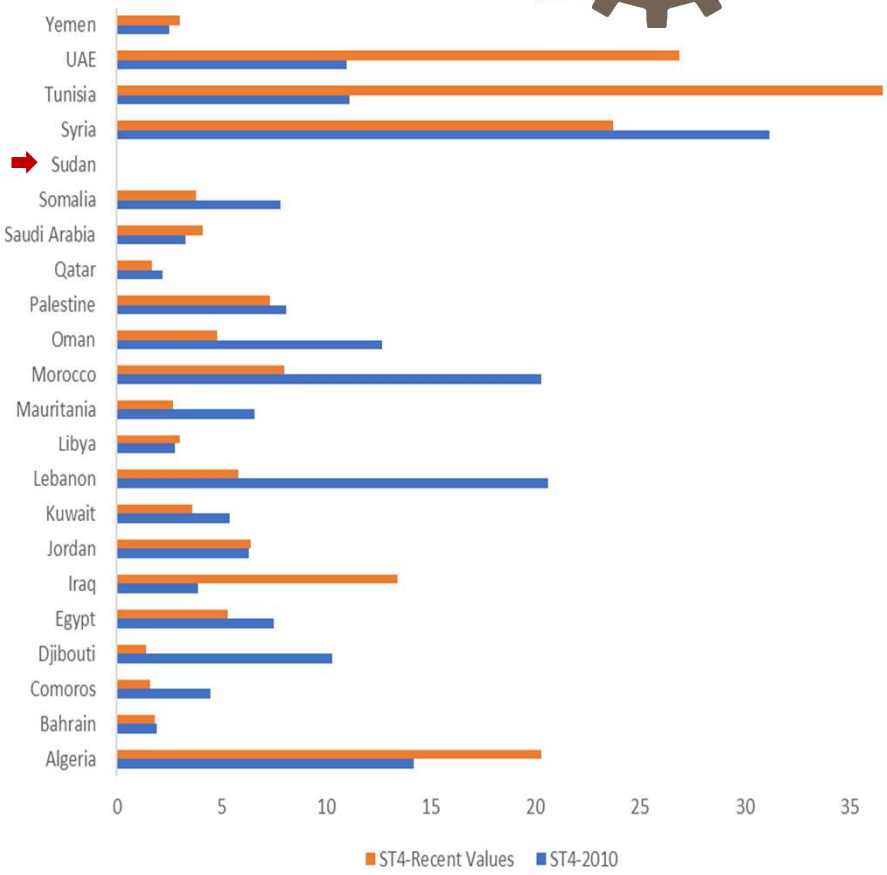
ST4-Per capita food production variability

5

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



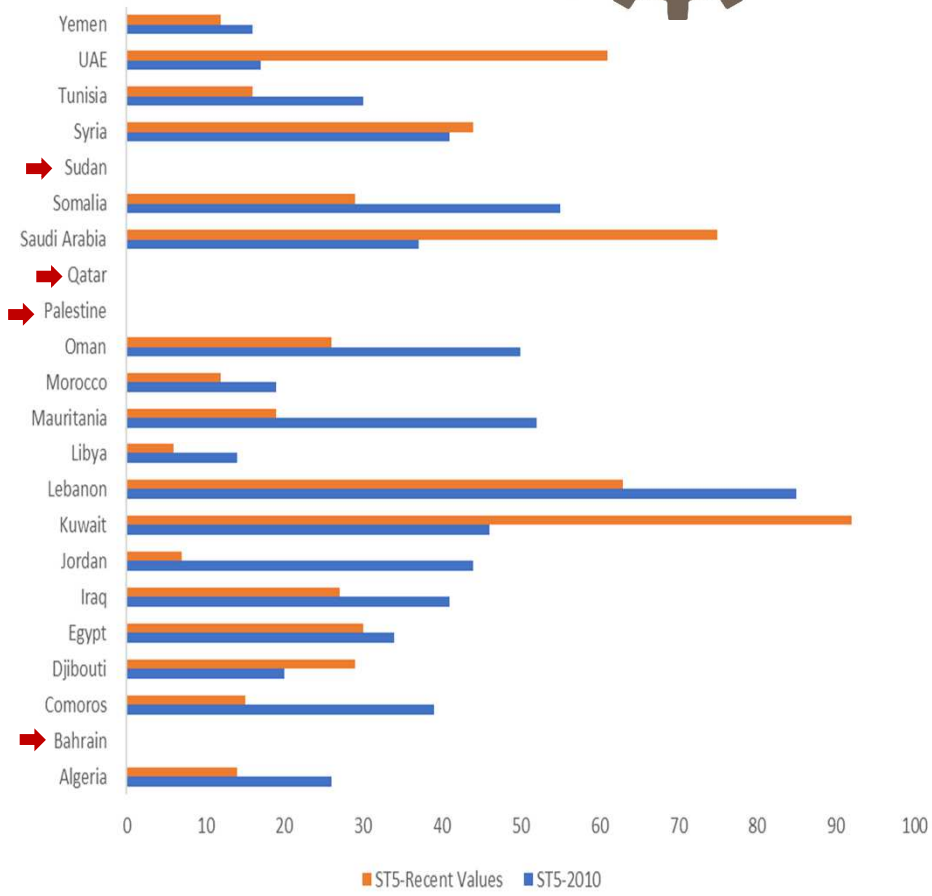
ST5-Per capita food supply variability

5

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



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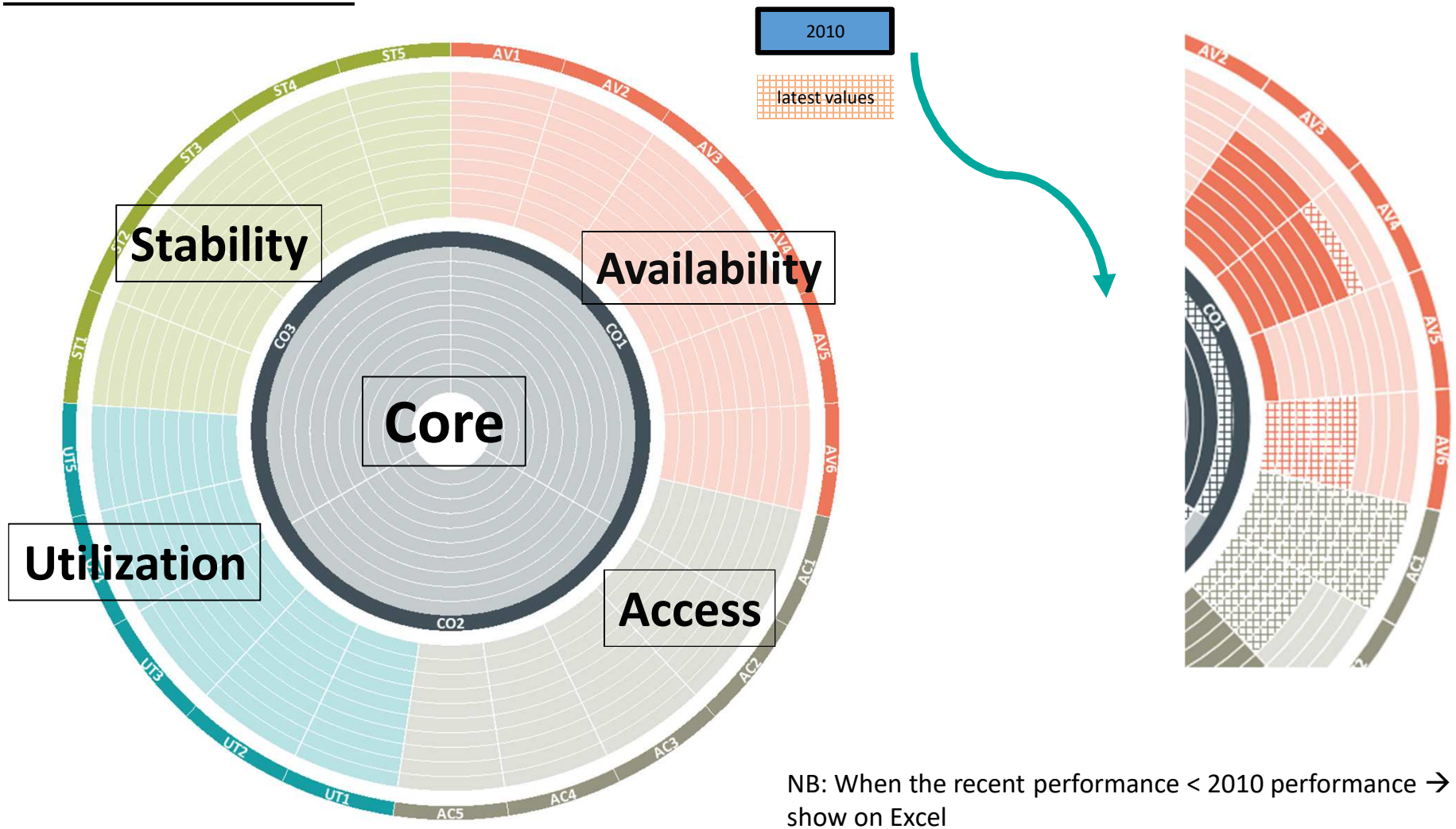

NB: When the recent performance < 2010 performance → doesn't show on Excel

Thank You !

Economic and Social Commission for Western Asia

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