



Defining and Measuring Employment

Mostafa Mohamed, ITCILO Programme Officer
Labour Statistics & Analysis Portfolio



International **Training** Centre
Centre international de **formation**
Centro Internacional de **Formación**

Scope

- Labour statistics: An overview
- Key labour market definitions & indicators (Work, employment, unemployment, and potential labour force)
- Sustainable Development Goals (SDGs) indicators framework
- Labour underutilization
- Labour market information systems (LMIS)

But first, an Ice Breaker!



Go to [slido.com](https://www.slido.com) and access the event #5099946 or simply use your camera to scan the QR code coming up now!

Labour statistics: An overview

What are labour statistics?

“Statistics dealing with **productive activities** and their characteristics, from many perspectives and covering **many dimensions.**”



Labour statistics are only a part of official national statistics

The national statistical system includes:

- Labour statistics
- Education statistics
- National accounts
- Demographic statistics
- Industrial production statistics
- Agricultural statistics
- Health statistics

Labour statistics concepts & methods **need to be related & consistent with other official statistics**

Labour statistics deal with **productive activities**

- From two perspectives: demand and supply sides

Statistics about labour demand

Enterprises
Vacancies
Jobs

Statistics about labour supply

Employed
Unemployed
Not in labour force

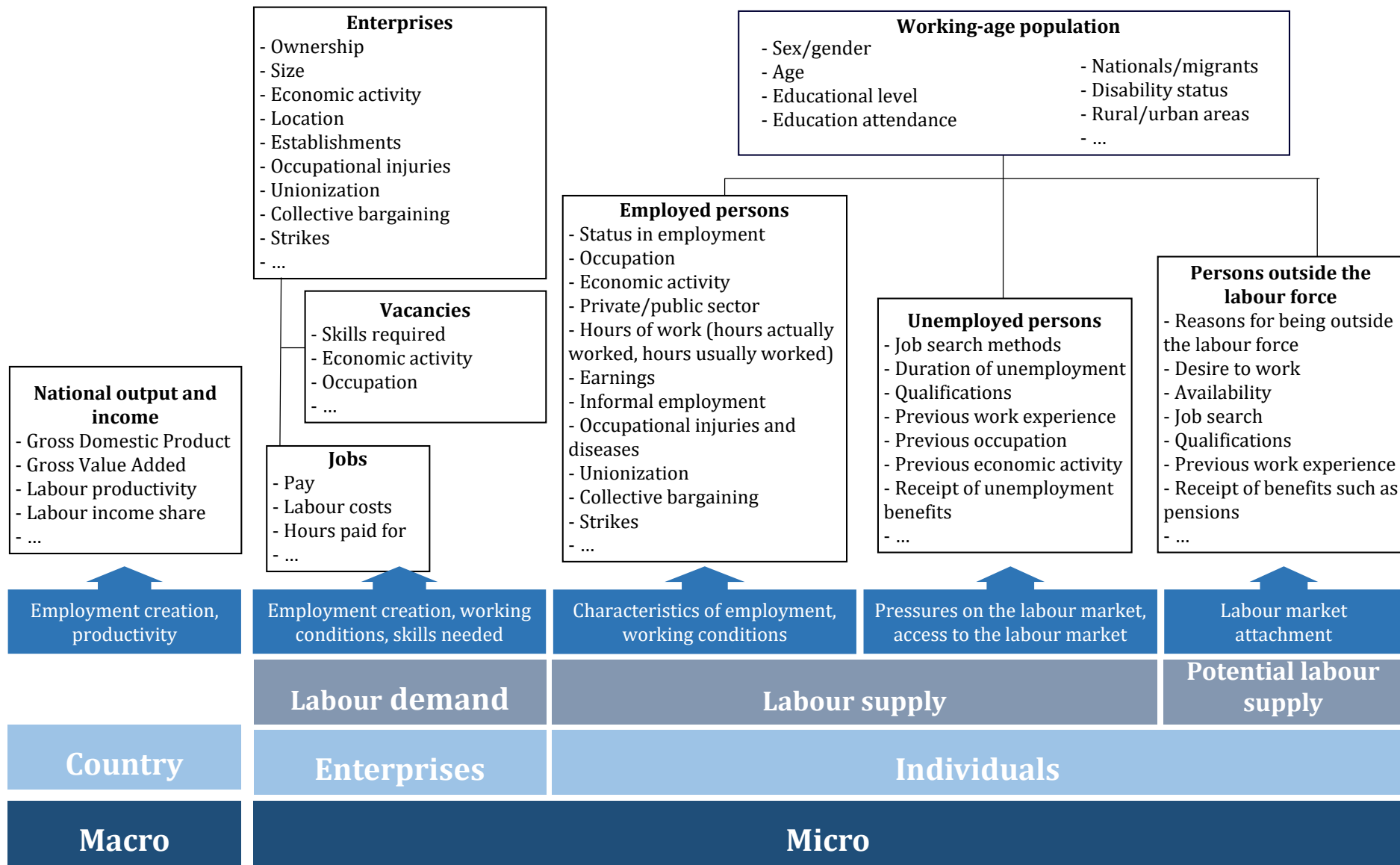
- Including all forms of work

Statistics about work for pay/profit

Employed

Statistics about work not for pay/profit

Own-use production work
Unpaid trainee work
Volunteer work



Uses of labour statistics:

- Macro-economic monitoring;
- Identification of key socio-economic issues;
- Formulation and implementation of policies and programmes;
- Evaluation of policies and programmes;
- Monitoring of progress towards attainment of goals (i.e. SDGs).



Main sources of labour statistics

- Population and housing census
- Household surveys
 - Labour force surveys
 - Household income and expenditure surveys
 - Etc.
- Establishment censuses & surveys
- Administrative records
 - Unique objectives; different coverage, periodicity, measurement units, etc.

Main sources of labour statistics

	Strengths	Limitations
Population censuses	<ul style="list-style-type: none"> - Comprehensive enumeration, coverage of the whole population - Allows for the production of reliable information on small groups 	<ul style="list-style-type: none"> - Very costly - Short questionnaires prevent from getting detailed information on specific topics
Household surveys	<ul style="list-style-type: none"> - Comprehensive coverage of population - Detailed questioning permits precise measurement of statistical concepts for short reference periods 	<ul style="list-style-type: none"> - Sampling prevents reliable estimates for small groups - Lower quality of data on “sensitive”, income-, and employer-related topics - Cannot provide estimates of vacancies, training needs, etc.
Establishment surveys	<ul style="list-style-type: none"> - Comprehensive coverage of larger businesses - Payroll records provide consistent and reliable data for income and employment by industry - Only source for data on vacancies, training needs, etc. 	<ul style="list-style-type: none"> - Typically poor coverage of very small and unregistered businesses - Requires constant updating of registers (births and deaths) - Difficult identification of small or informal units - High non-response rates - Sampling prevents reliable estimates for small groups - Data items are limited by the information in establishment’s registers
Administrative records	<ul style="list-style-type: none"> - Total count allows maximum detail - Inexpensive to compile statistics 	<ul style="list-style-type: none"> - Often poor coverage - Often not up to date - Data quality may be questionable

Main sources of labour statistics

But this requires **coherence** between sources

- Concepts
- Definitions
- Classifications
- Reference periods
- Methods

Labour statistics framework
and standards

International standards on labour statistics

Two main types of international standards on labour statistics:

- Conventions and Recommendations adopted by the International Labour Conference (ILC)
- Resolutions and Guidelines adopted by the **International Conference of Labour Statisticians (ICLS)**



Key labour market definitions & indicators

Defining work

*“Any activity performed by persons of any sex and age to **produce goods or to provide services** for use by others or for own use irrespective of legality, context, and personal status”*

(19th ICLS, 2013)



Forms of work: Employment

(i.e. ALL activities to produce goods and services)

For own final use
(by households)

For use by others (i.e. other units)

For remuneration (i.e. for pay or profit)

Without remuneration

**Own-use
production work**

Services Goods



Employment
(work for pay or profit)

Services Goods



**Unpaid
trainee
work**

S G



**Other work
activities**
(e.g. unpaid
compulsory
work)

S G



**Volunteer
work**

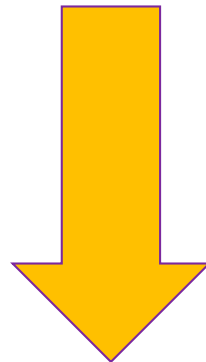
G S



ALL who work for pay

ALL who work for profit

- Employers
- Own account workers in market units
- Contributing family workers
- Members of market producer cooperatives



**Persons in employment
(for pay / profit)**

ALL OTHERS > age, whether or not:

- Provide services for own final use
- Volunteer providing services for households
- Work unpaid for training
- Produce goods for own final use
- Volunteer through / for organizations
- Volunteer producing goods for households



Not employed (for pay/profit)



Unemployed
(seeking + available
for work for pay/profit)

**Outside the
labour force**

Underutilized labour
(with unmet need for employment (for pay/profit))

Labour force

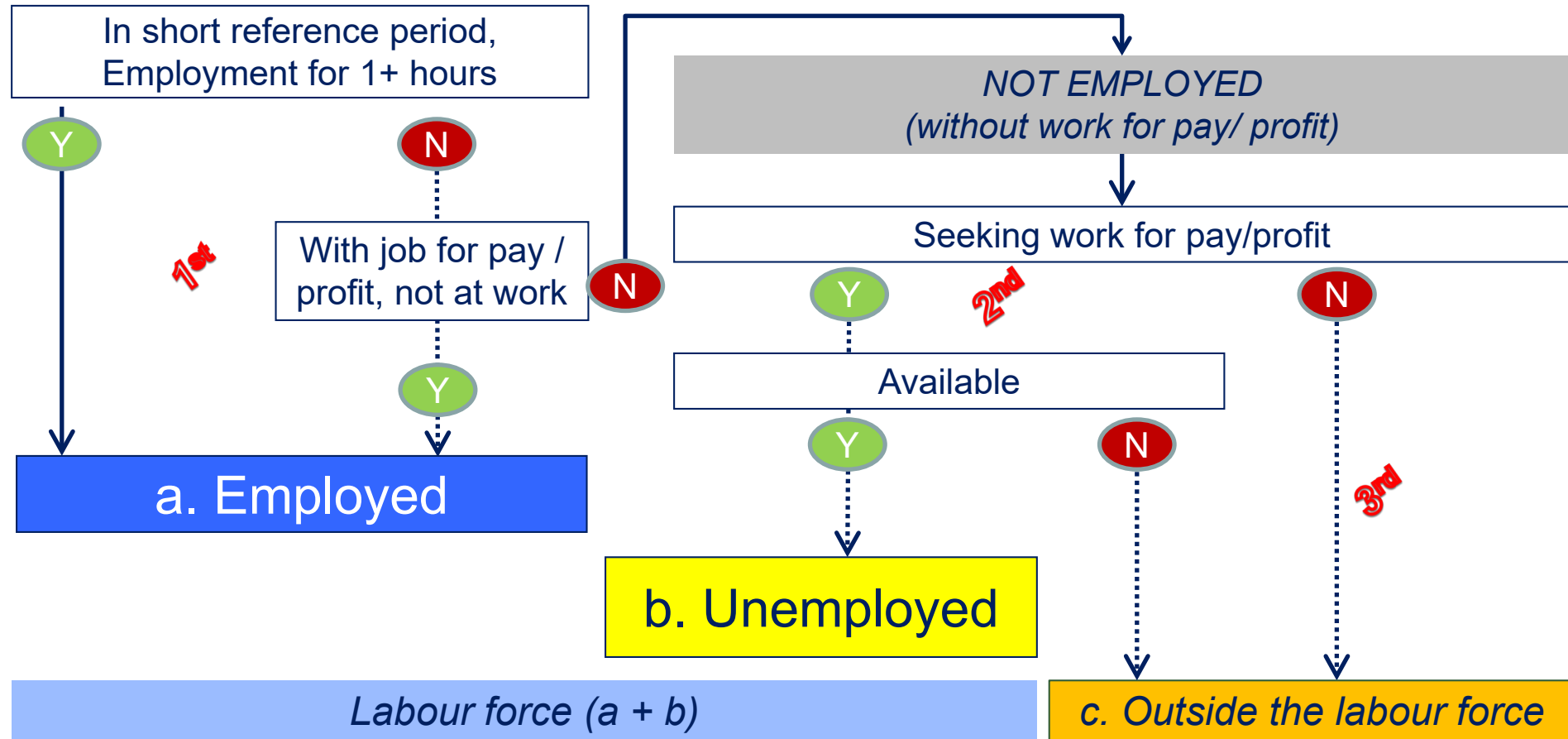
“Refers to the current supply of labour for the production of goods & services **in exchange for pay or profit**”

Labour force = Employed + Unemployed

(19th ICLS, 2013)

- Focuses on work transacted for pay or profit
- Provides snap-shot picture of the labour market at a given point in time (reference period)

Labour force classification



Employment

“**Employment** is work performed for others in exchange for pay or profit generally in monetary terms, but can also be in kind”

(19th International Conference of Labour Statisticians)



Employment encompasses different types of individuals:

- Employees
- Self-employed
- Casual workers
- Contributing family workers
- Assisting family members
- Etc.



Employment to population ratio

- The **employment-to-population ratio** is “*the proportion of a country’s working- age population that is employed.*”
- Employment comprises **all persons of working age who during a specified brief period** were in the following categories:
 - **Paid employment** (whether at work or with a job but not at work); or
 - **Self employment** (whether at work or with an enterprise but not at work).

How do we measure the employment to population ratio?

The employment-to-population ratio is calculated as follows:

$$\text{EPR (\%)} = \frac{\text{Persons employed} \times 100}{\text{Working-age population}}$$

Labour force participation rate

“The proportion of a country’s working-age population that engages actively in the labour market, either by working or looking for work.”

- **Measures the supply of labour available to engage in the production of goods and services**, relative to the population at working age.

Unemployment

The unemployed comprise “all persons of working age” who were:

- a) **Without work during the reference period**, i.e. were not in paid employment or self-employment;
- b) Currently **available for work**, were available for paid employment or self-employment during the reference period; and
- c) **Seeking work**, i.e. had taken specific steps in a specified recent period to seek paid employment or self-employment.”

(ILO)

Unemployment rate

- Focuses on **the current unused supply of labour**
- Emphasis on monitoring labour markets:
 - Captures persons without employment and within the working age population;
 - Signals situations of potential match between available **labour supply** (people) and **available demand** (jobs)
- **Measured only through household surveys**

How do we measure the labour force participation rate?

The unemployment rate is calculated as follows:

$$\text{UR (\%)} = \frac{\text{Persons unemployed} \times 100}{\text{Labour force}}$$

$$\text{UR (\%)} = \frac{\text{Persons unemployed} \times 100}{\text{Persons employed} + \text{persons unemployed}}$$

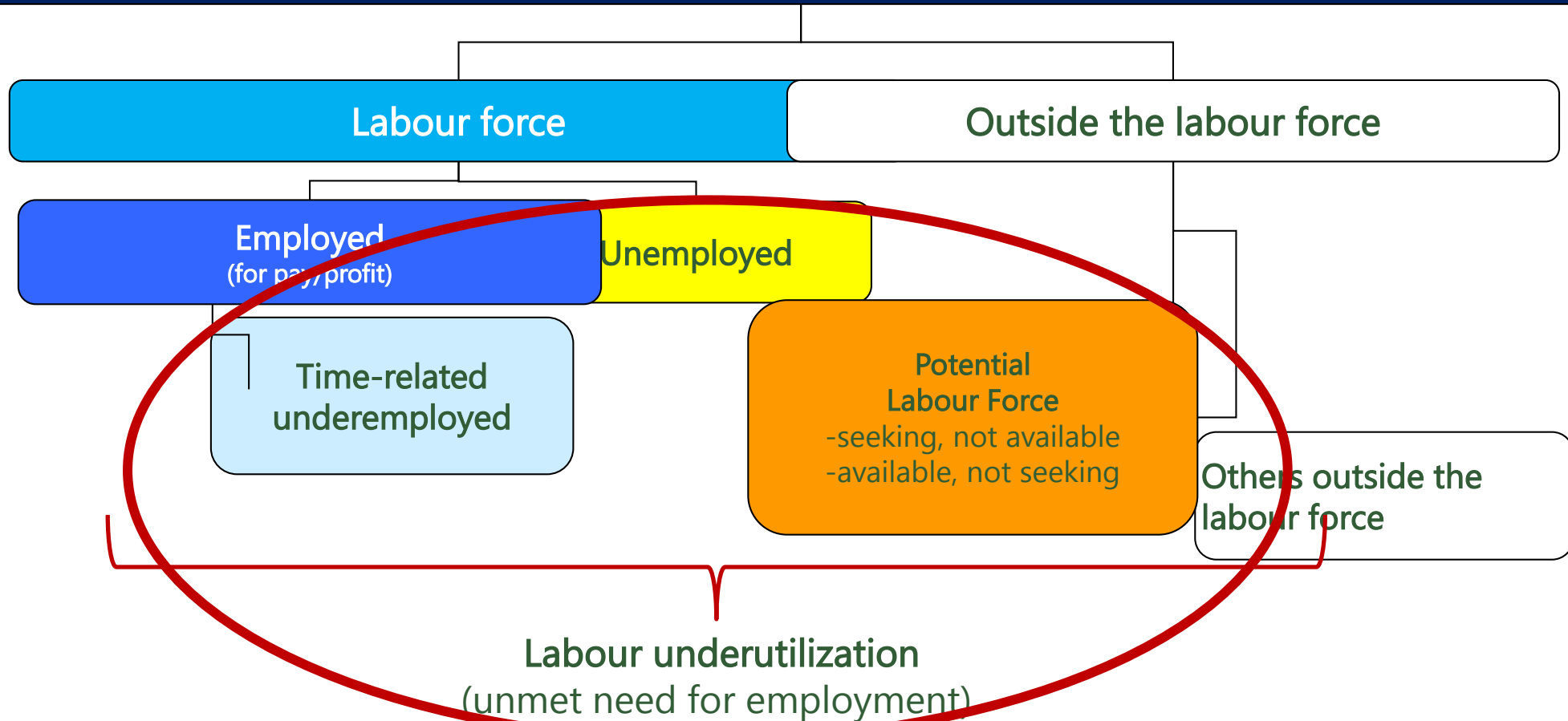
Job Quality remains a major concern for many around the world, unemployment is only the tip of the iceberg!



Labour Underutilization

Employed, unemployed, and potential labour force

Working age population



Labour underutilization

“Labour underutilization refers to mismatches between labour supply and demand, which translate into an unmet need for employment among the population.” (ILO)

- Unemployment rate was typically the only underutilization indicator published and the main focus of the standards;
- Old standards referred to time-related underemployment but not the potential labour force
- **New standards recognise the need to extend the range of indicators while retaining unemployment**

Time-related underemployment

“Reflects a situation when the working time of persons in employment is insufficient in relation to alternative employment situations they are willing and available to engage”

(19th ICLS, 2013)

- **Significant component** of labour underutilization;
- To be disseminated together with unemployment rate;
- **Does not capture other dimensions of underemployment** due to skills mismatches or low remuneration.

How do we measure Time-related underemployment?

The time-related underemployment rate is calculated as follows:

$$\text{TRU (\%)} = \frac{\text{Persons in time-related underemployment}}{\text{Persons employed}} \times 100$$



Potential labour force

*“Sub-groups of **persons outside the labour force with an expressed interest in employment (desire to work)**”*

Relevant in contexts of:

- **Limited labour market access**, job opportunities;
- **Limited channels** to seek employment.

Relevant for groups

- With **other responsibilities** (women, students); Persons in situations that limit their capacity to seek / be available for work.

Population outside the labour force by labour market attachment

- Seeking employment, but not available
- Not seeking employment, but wants and available to work
- Not seeking, Not available but wants employment
- Does not want employment

Based on SAME questions used to identify the unemployed



Labour market attachment

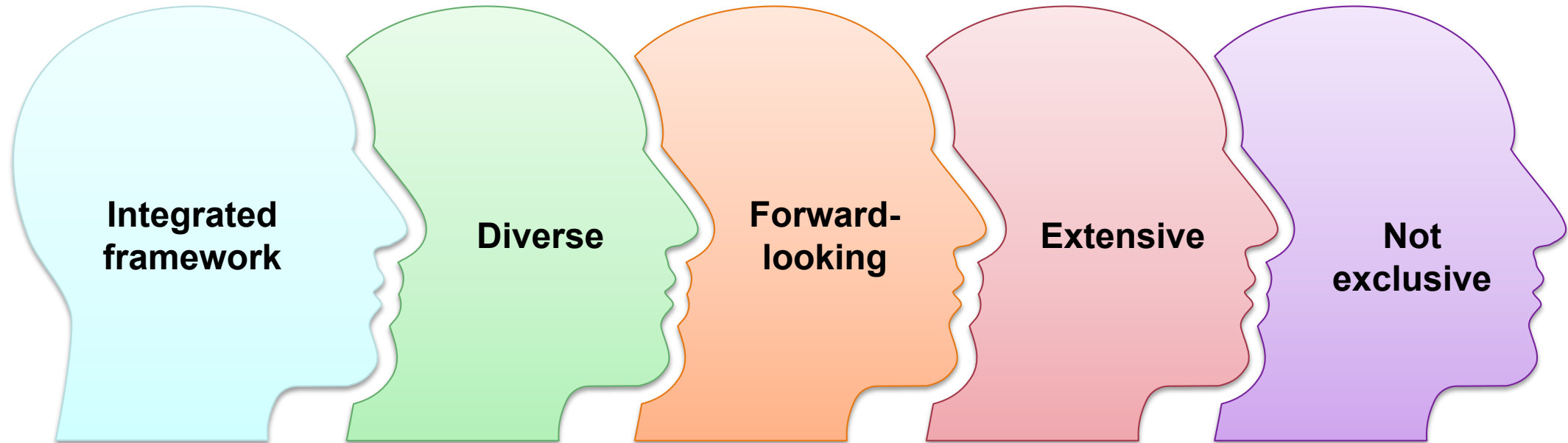
Sustainable Development Goals (SDGs) indicators framework

What are the Global Goals?

17 SDGs to end poverty, hunger and inequality, take action on climate change and the environment, improve access to health and education, build strong institutions and partnerships, and more



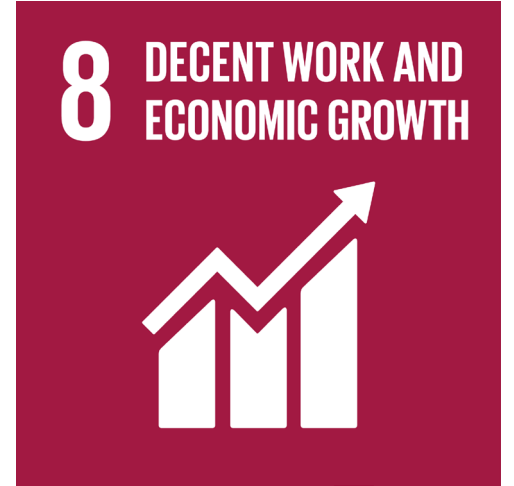
The SDG Global Indicator Framework



**Set of indicators designed to monitor progress towards SDGs
and each of the 169 targets at the global level**

247 indicators (231 unique)

Decent work is a prominent item in the SDGs



3 indicator tiers

Is there an internationally-agreed methodology and are data available?

1

Defined and widely available

Indicators with an internationally-agreed methodology and data regularly available for at least 50% of countries and of the population in every region where the indicator is relevant.

2

Defined and some availability

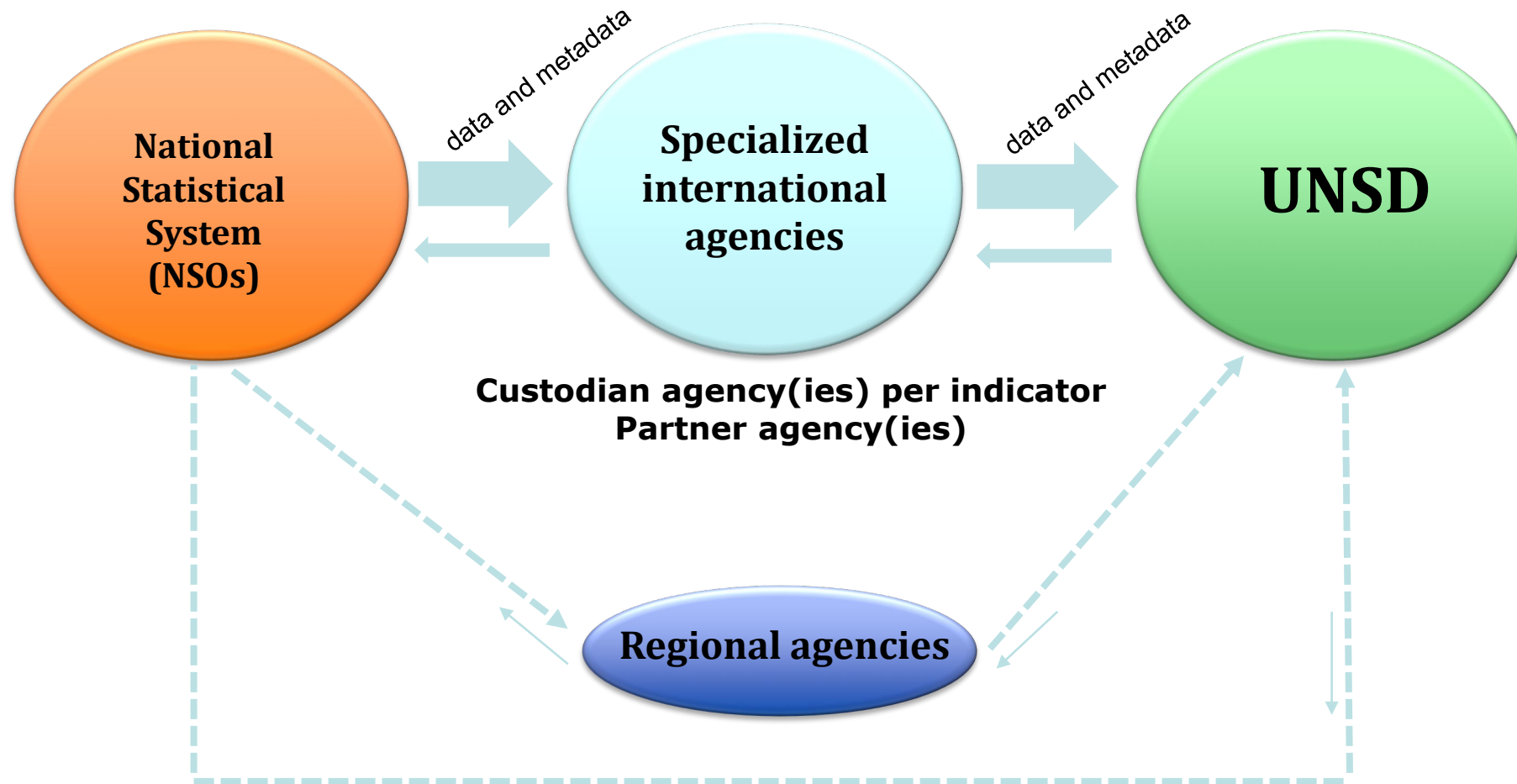
Indicators with an internationally-agreed methodology and data regularly available for at least 50% of countries and of the population in every region where the indicator is relevant.

3

Not defined and not available

Indicators with no internationally-agreed methodology or standards yet (thus, no data available yet either).

Global SDG reporting process: main actors and roles



30 indicators on decent work and the labour market

ILO custodian for 14 indicators

ILO partner agency for 3 indicators

Many other indicators related to decent work across goals

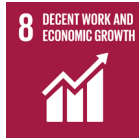
SDG labour market indicators for which ILO is currently reporting to UNSD



- 1.1.1 Working poverty
- 1.3.1 Social protection



- 5.5.2 Women's share of managers
- 8.2.1 Labour productivity



- 8.3.1 Informality
- 8.5.1 Earnings / gender pay gap
- 8.5.2 Unemployment rate

- **8.6.1 Youth NEET rate**

- 8.7.1 Child labour (UNICEF)

- 8.8.1 Occupational injuries

- 8.8.2 Compliance of labour rights

- 8.b.1 National strategy for youth employment

- 9.9.2 Manufacturing employment (UNIDO)



- 10.4.1 Labour income share



SDG Global Indicator Framework



All indicators are equally important!

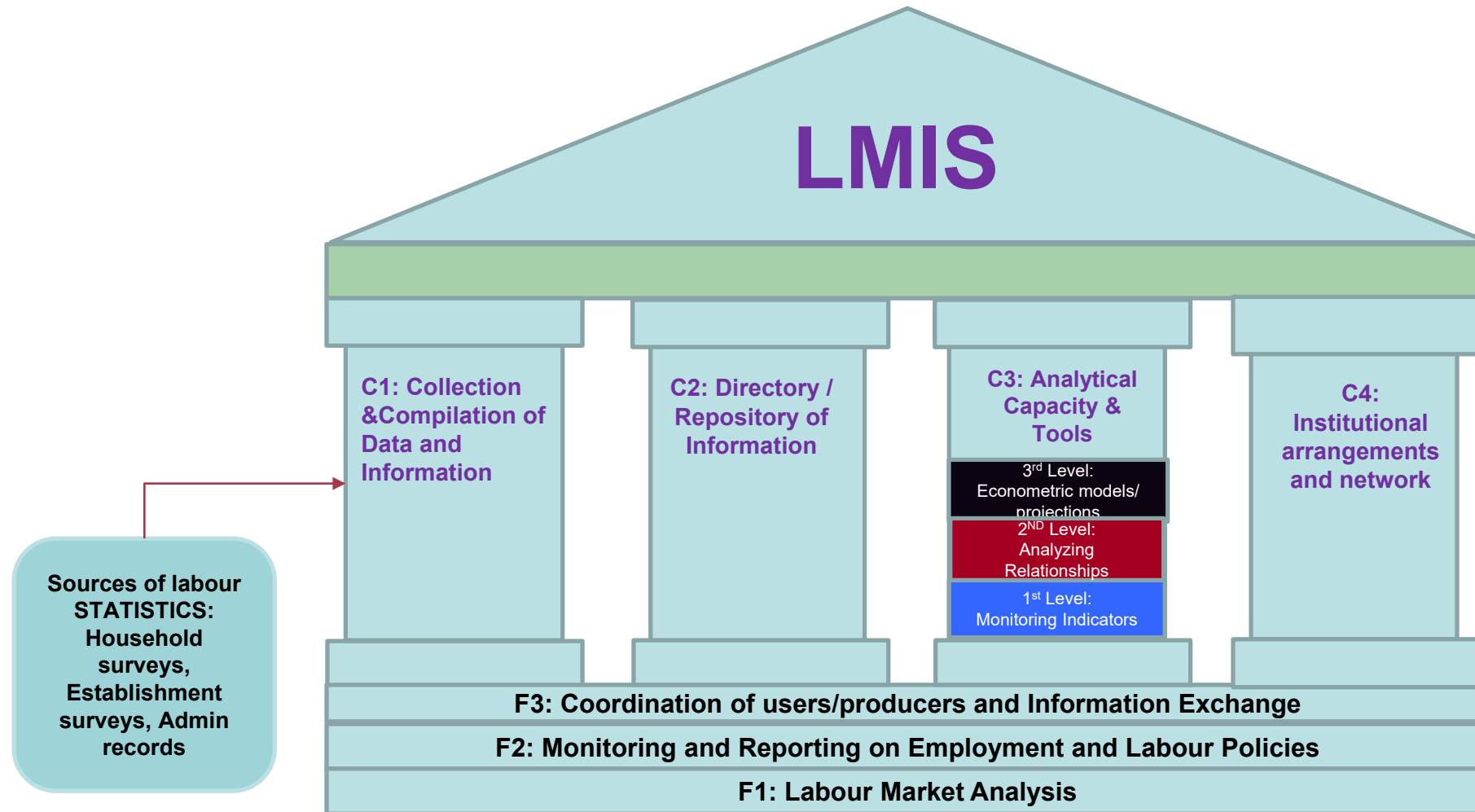
- Tier Classification **only meant to assist in developing global implementation strategies**
- **An indicator's tier may differ at the global level than at the country level**
- **SDG Indicators call for the active involvement of all social actors.**

Labour market information systems (LMIS)

What is a LMIS?

*“A network of institutions, persons and information that have **mutually recognized roles, agreements, and functions** with respect to the production, storage, dissemination, and use of labour market-related information and results in order to maximise the potential for relevant and applicable policy and programme formulation and implementation.”*

LMIS Functions & Components



Who needs this information?

Researchers/Analysts	Education institutions	Training institutions	Private trainers
Employers/Self employed	Displaced workers	Trade Unions	Governments(HR, Employment, economic planners)
Policy makers	Students and jobseekers	Young people and their families	Employment Service Providers

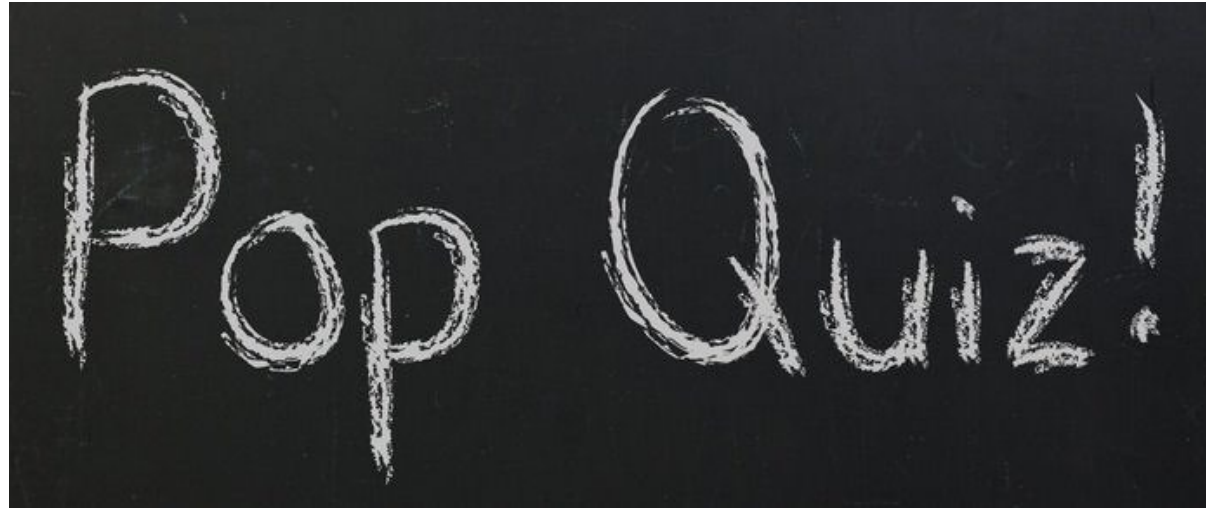
Why do we need an LMIS?

- **Development of sound and effective employment national policies**, and sectoral educational, skills, industrial and trade policies
- **Monitoring and evaluation of employment and labour market policies**, programmes and projects
- **Labour market signaling**
 - Analysis of labour market functioning and processes
 - Efficiently allocating and using resources

Closing remarks...

- Labour market statistics and indicators are **essential** for evidence based-policy making;
- **All labour market indicators are important** to aid decision making;
- SDG indicators go **beyond quantitative** labour statistics and focuses on assessing job quality & decent work;
- There is a need to find **a common statistical understanding** among member states based on internationally agreed statistical standards

An finally, A Pop Quiz!



Go to [slido.com](https://www.slido.com) and access the event #3811549 or simply use your camera to scan the QR code coming up now!

Questions