



<u>Training Workshop on Price Statistics for the Production of Purchasing Power Parities and the</u>
<u>Integration between CPI and PPPs in the Arab Region</u>

07-08 June 2021

Objectives of **Section 3:** Price and Other Related Data for PPPs

Data Collection Approaches for:

Household Individual Consumption

Government Consumption



Gross Fixed Capital Formation

Objectives of Module 8: Gross Fixed Capital Formation



Definition of Gross Fixed Capital Formation



Machinery and Equipment Price Survey



Construction and Civil Engineering Price
Survey



Gross Fixed Capital Formation

Gross Fixed Capital Formation refers to the net increase in physical assets within the measurement period.

Gross Fixed Capital Formation does not account for the consumption or depreciation of fixed capital and does not include land purchases.



Gross Fixed Capital Formation (cont'd)

In the ICP classification, there are 3 Groups under the Gross Fixed Capital Formation category:

1. Machinery and Equipment

covered by the **Machinery and Equipment**survey

2. Other Products

covered by the **Machinery and Equipment**survey, but considered a reference basic heading

3. Construction

covered by the Construction and Civil Engineering survey



Machinery and Equipment Price Survey

The machinery survey

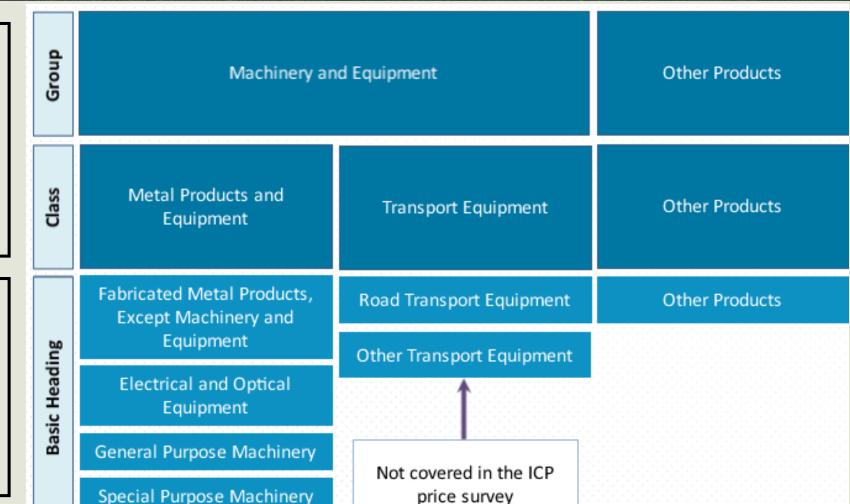
covers:

2 Groups

3 Classes

7 Basic Headings

The ICP Price Survey covers
6 Basic Headings out of 7 in
total, excluding the "Other
Transport Equipment" Basic
Heading.





Machinery and Equipment Price Survey (cont'd)

Pricing Machinery and Equipment Items

- For the Machinery and Equipment Survey, countries are asked to collect prices for identical or very similar products.
- This approach is sometimes referred to as specification pricing.

- There are 2 types of items:
- 1. Specified Type
- 2. Unspecified Type



Machinery and Equipment Price Survey (cont'd)

Pricing Machinery and Equipment Items

1. Specified Type

where an **exact brand** and **model**, in addition to a **detailed description of the product** to be priced are provided.

2.Unspecified Type

where detailed specifications are provided, however, without specifying a brand and model to be priced.

National annual average prices are required for the reference year. However, mid-year prices can be regarded as annual averages.



Machinery and Equipment Price Survey

(cont'd)

Price Information

Price Information Prices are obtained directly from producers, importers, distributors, or from catalogues.

Method of price collection can be personal visit, telephone, letter, internet, or a combination.

Significant proportion of equipment goods in some countries consists of imports of second-hand goods, however, only new goods are priced under the ICP price survey.



Machinery and Equipment Price Survey in the Arab Region

In the Arab region, to ensure accurate comparisons, we went an extra mile and provided brands and models for unspecified items based on availability and popularity in the region.

Moreover, additional region-specific items are also included under the different basic headings after extensive research.

Finally, ESCWA is developing an innovative Harmonized Machinery and Equipment Price Index (H-MEPI); therefore, in order to ensure overlap pricing for at least 1 year for the index computation, the regional M&E survey also includes previous M&E items from the 2017 item list.



Construction and Civil Engineering Survey

Construction and Civil Engineering Survey Coverage

The Construction And Civil Engineering Survey covers:

1 Group

3 Classes

3 Basic Headings

One set of prices and other information is collected to estimate PPPs for all 3 Basic Headings





Construction and Civil Engineering Survey (cont'd)

The estimation of construction PPPs is based on an **Input-Approach**, where countries price *3 types of construction inputs*:

1.Material Inputs

2.Equipment Hire Inputs

3.Labor Inputs

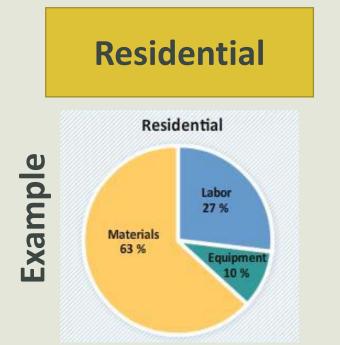
These three types of inputs (or sub-headings) are subsequently weighted based on resource mix weights for a typical construction project under each Basic Heading.

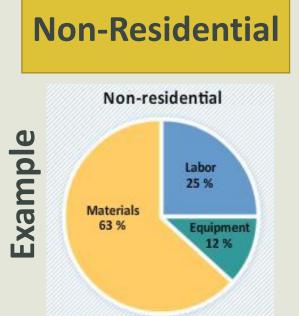


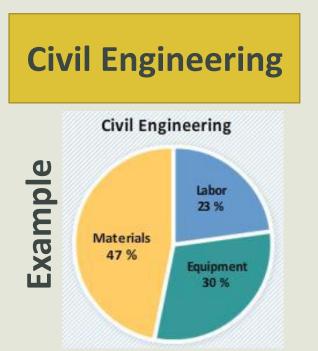
Construction and Civil Engineering Survey (cont'd)

Resource Mix Requirements

The resource mix weights are needed to correctly weight the input categories under each **Basic Heading**, namely:







Quiz Time

- Answer by TRUE or FALSE:
- Resource mixes are the same for Residential and Non-Residential buildings in the same country.
- Resource mix for Residential buildings is the same for all the countries.
- Resource mix for Civil Engineering is the same for all the countries.

