Methodology & Challenges in Producing Global Estimates on International Migrant Workers

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Agenda

- Introduction
- Construction of standard templates for UN and ILO databases
- UN Population database
- UN Migration database
- + ILO Labour Force database for $2015 \ \text{and} \ 2016$
- Indicative number of migrant workers
- Ratio of migrant to general population LFPR
- Conclusion



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Introduction

Construction of the 2015 Global and Regional Estimates by the ILO

- Construction of the input data file in a standardized form
- Imputation, adjustments for consistency, aggregation and production of global and regional estimates. 2.

Main differences between last and new estimation procedures

- Confined to migrant workers.
- Construct benchmark data on: 2.
 - population size,
 - number of migrants,
 - number of workers at the level of individual country or subnational territory.
- Define target population more clearly and uniformly. 3.
- Procedure for moving from migrants and all workers to migrant workers is more robust and precise. 4.

Objective:

• To briefly describe the new estimation methodology for constructing ILO Global Estimates on Migrant Workers

Construction of Standard Templates

- Based on three sets of benchmark data, which are assumed to be complete and correct at the individual country level:
 - 1. UN population database
 - 2. UN database on stock of international migration for 2015
 - 3. ILO labour force database (ILOSTAT) for 2015 and 2016
- Quality affected by their completeness and comparability across countries.
- Global estimation procedure:
 - 1. Create a standard (ILO) list of countries/territories along with ILO regions and income level groups basic template.
 - 2. Substantive data can then be uniformly put into the basic template



UN Population Database

Construction of the database involved:

- 1. Standard template creation including population data by sex and 10-year age group
- 2. Augmentation of numbers by adding the number of refugees
- 3. Extrapolation of UN population data from 2015 to 2016 using ILOSTAT database

Output – a set of templates, each covering the same list of countries/ territories providing the following factors:

 $UN_Working - age \ population_{2016} = \ UN_Working - age \ population_{2015} * \left(\frac{ILO_Working - age \ population_{2016}}{ILO \ Working - age \ population_{2015}} \right)$



UN Migration Database

Includes two datasets in 2015 by sex and age group

- Number of migrants
- Base population

Steps for consolidation

- 1. Consolidating 2015 migration datasets
- 2. Adding data on refugee stock
- 3. Reducing the effect of differences in the definition of 'migrant' used

Output – consistent set of migration rates by country/territory and sex-age

 $Migration rate_{2015} = \frac{Number of working - age migrants_{2015}}{Total migrant working - age population_{2015}}$

Number of working – age migrants₂₀₁₆ = Working – age population₂₀₁₅ * migration rate₂₀₁₅

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ILO Labour Force Database

Includes two datasets for 2015 and 2016 by 10-year age-groups and sex

- Total population
- Numbers in the labour force

Matching by country name is facilitated due to consistency of datasets

Output - the labour force participation rate by country/territory and sex and age-group

Labour force participation $rate_{2016} = \frac{Number in the labour force_{2016}}{Working - age population_{2016}}$

Number in the labour force = $Working - age population_{2016} * Labour force participation rate_{2016}$

Indicative number of migrant workers

• Provides a strong basis for later estimation of the actual number of migrant workers.

Output - the number of migrant workers under the hypothetical assumption that the labour force participation rate for migrants is the same as that of the general population, a given country and sex-age group.

Indicative number of migrant workers = Working – age population₂₀₁₆ * Migration rate₂₀₁₅ * Labour force participation rate₂₀₁₆



Ratio of migrant to general population LFPR



Two main tasks:

- 1. Compilation from diverse data sources
 - Reasonable estimations of ${f R}$ are not likely at the level of individual countries/territories.
- 2. Imputation for missing data
 - * By sex, age and region information may be incomplete and only available for a subset of countries

Expectation: \mathbf{R} is somewhat larger, but still close to 1.0

Actual number of migrant workers = Indicative number of migrant workers $*\frac{\text{LFPR}_{\text{migrants}}}{\text{LFPR}_{\text{population}}}$ = Indicative number of migrant workers *R(say)= [Working – age population₂₀₁₆ * Migration rate₂₀₁₅ * LFPR₂₀₁₆] *R 15-16 January 2018

Conclusion



• Concerted effort is needed towards obtaining more complete and upto-date data measures of distribution of migrant workers by sector of activity.



Thank you for your attention!

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