



International
Conference of
Labour Statisticians
11-20 October 2023



Annual data questionnaires

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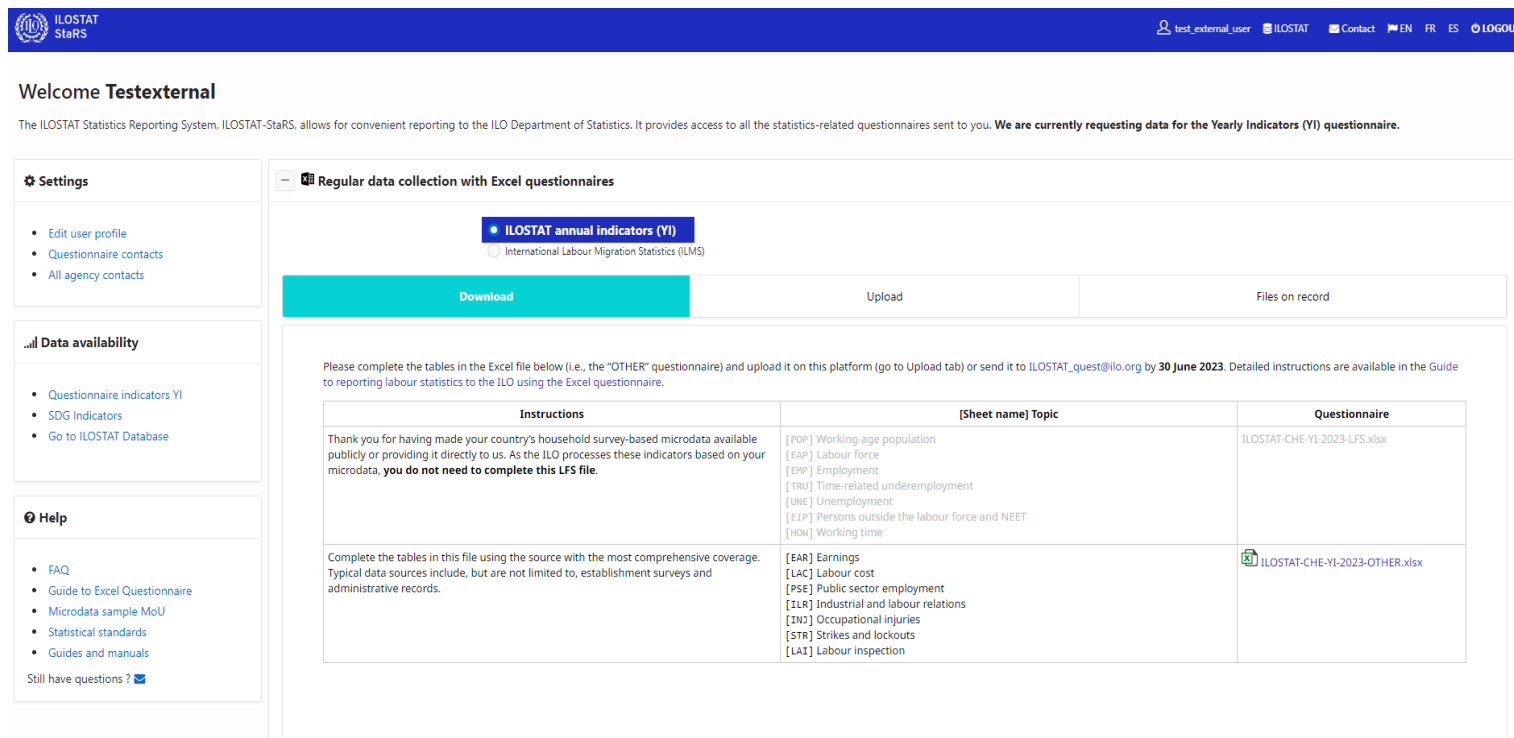
Introduction

Annual data inquiries sent by Department of Statistics

- ▶ ILOSTAT
- ▶ ILMS (International Labour Migration Statistics)

Statistics Reporting System (StaRS) introduced in 2020

- ▶ Download and upload Excel questionnaires
- ▶ Manage contact information
- ▶ Access resources
- ▶ Overview of data availability



The screenshot shows the ILOSTAT StaRS web interface. At the top is a blue header with the ILOSTAT StaRS logo and user information (test_external_user, ILOSTAT, Contact, EN, FR, ES, LOGOUT). Below the header is a welcome message for 'Testexternal' and a note about the current data request for the Yearly Indicators (YI) questionnaire.

The main content area is titled 'Regular data collection with Excel questionnaires'. It features a sidebar on the left with sections for Settings, Data availability, and Help. The main panel has a tab for 'ILOSTAT annual indicators (YI)' and a 'Download' button. Below this, there is a table with instructions and a list of topics for the questionnaire.

| Instructions | [Sheet name] Topic | Questionnaire |
|---|---|--------------------------------|
| Thank you for having made your country's household survey-based microdata available publicly or providing it directly to us. As the ILO processes these indicators based on your microdata, you do not need to complete this LFS file. | [POP] Working-age population [EAP] Labour force [EMP] Employment [TRU] Time-related underemployment [UNE] Unemployment [EIP] Persons outside the labour force and NEET [HOM] Working time | ILOSTAT-CHE-YI-2023-LFS.xlsx |
| Complete the tables in this file using the source with the most comprehensive coverage. Typical data sources include, but are not limited to, establishment surveys and administrative records. | [EAR] Earnings [LAC] Labour cost [PSE] Public sector employment [ILR] Industrial and labour relations [INJ] Occupational injuries [STR] Strikes and lockouts [LAT] Labour inspection | ILOSTAT-CHE-YI-2023-OTHER.xlsx |

▶ Statistics Reporting System (StaRS) access

Registered users

Email directly from ILOSTAT_QUEST

- ▶ Your contact information is already in StaRS
- ▶ Log in by entering your email and existing password
- ▶ Forgot your password? Click on “Reset password”
- ▶ First time using StaRS? Click on “First time login”

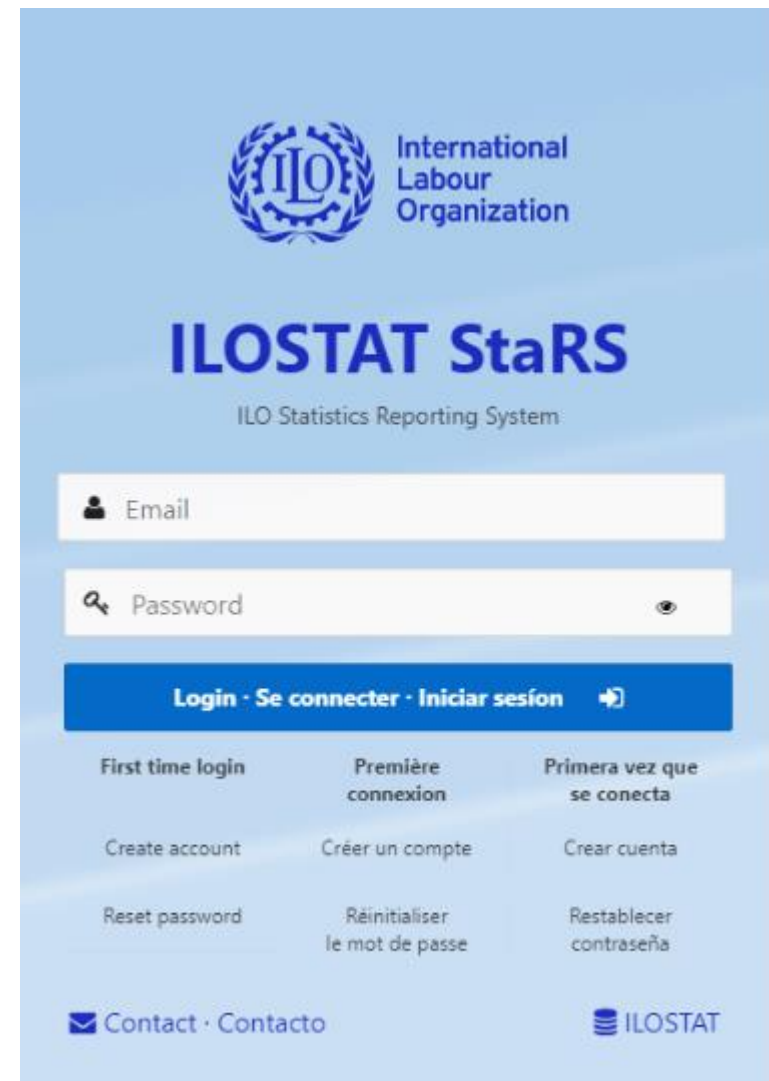
New users

Forwarded the inquiry from a colleague within your agency?

- ▶ Create a username and password by clicking on “Create account”

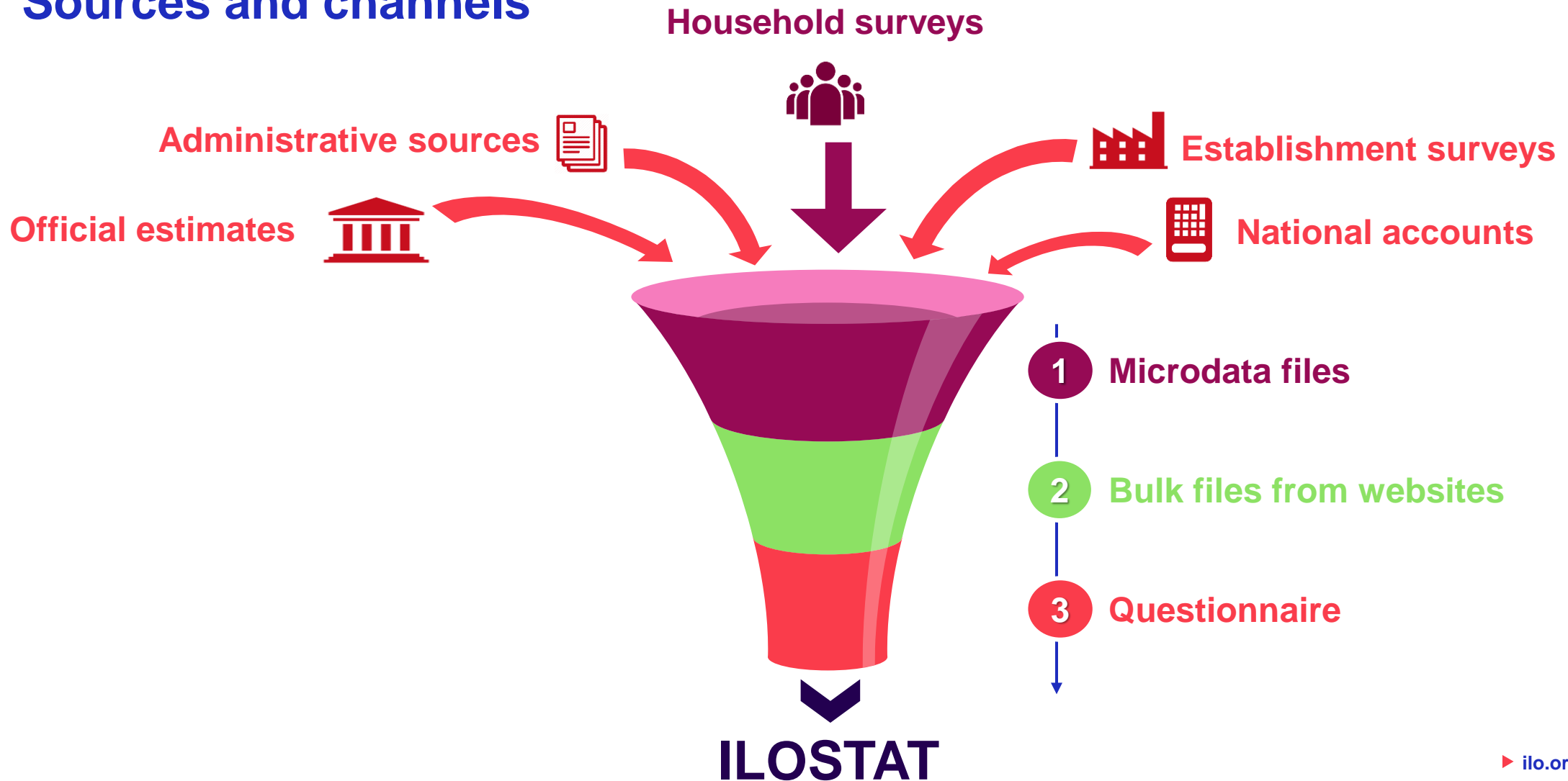
Was your agency newly created?

- ▶ Click on “Contact”



The screenshot shows the ILOSTAT StaRS login interface. At the top, the ILO logo and 'International Labour Organization' are displayed. Below this, the title 'ILOSTAT StaRS' is prominently shown, followed by the subtitle 'ILO Statistics Reporting System'. The login section features two input fields: 'Email' and 'Password'. A blue button labeled 'Login · Se connecter · Iniciar sesión' with a right-pointing arrow is positioned below the password field. Underneath the button, there are three columns of links for user actions: 'First time login', 'Créer un compte', and 'Restablecer contraseña' in the first column; 'Première connexion', 'Créer un compte', and 'Réinitialiser le mot de passe' in the second column; and 'Primera vez que se conecta', 'Crear cuenta', and 'Restablecer contraseña' in the third column. At the bottom, there is a 'Contact · Contacto' link with an envelope icon and the 'ILOSTAT' logo.

Sources and channels



▶ ILOSTAT Excel Questionnaire (xQ)

Tailored by country

- ▶ At most 65 tables on 14 topic sheets
- ▶ Based on availability from other channels
- ▶ Split into 2 files: LFS and OTHER; some countries may get a different “mini” version
- ▶ Pre-filled metadata based on existing info (i.e., sources, notes)

Timeline

- ▶ Email in May to NSOs/MOLs/SDG focal points
- ▶ Due end June
- ▶ Data must be published (not just submitted) by December for SDG reporting

Questionnaire length

18

countries

Full (LFS+OTHER xQs)

No automated procedures in place. Must complete entire questionnaire.

Reduced (OTHER xQ)

Automated procedures in place, usually for household survey-based data. Complete partial questionnaire.

146

countries

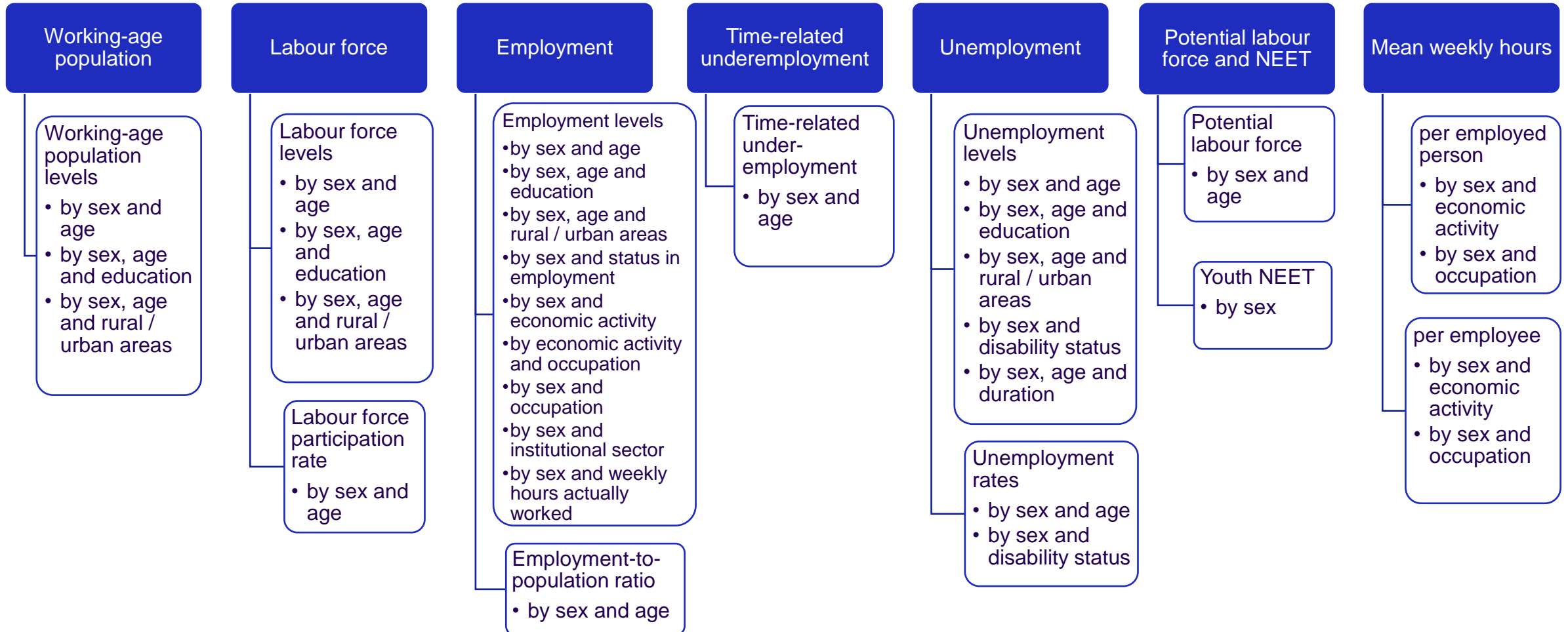
32

countries

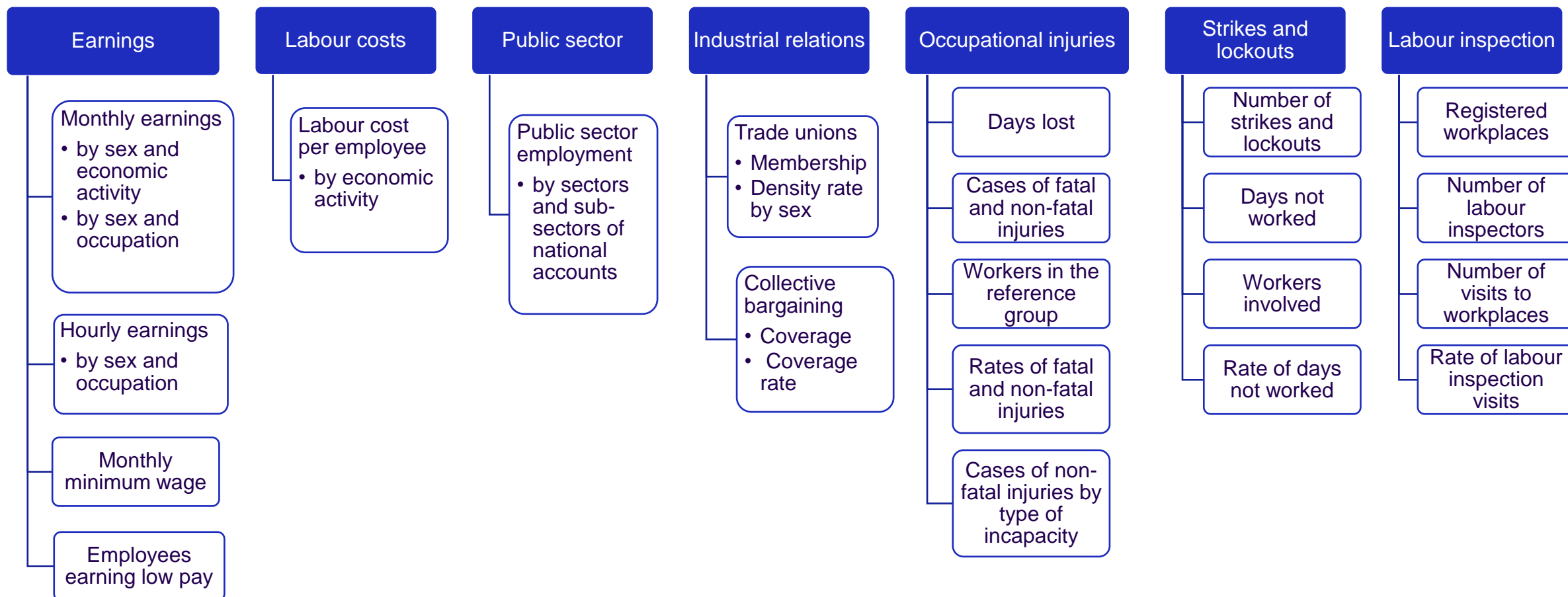
Mini version

No or very low response rate usually due to lack of data available. Complete minimum for SDGs.

ILOSTAT questionnaire contents: LFS (7 sheets, 31 tables)



ILOSTAT questionnaire contents: OTHER (7 sheets, 34 tables)



How is the ILOSTAT Questionnaire related to SDG reporting?

| SDG | Indicator | ILO Questionnaire | From LFS microdata | Most used Source |
|--------|--|----------------------|-----------------------|---------------------|
| 1.1.1 | Working poverty rate | | | ILO |
| 1.3.1 | Population covered by social protection floors/systems | SSI | | ADM |
| 5.5.2 | Female share of employment in managerial positions | ILOSTAT | ✓ | LFS |
| 8.2.1 | Labour productivity | | | ILO |
| 8.3.1 | Informal employment | | ✓ | LFS |
| 8.5.1 | Average hourly earnings by sex (by occupation) | ILOSTAT | ✓ | LFS |
| 8.5.2 | Unemployment rate (by sex, age, disability status) | ILOSTAT | ✓ | LFS |
| 8.6.1 | NEET rate | ILOSTAT | ✓ | LFS |
| 8.7.1 | Number and proportion of children in child labour | | | CLS |
| 8.8.1 | Fatal and non-fatal occupational injuries (by sex, migrant status) | ILOSTAT | | ADM |
| 9.2.2 | Manufacturing employment | ILOSTAT | ✓ | LFS |
| 10.4.1 | Labour income share as a percent of GDP | | | ILO |

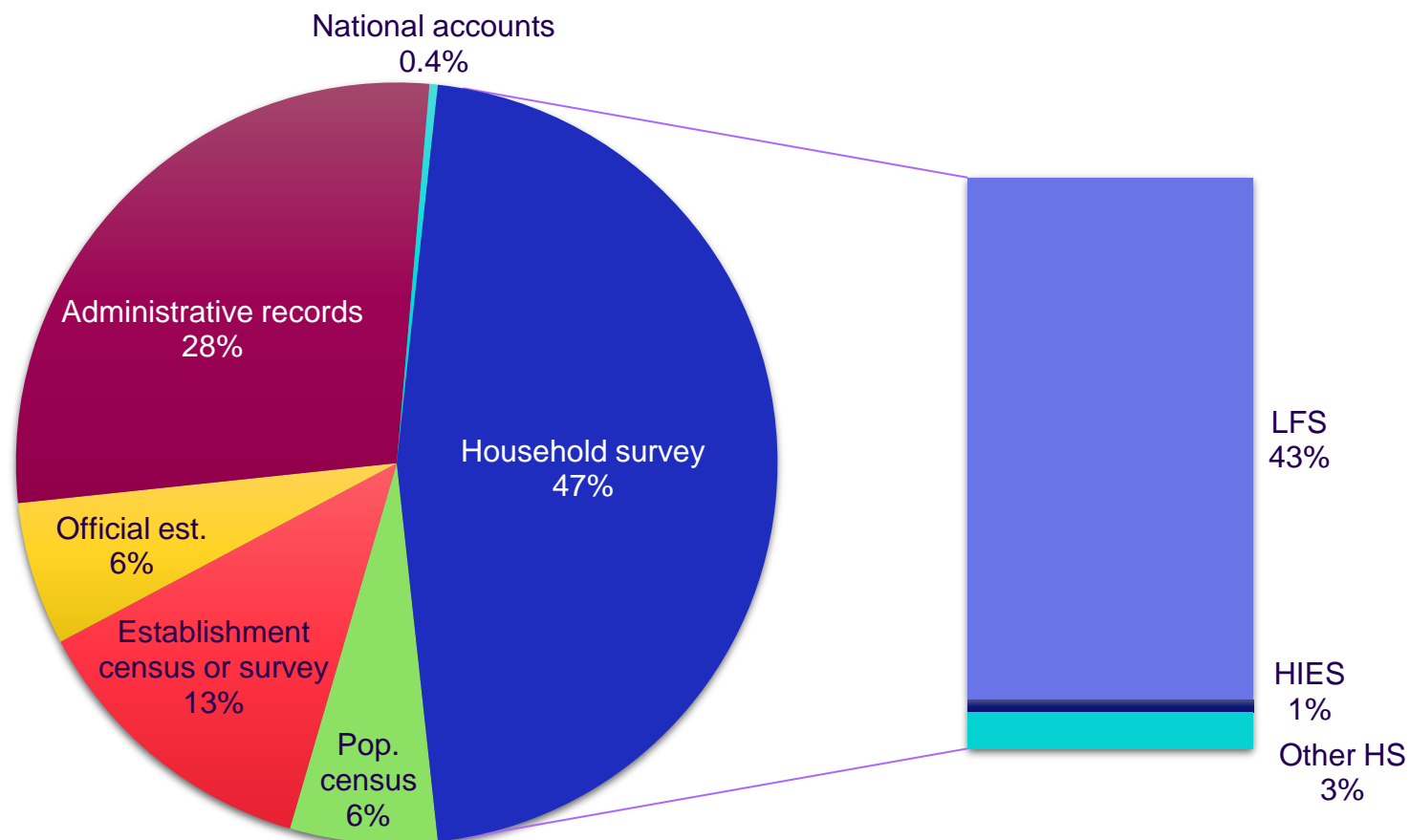
ILOSTAT mini questionnaire contents (4 sheets, 17 tables)

| Sheet | Topic | Indicator | Related SDG indicator |
|-------|---|---|-----------------------|
| LFS | Working-age population by labour force status | Working-age population by sex and age | |
| | | Labour force by sex and age | |
| | | Employment by sex and age | |
| | | Unemployment by sex and age | |
| | | Labour force participation rate by sex and age | |
| | | Employment-to-population ratio by sex and age | |
| | | Unemployment rate by sex and age | SDG 8.5.2 |
| | | Youth not in employment, education or training | SDG 8.6.1 |
| EMP | Employment | Employment by status in employment | |
| | | Employment by occupation | SDG 5.5.2 |
| | | Employment by economic activity | SDG 9.2.2 |
| EAR | Earnings and labour cost | Average hourly earnings of employees | SDG 8.5.1 |
| | | Average monthly earnings of employees | |
| | | Monthly minimum wage | |
| | | Average hourly labour cost per employee | |
| INJ | Occupational injuries | Non-fatal occupational injuries per 100'000 workers | SDG 8.8.1 |
| | | Fatal occupational injuries per 100'000 workers | SDG 8.8.1 |

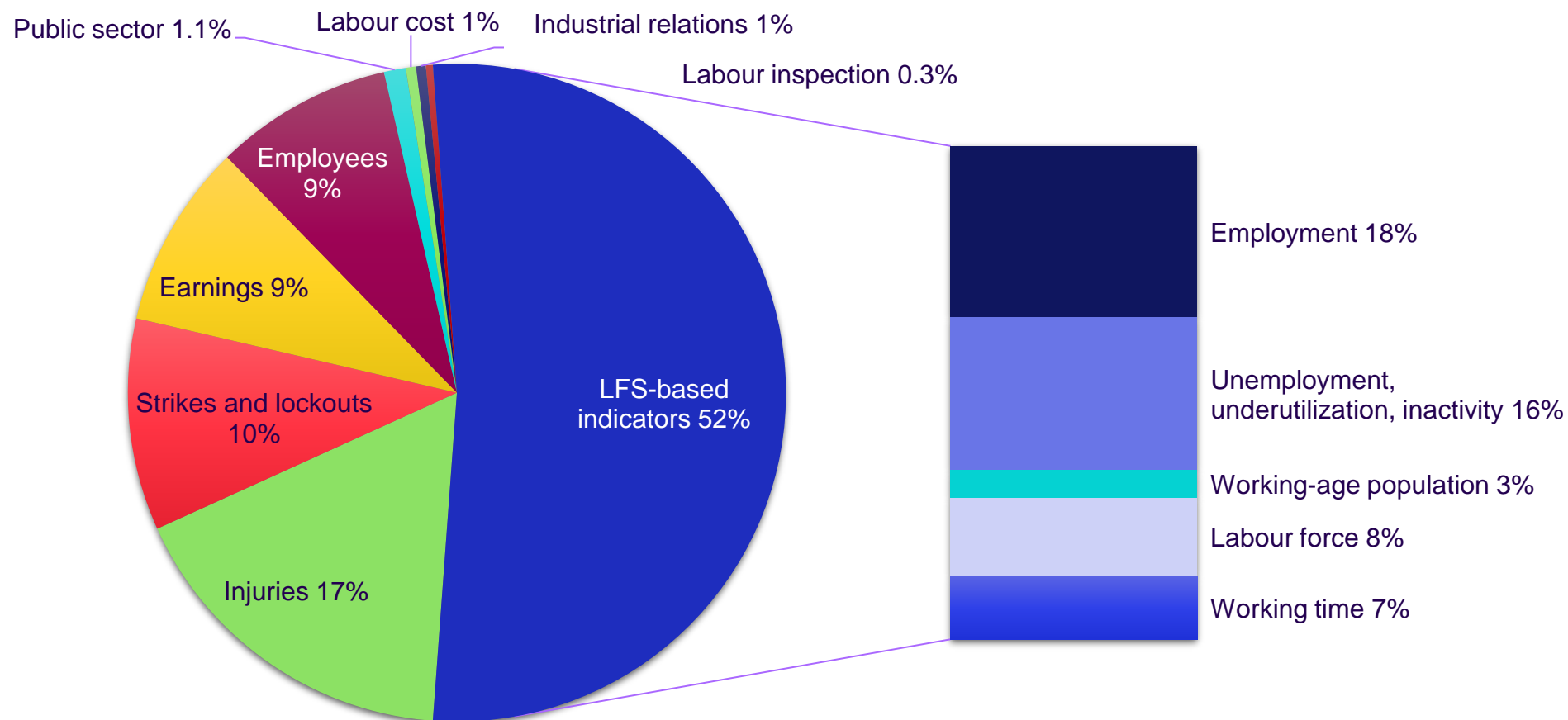
▶ Disaggregations

- ▶ Sex
- ▶ Age
- ▶ Economic activity (ISIC)
- ▶ Education (ISCED)
- ▶ Occupation (ISCO)
- ▶ Rural/urban
- ▶ Migrant status
- ▶ Disability status
- ▶ Employment-specific**
 - ▶ Status in employment (ICSE)
 - ▶ Hour bands
 - ▶ Private/public sector

Questionnaire data by source type



Questionnaire data by topic



Common issues with reporting via the ILOSTAT questionnaire

| | |
|--|---|
| Different data sources for related indicators | Working-age population, labour force, employment, unemployment etc. should have the same source |
| | Example issue: population census for population, administrative records for unemployment and household survey for the rest |
| Figures do not make sense | Figures do not add up: sum of parts not equal to the total (e.g., male + female <> both sexes) |
| | Rate calculated from levels does not match rate provided (e.g., unemployment rate <> $UNE / LF * 100$) |
| Wrong unit provided | Data requested in persons; rates or distributions are reported instead |
| | Hourly earnings requested; weekly earnings provided instead (and perhaps not indicated as such) |
| Lack of disaggregated data | Data not submitted by sex even though should be available from source |
| File cannot be uploaded | File structure was altered (even though file is protected) and data cannot be uploaded; data must be entered manually into our system |
| | Key information, such as the source for the data, is missing |

▶ Enhancing data quality: Don't's

- ▶ **DO NOT** delete the SOURCES sheet
- ▶ **DO NOT** add or remove columns or rows
- ▶ **DO NOT** use formatting (color) to indicate something important

Files are protected in an attempt to receive completed questionnaires with no «structural changes» so that questionnaires can be uploaded into our system.

Enhancing data quality: Do's

- Review the pre-selected metadata

| | | |
|----|-------------------------------|-----------------------------|
| 20 | 1 | |
| 21 | | |
| 22 | Survey name (without year) | Survey of Employee Earnings |
| 23 | | |
| 24 | Type of source | [6] Establishment survey |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | Data reference period | [16] May |
| 29 | | |
| 30 | Geographical coverage | ... |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | Institutional sector coverage | ... |
| 35 | | |
| 36 | Economic activity coverage | ... |
| 37 | | |
| 38 | Reference group coverage | [391] Adults |
| 39 | | |
| 40 | Establishment size coverage | ... |
| 41 | | |


◀ ▶

SUMMARY FOR REVIEW Sources

EAR LAC PSE ILR INJ STR LAI

+

◀

Ready  Accessibility: Investigate

Enhancing data quality: Do's

- Review the pre-selected metadata
- Use drop-down menus (in yellow) to enter metadata

| | | |
|----|--|--|
| 2 | Strikes and lockouts | |
| 3 | | |
| 4 | Menu | >> Sources |
| 5 | | >> [67] Number of strikes and lockouts by economic activity (Cases) |
| 6 | | >> [69] Days not worked due to strikes and lockouts by economic activity (Days) |
| 7 | | >> [68] Workers involved in strikes and lockouts by economic activity (Persons) |
| 8 | | >> [70] Days not worked per 1000 workers due to strikes and lockouts by economic activity (Rate) |
| 9 | | |
| 10 | Notes related to the topic | |
| 11 | TARGET: Strikes and lockouts, excluding secondary effects. If there is a lower limit on coverage (e.g., days or workers involved), it should be as low as possible | |
| 12 | | |
| 13 | Labour dispute actions coverage | ... |
| 14 | | ... |
| 15 | Lower limit on coverage of strikes and lockouts | [162] Strikes and lockouts |
| 16 | | [163] Only strikes |
| 17 | Notes (optional) | [164] Only lockouts |
| 18 | | [165] Nonstandard coverage of labour dispute actions |

Enhancing data quality: Do's

- ▶ Review the pre-selected metadata
- ▶ Use drop-down menus (in yellow) to enter metadata
- ▶ Enter data AND revisions in the designated columns

35
36
37 **[957] Days lost due to cases of occupational injury with temporary incapacity for work by sex and migrant status (Days)**
38

39 TARGET: Number of calendar days during which those temporarily incapacitated were unable to work, excluding the day of the accident, up to a maximum of 1 year.

40

41 Source ...

42 COMPLETE IF DATA WERE REVISED

| Sex | Migrant status | 2022 | 2021 | 2020 | 2019 | 2018 |
|--------|----------------|------|------|------|------|------|
| Total | Total | | | | | |
| | Migrants | | | | | |
| | Non migrants | | | | | |
| Male | Total | | | | | |
| | Migrants | | | | | |
| | Non migrants | | | | | |
| Female | Total | | | | | |
| | Migrants | | | | | |
| | Non migrants | | | | | |

43
44
45
46
47
48
49
50
51
52
53

54 Notes (optional)

Ready Accessibility: Investigate

SUMMARY FOR REVIEW Sources EAR LAC PSE ILR **INJ** STR LAI +

ilo.org/ics

▶ Enhancing data quality: Do's

- ▶ Review the pre-selected metadata
- ▶ Use drop-down menus (in yellow) to enter metadata
- ▶ Enter data AND revisions in the designated columns
- ▶ Refer to the tips and targets for guidance on the desired concept and definition

| | |
|----|--|
| 21 | |
| 22 | [50] Mean nominal monthly earnings of employees by sex and economic activity (Local currency) |
| 23 | |
| 24 | TARGET: Average monthly gross remuneration per employee including direct wages and salaries, remuneration for time not worked, bonuses and gratuities and housing and family allowances paid by the employer directly. Coverage should be all jobs of full-time and part-time workers. Enter data for ISIC-Rev. 4. If such data are unreliable or not available, click on yellow ISIC-Rev. 4 cell to select another classification from the drop-down menu. |
| 25 | |
| 26 | Source ... |
| 27 | |
| 28 | Time unit ... |

Enhancing data quality: Do's

- ▶ Review the pre-selected metadata
- ▶ Use drop-down menus (in yellow) to enter metadata
- ▶ Enter data AND revisions in the designated columns
- ▶ Refer to the tips and targets for guidance on the desired concept and definition
- ▶ Review the summary sheet

| Summary | | | | | | | | |
|---|-------|---|-------------|---------------------|----------|-------------------|--------------------------------|-------------------------|
| LEGEND: Warning -> Please carefully review to ensure this is expected Error -> Must be corrected prior to sending questionnaire | | | | | | | | |
| Sheet | | Indicator | Latest year | Source ID and label | Notes ok | % of cells filled | TOTAL provided for latest year | Males + Females = TOTAL |
| EAR | [50] | Mean nominal monthly earnings of employees by sex and economic activity (Loc. None | None | | FALSE | 0% None | | |
| EAR | [52] | Mean nominal monthly earnings of employees by sex and occupation (Local curr. None | None | | FALSE | 0% None | | |
| EAR | [665] | Mean nominal hourly earnings of employees by sex and occupation (Local curr. None | None | | FALSE | 0% None | | |
| EAR | [403] | Statutory nominal gross monthly minimum wage (Local currency) | None | | FALSE | 0% None | | |
| EAR | [944] | Employees earning low pay by sex (Persons) | None | | | 0% None | | |
| LAC | [56] | Mean nominal hourly labour cost per employee by economic activity (Local curr. None | None | | FALSE | 0% None | | |
| PSE | [965] | Public employment by sectors and sub-sectors of national accounts (Persons) | None | | | 0% None | | OK |
| ILR | [165] | Trade union density rate of persons employed and employees by sex (Percentage None | None | | | 0% None | | |
| ILR | [171] | Collective bargaining coverage rate of persons employed and employees by sex (Percentage None | None | | | 0% None | | |
| ILR | [168] | Persons employed and employees covered by collective bargaining by sex (Persons) None | None | | | 0% None | OK | OK |
| ILR | [162] | Trade union membership of persons employed and employees by sex (Persons) None | None | | | 0% None | OK | OK |
| ILR | [161] | Trade union membership by type of member (Persons) | None | | | 0% None | | |
| INJ | [957] | Days lost due to cases of occupational injury with temporary incapacity for work (Cases) None | None | | FALSE | 0% None | OK | OK |
| INJ | [952] | Days lost due to cases of occupational injury with temporary incapacity for work (Cases) None | None | | FALSE | 0% None | | OK |
| INJ | [950] | Cases of fatal occupational injury by sex and migrant status (Cases) | None | | FALSE | 0% None | OK | OK |
| INJ | [958] | Cases of fatal occupational injury by economic activity (Cases) | None | | FALSE | 0% None | | OK |
| INJ | [954] | Cases of non-fatal occupational injury by sex and migrant status (Cases) | None | | FALSE | 0% None | OK | OK |
| INJ | [959] | Cases of non-fatal occupational injury by economic activity (Cases) | None | | FALSE | 0% None | | OK |
| INJ | [962] | Cases of non-fatal occupational injury by type of incapacity and economic activity (Cases) None | None | | FALSE | 0% None | | OK |

SUMMARY FOR REVIEW

Self-review summary sheets

- ▶ Latest year provided for all tables where possible?
- ▶ Same survey for related indicators?
- ▶ Metadata completed?
- ▶ Totals match across indicators?
- ▶ Men+Women=Total?
- ▶ Sum of items=Total?

Summary

LEGEND: Warning --> Please carefully review to ensure this is expected
Error --> Must be corrected prior to sending questionnaire

| Sheet | | Indicator | Latest year | Source ID and label | Notes ok | % of cells filled | TOTAL provided for latest year | Males + Females = TOTAL | Sum of items = TOTAL |
|-------|-------|--|-------------|---------------------|----------|-------------------|--------------------------------|-------------------------|----------------------|
| EAR | [50] | Mean nominal monthly earnings of employees by sex and economic activity (Loc: None | | | FALSE | 0% | None | | |
| EAR | [52] | Mean nominal monthly earnings of employees by sex and occupation (Local curr: None | | | FALSE | 0% | None | | |
| EAR | [665] | Mean nominal hourly earnings of employees by sex and occupation (Local curr: None | | | FALSE | 0% | None | | |
| EAR | [403] | Statutory nominal gross monthly minimum wage (Local currency) | None | | FALSE | 0% | None | | |
| EAR | [944] | Employees earning low pay by sex (Persons) | None | | | 0% | None | | |
| LAC | [56] | Mean nominal hourly labour cost per employee by economic activity (Local curr: None | | | FALSE | 0% | None | | |
| PSE | [965] | Public employment by sectors and sub-sectors of national accounts (Persons) | None | | | 0% | None | | OK |
| ILR | [165] | Trade union density rate of persons employed and employees by sex (Percentag: None | | | | 0% | None | | |
| ILR | [171] | Collective bargaining coverage rate of persons employed and employees by sex: None | | | | 0% | None | | |
| ILR | [168] | Persons employed and employees covered by collective bargaining by sex (Pers: None | | | | 0% | None | OK | OK |
| ILR | [162] | Trade union membership of persons employed and employees by sex (Persons): None | | | | 0% | None | OK | OK |
| ILR | [161] | Trade union membership by type of member (Persons) | None | | | 0% | None | | |
| INJ | [957] | Days lost due to cases of occupational injury with temporary incapacity for work: None | | | FALSE | 0% | None | OK | OK |
| INJ | [952] | Days lost due to cases of occupational injury with temporary incapacity for work: None | | | FALSE | 0% | None | | OK |
| INJ | [950] | Cases of fatal occupational injury by sex and migrant status (Cases) | None | | FALSE | 0% | None | OK | OK |
| INJ | [958] | Cases of fatal occupational injury by economic activity (Cases) | None | | FALSE | 0% | None | | OK |
| INJ | [954] | Cases of non-fatal occupational injury by sex and migrant status (Cases) | None | | FALSE | 0% | None | OK | OK |
| INJ | [959] | Cases of non-fatal occupational injury by economic activity (Cases) | None | | FALSE | 0% | None | | OK |
| INJ | [962] | Cases of non-fatal occupational injury by type of incapacity and economic activity: None | | | FALSE | 0% | None | | OK |

Summary for Review

Sheet1SourcesEARLACPSEILRINJSTRLAI

Accessibility: Investigate

Reporting guides and tutorial videos on ILOSTAT

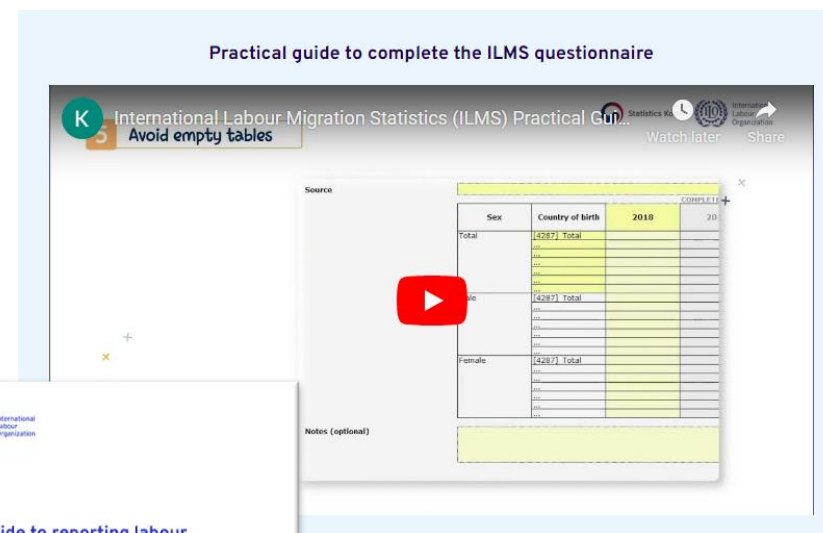
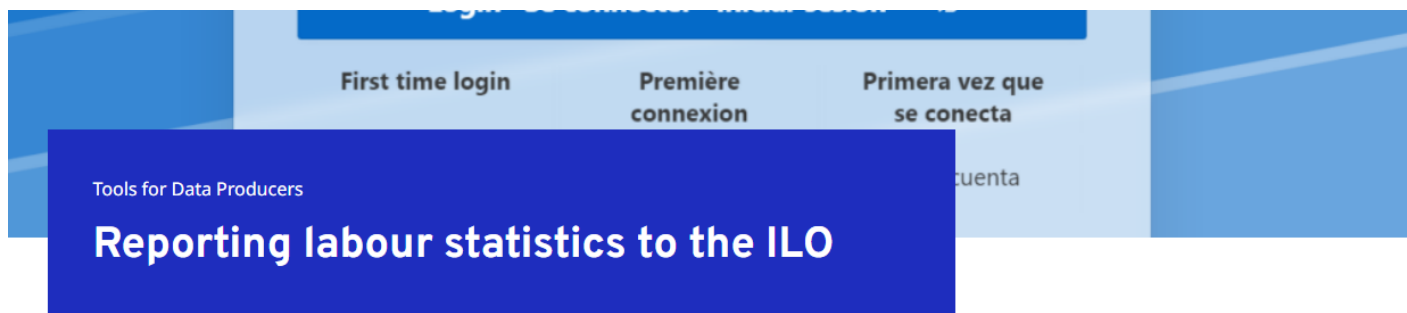


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5. Frequently asked questions

Related pages

Data collection and production

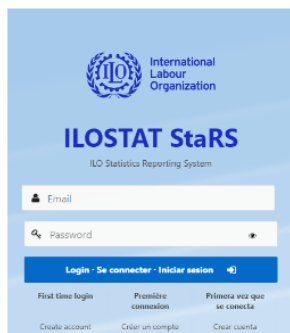
Fundamental Principles of Official Statistics

Concepts and definitions

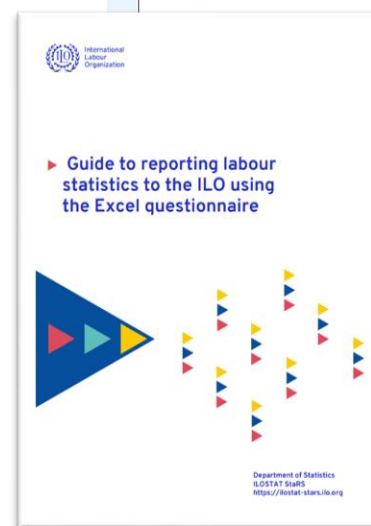
Labour Market-Related SDG Indicators (ILOSDG database)

The ILO has been collecting labour statistics from national statistical offices and government ministries for decades. Below is information regarding three of the main ILO data inquiries currently ongoing. The data are disseminated in ILO databases and publications and also used to report for the Sustainable Development Goals (SDGs). First, we provide an overview of the reporting system used for two of these inquiries.

StaRS: Statistics Reporting System for ILOSTAT



ILOSTAT StaRS allows for convenient reporting of labour statistics to the ILO Department of Statistics. Users can submit completed questionnaires and microdata files, find reference materials regarding statistical concepts, review data availability and update contact information. This system is currently used for two data inquiries: The ILOSTAT questionnaire and International Labour Migration Statistics (ILMS) questionnaire.



Reducing the questionnaire burden

Provide access to microdata

- Preferably make available online
- Substitutes the household survey portion of the questionnaire: 65 → 34 tables

Option1

Online database

- Allows for automation (ILO “bulk” processes) IF direct links to data outputs
- Release data from all source types, not just LFS

Option 3

Option 2

Online static files

- Allows for automation (ILO “bulk” processes)
- Release data from all source types, not just LFS

▶ **Thank you**

Contact us at ILOSTAT_QUEST@ilo.org