INTEGRATED ECONOMIC STATISTICS
PROGRESS IN PERU

October 2020
Econ. José Luis Robles
What do we understand by Integrated Economic Statistics?

What are the components for integration?

A look from National Accounts of Peru

OBJECTIVE
"Help countries to prepare a set of integrated economic statistics in response to need for a coherent framework to quantify a country’s economic activity in an increasingly interconnected world economy."

INTERNATIONAL STANDARDS

INTEGRATION
The integration of economic statistics consists of use of common concepts, definitions, estimation methods and data sources for statistical reconciliation.

**Need for Integrated Economic Statistics**

- **Concepts and definitions**
- **Estimation methods**
- **Data sources**

mutual links between:
- National accounts statistics
- External sector statistics
- Balance of payments accounts
- Public finance statistics
- Monetary and financial statistics

Use in public policy, companies and other areas

Advantages, Challenges and Scope of Integration

**Advantage:**

- Consistency between economic data
- Transparency and coherence in concepts and definitions
- Greater precision of economic data
- Greater efficiency in data production
- Most pertinence statistics

**Challenges:**

- Getting that statistical units and their classifications are applied in a homogeneous way in all measurements.
- Harmonization with international standards
- Integration of the interdependent components of the statistical production process.
- It involves costs

**Scope of integration:**

Statistical reconciliation of diverse primary and secondary statistics — for example, those related to production, income, consumption, employment, and prices — with macroeconomic accounts, such as national accounts.

Components for Integration

01. System of National Accounts - Conceptual Framework
   Ensures consistency:
   - Concepts
   - Definitions
   - Classifications

02. Institutional Devices - Legislation, organization, budget, management and clients
   - Legislative and operational frameworks, strategic planning and process management
   - Coordination and governance of data producers, users and providers
   - Human and financial resources

03. Integrated Statistics Preparation Process – Compilation until Disclosure
   - Standards and methods
   - Registries and business frameworks
   - Data sources
   - Statistics and accounts integration
   - Dissemination and communication
2. Institutional Context and Regulations in Peru

National Statistical System (NSS)

**Objectives**

- **Regulate official statistics**
- **Coordinate, integrate and rationalize official statistical activities**
- **Promote training, research and development of statistical activity**

**Areas of competence of NSS:** census surveys, continuous statistics, sample surveys, population statistics, indicators and indices in general, National and regional Accounts, macro-statistical schemes, analysis and research.

- It is responsible for technical and scientific tasks that are developed in order to quantify and project economic and social events to produce the official statistics of the country.

**Historical Events**

- **1932**
  - National Statistics Office is created

- **1969**
  - Decreto Ley 17532
    - National Office of Statistics and Censuses (NOSC), attached to the Prime Minister’s Office

- **1971**
  - Decreto Ley 7567
    - 1958 National Directorate of Statistics and Censuses

- **1975**
  - DL N° 21372
    - National Statistical System (NSS)
    - Statistics National Institute

- **1971**
  - National Office of Statistics and Censuses (NOSC), attached to the Prime Minister’s Office

- **1990**
  - Dleg. N° 604

- **R.S. N°126-71**
  - EF/43-01
    - Interinstitutional Technical Commission for National Accounts
2. Institutional Context and Regulations in Peru

Organization Chart of National Statistical System

Instituto Nacional de Estadística e Informática

CCONEI
CCOI

Jefe del INEI

MINCETUR MINAGRI MIDIS MINEDU MEF

MINITER MINJUS PRODUCE MINSA

MINTRA MTC MIMP MINEM

Oficina Departamentales de Estadística e Informática del INEI

CCONEI CCOI

Oficina Estadística Gob. Regional

Municipalidades Provinciales

Municipalidades Distritales

Oficina Estadística Emp. Públicas

MINISTER
MINJUS PRODUCE MINSA

MINTRA MTC MIMP MINEM

MINITER MINJUS PRODUCE MINSA

MINTRA MTC MIMP MINEM

LOCAL LEVEL

REGIONAL LEVEL

CENTRAL LEVEL

Governing body of National Statistical System

Statistical offices of powers of state, autonomous entities
Decentralized public institutions and state enterprises

Statistics Offices of Ministries

Statistical offices of sectors at regional level

Statistics Offices of Provincial and District Municipalities
2. Institutional Context and Regulations in Peru

National Strategic Plan for Statistical Development  PENDES 2018 – 2022

Sets the course of the National Statistical System (NSS), with the objective of providing reliable, timely and quality statistics to give priority to the design, monitoring and evaluation of public policies.

Strategic Objectives of PENDES

1. Las estadísticas responden a las políticas públicas sectoriales y de Estado.

2. Se produce información estadística confiable y oportuna para el diseño, monitoreo y evaluación de los programas presupuestales.

3. Se produce información estadística que atiende los requerimientos de los compromisos internacionales del país.

4. El país cuenta con infraestructura estadística actualizada.

5. El SEN alcanza estándares de calidad internacional en la producción de la información estadística oficial.

6. El SEN se ha fortalecido para responder a los nuevos retos del país y de la actividad estadística mundial.

Sectorial, Regional and Local Statistics Plans

Realize by the statistical offices of the sectors and institutions of the three levels of government.
2. Institutional Context and Regulations in Peru

Code of Good Statistical Practices

- Commitment to user
  1. Pertinence
  2. Impartiality and Objectivity
  3. Professional Independence
  4. Transparency, equity and opportunity

- Commitment to efficiency
  5. Adequate use of information sources
  6. Coordination

- Commitment to quality
  7. Methodology
  8. Consistency and comparability
  9. Confidentiality
2. Institutional Context and Regulations in Peru

Statistical Review by OECD

- Review of the legal and institutional framework
- Statistical Infrastructure
- Review of annual and quarterly National Accounts
- Trade in Value Added (TiVA)
Framework of System of National Accounts

3. Integration of Economic Statistics in National Accounts

GOODS AND SERVICES ACCOUNTS
- Economic activities
  - Production
  - Generation of income
- Products
- Supply and demand
- Supply and Use Table (Input - Output)

INSTITUTIONAL SECTORS ACCOUNTS
- Non-financial corporations
- Financial corporations
- Government
- Households
- ISFLSH
- Rest of world
- Current accounts
- Accumulation Accounts
- Balance

Integrated Economic Accounts
- GDP - NI
- Net Lending
- Investment and Savings
- Foreign Transactions

SNA 2008
Adoption of International Classifications

3. Integration of Economic Statistics in National Accounts

Economic Activities and Products

<table>
<thead>
<tr>
<th>Level</th>
<th>Economic Activities (ISIC Rev.4)</th>
<th>Products (CPC ver2)</th>
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<tr>
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<td>Level 3</td>
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Institutional Sectors and Sub Sectors

Non - Financial and Financial Transactions
Annual and quarterly monitoring indicators: indicators of physical volume of production, economy price indices, regional statistics.
3. Integration of Economic Statistics in National Accounts

Statistics by Industry: Example

Manufacturing

Provider

- National Superintendence of Tax Administration
- Ministry of Production
- Ministry of Agriculture and Irrigation
- Ministry of Energy and Mines
- National Institute of Statistics and Informatics
- Ministry of Labor and Employment Promotion
- International agencies (Bloomberg LP, Reuters)

Statistical data

- Tax Administration Records
- Physical Volume Index by activities
- Annual quantity produced in tons
- Annual quantity produced in tons of agro industrial products.
- Annual produced quantity of refined hydrocarbons and minerals
- Wholesale Price Index
- Household Surveys: average earnings and employment
- Fishmeal and fish oil exports
- Electronic format
- International mineral price
3. Integration of Economic Statistics in National Accounts

National Accounts Preparation Process

GOODS AND SERVICES ACCOUNTS
- Agriculture, Fishing, Mining, Manufacturing, ..., Services

ECONOMIC ACTIVITY

SUPPLY AND USE BALANCE

SUPPLY AND USE TABLE

INPUT AND OUTPUT TABLE

ACCOUNTS ECONOMIC INTEGRATED

SATELLITE ACCOUNTS
- Tourism
- Informal economy
- Unpaid labor
- Culture (process)
- Environment (initiation)
- Health (experience)

ECONOMIC UNITS

PRODUCT

INFORMATION SYSTEMS PLATFORM: ERETES

ECONOMIC UNITS

INTERMEDIATE SYSTEMS

INSTITUTIONAL SECTOR ACCOUNTS
- Non-financial Corporation
- Financial Corporation
- Government
- Households
- Nonprofit Inst.
- Rest of world

ACCOUNTS BY INSTITUTIONAL SECTOR
- Production
- Generation of income, Allocation, Distribution, Redistribution, Use, Capital, Financial, Other changes in equity

CROSS CLASSIFIED: Sector - Activities

MATRICES OF TRANSACTIONS
### 3. Integration of Economic Statistics in National Accounts

#### SUPPLY AND USE TABLE 2018

(Thousands of millions of soles)

| Cod. | Productos | Producción | Importaciones | Directas de Importación | Margen de Distribución | Impuestos restos de abroados | Total Oferta | Productos | Explotación | Manufactura | Construcción | Comercio | Otros servicios | Demanda Intermedia | Gasto de Consumo Final de los Hogares | Gasto de Consumo Final de las ISFLSH | Formación Bruta de Capital Fijo | Variación de Existencias | Extdemanda Final | Total Demanda |
|------|------------|------------|---------------|-------------------------|------------------------|---------------------------|--------------|-----------|-------------|-------------|---------------|---------|----------------|------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------|----------|
| 1    | Agricultura| 62         | 6             | 0                       | 23                     | 1                         | 92           | Agricultura| 8           | 37          | 0             | 0       | 4              | 49               | 26             | 0            | 0             | 0             | 0            | 13       | 43       |
| 2    | Pesca      | 8          | 0             | 0                       | 2                      | 0                         | 10           | Pesca      | 0           | 7           | 0             | 0       | 7              | 3                | 0              | 0            | 0             | 0             | 0            | 3        | 10       |
| 3    | Minería    | 106        | 11            | 0                       | 7                      | 0                         | 124          | Minería    | 5           | 28          | 3             | 0       | 2              | 38               | 0              | 0            | 0             | 1             | -3           | 87       | 86       |
| 4    | Manufactura| 281        | 131           | 1                        | 82                     | 33                        | 528          | Manufactura| 25          | 93          | 35            | 8       | 82             | 243              | 168            | 0            | 0             | 48            | 3            | 66       | 285      |
| 5    | Electricidad| 30         | 0             | 0                       | 0                      | 3                         | 33            | Electricidad| 3           | 6           | 0             | 2       | 10             | 21               | 12             | 0            | 0             | 0             | 0            | 12       | 33       |
| 6    | Construcción| 103        | 0             | 0                       | 0                      | 2                         | 106           | Construcción| 0           | 0           | 2             | 0       | 3              | 6                | 0              | 0            | 0             | 0             | 0            | 0        | 100      |
| 7    | Comercio   | 122        | 0             | 0                       | -111                   | 1                          | 12            | Comercio   | 0           | 0           | 0             | 8       | 9              | 3                | 0              | 0            | 0             | 0             | 0            | 3        | 12       |
| 8    | Transportes| 102        | 5             | 0                       | -3                     | 2                         | 106           | Transportes| 9           | 6           | 1             | 14      | 23             | 52               | 46             | 0            | 0             | 0             | 0            | 7        | 54       |
| 9    | Alojamiento y restaurantes| 63 | 3 | 0 | 0 | 4 | 70 | Alojamiento y restaurantes| 0 | 0 | 0 | 1 | 4 | 6 | 57 | 0 | 1 | 0 | 6 | 64 | 70 |
| 10   | Telecomunicaciones| 39 | 3 | 0 | 0 | 3 | 45 | Telecomunicaciones| 0 | 0 | 0 | 1 | 16 | 19 | 24 | 0 | 0 | 2 | 0 | 1 | 27 | 45 |
| 11   | Serv. Financieros y seguros| 54 | 4 | 0 | 0 | 0 | 58 | Serv. Financieros y seguros| 5 | 5 | 1 | 7 | 17 | 35 | 22 | 0 | 0 | 0 | 0 | 23 | 58 |
| 12   | Serv. prestados a empresas| 65 | 7 | 0 | 0 | 2 | 74 | Serv. prestados a empresas| 5 | 8 | 4 | 7 | 43 | 66 | 4 | 0 | 0 | 1 | 3 | 8 | 74 |
| 13   | Administración pública| 58 | 0 | 0 | 0 | 0 | 58 | Administración pública| 0 | 0 | 0 | 0 | 0 | 2 | 56 | 0 | 0 | 0 | 58 | 58 |
| 14   | Otros servicios| 146 | 2 | 0 | 0 | 5 | 153 | Otros servicios| 0 | 1 | 0 | 2 | 13 | 17 | 91 | 39 | 3 | 0 | 2 | 136 | 153 |
|      | TOTAL      | 1239       | 172           | 1                       | 0                      | 57                        | 1469          | TOTAL      | 118         | 94          | 50           | 75      | 334          | 672             |                |              |               |               |               |          |          |

#### GDP Production

- **Gross Domestic Product** = 730
- (+) Gross production Value = 1 239
- (-) Intermediate Consumption = 568
- (+) Taxes on Products = 58

#### GDP Expenditure

- **Gross Domestic Product + Private consumption + Government consumption + Investment + Net external sector** = 730
- + 465
- + 96
- + 155
- + 13

#### GDP Income

- **Gross Domestic Product** = 730
- (+) Remuneration = 228
- (+) Taxes on products = 58
- (+) Activity taxes = 5
- (+) Gross operating surplus = 277
- (+) Mixed gross income = 162
### Supply and Demand Balance

**Goods and Services Accounts 2018**

(Thousands of millions of soles)

#### Production Account

<table>
<thead>
<tr>
<th>Empleos</th>
<th>Valores</th>
<th>%</th>
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<tbody>
<tr>
<td><strong>Consumo Intermedio</strong></td>
<td>568</td>
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#### Generation of Income Account

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<tr>
<td><strong>Remuneración de los asalariados</strong></td>
<td>228</td>
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<td>Sueldos y Salarios</td>
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<td>Contribuciones sociales de empleadores</td>
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<td>Otros Impuestos sobre la Producción</td>
<td>5</td>
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#### Total Empleos

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#### Total Recursos

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3. Integration of Economic Statistics in National Accounts
**3. Integración de Estadísticas Económicas en Cuentas Nacionales**

**INTEGRATED ECONOMIC ACCOUNTS 2018**

(Thousands of millions of soles)

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<th>S.13</th>
<th>S.12</th>
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<td>-12 Préstamo neto (+) / Endeudamiento neto (-)</td>
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<table>
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<td>43</td>
<td>33</td>
<td>104</td>
<td>0</td>
<td>153</td>
</tr>
</tbody>
</table>

**National Income = GDP + Net factor Income**

\[ 694 = 730 + 7 - 43 \]

**Saving = Disposable Income − Consumption**

\[ 148 = 709 - 561 \]

**Disposable Income = National Income + Net current transfers**

\[ 709 = 694 + 4 + 12 \]

**Net Lending = Saving + Net Capital transfers − GFK**

\[ -8 = 148 + 0 - 155 \]
3. Integration of Economic Statistics in National Accounts

**SATELLITE ACCOUNTS**

**Main Input:**
Supply and Use Table (Input – Output)

1. **Tourism Satellite Account**
   INEI – Ministry of Foreign Trade and Tourism

2. **Informal Production and Employment in Peru**
   Satellite Account of the Informal Economy 2007-2018

3. **Satellite Account of Unpaid Household Labor**
   INEI – Ministry of Women and Vulnerable Populations
   Published in 2016 from ENUT and CCNN 2010

4. **Advances Satellite Account of Culture**
   Cultural Measurements
   INEI – Ministry of Culture
   Published in 2017 from Base Year Results

5. **Environmental Accounts Advances**
   - Forest (SERFOR)
   - Water (ANA)
   - Spending on Environmental Protection (MINAM)
   Current Situation: in process

6. **Health Accounts Advances**
   INEI – Ministry of Health
   Current Situation: in coordination
3. Integration of Economic Statistics in National Accounts

Innovations

Advanced and in project

- 01: Database for Trade in Value Added (TiVA)
- 02: Intersectoral, Labor and Capital Accounts to measure Total Multifactorial Productivity
- 03: Gross Fixed Capital Formation Matrix by economic activity, according to type of asset and origin
- 04: Quarterly Accounts by Institutional Sectors
- 05: Mobile Base and Chaining of Series
PERÚ: GROSS DOMESTIC PRODUCT 1950 - 2019
(Base Year: 2007=100)

Average annual growth rate

Decade

Quinquennium

5.5%
5.3%
3.7%
-1.0%
3.9%
5.6%
4.3%
6.9%
4.8%

PERÚ:
GROSS DOMESTIC PRODUCT
1950 - 2019
(Base Year: 2007=100)

Source: National Institute of Statistics and Informatics.
4. Conclusions

1. The objective of the Integrated Economic Statistics Guidelines is to help countries to prepare a set of integrated economic statistics in response to need for a coherent framework to quantify a country’s economic activity in an increasingly interconnected world economy.

2. The Integrated Approach to Economic Statistics is supported by three components: The SNA Conceptual Framework, institutionals devices, and a process that goes from data collection to dissemination.

3. Legal, organizational and planning framework provides the normative support to carry out actions to integrate economic statistics.

4. In Peru, the National Statistical System has been in existence for almost 45 years and the governing body is the National Institute of Statistics and Informatics, body where the National Accounts are prepared.

5. The National Accounts of Peru are developed within the framework of the 2008 SNA, Supply and Use Tables and Integrated Economic Accounts are prepared annually, a set of Satellite Accounts is also developed.

6. Coordination between INEI and information providers and users has been essential for harmonization of concepts within the framework of 2008 SNA, which facilitates the integration of economic statistics in the National Accounts. It is developed through inter-institutional commissions, working groups, consultative commissions and other forms.

7. Institutions that prepare Public Finance and Balance of Payments are in the process of adapting to latest manuals harmonized with 2008 SNA.

8. INEI, in the context of a Country Program with the OECD, had a Statistical Review and some recommendations that we have been adopting.
Thanks