DATA FOR BETTER LIVES

Statistical Conference of the Americas of ECLAC
April 8th, 2021
Data story – Lives of one million people saved in Odisha
Advancing development objectives through data

3 pathways for improving development outcomes
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3 pathways for improving development outcomes
The case for a new *Social Contract* for data

**VALUE**
The full value of data materializes when systems enable the use and reuse of data for different purposes.

**TRUST**
A trust environment is created when the rights and interests that all stakeholders have in data are safeguarded.

**EQUITY**
All share equitably in the benefits of data when investments and regulations create a level playing field.
Moving toward an Integrated National Data System
WDR 2021 *Data for Better Lives* Table of Contents

**Part 1: Advancing development objectives through data**

- Chapter 1: Harnessing the Value of Data for the Poor
- Chapter 2: Data as a Force for Public Good
- Chapter 3: Data as a Resource for the Private Sector
- Chapter 4: Creative Reuses of Data for Greater Value

**Part 2: Aligning data governance with the social contract**

- Chapter 5: Data Infrastructure Policy: Ensuring Equitable Access for Poor People and Poor Countries
- Chapter 6: Data Policies, Laws, and Regulations: Creating a Trust Environment
- Chapter 7: Creating Value in the Data Economy: The Role of Competition, Trade and Tax Policy
- Chapter 8: Institutions for Data Governance: Building Trust through Collective Action

**Part 3. Moving toward an integrated national data system**

- Chapter 9: Creating an Integrated National Data System
What is an Integrated National Data System?

An INDS is an **intentional**, **whole-of-government**, **multistakeholder**, approach to **data governance**
An INDS is all about people

- People produce, process, and manage high-quality data
- People populate the institutions that safeguard the data from misuse
- People draft and implement data strategies, policies, and regulations
- People use data for policy design, decision-making, and innovations
- People hold the public and private sectors accountable.
The relationship between an INDS and a national statistical system (NSS)

• An NSS is a core part of the more expansive INDS.

• In an NSS, an ensemble of units jointly collect, protect, process, and disseminate official statistics.

• An INDS, in addition, encompasses data produced, exchanged, and used by other participants including civil society and the private sector.

• The blueprint for building a NSS is a national statistical development strategy.

• The blueprint for building an INDS is a national data strategy.
The vision of an INDS

Data are produced, protected, open, quality controlled, and used and reused.

By government entities, civil society and individuals, academic institutions, the private sector, and international organizations.

Built on the pillars of infrastructure policies, laws and regulations, economic policies, and institutions.

Sustained by the foundation of human capital, trust, funding, incentives, and data demand.

How can countries build an INDS?
A maturity model

• The maturity model is an organizing framework to help ascertain strengths and weaknesses and identify priorities
• It allows countries at different levels of data maturity to take concrete steps towards building an INDS
• It is not a one-size-fit all
• Steps need to be revisited and refined
Establishing fundamentals

**Financing**
Ensure NSOs have sufficient financing

**Human capital**
Strengthen the technical capacity of NSOs and ensure appropriate remuneration

**Laws**
Ensure that NSO independence is anchored in laws and institutional setup

Initiating data flows

**Infrastructure**
Establish a secure, integrated digital platform for providing access to deidentified data

**Laws**
Prevent statistical laws from becoming outdated

**Data demand**
Establish a culture of data use in ministries and in nongovernmental entities

Optimizing the system

**Trust**
Create quality control processes for other government data and citizen-generated data

**Incentives**
Create guidelines and best practices on use of common standards

**Human capital**
Provide training and technical assistance to other participants of the INDS

Thank you
Possible role of NSOs in setting up and monitoring an INDS

System-wide step

Recognize the importance of an INDS in a high-level strategic document, such as a national data strategy

Charge a unit with responsibility for overseeing the implementation of the national data strategy

Possible role of NSO

Lead/co-lead/provide feedback on the formulation of the strategy

Lead/co-lead/be a recipient of the overseeing and reporting
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The NSO at the first maturity level

Establishing fundamentals

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Source: Statistical Performance Indicators
Establishing fundamentals

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• In a global survey of NSOs strengthening human capital and human resources management was consistently ranked as a top priority to improve technical capacity.

Source: PARIS21
The NSO at the first maturity level

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Source: Statistical Performance Indicators and Ibrahim Index of African Governance
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The NSO at the second maturity level
The NSO at the second maturity level

**Initiating data flows**

- **Infrastructure**: Establish a secure, integrated digital platform for providing access to deidentified data.
- **Laws**: Prevent statistical laws from becoming outdated.
- **Data demand**: Establish a culture of data use in ministries and in nongovernmental entities.

**Assessment of the openness of data**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Low-income</th>
<th>High-income</th>
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<tbody>
<tr>
<td>Openness score (0–100)</td>
<td>38</td>
<td>66</td>
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<tr>
<td>Available in machine readable format (%)</td>
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<td>81</td>
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<tr>
<td>Available in nonproprietary format (%)</td>
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<td>Download options available (%)</td>
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</tr>
<tr>
<td>Open terms of use/license (%)</td>
<td>11</td>
<td>44</td>
</tr>
</tbody>
</table>

*Source: Open Data Watch – Open Data Inventory*
The NSO at the second maturity level

Initiating data flows

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![Graph](image)

*The older a country’s statistical laws, the lower is its statistical performance.*

Source: Statistical Performance Indicators and UNSD
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• INEGI has expanded its work program on data and statistics related to crime and victimization in Mexico in response to the growing demands from policy makers and data users.

• Palestinian Central Bureau of Statistics regularly disseminates official statistics on important international observances, such as International Workers’ Day and International Women’s Day.
The NSO at the third maturity level

Optimizing the system

Trust
Create quality control processes for other government data and citizen-generated data

Incentives
Create guidelines and best practices on use of common standards

Human capital
Provide training and technical assistance to other participants of the INDS
A study of multiple African countries found overreporting of vaccination rates in health information systems by 5 percent of countries and of primary enrollment rates in education management systems by a third. 

Collaboration between the Ugandan Bureau of Statistics, Ministry of Education, and the Civil Society ensured that data on literacy and numeracy were collected in accordance with official educational standards. The data were later used by the Ministry of Education.

In Mozambique the standardization of community scorecards used by several NGOs to assess school and health care services at the local level allowed the data to be aggregated to the national level, where they were used in research and advocacy campaigns.
The NSO at the third maturity level

Optimizing the system

- **Trust**
  Create quality control processes for other government data and citizen-generated data

- **Incentives**
  Create guidelines and best practices on use of common standards

- **Human capital**
  Provide training and technical assistance to other participants of the INDS

Politeknik Statistika is a highly selective university established by Statistics Indonesia in 1958. It awards bachelor’s degrees with an emphasis on applied training in official statistics in preparation for statistical careers at Statistics Indonesia and the public sector at large.
THANK YOU

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