Interoperability between Mexico’s National Reporting Platform and the UNSD’s Federated Hub System

The Data Revolution in Action: Building a Federated System of SDG Data Hubs and Collaborative Platforms for Innovation

Enrique Ordaz
INEGI
March, 2018
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• MDGs Experience
• Principles for developing Mexico’s NRP
• Exercises with the Federated Hub
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A National Reporting Platform for MDGs: Why we did it?

• Improve communication with users
  • Data and indicators out of date and confusing; no available metadata
  • By 2010 there were three “official” websites with MDGs indicators.

• As a coordination tool: need a single focal point for all MDGs data, indicators, metadata and national reports

• Assure quality

• Innovate
Global effort to eradicate extreme poverty and hunger; achieve universal primary education; promote gender equality and empower women; reduce child and maternal mortality; improve reproductive health; combat HIV/AIDS, malaria and other diseases; ensure environmental sustainability; and develop a global partnership for development.
Principles for developing our platform for SDGs

1. Clear institutional arrangements and management
   ✓ INEGI coordinates the National System of Statistical and Geographic Information. The Specialized Technical Committee on SDGs is a body articulating the participation of the State Units responsible for providing the data and calculating the indicators.

2. Fitness for purpose
   ✓ This platform is designed to store, exchange and disseminate primary statistics and indicators for both the global framework and the national one.
Principles for developing our platform for SDGs

3. Sustainability
   ✓The NPR was developed in coordination with the Office of the Presidency of the Republic. However, INEGI guarantees its long-term continuity given that the CTE is a permanent body of the SNIEG. Also, it guarantees the participation and support of all government units.

4. Interoperability and statistical standards
   ✓The platform is designed under the open source modality, which allows the exchange of data through the use of standards such as SDMX, as well as geospatial and statistical interoperability.
Guidelines for NPRs

- National ownership
- Collaboration
- Data communication
- Data disaggregation
- Standard interfaces
- Scalability
- Metadata
- Open data

- Multilingualism and accessibility
- User centred design
- Modularity and extensibility
- Linked data
Technology

Front-end

Back-end

open source

OPEN DATA

GIS

Database

MVC

RESTful service

https rest service

JSON

https
rest
service

RESTful
service

GIS

Database
3. Salud y bienestar

3.1.2. Proporción de partos atendidos por personal sanitario especializado

(Percentage)

Mapa | Gráfica | Datos

Período: 2018

Fuente: SS. Dirección General de Información en Salud (DIGIS).
Fecha de actualización: 20 de julio de 2012
Próxima actualización: Por definir
3.1.2. Proporción de partos atendidos por personal sanitario especializado - Global

(Percentage)

Fecha de actualización: 20 de julio de 2017
Proxima actualización: Por definir
### 3.1.2. Proporción de partos atendidos por personal sanitario especializado

*Porcentaje*

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**Fuente:** SS. Dirección General de Información en Salud (DGIS).

**Fecha de actualización:** 20 de julio de 2017

**Próxima actualización:** Por definir
3.1.2. Proporción de partos atendidos por personal sanitario especializado

Objetivo
Garantizar una vida sana y promover el bienestar de todos a todas las edades

Método
De aquí a 2030, reducir la tasa mundial de mortalidad materna a menos de 70 por cada 100,000 nacidos vivos

Número del indicador
Proporción de partos atendidos por personal sanitario especializado

Definición
Es el porcentaje de partos con asistencia de personal calificado para ofrecer la necesaria supervisión, atención y asesoramiento a las mujeres durante el embarazo, el parto y el puerperio con respecto al total de partos atendidos durante un periodo determinado.

Tipo de indicador
Global

Algoritmo
PROP = \left( \frac{PART}{TPA} \right) \times 100

Descripción de los signos o símbolos:
- PROP: Proporción de partos con asistencia de personal sanitario especializado
- PART: Partos atendidos con asistencia de personal sanitario especializado en el año t
- TPA: Total de partos atendidos en el año t

Cálculo de la tasa de mortalidad materna:
Estos indicadores permiten calcular el número de partos atendidos por personal calificado en un determinado año, entre el total de partos atendidos en el mismo periodo, multiplicado por 100.

Unidad de medida
Porcentaje

Cobertura geográfica
Nacional y entidad federativa

Referencia temporal
1999-2016

Oportunidad
1 año

Periodicidad del indicador
Anual

Fuentes generadoras de la información estadística utilizadas para el cálculo del indicador
- Secretaría de Salud (SS), Sistema Nacional de Información en Salud (SINAIIS), Base de datos del Subsistema de Información sobre Nacimientos (SINAIAC).

Fecha de actualización
29 de julio de 2017

Fecha de próxima actualización del indicador
Por definir

Unidad del Estado (E) responsable de calcular el indicador
Secretaría de Salud (SS), Dirección General de información en Salud (DGIS).

Importancia y utilidad del indicador
Permite conocer el número de mujeres atendidas por médicos en el momento del parto, lo cual implica una mayor calidad en la atención y con ello menos riesgo de fallecer por una causa materna. Un bajo nivel de este indicador mostraría la necesidad de contar con un mayor número de médicos ginecó-obstetricia, clínicas de salud y mejorar la atención durante el embarazo.
The Federated Information System for SDGs

• A Federated Information System for the SDGs embraces a new data ecosystem approach where NSO’s become the custodians of data-sharing platforms that bring together data producers and make data widely available.

• NSO’s will be able to increasingly shift their focus to setting up infrastructure and governance rules, with the aim to maximize benefits from integrating data from different data ecosystems.
Interoperability between Mexico’s NRP and the Federated Data Hub

Data flows from ministries to INEGI

Open Data

Mexico’s NRP

Federated Data Hub
On 1 January 2016, the world officially began implementation of the 2030 Agenda for Sustainable Development—the transformative plan of action based on 17 Sustainable Development Goals—to address urgent global challenges over the next 15 years. This agenda is a road map for people and the planet that will build on the success of the Millennium Development Goals and ensure sustainable social and economic progress worldwide. It seeks not only to eradicate extreme poverty, but also to integrate and balance the three dimensions of sustainable development—economic, social and environmental—in a comprehensive global vision. All nations will need to build the Sustainable Development Goals into their national policies and plans if we are to achieve them.
**Indicator 5.6.4 Unmet need for family planning.**
Shared by fco_mendoza_unsd


**Indicator 5.6.3 Contraceptive prevalence rate in women of childbearing age in cohabitation.**
Shared by fco_mendoza_unsd

Indicator 5.6.4 Unmet need for family planning.

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A look ahead

• Simpler design, improve graphs and visualization
• Improve the geospatial reference with a GIS, multiple layers
• Maintain commitment with a public dissemination calendar
• Strengthen internal coordination mechanisms for data flows and quality checks
A look ahead

• The key point for the long-term success of the information integration scheme in the Federated Data Hub is interoperability.

• Interoperability must be based on international standards for the exchange of statistical and geographic information and based on fully documented and open access specifications.

• The standards and specifications must be agnostic of the software platform used, thus ensuring the inclusion of all countries, not conditioned to the adoption of specific software products.

• The latter ensures the possibility of participation by countries that use commercial license software, free software or even their own development, according to their choice.
Thank you!