Enhancing Thailand Data Governance for statistical exchange by using SDMX standard

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THE 9TH SDMX GLOBAL CONFERENCE
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01. Data Governance and Stewardship in Thailand

02. Thai NSO Data Governance and the National Statistical System

03. The SDMX Standard aids in Data Governance.

04. Challenges

05. The next phase
Thailand Data Governance and Stewardship

The key agencies in Thailand that drive data governance

**Office of the Public Sector Development Commission**

To drive the policy for inter-agency data linkage within government agencies and to establish, monitor, and evaluate annual performance indicators

**Digital Government Development Agency (Public Organization)**

Lead Data governance, Manage Open Data Platform, ensure data quality, and promote data utilization for beneficial purposes

**National Statistical Office of Thailand**

Promoting and supporting knowledge sharing among various government agencies to enable them to establish a Data Catalog, with the Thai NSO serving as the Registrar for the Government Data Catalog

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[https://www.oecd-ilibrary.org/sites/2ab0c605-en/index.html?itemId=/content/component/2ab0c605-en#section-d1e14508](https://www.oecd-ilibrary.org/sites/2ab0c605-en/index.html?itemId=/content/component/2ab0c605-en#section-d1e14508)
Data Governance defines the rights, duties, and responsibilities of every stakeholder and defines the policies and standards for creating, using, and managing data such as the data value cycle, quality of information, and metadata.

The meaning as per the announcement by the Digital Government Development Committee of Thailand.
NSS and TNSO Data Governance

Thailand National Statistical System

- Decentralized Statistical Productions
  - Central Administrative
  - Local Administrative
  - Other government agencies
  - Statistics produced for administrative purposes

- Centralized Statistical Services
  - Compiling data & statistics via Government Data Catalog
  - Public
  - Students
  - Private orgs.
  - Government agencies
  - int’l orgs

- Data-Driven Nation
  - Use data for decision making
SDMX Standard aids in Data Governance

All government agencies are required to share data on their agency's data catalog system and register it in the government data catalog system.
03.

SDMX Standard aids in Data Governance

Data Integration for Exchange in Compliance with SDMX Standard

The Government Data Catalog is a collection of data and metadata listings that various agencies have shared and registered, making it easier for people to access and use government data for various purposes. Different agencies use various file formats, which can create challenges when working with their data.

TNSO serves as the agency of data structures for exchange following SDMX standards.

TNSO provides data services that are ready for exchange following the SGS standards.

https://gdcatalog.go.th

https://stathub.nso.go.th

https://sdmx.nso.go.th/
03. SDMX Standard aids in Data Governance

The data originating from the Agency Data Catalog is structured in accordance with SDMX standards, and users can always be confident that the data comes from a trusted source.

When publishing on the Statistics Sharing Hub, Users can click a link to return to view the original data from the Agency Data Catalog.
03. SDMX Standard aids in Data Governance

SDMX helps ensure that data exchanged between different organizations/platform is of high quality and standardized.

Credit: Software Architecture Academy, https://www.youtube.com/watch?v=UNXAuc9gG-4
03. SDMX Standard aids in Data Governance

**Completed**

- Train public officials in SDMX-compliant data management.
- organized SDMX datasets into groups align with the national strategy
- Fetching Data from the Data Catalog for Exchange Services Using SDMX Standards

**In progress**

- Proposing sdmx to be the National Standard
- Developing a system to help government agencies for driving SDMX
- supporting and promoting stakeholders to familiar SDMX
Challenges

**Infrastructure:** some government agencies are not fully prepared for managing digital data due to inadequate infrastructure.

**Knowledge and training:** government employees experience frequent job rotations, requiring continuous training in essential areas.

**Legal:** government agencies encounter challenges in data disclosure due to legal and organizational cultural factors.
05. The next phase

TNSO is planning to propose the SDMX standard as the national data exchange standard to the Digital Government Development Committee.

Establishing a system to support data integration and automated structuring of information to facilitate data exchange in accordance with the SDMX standards.

Developing learning materials, teaching aids, and various materials for dissemination to ensure that every sector is familiar with SDMX standards, such as websites, YouTube, and Facebook.
THANK YOU

https://stathub.nso.go.th
sdmx.tnso@nso.mail.go.th