Innovations in Data Dissemination in ASIA-PACIFIC

SDMX data portal with .Stat Suite

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Why .Stat Suite?

- The open-source tool and supporting GSBPM and SDMX standard
- Co-development by the global community
- Technology partners program facilitation for service development
- Enhancing functionalities by connecting to Power Bi, MS Excel, R, Python.

TNSO’s views

Before 2013
SAE
NSI Client
http://statv2.nic.go.th/

After 2019
Gateway Sharing
Collection
Production
Dissemination
Data Provider
SAE-DMX Data
.SDMX Data
Explorer
https://oshub.nso.go.th/

.S.DMX is an SDMX native standard-based, componentized, open-source platform for the efficient production and dissemination of high-quality statistical data. (https://sdmx.org)
The process of implementation

TNSO will conduct a pilot project to exchange labor statistical data with Ministry of Labour.

A Data Model is represented by a Data Structure Definition (DSD)
- Dimension, Attribute, Measure

A Data Flow represents the Data provider and Data Structure Definition

Statistics Sharing Hub (Stat Suite) disseminates both Data and Metadata in various format (A dataset and the description of the dataset)

Labor statistics Data Flow

BPMN

Labor Category by NSS

Concept Scheme

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Matrix Sheet
TNSO will conduct a pilot project to exchange labor statistical data with Ministry of Labour.
The process of implementation

**SDGs**
16 Datasets

**Labour**
8 Datasets

**ICT**
5 Datasets

**Population**
2 Datasets

**Statistical sectors (NSS)**

Supporting Thailand National Statistical System

**Microsoft Power BI**
Get Data from API Query with SDMX link.

**Microsoft Excel**
Stat DLM Excel-Addin is a facilitator of data editing and sharing

**R Programming**
Develop a generic SDMX web-client

**Python**
There is a library can directly connect to SDMX Web Services import and transform SDMX data into native formats

**Panda SDMX**
an Apache 2.0-licensed Python library that implements SDMX

**Get data from API Query with SDMX link**
From .Stat Suite

Supporting Thailand National Statistical System
The challenges

Apply the SDMX standard to government agencies' statistical data

Personnel skill gaps

Knowledge transfer

Critical Points

Dissemination of Statistical data in non-machine readable formats

No agreement of Common Codelist Standards

Connectivity among statistical units
Adopting to other tools related .Stat Suite

Government Data Catalog Platform (GD Platform)

Agency Data Catalog (CKAN Open-D)
- Agency Data Catalog A
- Agency Data Catalog B
- Agency Data Catalog C

GD Catalog Registration & Management

GD Catalog Services (CKAN Open-D)

In 2020-2022: TNSO has supported government agencies in developing their data catalog.

In 2021-2022: TNSO has developed the Government Data Catalog Platform for collecting the list of data and metadata from all Agency Data Catalogs.

In 2022: Developing the central platform for Government Data Catalog and Directory services

Getting the readable machine data file and upload to .Stat Suite

CKAN Open-D is a Thailand extension of CKAN Software (https://ckan.org/), which is an open-source Data Management System software.
In 2021-2022: TNSO has developed the Government Data Catalog Platform for collecting the list of data and metadata from all Agency Data Catalogs.

In 2022: Developing the central platform for Government Data Catalog and Directory services.

Supporting the government agencies to create the machine readable data file and disseminate in Agency Data Catalog.

promoting the exchange of Official Statistics according to the SDMX standards for mutual benefits.
Thank you

Government Data Catalog
https://gdcatalog.go.th

Statistics Sharing Hub
https://oshub.nso.go.th/