

SDMX Innovation: Enhancing Data's Value



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Referring to the proposal of

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Session "Innovation in SDMX data visualization" 9th SDMX Global Conference 28 Oct - 2 Nov 2023



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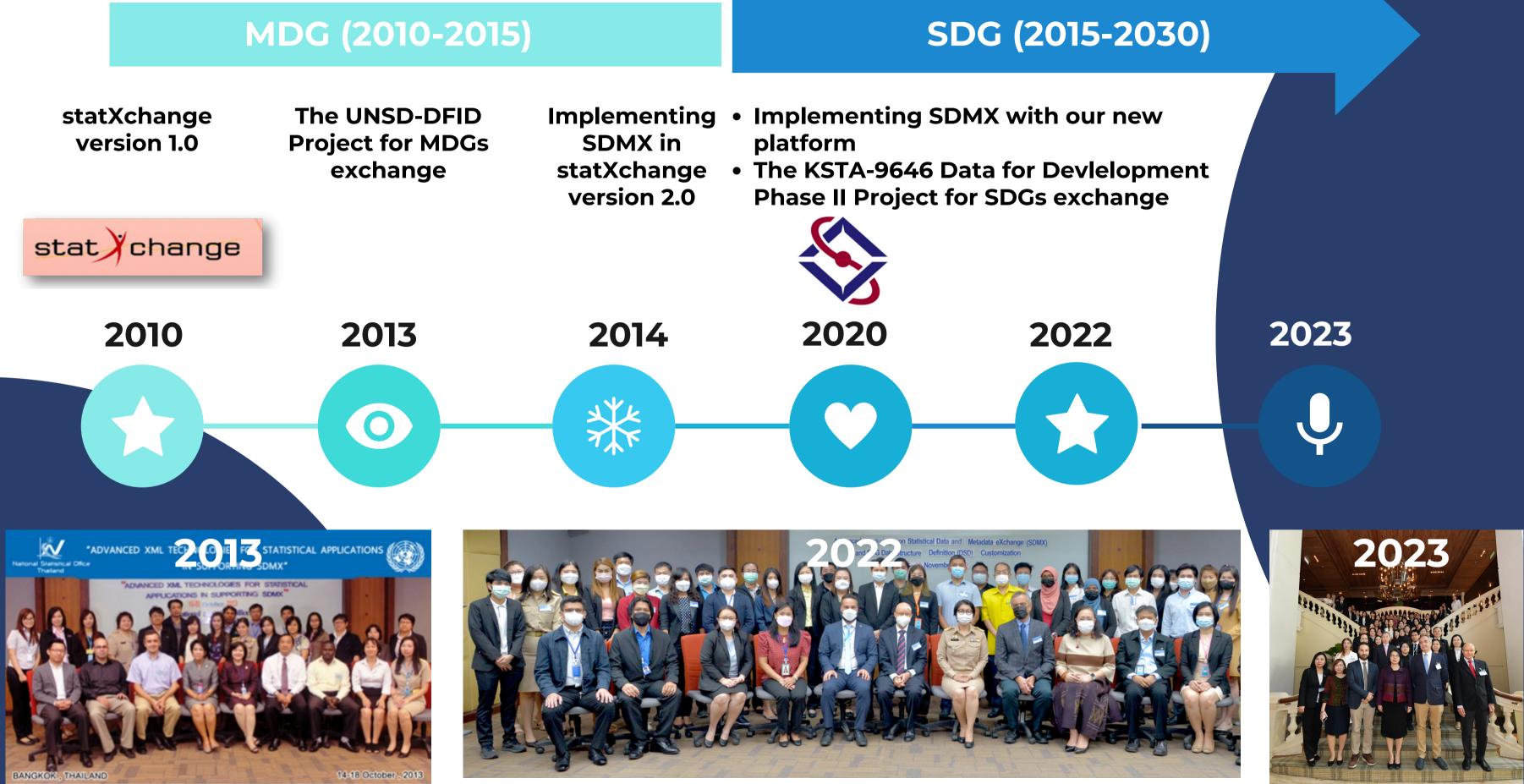
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Future Work



Background



Experience in working on SDMX

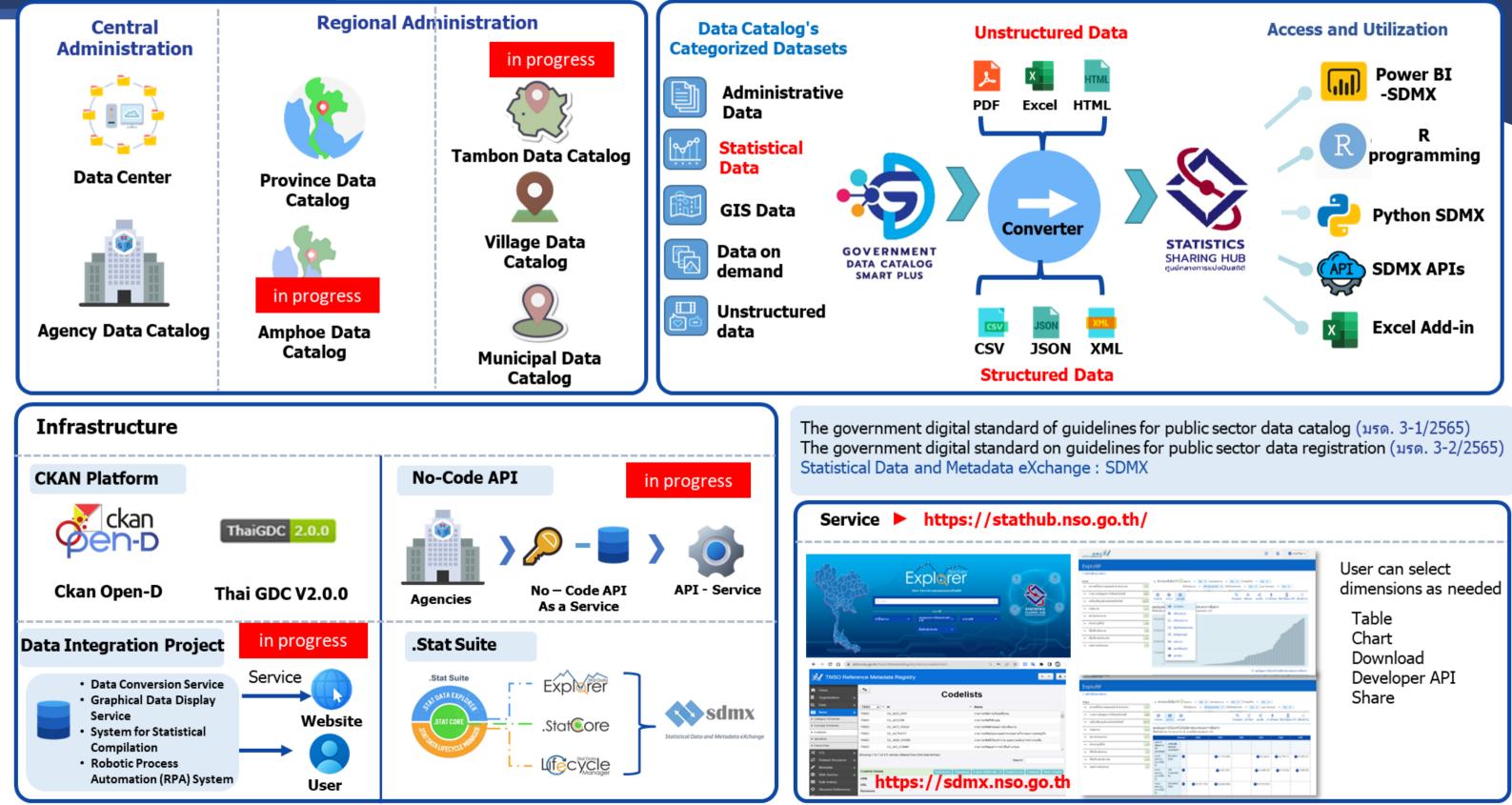
The Mission of TNSO's Statistical Data Services Oriving Data Governance in Thailand Exchanging SDGs with International Organizations



Statistics Sharing Hub

The National Statistical Office has established the Statistics Sharing Hub platform to efficiently exchange and share international indicators, national strategic data, and official statistics in accordance with SDMX standards, in alignment with the national strategic goals.

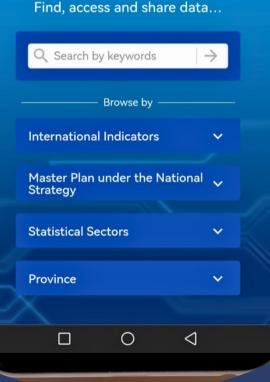
Experience in working on SDMX





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Enhancing the Utilization of Data from the Statistics Sharing Hub

SDMX Innovation in TNSO

1. Creating an Interactive Dashboard with Microsoft Power BI 2. Chatbot on https://directory.gdcatalog.go.th



Data Visualization (Using MS Power BI)



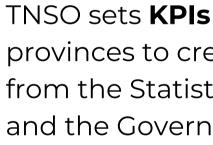
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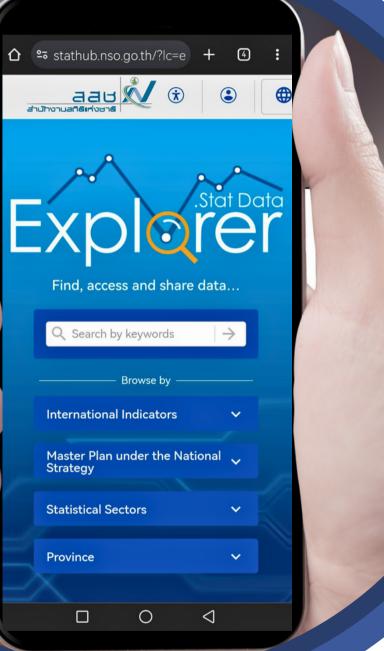
from online social media.



offices of 76 provinces.



The data visualization created must be able to align with both the national and regional-level strategies.

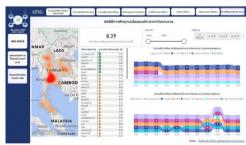




SDMX Innovation in TNSO

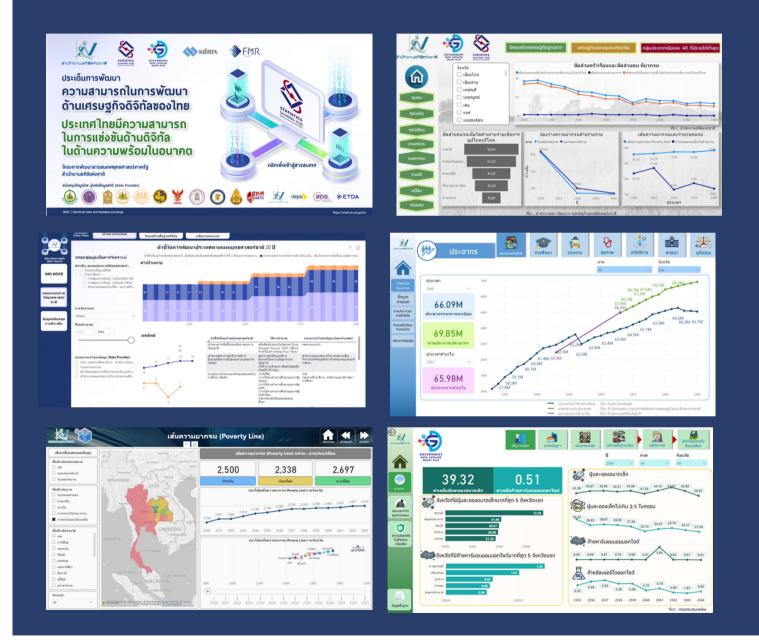
- We learned how to connect data and leverage it
- We share and collaborate to further enhance the utilization with our colleagues.
- We collaborate in creating data visualization both at the central level and in the statistical
- TNSO sets **KPIs** for the statistical offices of 76 provinces to create dashboards by pulling data from the Statistics Sharing Hub (SDMX APIs) and the Government Data Catalog (CKAN APIs).





Examples of our results

example: https://www.nso.go.th/nsoweb/nso/interactive_view/7J





All of our data visualizations have been published on the Government Data catalog and the website of the National Statistical Office.

SDMX Innovation in TNSO

Data Visualization (Using MS Power BI)

SDMX APIs enable quick, accurate, and flexible access to data for use in various applications and services.

They also facilitate data processing, automatic updates, and collaboration for efficient data utilization."

Work in **Progress**

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บริการนามานกรม

บัญชีข้อมูลภาครัฐ

GD Catalog Directory Service

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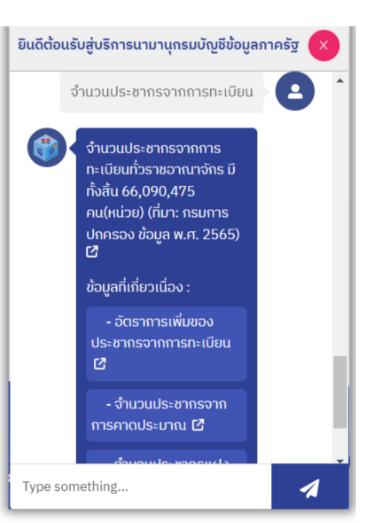
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Chatbot on https://directory.gdcatalog.go.th

- The Thai NSO aims to maximize public access to data. To achieve this, we have taken the following steps:
 - 1. We have integrated a chatbot that
 - retrieves data from the Statistics
 - Sharing Hub and publishes it on the
 - directory.gdcatalog.go.th website.
 - 2. This website operates within the framework of the government's mobile
 - application.
 - 3. We initiated the initial phases by retrieving population and migration datasets from the Statistics Sharing Hub.

SDMX Innovation in TNSO







The effort and hard work

The process of collecting and managing statistical data from multiple sources and structuring it according to SDMX standards is time-consuming and requires a significant amount of human resources as well as training and assimilation by newcomers.

Adapting to Rapid Tech Advances and User Data Demands

Managing evolving technology and meeting user data demands is a continual challenge, and staying synchronized with technological advancements is crucial.







The Future work

We will enhance systems and tools to efficiently gather and format statistical data from various government agencies into structured, SDMX-compliant data, employing these four systems.



Data Conversion Service

Supporting government agencies in transforming unstructured data into structured data through a central service.



Graphical Data Display Service

Enabling government agencies to present data in their preferred format for visualization.



System for Statistical Compilation

Collecting statistics from primary data sources to create standardized structured datasets within the National Statistical Office's Statistics Sharing Hub.







Robotic Process Automation (RPA) **System**

Utilizing RPA tools for automated statistical data collection from public sector agencies



Meet Our Best Team

Project Manager



Mr.Songpon Maisalee

SDMX Team **Government Strategic Information Center Thailand National Statistical Office**



THANKYOU (





Visit Our Website: https://stathub.nso.go.th

