The Development and Advanced Use of Open Data

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Agenda

1. Government Open data policy

2. TNSO and our open data policy

3. The Initiatives and Advanced Use of Open Data
   - Agricultural Open Data
   - Water Resource Open Data
   - TH Government Spending

1. Government Open data policy

Digital Government Development Plan
: Open Data for the development of 26 capacities

Enhancing The Quality of Life
Citizen Welfare
Workforce efficiency
Education
Public Health

Enhancing Competitive Advantages in Private Sector	
Agriculture efficiency	SME
Tourism industry	Tax and national revenue
Foreign investment	Transportation and Infrastructure
International Trade	Public utility

Enhancing National Defense and Stability
Public safety
Border and immigration management
Natural Disasters
Crisis Management

Enhancing Government Efficiency	
Finance and Budget Allocation	Property management
Public Procurement	Human resource and payroll

Digital Government Infrastructure		
Gov data integration for public service	Data Dissemination	Digital Government Infrastructure
ID Identification and Rights management	Public Opinion	Capacity building for public sectors

Data as an Infrastructure

Open data from government organizations

1. Government Open data policy (cont.)

Current Situation about Thailand's Open Government Data

Policy and Standard

- Government begin to initiate the policy by assign Electronic Government Agency (EGA) to open the data.go.th site.

- Various data standard form each agency still be the problem to use the unique common data filed.

Access and Dissemination

- Government data can be access but mostly produce in document format as .doc .pdf that difficult to work with machine process.
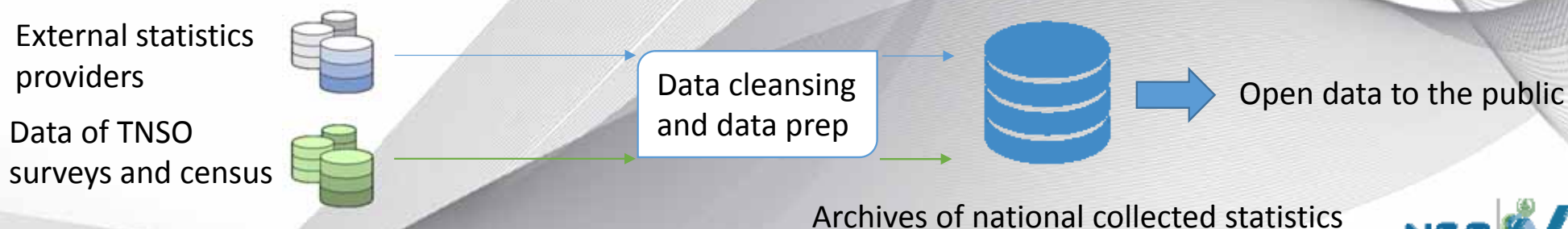
Working Culture

- The mind set of Government Officer about Government Data is still be confidential. Most of them not willing to open.

2. TNSO and our open data policy

- The 2nd Thailand's Statistical Master Plan 2016-2021 (2st TSMP)

- to promote and develop
  - official and standardized statistics
  - the equality in digital technology
  - data exchange and linking system between the relevant agencies on the digital infrastructures nationwide
    - Common use of open data
    - National value datasets

- National Digital Economy Master Plan, also formulated to provide and develop digital infrastructures nationwide so it will encourage the 2st TSMP to its full potential.
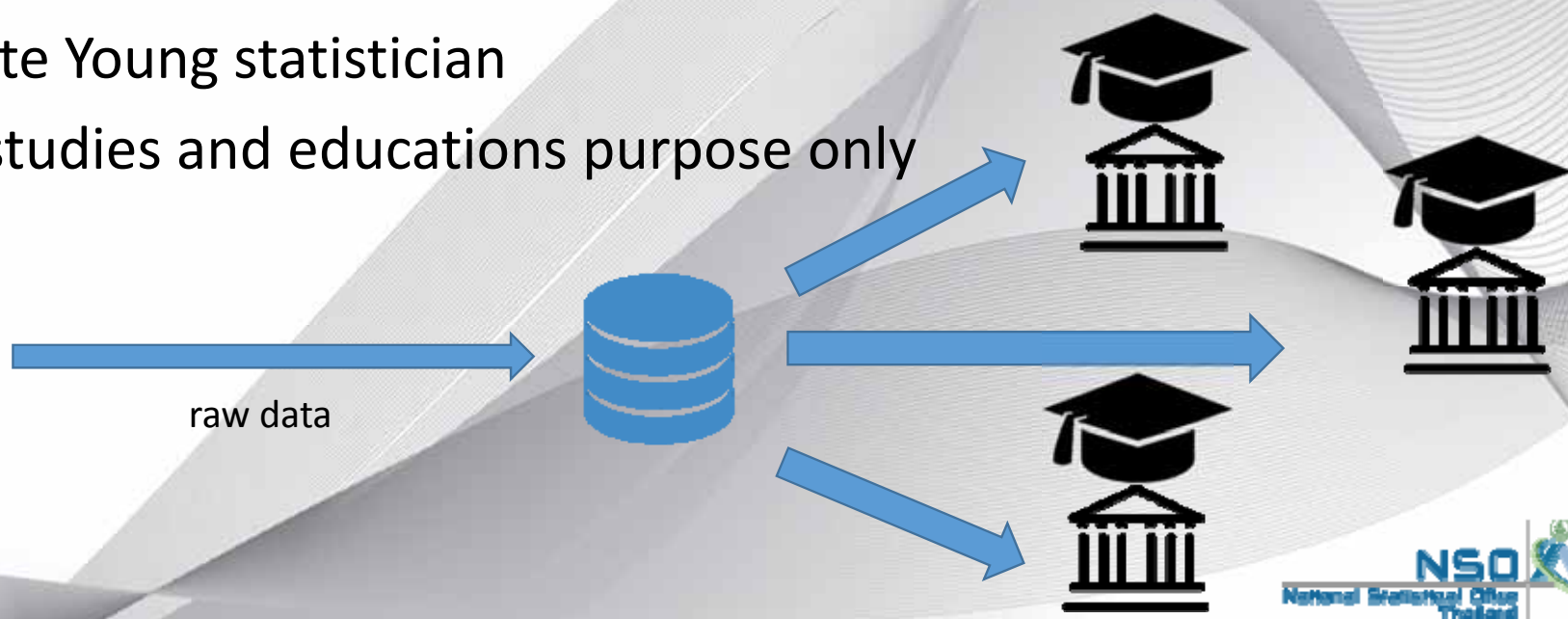
- For decades, TNSO, by Statistical Forecasting Division provides raw data of surveys and census under Statistics Act and regulations, and there are fees.

- In the near future, TNSO will allow the public to access our archives of collected statistics; a national database internal and external agencies with less conditions to promote nationwide use of more information.
  - no registration required
  - free of charge

External statistics providers

Data of TNSO surveys and census

Data cleansing and data prep

Open data to the public

Archives of national collected statistics

2. TNSO and our open data policy (Cont.)

- TNSO plans to grant access of raw data for Universities and educational institutes that agree to sign the MOU with us
- Promote experimental learning
- The Initiative to build up academic cooperation and Raw data Laboratory
- Create Young statistician
- For studies and educations purpose only

raw data

3. The Initiatives and Advanced Use of Open Data

1. Agricultural Data Integration and Zoning Optimization Modeling : What2grow

2. National water management : statistics and open government data

3. Thailand Government Spending : mobile and web application

3. The Initiatives and Advanced Use of Open Data (Cont.)

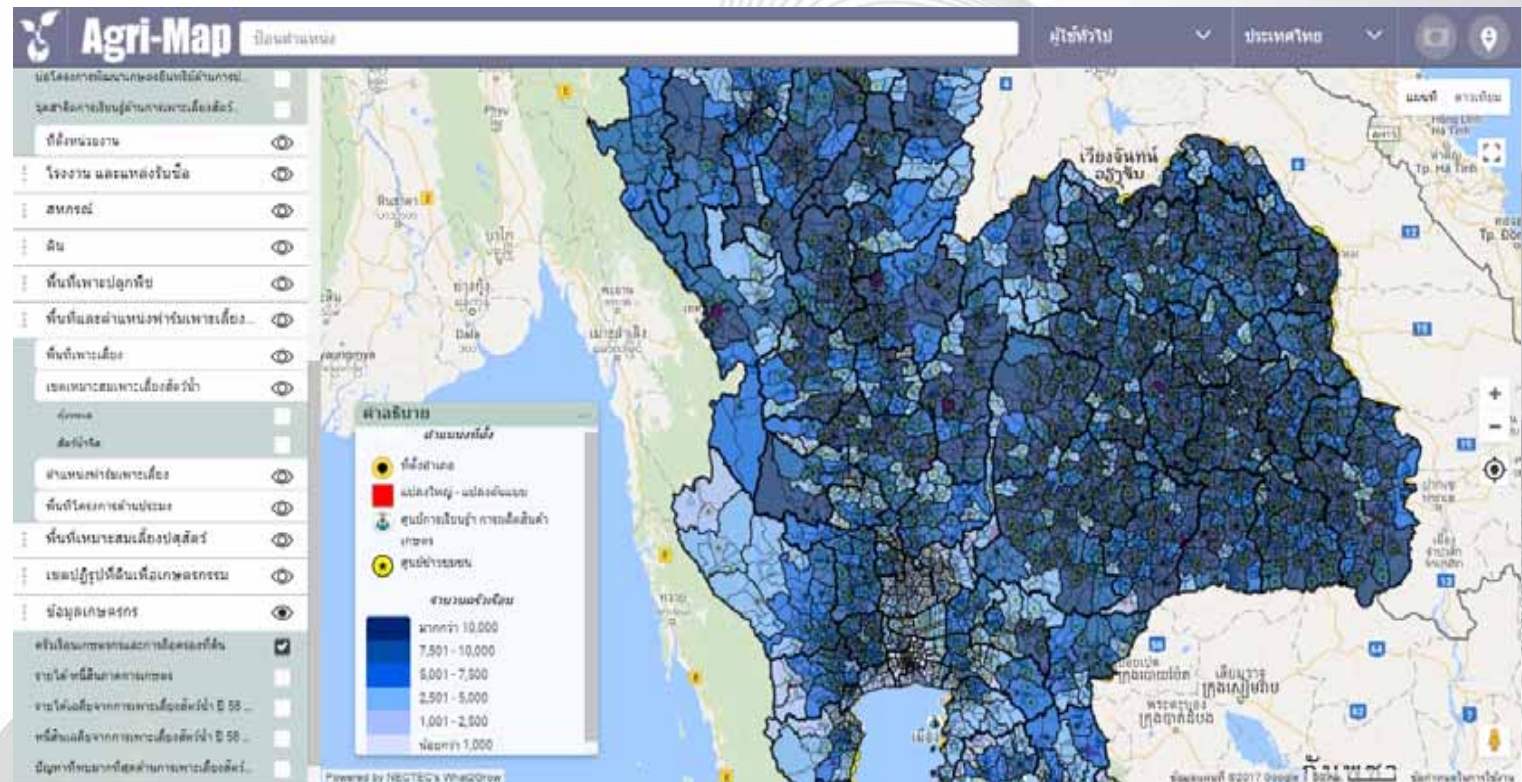What2grow is agricultural data integration and zoning optimization project

- boosting productivity

- help farmers to grow the 'right' crops

- provide information related to soil type, weather, and supply and demand humidity, rainfall, wind speed, wind direction and temperature

- developed by the National Electronics and Computer Technology Centre (NECTEC)

- required intra-governmental cooperation

what2grow

- enable the management of information resources

- facilitate the prediction of demand for crops, leading to greater productivity among farmers

- improve their quality of life.

This picture indicates the amount of Agricultural household classified by the population density (sky blue: less than 1000, dark blue: more than 10,000).

https://www.what2grow.in.th

3. The Initiatives and Advanced Use of Open Data (Cont.)

TNSO and the role to support National water management

- develop a nationwide database of water resources

- achieve sustainable water management in 25 watersheds (Phase 1)

- acquire Water Management Index (WMI) as a quality tool for decision-making determining future water management practices.

- carry out the data collection to support and link the national water and climate data archives.

TNSO and the role to support National water management

The water management indicators are as follows:

1. Water Cost
2. Water Consumption
3. Water Security for Development
4. Water Balance of Costs and Utilization
5. Water quality management and ecology
6. Water disaster management
7. Upstream forestland conservation
8. Water resources management
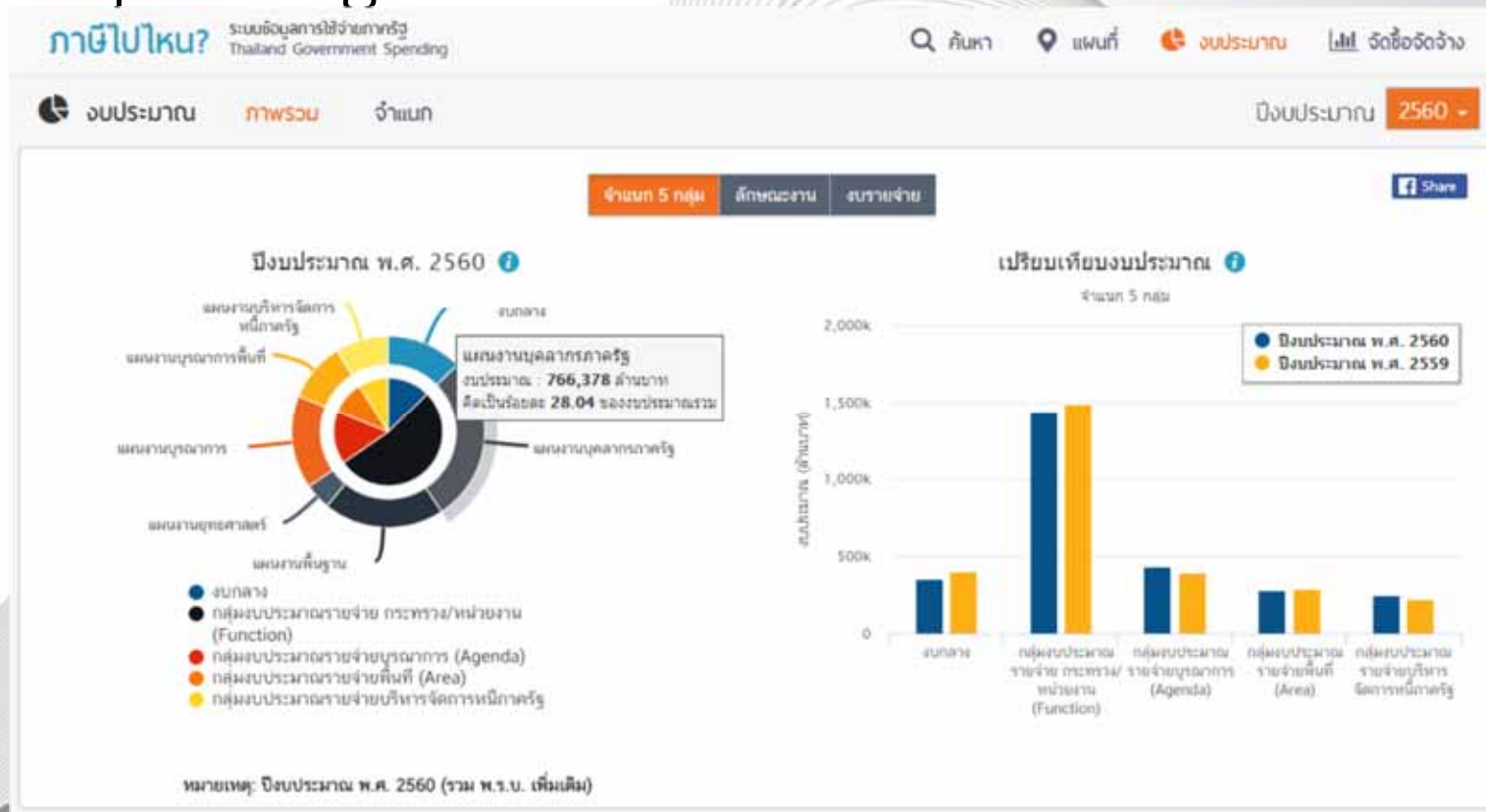
Thai Government Spending

- Create transparency and reduce corruption in the public sector as every citizen is the heart of Thailand's development in the digital age.
    - iOS: http://apple.co/2xVjCOL
    - Android: http://bit.ly/2y4AgLB
- https://govspending.data.go.th/

Thai Government Spending

- We invite you to check the budget of the government to reduce corrupt corruption and promote transparency in public procurement by yourself.

Q/A Session

- Thank you