

For the People, Society and the Future

Reliable Statistics and Competent Technology

National Statistics Center - Change and Challenge -

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National Statistics Center

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1. Overview of the National Statistics Center

Three Roles of the National Statistics Center



In order to complete the mission of accurate preparation of official statistical information as critical information for the citizens in their reasonable decision making and its efficient provision without delay, the National Statistics Center is required to undertake the following roles:



1. Produce Statistics

Preparation of fundamental national statistical data, such as those on demography, unemployment rate and consumer price index.





2. Exploit Statistics

Provisions of statisticsrelated services to general users of statistical data, respondents to a survey and researchers at their convenience and security.



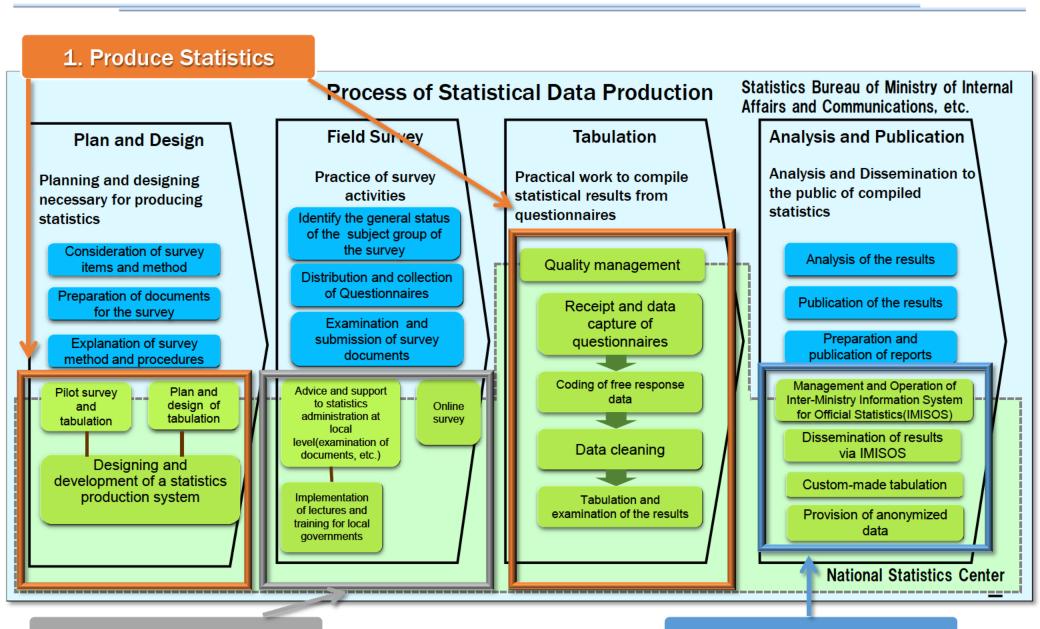
3. Support Statistics

Implementation of system management and projects to produce statistical data for national government offices and ministries, local official entities, international organizations and governments of other countries.



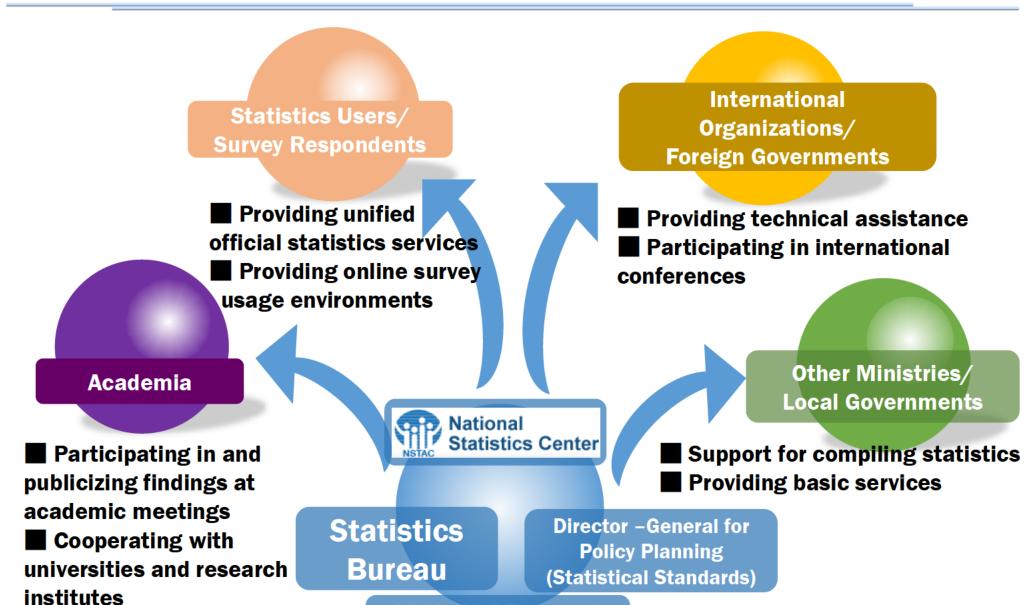
Process of Statistical Data Production and Roles of the National Statistics Center





A Specialist Agency Supporting Official Statistics System





Statistical Research

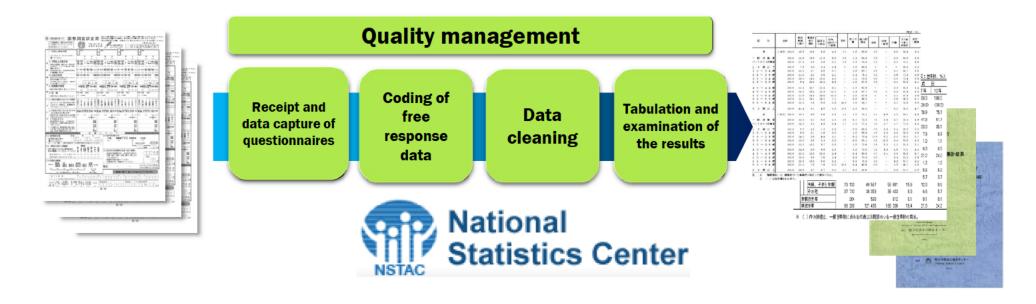
and Training Institute



2. Measures for promoting improvement and efficiency in business operation

Production Process





No. of questionnaires to be processed:

Approx.16 million questionnaires

No. of survey items:

Approx. 900 million items

No. of survey items which require classification into industrial, occupational or expenditure item categories:

Approx. 63 million items

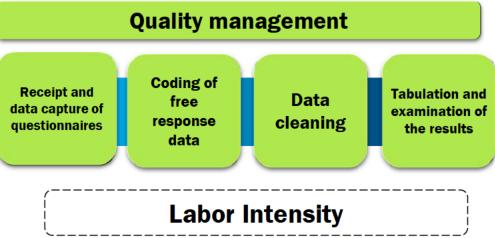
No. of statistical tables:

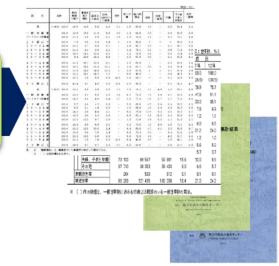
Approx.17,000 tables

Production Process









More timely and accurate

Utilization of ICT/automation

Standardization of System

Staff focus on high-level judgment based on their expertise

Utilization of ICT: OCR/character recognition





- Image capturing
- recognition of figures/marks
- recognition of characters
- management of data

あいうえか

阿亚合相安

Complexity of Character

Features of

Japanese text

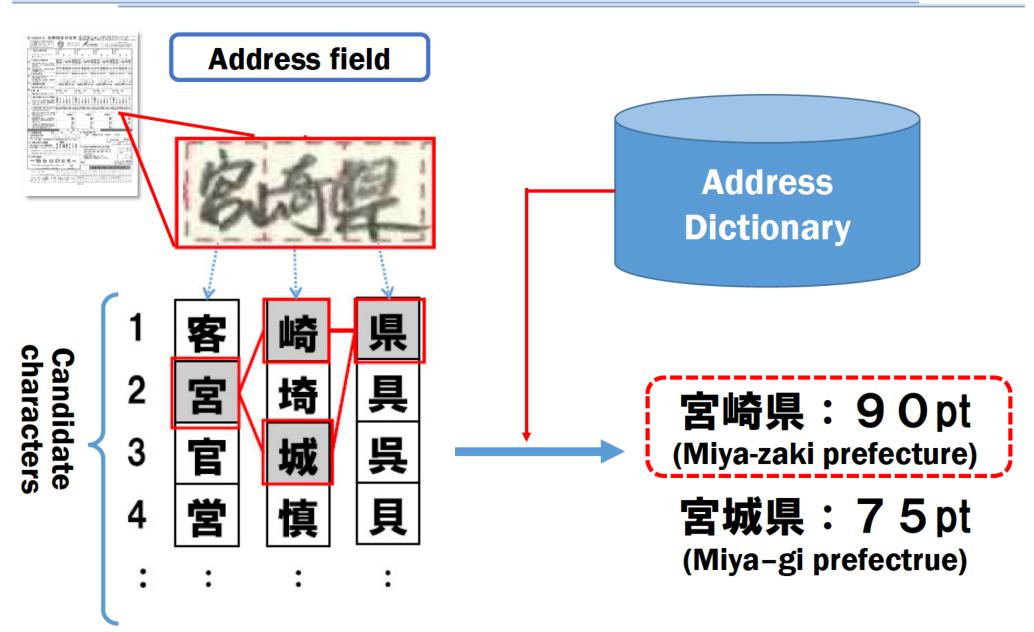
アイウエオ

AaBbCc

Combination of various types

Utilization of ICT: OCR/character recognition





Utilization of ICT: Coding



Various kinds of expressions

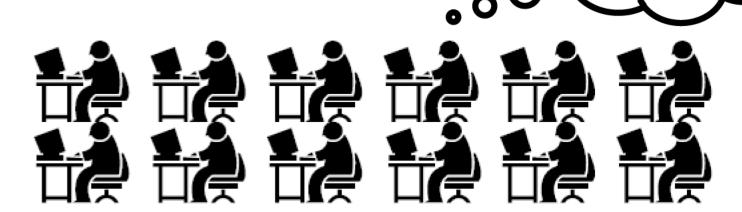




J (FINANCE AND INSURANCE)

D (Sales workers)

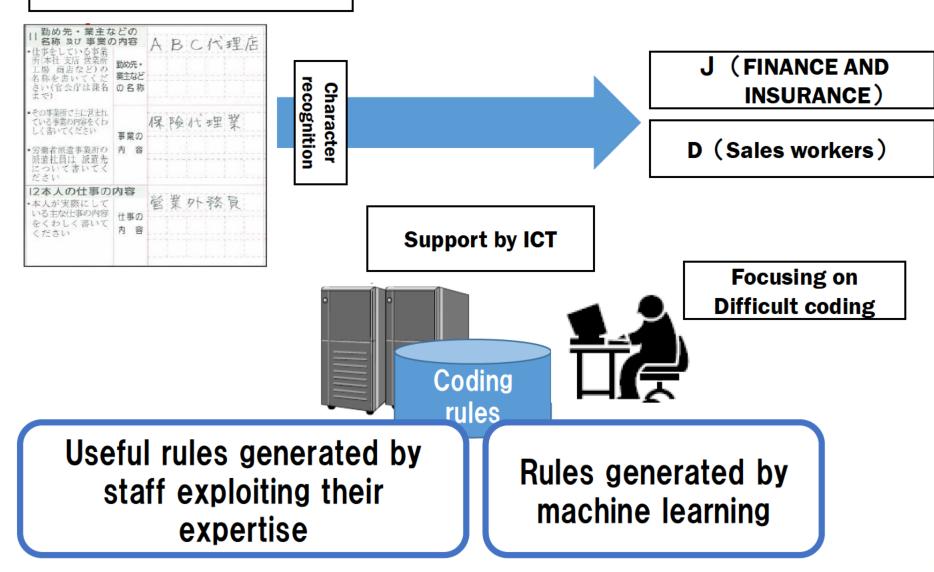
Coding by manpower



Utilization of ICT: Coding



Various kinds of expressions



Reform of Business Process



Purpose of business

Production of Tables \Rightarrow Production of Database





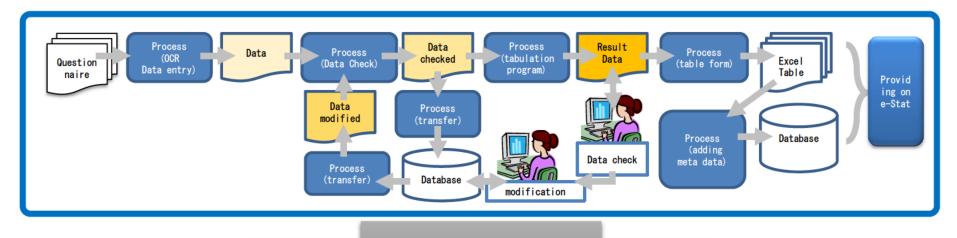
Advanced utilization of data



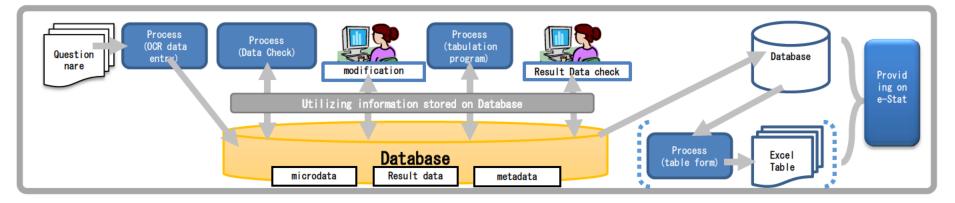
Reform of business process



So far: Data file exists/managed in each process "Process oriented"



Future: Change to "Data oriented approach"



- Efficient data management, easy to expand functions
- Development infrastructure toward data provision/utilization services



3. Development of Statistical Service

Promotion of the effective use of statistical data



2007 Statistical Act was fully revised Official Statistics as "information infrastructure for society"

New framework for contributing to the development of scholarly investigation and higher education

Provision of the Anonymized Data

The data allows application of advanced statistical analysis, such as multivariable analysis.

National Statistics Center produces approximately 180 Data files every year

Tailor-made Tabulations

The tabulation enables statistical tables processed as requested

National Statistics Center produces
Approximately 100 tables
every year

Development of Statistical Service



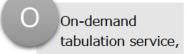
"COMMONS"

=Common resource of all



Contributing to further effective utilization of Official Statistics by expanding statistics services for people

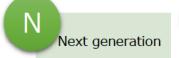






Server







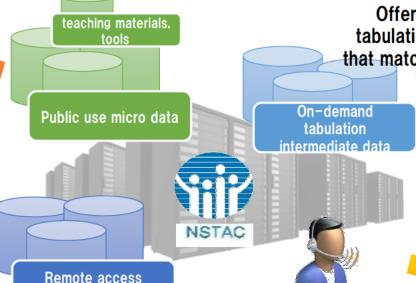


Experience of statistical analysis. Enhancement of statistics education



(Researchers etc.)

ruction of the environment



Offer of the tabulation tables that matched needs



Researchers. local official entities

Statistics concierge

Central data management facilities Comprehensive window for statistics usage

Appropriate information, Guidance of the statistics service



Statistics users 8



4. Challenges for the future

Challenges for the future



- Importance of data-based decision making and forecasting. Necessity of Data literacy
 - ⇒ The increasing responsibility of the National Statistics Center in society
- As a professional agency of statistics,
 - producing useful data and information,
 - promoting utilization of data
- The National Statistics Center shall play a central role in the data and information community
 - ⇒ improving value of statistics data
 - contributing to realize a "Better society with data" in Japan, and around the world



Thank you very much for your attention



National Statistics Center

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