Statistical System, International Comparison, and Strategies for Advancement of Statistics

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National Statistical System

Strategies for Advancement of Statistics







About KOSTAT

- Mission & Vision
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- Organization
- Major Functions





Mission & Vision

MISSION

Lead advancement of official statistics and produce reliable statistics

VISION

Highly advanced Statistics Korea opens the future with the general public

KOSTAT Strategies

Strengthen
infrastructure
of official statistics to
produce high-quality
statistics

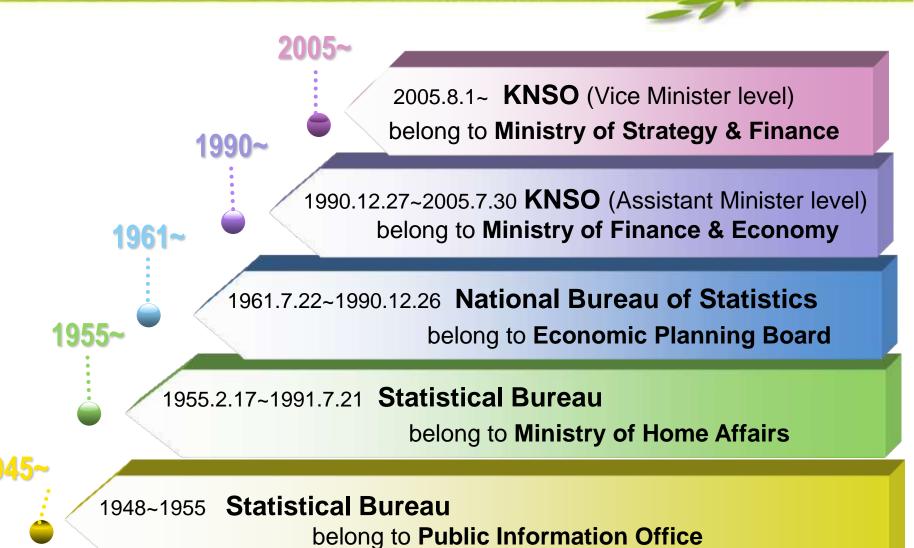


Enhance customer satisfaction with user-centered statistical services





History of the KOSTAT







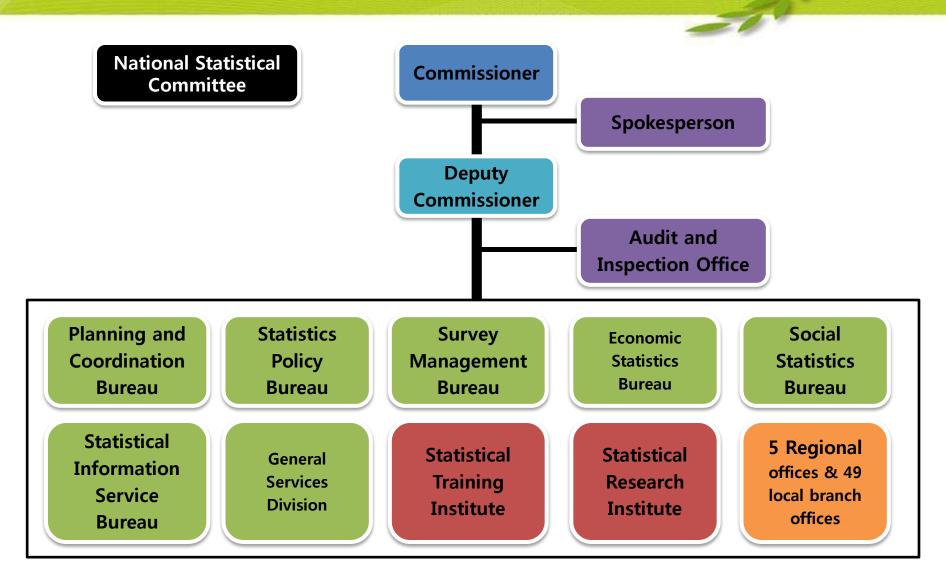
Major Events Occurred

Date	Main feature
26 Dec. 1990	Head of KNSO was upgraded to the level of Assistant Minister
1 Sep. 1995	1st Celebration of Statistics Day
1 July 1998	Statistical work of Ministry of Agriculture & Fishery was transferred to KNSO (500 persons) — Farm Household Economy Survey
1 Aug. 2005	Head of KNSO was upgraded to the level of Vice Minister
1 Jul. 2006	Statistical Research Institute was established
1 Feb. 2008	Statistical work of Ministry of Agriculture & Fishery was transferred to KNSO (699 persons) — Agricultural Production & Fishing Catchments)
1 Feb. 2009	12 Local Offices were merged into 5 Regional Offices





Organization



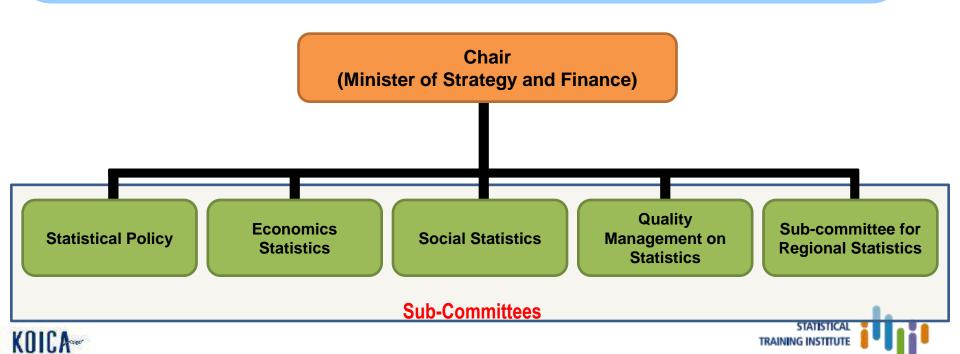




Organization (continued)

National Statistical Committee (Minister-level)

- Review improvement and development of the national statistical system
- Review short- and long-term plans for the development of statistics (statistics-policy linkage, TQM..)
- Review arrangement and adjustment for similar or overlapping statistics, and coordination of producers of official statistics
- Review quality assessment and improvement of statistics



Resources

- Manpower: 2,259 persons (6 Bureaus)
- HQ: 549 (+ 200)
- Local offices : 1,637 (+ 800)
- STI: 30
- SRI : 43
- Budget: \$340M (2010 FY)
- HQ: 6 bureaus, 40 divisions
- Local: 5 regional offices,
 - 49 branch offices
- STI: 2 divisions
- SRI: 3 divisions





Field Survey

	Total	Household Surveys	Agriculture & Fishery	Establish- ments
Total	38	6	16	16
Monthly Surveys	12	3	3	6
Quarterly Surveys	2	-	1	1
Yearly Surveys	24	3	12	9





Monthly Surveys(for Household)

(unit : household				
Name of Survey	Reference and Survey Period	Sample Size	Survey Methods	
Economically Active Population Survey	The week, 15th	32,000	CATI, CASI, Face-to-face	
Household Income & Expenditure Survey	1st ~ 31th	9,000	Daily book, Electronic form	
Housing Rent Survey	25th	10,000	Face-to-face	
Food Grain Consumption Survey	Beginning of a month	999	Face-to-face	





Monthly or Quarterly Surveys(Agricultural & Fishery)

(unit : household)

Name of Curvey	Reference and	Sample	Curvoy Mathods
Name of Survey	Survey Period Size		Survey Methods
Farm Household Economy Survey	Every month	2,800	Diary book
Crop Land Cultivation Survey	5 times a year		At fields
Agricultural Production Survey	At harvest		At fields
Agricultural Production Cost Survey	Every month	2,147	Dairy book
Fruit Production Cost Survey	"		Face-to-face
Poultry Stock Survey	Quarterly	16,696	Face-to-face, Telephone
Poultry Production Cost Survey	Every month	1,400	Diary book
Food Grain Consumption Survey	"	1,639	Face-to-face
Fishery Household Economy Survey	"	1,144	Dairy book
Fish Catching Survey	"	32,907	Face-to-face, Telephone





Monthly Survey(Establishments)

(unit : establishment)					
Name of Survey	Reference and Survey Period	Sample size	Survey methods		
Current Mining & Manufacturing Survey	1st ~ 19th	8,300	Face-to-face, CASI		
Machinery Orders Received survey	1st ~ 19th	162	Face-to-face		
Construction Orders Received Survey	1st ~ 19th	441	Face-to-face		
Whole & Retail Trade, Service Survey	1st ~ 19th	9,300	Face-to-face, CASI		
Cyber-shopping Mall Survey	1st ~ 22th	1,018	Face-to-face		
Consumer Price Survey	5th. 15th. 25th	21,500	Face-to-face, PDA		





Yearly Surveys

(unit : household, establishment)					
Name of Survey	Reference and Survey Period	Sample size	Survey methods		
Social statistics survey	June	16,000	Face-to-face		
Basic agricultural statistics survey	December	63,000	"		
Agricultural & fishery establishment survey	April	6,000	"		
Whole & retail trade and service survey	May ~ June	105,000	"		
Transportation survey	April ~ May	6,900	"		
Business activities survey	September	14,000	"		





Special Functions

Dissemination of Statistical Information

Provide statistical data for a variety of users in various formats

ØUsers: Policy-makers, researchers, universities, companies

ØFormats: publications, KOSIS, CD, Data-Warehouse, micro-data

Build Web-based database system for the general public

Ø KOSTAT Main Website [http://www.kostat.go.kr/eng]

· Monthly hits: 6,480 thousand

Ø KOSIS Data Service [http://kosis.go.kr]

· Statistics portal system in Korea

Ø SGIS [http://gis.kostat.go.kr]

·Statistical Geographic Information System





Special Functions (continued)

International Statistical Cooperation

- Exchange statistical missions on main issues with bilateral activities
 Ø Japan, China, Germany, Mongolia, Vietnam, Thailand, Iran, UAE, Kazakhstan
- v Host or participate in international statistical conferences or courses Ø UN, OECD, ESCAP, ECE, ILO, ISI, IMF, SIAP
- v Provide statistical data to international organizations Ø OECD, IMF, UN, etc.
- v Technical Assistance for statistical capacity building of developing
 - Ø Collaboration with the KOICA (seminars, experts, etc.)
 - Ø Host SIAP Statistical Training Courses
 - Ø Provide consulting service (IT) in cooperation with IOs





Special Functions (continued)

Statistical Training and Research

- STI trains statisticians from the public and private sector
 Ø deal with a wide range of topics (sampling techniques, survey methodology, individual surveys, statistical packages ...)
- SRI conducts analytic research relating to official statistics
 - Ø Advanced analysis techniques, analysis of socioeconomic change and implications, new areas of statistics ...
- v The Statistics Center newly constructed in September 2009 for SRI and STI





Statistics Developed over Time at KOSTAT

	1960s	1970s	1980s	1990s	After 2000 ~ 2008
Total	18	9	5	14	7
10-year	- National Capital Stock				
5-year	- Censuses on Population & Housing, Industry, Wholesale & Retail Trade, Agriculture & Fisheries			-Family Income & Expenditure -Population Projection for Whole and Provinces - Time Use	- Forest - Household Projection
Biennial		- Statistical Manpower & Budget		- Statistical Demands - Response Burden	
Annual	- Vital Statistics - Mining & Manufacturing - Construction - Agricultural Production Cost - Basic Agricultural Statistics	 Internal Migration Social Statistics Survey Transportation Basic Fisheries Statistics Food Grain Consumption 	- Wholesale & Retail Trade - Service Industry - GRDP	- National Establishments Survey - Life Tables - Social Indicators - Cause of Death	-Agri. & Fishery Establishment -Environment Industry • Regional Labor Force Survey(2008)
Monthly	- Labor Force Survey - Income & Expenditure - Consumer Prices - Current Mining & Manufacturing - Farm HH Economy, - Fisheries HH Economy	- Construction Orders Received - Machinery Orders Received, - Manufacturing Production Capacity & Operation Ratio	-Composite Indices - Wholesale & Retail Trade	-Value of construction completed - Estimation Index of Equipment Investment - Activities on Service industries - Consumer Sentiment	- Cyber shopping mall - E-commerce by enterprises - International migration

2

National Statistical System

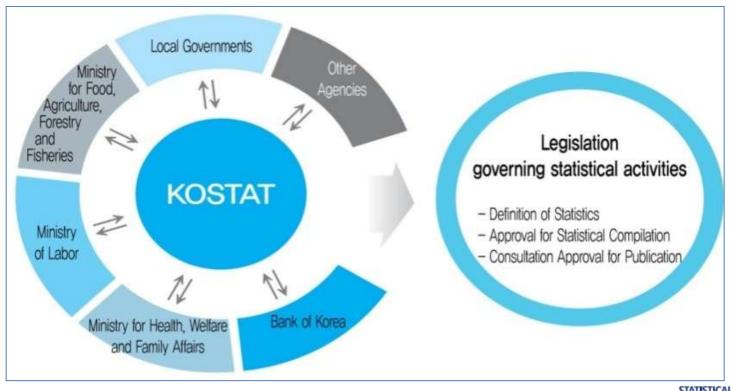




National Statistical System

Decentralized Statistical System

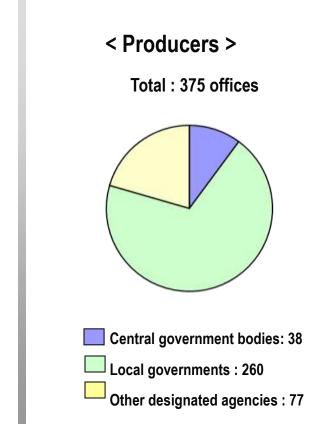
375 organizations produce 850 subjects of official statistics.







Decentralized Statistical System

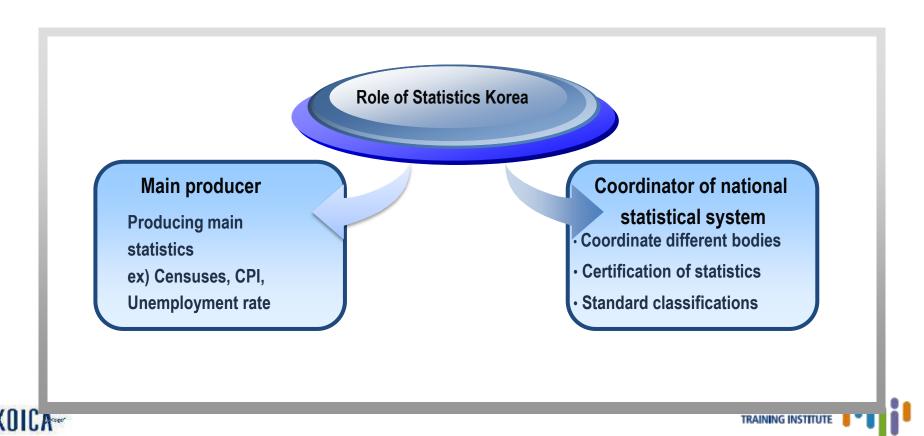


< National Statistics > Total: 850 statistics 500 304 287 400 259 300 200 100 0 **Economical Social** The Area Area others



Role of the Statistics Korea

 KOSTAT plays a key role in integrating and coordinating statistical activities of all agencies.

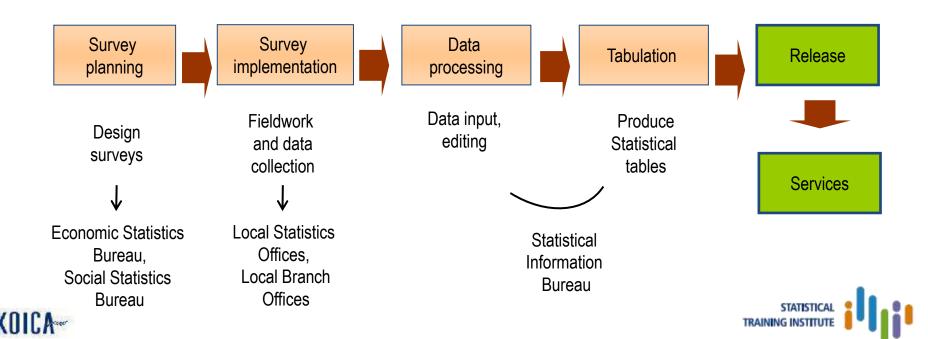


Role of Statistics Korea

Main Producer – Compile Statistics

Survey Procedure

Statistical works have various steps in the procedures from producing statistics, which are needed by relevant fields, to supply data to users.



Role of Statistics Korea

Main Producer – Compile Statistics

Population and Housing Census

- v To clarify the size, structure, distribution and characteristics of the population, households and housing
- v The Population Census has carried out every 5 years since 1925
- v Periodicity: year ending in 0 & 5
- v Scope and Coverage : the whole area of KOREA
- v Method of Data Collection : self-enumeration method for residing in apartment and interview for other households



Role of Statistics Korea

Coordinator of National Statistical System

Verify and approve newly compiled statistics,

Establish statistical standards and classifications,

Sampling, preparation of survey, statistical analysis and other technical support,

Support the production of regional statistics,

Identify and resolve new statistical need,

Strengthen the linkage between statistics and policies.





THE STATISTICAL ACT REVISION (OCT 2007)

- Revised in order to support the development of a more efficient national statistics system.
- Designation of statistical officers in statistical agencies for identifying statistical demands and effectively coordinating statistics.
- Adaptation of a periodical, occasional, and self-assessing statistical quality review system.
- Provision of necessary administrative data to produce official statistics
- Definition of scope and process for the system of statistics-based policy management.





Why we study on statistical system?

- Every country has a long history to establish Central Statistical
 Organization (CSO) dating back to around 1800.
- However, the statistical system shows a notable difference, reflecting the historical and cultural facets unique to each country.
- This leads to the significant variance in the quality of statistics (relevance, accuracy, timeliness, accessibility, coherence).
- Thus, it is important to understand individual circumstances of each statistical system, especially for the purpose of comparing data internationally.





Issues to be Considered

- To what degree is data accumulation of various administration statistics centralized through CSO or decentralized over the relevant authorities?
- In collecting data, how do the cooperative and complementary relationship between the central and local governments work?
- What is the relative importance of the surveys to the administration statistics?
- To what extent are various kinds of statistics compiled by CSO?
 Especially, is SNA compiled by the CSO?





Classification of Statistical Activities

Domain	Area
Demographic and Social Statistics	Population and migration, Labour, Education, Health, Income and consumption, Social protection, Human settlements and housing, Justice and crime, Culture, Political and other community activities
	Macro-economic statistics
	Economic accounts
	Business statistics
Economic	Sectoral statistics (Agriculture, forestry and fisheries, Mining and manufacturing, Transport, Tourism, Banking, insurance and financial)
Statistics	Government finance, fiscal and public sector statistics
	International trade and balance of payments
	Prices (CPI only)
	Labour cost
(OICA	Science and technology

Classification of Statistical Activities, Cont'd

Environment

Regional and small area statistics

Environment and Multi-domain Statistics

Multi-domain statistics and indicators

- Living conditions, poverty and cross-cutting issues
- Gender and special population groups
- Information society
- Globalization
- Indicators related to MDGs
- Sustainable development

Yearbook and similar compendia





Classification of Statistical Activities, Cont'd

Domain	Area			
	Meta-data			
	Classifications			
Methodology &	Data sources (Censuses, Surveys, Registers, etc.)			
Data Collection, Processing &	Data editing and data linkage			
Analysis	Dissemination, data warehousing			
	Statistical confidentiality and disclosure protection			
	Data analysis			
	Institutional frameworks and principles			
Strategic &	Coordination within statistical systems			
Managerial	Quality frameworks and measurement of performance			
Issues of	Management and development of human resources			
Official	Management and development of technological resources			
Statistics	Coordination of international statistical work			
Technical cooperation and capacity building STATISTICAL TRAINING INSTITUTE				

Countries by Type of Statistical System

Decentralized System	Centralized System
China (NBS)	
Japan (SB)	
Korea (KOSTAT)	
India (Ministry of Statistics & Program	Canada
Implementation,)	Australia (ABS)
Singapore (DOS)	New Zealand
Thailand (NSO)	Indonesia (CBS, ?)
Viet Nam (CSO)	Germany (FSO)
France (INSEE)	Netherlands
Sweden	
U.K (ONS)	
U.S.A (11 Principal Organizations)	
Sion (i i i i i i i i i i i i i i i i i i	
KUILV	STATISTICAL TRAINING INSTITUTE

Pros and Cons of Decentralized System

Advantages	Disadvantages
Easy to compile the administration	
statistics that is relevant to the	Not easy to cater to all
working of the ministries such as	information needs.
railways, postal services, health	
services, telecommunications, etc.	Possible duplication in
	data collection efforts.
Minimal costs in the collection of	
data.	Possible discrepancies
	in applied concepts and
Good knowledge of the subject and	definitions.
in best position to interpret data.	
	The coordination role of
Easy to cater to all information	CSO is required.
, needs.	STATISTICAL 🙎 📗 👢 🔒

CSOs managed by Agency-type

- * Agency: Not financed from the general tax revenue
- UK Office for National Statistics
- Statistics Sweden
- Statistics Norway
- Australian Bureau of Statistics
- Statistics New Zealand
- Japan (only Statistical Information Center)
- Korea (only 5 Regional Statistics Offices, and SRI)
- Senior staffs are recruited on a competitive basis.
- Staffs are evaluated by performance indicators.
- Some budgets come from the outside agencies.





Is the CSO adherent to FPOS?

FPOS: Fundamental Principles of Official Statistics

- 1. Meet the needs of users and be made available impartially.
- 2. Be based on professional consideration.
- 3. Provide the meta-data
- 4. Prevent misuse of statistics.
- 5. Use all types of sources.
- 6. Keep individual data confidential and use them only for statistical purposes.
- 7. Make laws and regulations public.
- 8. Promote coordination and cooperation among agencies.
- 9. Follow international guidelines.
- 10. Promote international cooperation.





Statistical Personnel in A & P Countries

	C	SO			Local Governments
	Total	HQs	Local Branches	Other Ministries	
Korea (2007) - Regular	1,700	500	1,200	1,500	120
- Irregular	700	200	500	?	?
Japan (2004)	1,506	1,506	-	5,692	2,242
U.S.A (2004)	11,347	6,023	5,324	6,004	1,000
Canada (2004)	6,500	4,400	2,100	500	160
Australia (2004)	2,873	1,661	1,212	50	150
N.Z (2003)	762	762	-	?	?
China (2000)	19,500	1,500	18,000	?	70,000
Singapore (2005)	250	250	-	?	?
Thailand (2005) - Regular	934	533	401	?	?
- Irregular	1,533	489	1,044	?	?
(OYiet Nam (2005)	5,000	500	4,500	? 18/	STATISTICAL AINING INSTITUTE

Statistical Personnel in European Countries

	Central Statistical Organization				
	Total	HQs	Local Branches	Other Ministries	Local Governments
France (2001)	6,452	2,139	4,313	2,923	?
Germany (1999)	2,656	2,656	-	?	7,941
UK (2001)	3,321	3,321	-	2,301	?
Switzerland(1998)	470	470	-	?	500
Netherlands (2000)	2,500	2,500	-	?	?
Finland (2002)	1,074	1,074	-	?	?
Belgium	?	?	?	?	?
Denmark	635	635	-	?	?
Italy	?	2,366	208 Offices	385	?
Norway	900	900	-	?	?
Spain	?	?	50 Offices	?	?
Sweden	1,300	1,300	-	?	?
Ireland	731	731	-	?	?
Portugal	850	?	5 Offices	?	?
(ALSMia	1,220	1,220	-	? "	STATISTICAL RAINING INSTRUTE

Statistical Personnel in International Organizations

International Organizations	Year	No. of Staffs	Location
EUROSTAT	2001	813	Luxembourg
OECD – Statistics Directorate - Other Directorates	2004 2004	80 150	Paris
UN Statistics Division	2004	124	New York
ESCAP Statistics Division		30	Bangkok
ECE Statistics Division	2005	30	Geneva
IMF Statistics Department		?	Washington, D.C.
ILO Bureau of Statistics	2005	15	Geneva STATISTICAL TRAINING INSTITUTE

Example of Statistical System - India

- Ministry of Statistics & Program Implementation
 - Central Statistical Organization (CSO): National Accounts, IPI, CPI, etc.
 - National Sample Survey Organization (NSSO): Survey design, field operations, tabulation.
 - Computer Center: Processing data collected by the CSO and NSSO.
 - Indian Statistical Institute: Empowered to award degrees in statistics, mathematics, computer science, quantitative economics.
- Other Central Ministries : Agriculture, Labour, Commerce, Industry,
 Water Resources & Health





Example of Statistical System – U.S.A.

Departments	Statistical Organization	Manpower (2003)	Budget (2003, in Million \$)
Department of Commerce	Bureau of the Census (BOC) Bureau of Economic Analysis (BEA)	8,822 (F/T 6,142) 556 (F/T 533)	571 66
Department of Agriculture	National Agricultural Statistical Service (NASS) Economic Research Service	1,358 (F/T 1,352) 504 (F/T 465)	138 69
Department of Education	National Center for Education Statistics (NCES)	108 (F/T 107)	184
Department of Energy	Energy Information Administration (EIA)	369 (F/T 352)	80
Department of Health and Human Services	National Center for Health Statistics (NCHS)	516 (F/T 469)	126
Department of Justice	Bureau of Justice Statistics (BJS)	57 (F/T 52)	32
Department of Labor	Bureau of Labor Statistics, (BLS)	2,792 (F/T 2,376)	492
Department of Transportation	Bureau of Transportation Statistics (BTS)	140 (F/T 136)	30
Department of Treasury	Statistics of Income Division (SOI)	?	32
National Science Foundation	Statistics Division	? STATIST TRAINING INSTI	TUTE 36

Example of Statistical System – U.K.

- Minister for National Statistics : Minister of Finance
- Government Statistical Service (Heads of Profession)
 - Decentralized system, across 30 Government Departments (3,000) and at the ONS (4,000)
- National Statistician: Head of the Office for National Statistics,
 Head of GSS as well as Registrar-General
 - No overall statistical legislation
 - National Statistics Framework, Code of Practice
 - National Statistics protocols (quality management, etc.)
 - Annual Report and 3-Year Program



Statistical Activities at Local Level

Type I	Type II	Type III	Type IV
Both CSO's Branch Offices and Local governments are active.	CSO's Branch Offices are active, but Local governments are weak.	CSO's Branch Offices does not exist. Local governments are responsible for data collection.	CSO HQs are directly responsible for data collection.
- Korea - Canada - U.S.A Australia (Queensland Government) - China (Type III	FranceIndonesiaPhilippinesThailandViet Nam	JapanGermanySwitzerlandIndia	 U.K. Finland New Zealand Sweden Singapore

Types of Statistical Council or Commission

	Countries	Name	Chair	No. of Members
Type I	Korea	Statistical Council	Commissioner of KNSO	29
	Japan	Statistical Council	From academy	11
	Australia	Statistical Advisory Council	From academy	18
	Sweden	Council for Official Statistics	Director-General of Statistics Sweden	7
	France	Council for Statistical Information	Minister of MOFE	100
Type II	UK	Statistics Commission	From academy	7
F	Philippines	National Statistical Coordination Board	D-G of National Economy Development Authority	Under secretaries
Type III	USA	Statistical Policy Office, OMB	Chief Statistician	8 STATISTICAL TRAINING INSTITUTE

Coordination Role in Statistical System

Type I	Type II	Type III
By Advisory Committee (Council)	By Independent Organization	By Board or Council
To provide advisory role to CSO (weak)	To provide work on the priority setting and policy formulation (strong)	To provide supervisory role through the approval for the work of CSO and the preparation of annual evaluation report.
 - Korea - Japan - Hong Kong - Canada - Australia - Belgium - Finland - Germany 	 - UK - Statistics Commission (http://www.statscom.org.uk) - Philippines (National Statistical Coordination Board, NSCB) - U.S.A (Statistical Policy Office, OMB, President Office) 	 Denmark (Board of Governors) France (http://www.cnis.fr) Netherlands (Central Commission for Statistics) Italy (Governing Board) Sweden (Board and Scientific Council) Ireland (http://www.nsb.ie) Portugal (Administration Board and Statistical Council) Austria (Statistical Council)
KNICA		STATISTICAL TRAINING INSTITUTE

Tendency of Centralization

- U.S.A. has "centralized" much of the collection of data from households through the reimbursable agreements.
- Many CSOs in a decentralized system tries to establish "One-stop Data Shopping" for users.
- More utilization of administrative records is being made, including linking and matching records on individuals for statistical purposes.
- UK merged three organizations (CSO, OPCS, BSO in 1989) into ONS in 1996.
- Bangladesh merged 4 (BOS, Agriculture, 2 Commissions for Censuses) into BBS in 1974.



Stronger Coordination Role is Required in Decentralized System

- In France, Director-General of INSEE is empowered to transfer senior statistical staff between ministries.
- In Japan, Statistics Bureau seems to be involved in the budget allocation for all other ministries.
- In UK, ONS is responsible for recruiting and training statistical personnel for the GSS.
- In Sri Lanka, the CSO has dispatched statistical staff to about 50 Government Ministries and Departments.





Strategies For Advancement of Statistics

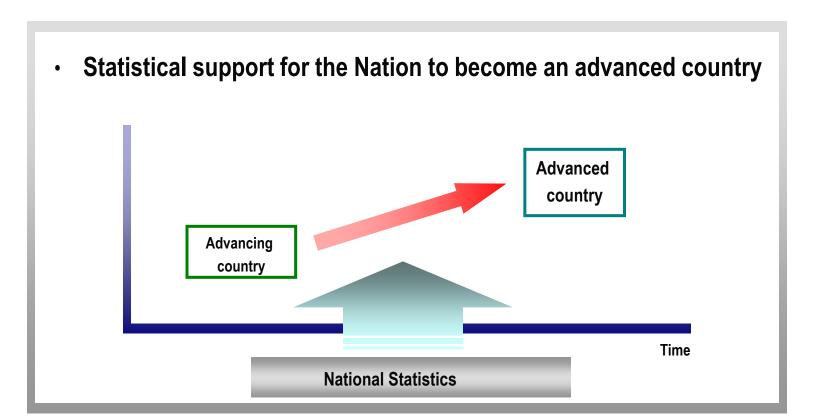
- Objectives of the strategy
- Core Strategy





Objectives of the Strategy

Objective of National Statistics







Objectives of the Strategy (continued)

Put in place statistics-based policy management

Presidential Decree revised in 2007 "Government agencies shall submit relevant statistics or plans to develop them when they revise acts." Crucial role in evaluating policies Planning stage **Evaluation Stage Execution Stage** Statistics-based policy management





Core Strategy





Develop Relevant Statistics for Supporting Policies

Produce more policy-based statistics

Produce income inequality indicators at diverse dimensions

Compile supplementary indicators of unemployment rate

 Produce statistics of newly emerging global agenda (quality of life, green growth, climate change...)





Develop Relevant Statistics for Supporting Policies

Switch to centralized statistical system

- To Enhance Policy responsiveness of Statistics
 - Conduct Surveys by KOSTAT
 - Use superior infrastructure of KOSTAT (Interviewers, IT system, etc.)

Maintain decentralized system for administrative data

Improve accuracy and confidence of official statistics





Develop Relevant Statistics for Supporting Policies

Major indicators used to evaluate local governments

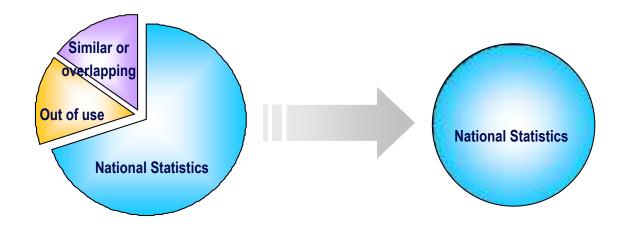
Category	Indicators
Physical Capital	· Population change
Filysical Capital	· Paved roads
Economy	· GRDP (per capita)
Economy	· Unemployment rate
Local governonce	· The fiscal self-reliance ratio
Local governance	· Number of public officials
Society and culture	· The numbers of crime
Society and culture	· Number of social welfare institutions and inmates
Globalization	· Foreigner registration
Giobalization	· Internet usage
	· Air pollutants emission
Environment	Urban park area
Environment	





Abolish or combine overlapping surveys and statistics

- Main targets: similar, overlapping, or out-of-use statistics
- Able to save about \$2 mil. per year







More use of administrative data

- Some statistics can be replaced by administrative data.
 ex) Population Census, business surveys
- The revised Statistics Act provided the legal basis to use administrative data for producing statistics. (2007)
- Many issues remain to be resolved
 - Conflicts between agencies, technical problems to protect privacy, different classifications, etc.





Use of administrative data

- Revise the tax law in order to use tax data
 - "Statistics Korea may use tax data to compile statistics" (in tax law)
- Strengthen the electronic security for confidentiality of tax data
 - separate intranet from internet
 - management of log files
- Various tax data to be accessed
- Business register (name, address, tel., activity, etc.)
- Data of VAT, income tax and cooperate tax data)





Increase the use of ICT

- Statistics Korea has applied Web-based data processing techniques through ICT infrastructure.
 - CADI (Computer-Assisted Data Input)
 - CAPI (Computer-Assisted Personal Interviewing)
- Electronic survey methods are used for interviews and data input for a higher response rate.
 - CASI (Computer-Assisted Self Interview)
 - CATI (Computer-Assisted Telephone Interview)
 - PDA (Personal digital assistant)





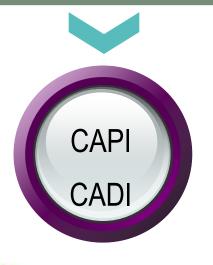
< reference > Survey and Data Input Method

Respondent-friendly survey techniques

Households preferring
interview surveys
(Rotation, In-migrating and non-respondent households)

Households preferring Internet surveys

Households impossible
to interview in the daytime
and households
preferring CATI
(One-person and
dual income households)









To gain Users' Trust

Statistical quality management

- Monitor quality in each stage of data production to guarantee quality of national statistics
- Statistics Law gives the authority (Articles 9-11)

	Rotational SQM	Ad-hoc SQM	Self SQM
Who	KOSTAT	KOSTAT	each agency
How often	every five years	as needed	annually
What	all statistics	low quality statistics	own statistics





To gain Users' Trust

Conduct surveys on behalf of other statistical offices

- Weak survey infrastructure at many statistical offices
- Survey on behalf of other statistics offices utilizing KOSTAT interviewers.

Ex) OECD International Assessment of Adult Competencies survey contracted out by the Education Ministry (2010)

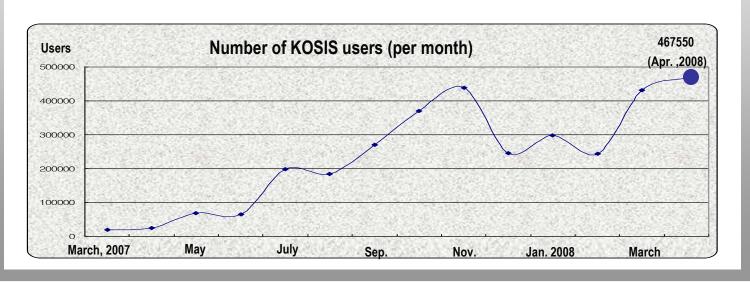




Convenient Accessibility

One-stop statistics service

- KOSIS: Korean Statistical Information Service
- Store 170 million data cells
- Planning to integrate all national statistics to KOSIS.







Convenient Accessibility

E - National indicators service

- Include 835 key indicators to understand the status of Korea
 Ex) employment, industrial production, price, GDP, etc.
- Info on the meaning of each indicator and relevant polices
- Useful information for :

Policy makers

Formulate better policies

Citizens

Fully understand status of Korea





Convenient Accessibility

Statistical Geographic Information Service (S-GIS)

- Provide map-based small-area statistics
 - individual structures displayed; convenient for market analysis
- Useful information for :

Individuals

Find location for residence
 ex) baby care centers,
 schools, etc.

Business

Find location to open businessex) consumers, competitors, etc.

Government

 Effective welfare policy ex) the poor, the old





KOSIS (http://www.kosis.kr)

- v KOSIS (Korean Statistical Information Service)
 - Ø Most representative statistical DB in Korea for international statistics and domestic statistics produced by KOSTAT and other statistical domestic agencies
- v Domestic and foreign data service
 - Ø Provide 1.35 million time-series data in 22 subject groups
 - Ø Supply data obtained from international organizations (UN, IMF, OECD)
 - Ø Monthly visits 377 thousand, monthly pageview 11,793K
- v Search criteria in KOSIS
 - v By year, frequency, producer, subject group, topic

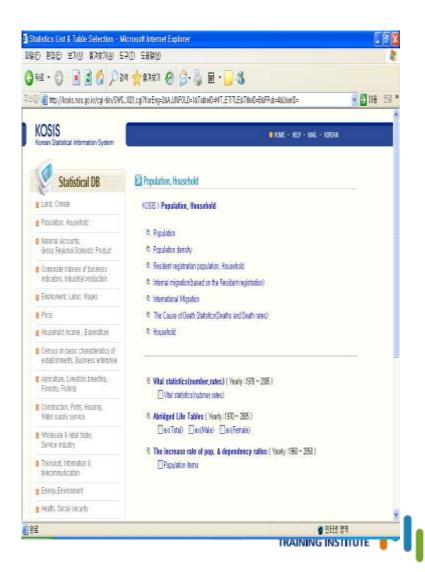




(Reference) KOSIS (http://www.kosis.kr)

In KOSIS, any people can find the requested data by himself and On-line Publication Service is also available



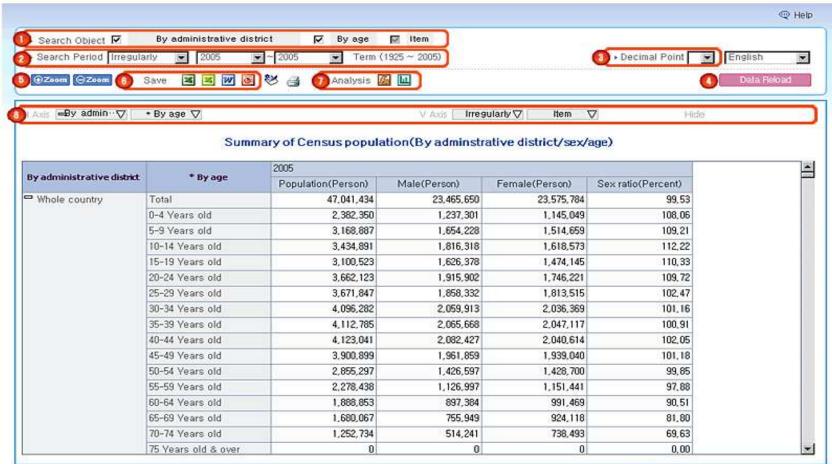




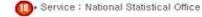
(Reference) Statistics Tables

In KOSIS, any people can generate dynamic statistics tables by himself.

The screen after clicking on the title of statistics table is composed of an statistics table and functions of data adjustment.







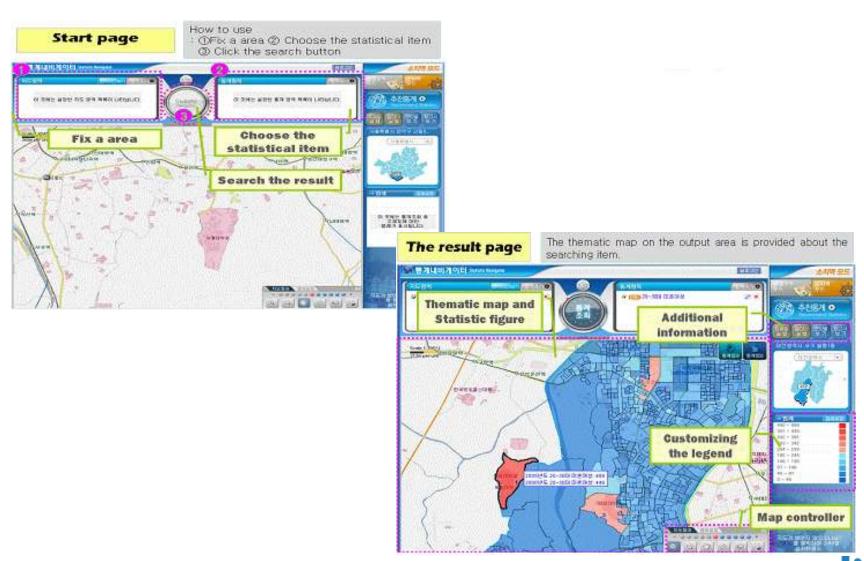
SGIS (Statistical Geographic Information System)

- v Customized service for regional analysts of small-area data
- v Utilize census maps and individual information on 27 census topics, covering 13.5 mil households and 3.2 mil businesses nationwide
- v Statistical Data + Geographic information on a map
 - Ø Display small-area statistics visually and spatially (down to 1 km2)
 - Ø Provide the Statistical Navigator which is an useful and convenient tool for market analysis
 - Ø Special value for market analysis





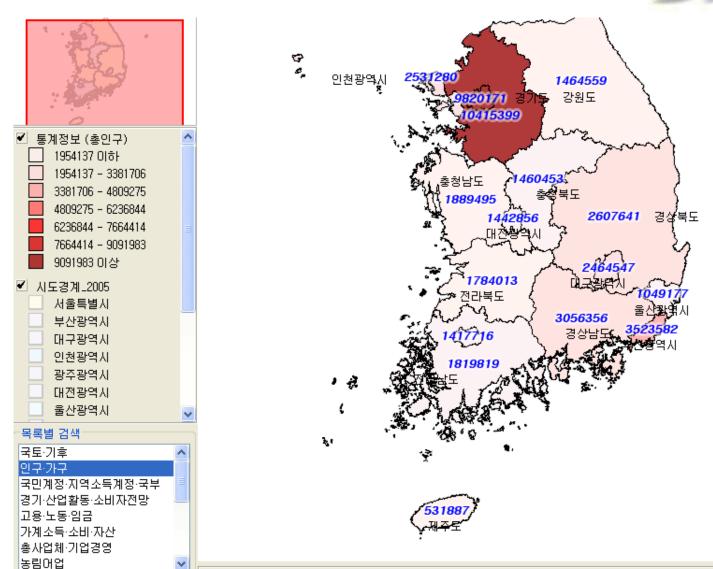
SGIS Example 1 (Small Areas)







SGIS Example 2 (Population)





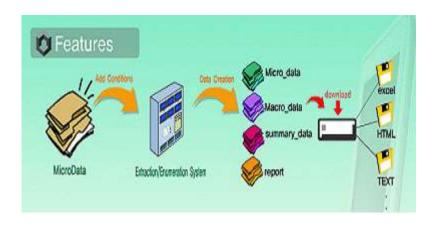


독도

MDSS (Micro Date Service System)

v Allow users to access microdata protected by statistical disclosure control methods for in depth analysis through the Internet

v Microdata coverage: establishments, households, industry ...









Steps to Use the Service









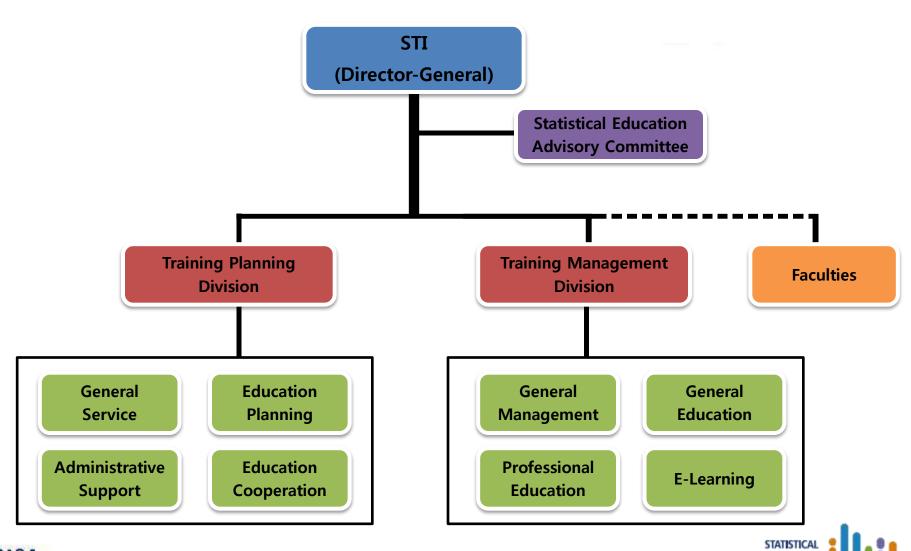
4

Statistical Training Institute





STI Organization





Vision & Mission

Vision

The World's Leading Statistical Training Institute

Mission

To nurture statistical experts To promote public understanding of statistics

Goals

To advance the capabilities of statistical personnel To implement education of statistics users

Strategy

Support regular courses effectively

e-Learning Blended Learning

Provide intensive statistical courses

Certification System

Expand statistical training for target groups

Producers Users

Replenish statistical training infrastructure

Person Budget Facility





Thank You!



