

# **KNSO's Compilation and Publication of the Statistics**

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# KNSO at *Daejeon Metro. City*

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## □ 160 km south of Seoul

- Easily accessible from any place in Korea as it is the hub of the national transportation network.
- A center of knowledge and information with *Daedeok Valley*, the top-notch R&D and Science Town in Korea.
- In 1998, *Daejeon* became home to the 3<sup>rd</sup> Government Complex in Korea, being a very pleasant city to live.

# Mission of KNSO

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- KNSO leads the way concerning the development of the national statistical systems which manages **official statistics in the interest of data quality.**
- KNSO produces accurate, timely, relevant and credible statistics through **continuous innovation of a statistical system.**
- KNSO endeavors to gain confidence by observing the Statistical Act in order to protect personal privacy and business confidentiality.

# Profile of the KNSO

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## □ The Office in the Korean Statistical System

- Statistical system of Korean government is decentralized in that, while the Office conducts fundamental censuses and surveys, other ministries produce statistics for their own policy purpose.
- KNSO has the Statistics Law governing statistical activities among the ministries and other statistical agencies.

# Profile of the KNSO

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## □ Organization

- About 500 staff in the **Headquarters** work in Statistics Policy Bureau, Economic Statistics Bu., Population & Social Statistics Bu., Information Service Bu., SRI, STI, etc
- About 1,300 staff in **12 Regional Statistical Offices**, field organizations of its own, work for data collection of monthly survey, relatively small-scale survey.
- **Statistics Council** is a consultative body attached to the Office, under which 7 sub-committees are in charge of investigation and deliberation on important matters concerning official statistics.

# Statistics on Population and Housing

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## □ e-Census as a new approach in 2005

- In the past, 3800 lowest-level government were cooperating with census-taking nationally.
- The 2005 Census could expect hardly to have such a cooperative work from the governments because of their function transferred mostly to focus on 'Residents Autonomous Service'.
- A new plan that had to automate all the census-taking process line as well as *e-Questionnaire*. We named this whole system as 'e-Census'.

# Statistics on Population and Housing

	Ever-increasing Population Census Cost				
	1985	1990	1995	2000	2005
Total Cost (Million Won)	8,174 ( - )	20,956 (156%)	53,920 (157%)	83,387 (54.6%)	128,951 (54.6%)
Cost per Person (Won)	202 ( - )	483 (139%)	1,209 (150%)	1,807 (49.5%)	2,727 (50.9%)
Cost per Household (Won)	854 ( - )	1,846 (116%)	4,160 (125%)	5,794 (39.3%)	8,065 (39.2%)
Data Collection Method	Interview	Interview	Interview	Interview + self - enumeration	Interview + self- enumeration + Internet

# Statistics on Population and Housing

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## □ S-Navigator Service : 2005 Census data

- Now in service by OA(Output Area) which is as big as 1,000 peoples on average.
  - Population by sex, by age group
  - No. of household. by type
  - Ageing index, ...
- People use it in a simple manner :
  - Connect into Internet
  - Clicking a 'point' you want
  - Specify distance from the 'point'
  - Get information on Census data from 'point' DB



# Vital Statistics

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## □ Births, Deaths, Marriages, Divorces

- To account for population changes and provide Fertility Rate, Aging Index, Sex Ratio, etc.
- Coverage : all births, deaths .. on Civil Registration system
- Legal basis : The Family Registration Law, Statistics Law
- Data collection : while legislative requirement, the registration lags are harder to estimate.
- Publication : Annual report on vital statistics, Cause of Death.

# Statistics on Employment

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## □ Economically Active Population Survey

- To provide basic info on the size and structure of workforce.
- **Sample size** : 33,000 household in the nation
- **Survey population** : civilian population aged 15+, excluding armed forces, prisoners, foreigners
- **Data collection** : personal interview
  - PAPI : traditional method
  - CAPI : Laptop, PDA.
  - CASI(2008) : on-line response and transmission
- **Publication** : Press release, Monthly/annual report.

# Statistics on Establishment, Enterprise

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## □ Current Mining and Manufacturing Survey

- To compile Industrial Production Index
- To provide fundamental data to estimate GDP and labor productivity by indexing the changes in sectors.
  
- **Sample size** : 8,400 establishment in the nation
- **Survey population** : establishment producing representative items that employ 20+ workers
- **Data collection** : personal interview and self-enumeration
  
- **Publication** : Press release, Monthly Industrial Production

# Statistics on Establishment, Enterprise

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## □ Construction Orders Received Survey

- To provide information on construction activity.
- **Sample** : representation rate is about 54% of production gross value, including top ranked establishment
- **Survey population** : construction industry in the KSIC
- **Data collection** : personal interview and self-enumeration
- **Publication** : Monthly Construction Order Received

# Statistics on Establishment, Enterprise

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## □ Transportation Survey

- To provide information on transport industry
- **Sample** : 7,200 establishment
- **Survey population** : about 325,000 industry in the KSIC
- **Item covered** : transport equipment by owned or leased, employment, revenue & expenses, fixed asset
- **Publication** : Annual Report of Transport Survey

## **Statistics on Establishment, Enterprise**

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- Census on Wholesale and Retail Trade and Service Industry**
  - To provide basic data and serve as survey frame
  - **Periodicity** : years ending 0 and 5
  - **Scope and Coverage** : all establishment as G, H, J, K, L, M, O, P, Q, R in the KSIC
  - **Item covered** : name, location, type of legal, type of business, business period, no. of workers, annual expenses and sales
  - **Publication** : 2005 Report on Census of Service Industry

## **Statistics on Establishment, Enterprise**

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### **□ Service Industry Activity Index (2000 - )**

- **Periodicity** : monthly
- **Weight** : in proportion to amount of products of sectors
- **Sample size** : about 5,000 establishment
- **Survey population** : 1,473,000 establishment as G, H, J, K, L, M, O, P, Q, R in the KSIC
- **Types of index** : Index of ICT, Tourism, Environment, etc
- **Publication** : Monthly Service Industry Activity Indexes

# Statistics on Household Economy

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## □ Household Income and Expenditure Survey

- To provide , analyze variations in the levels of living and the disparities among different groups.
- **Periodicity** : monthly
- **Item of income and expenditure** : classified by commodity in accordance with the ILO classification
- **Sample size** : 7,500 households, of which about 5,000 households are urban salary and wage earner's households.
- **Data Collection** : monthly diary and *e-diary*
- **Publication** : Press release, Quarterly reports on the



# Statistics on Household Economy

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## □ Farm Household Economy Survey

- To provide various farm household economy indicators such as income, expenditure, assets, liabilities.
- Periodicity : monthly
- Sample size : 3,200 households
- Survey population : 1,300,000 households Farm households based on the Agriculture Census 2000
- Data Collection : monthly diary
- Major figures(2006) : Farm population ratio (6.8% , from 45% in 1970), GDP Share (3.0% , from 24% in 1970)

# Applying Internet in Survey

Survey title	Population	e-survey participation
<b>Current Mining and Manufacturing</b>	7,800 establishments	(55.1%)
<b>Manufacturing Production Capacity</b>	2,300 establishments	(58.9%)
<b>Cyber shopping-mall survey</b>	4,490 establishments	(21.0%)
<b>Household Income and Expenditure</b>	7,135 households	(28.6%)
<b>Business Structure and Activities</b>	10,942 establishments	(18.6%)
<b>Transportation Survey</b>	7,419 establishments	(6.2%)
<b>Service Industry, and Wholesale &amp; Retail</b>	127,777 establishments	(0.01%)
<b>2005 Population and Housing Census</b>	15,988 thousand HH	(0.9%)

# Applying Internet in Survey

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## □ The Cause of the non-Internet Survey :

- Preference of interview survey (28.8%)
- Worrying about information outflow (13.3%)
- Survey unit conversion need (12.1%)
  
- Non-cooperation (8.1%)
- Response from several department (6.4%)
- Infrastructure insufficiency (5.3%)
- Others (25.9%)

# Introducing a 'DfEEM' project

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- Database for Establishment and Enterprise Management
  - A new system for providing the latest list of all the establishment and enterprise to be used as the basic sample frame for business survey in Korea.
  - Database tables are compiled from the results of
    - Census on Basic Characteristic of Establishment,
    - Mining and Manufacturing Survey,
    - Wholesale & Retail Trade and Service Industry
    - Transportation Survey ...

# **KOSIS**(Korea Statistical Info Service)

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□ [//www.kosis.kr](http://www.kosis.kr) : The statistics portal

- On-line Publication
- S-Navigator Service ([gis.nso.go.kr](http://gis.nso.go.kr))
- Microdata Service ([mdss.nso.go.kr](http://mdss.nso.go.kr))

**Thank you for your attention!**