KOSIS, Korean Statistical Information Service

Statistics Korea

20th May, 2015



Contents

I. KOSIS Overview

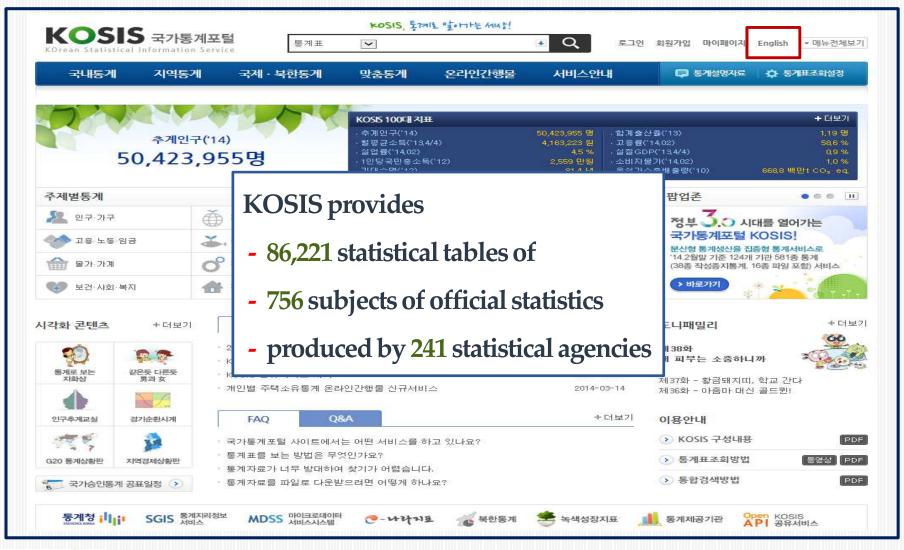
II. Access to the Data

II. Data Visualization

I. KOSIS Overview (http://kosis.kr)

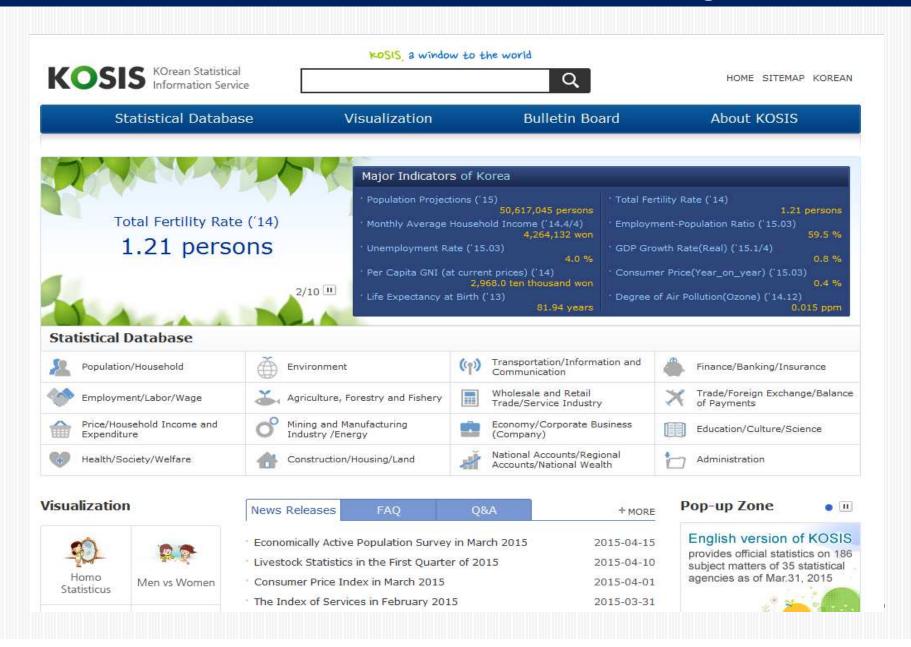


KOSIS – Korea's Portal on Official Statistics





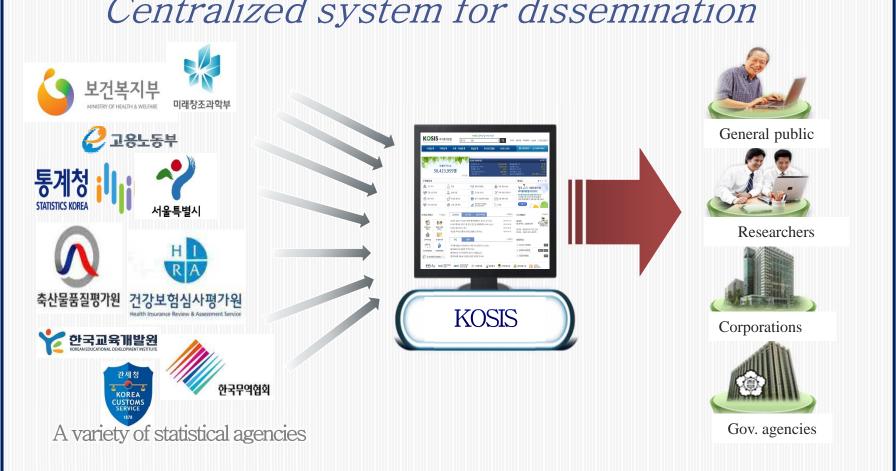
KOSIS – Korea's Portal on Official Statistics (English Version)



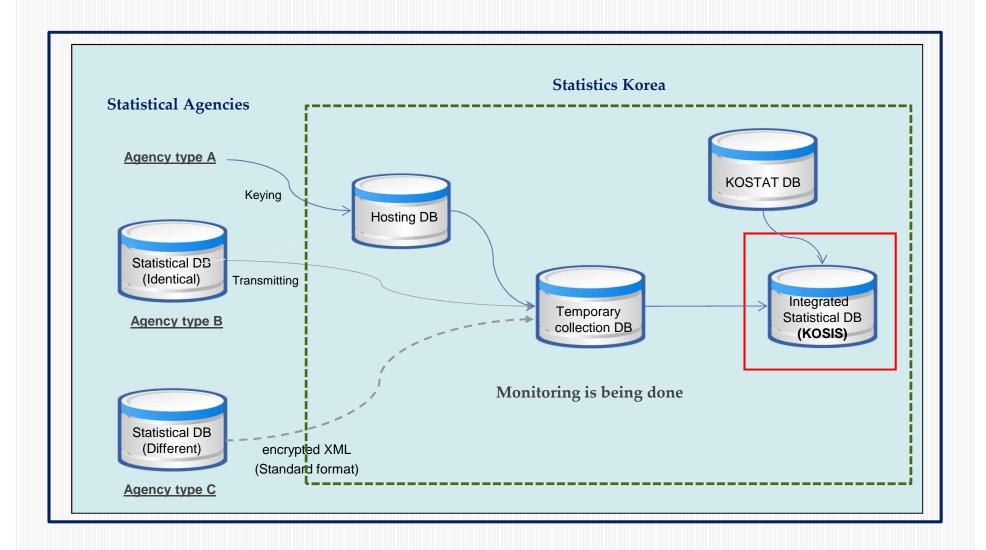
Why KOSIS?

A decentralized system for production

Centralized system for dissemination



KOSIS System Architecture





Types of Statistical Agency in terms of data collection

	VOCTAT	Statistical Agencies				
	KOSTAT	ТҮРЕ А	TYPE B	ТҮРЕ С		
DB model	KOSTAT DB	KOSTAT DB	KOSTAT DB	Agency's own DB		
Resource	KOSTAT	KOSTAT (HOSTING)	Agency	Agency		
Data Collection	DB to DB	Through S-DB management System	Through S-DB management System	Through Standard format (XML file)		
# of organization	1	224	10	24		
# of statistics	69	515	47	128		

^{*} Some agencies take multiple types



Legal Basis for KOSIS

Statistics Act Article 28 (Dissemination of Statistics)

③ Where it is necessary for the construction, linkage, consolidation, etc. of a statistics database, the Commissioner of the Statistics Korea may request for the submission of detailed statistical data required for databases. In such cases, the statistical agency that has been requested shall comply therewith unless there is any special ground otherwise.

Statistics Act Enforcement Regulation Article 22-2

② The Commissioner of a statistical agency shall enter data to the standard statistical database or transmit data in a standard format for the linkage or consolidation of statistical databases within 30 days after its first release. However, the transmission can be postponed within another 30 days in special cases.



The level of Use of KOSIS

How much data does KOSIS contain?

Year	2008	2009	2010	2011	2012	2013	2014	2015.4.1
# of Agencies	65	107	116	114	118	124	244	246
# of Statistics	297	412	501	486	542	581	749	759
# of Time Series (Unit:1,000)	185,888	206,755	222,661	236,289	249,792	257,924	261,493	263,497



KOSIS Access Policy

Terms of Use of Statistical Data

- Access policy and terms of use of statistical data* were established to facilitate the use of statistical information (Sept. 2013)
 - * Except for those statistics subject to licensing restrictions, all other data can be accessed freely (including for commercial use) if data source is clearly mentioned

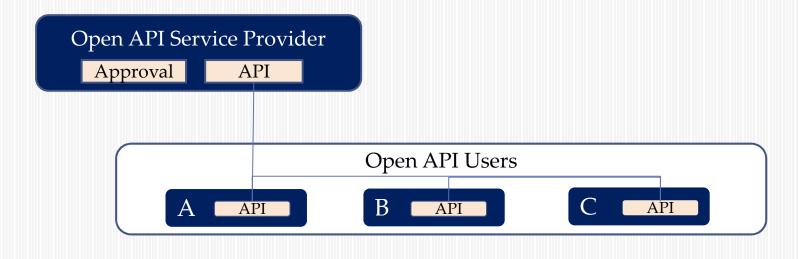




Expanding Open API service (1)

OPEN API

• APIs (Application Programming Interfaces) which are open to the public so that developers can build their own services based on the APIs





Expanding Open API service (2)

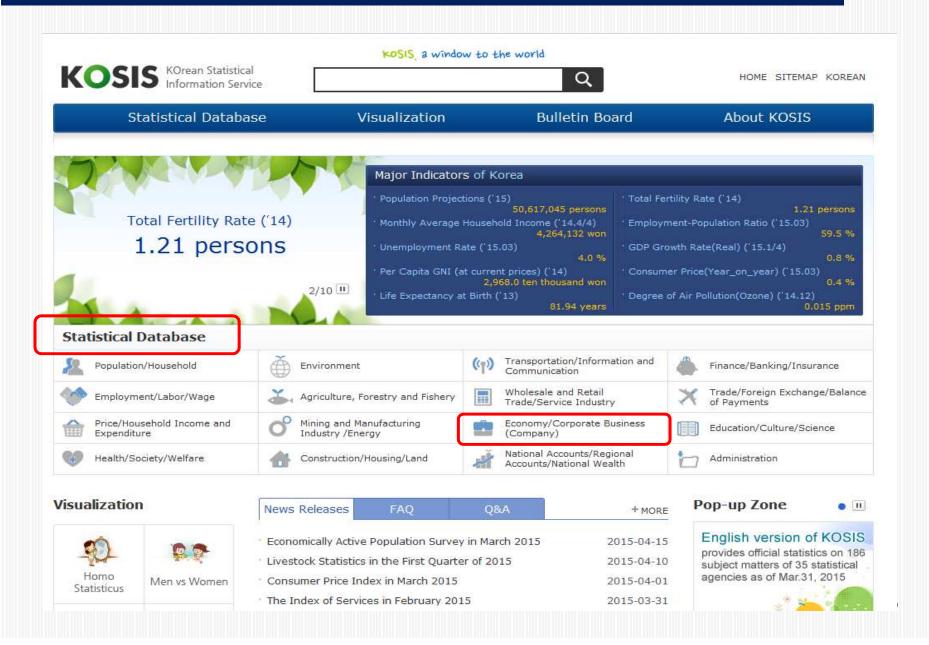
• Currently provides Open APIs for the statistics lists, major indicators and the overall integrated statistical DB

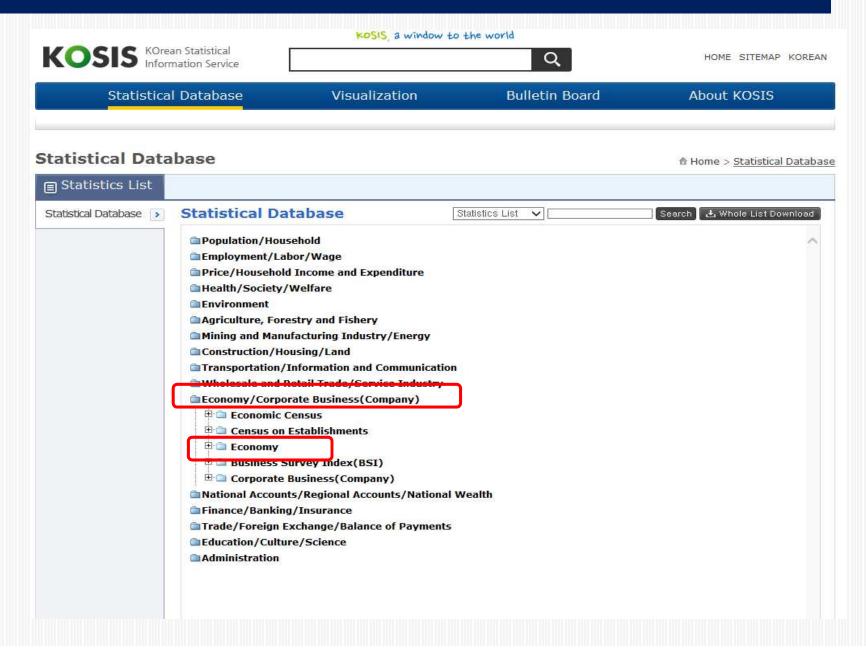


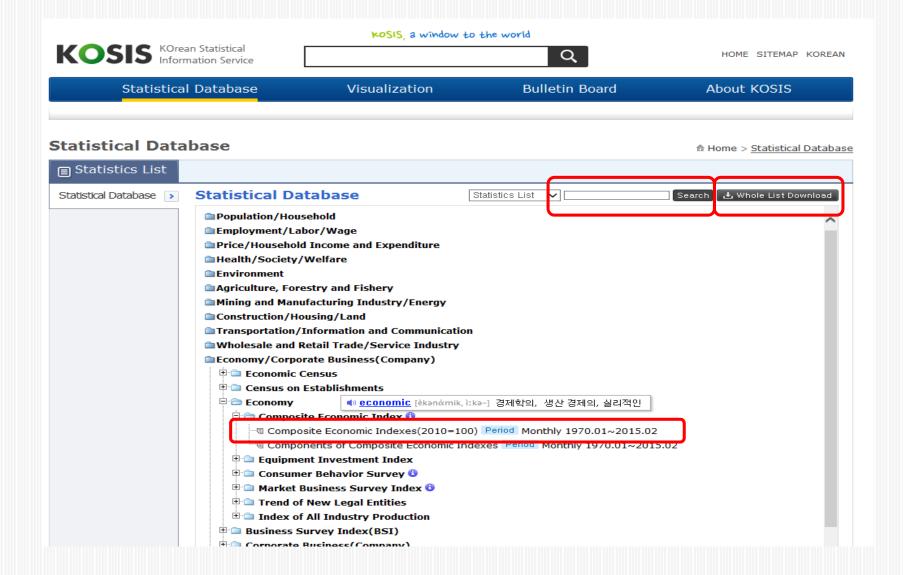


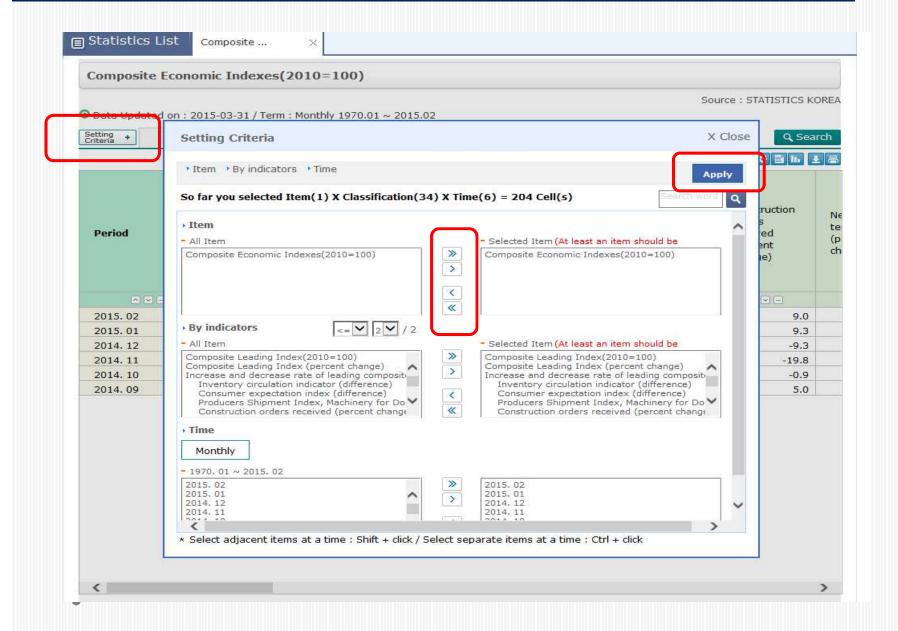
II. Access to the Data

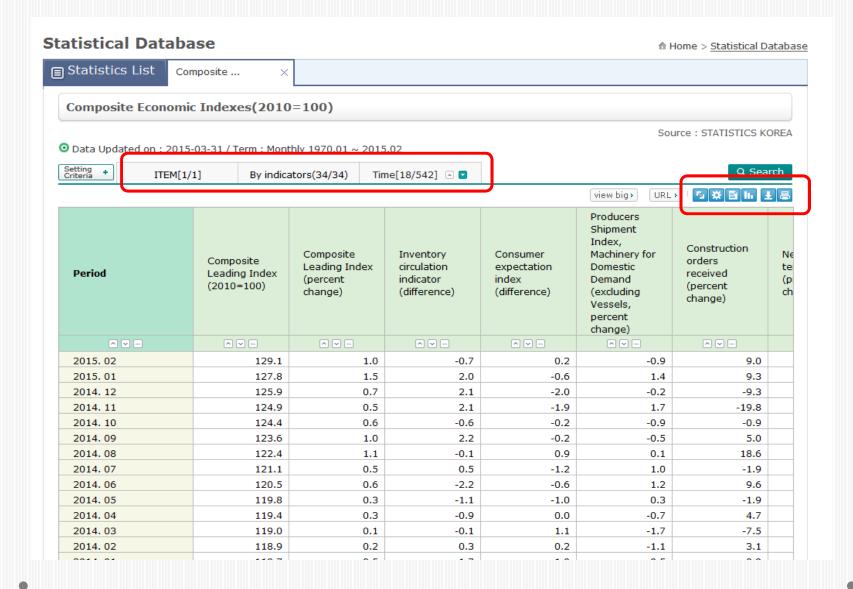




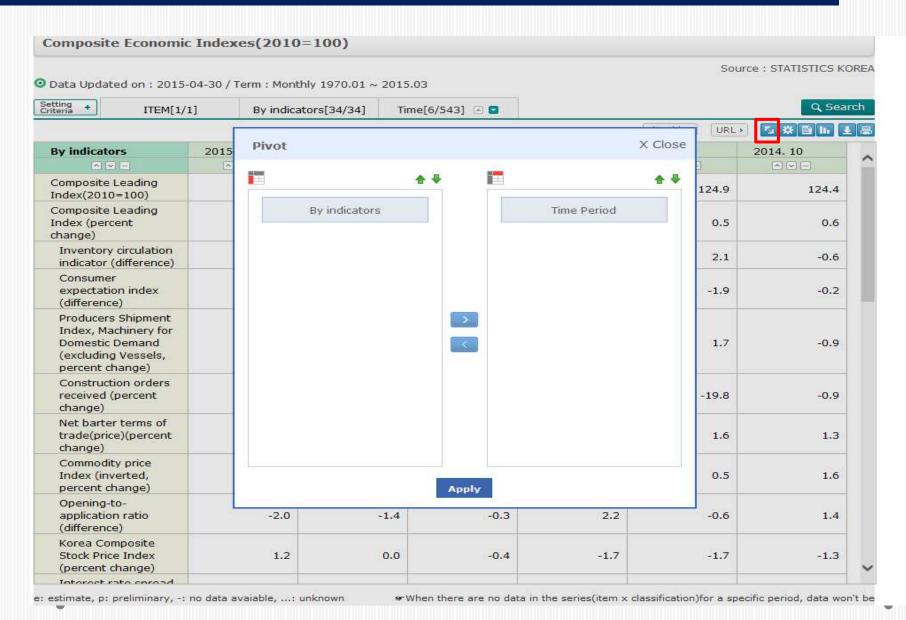




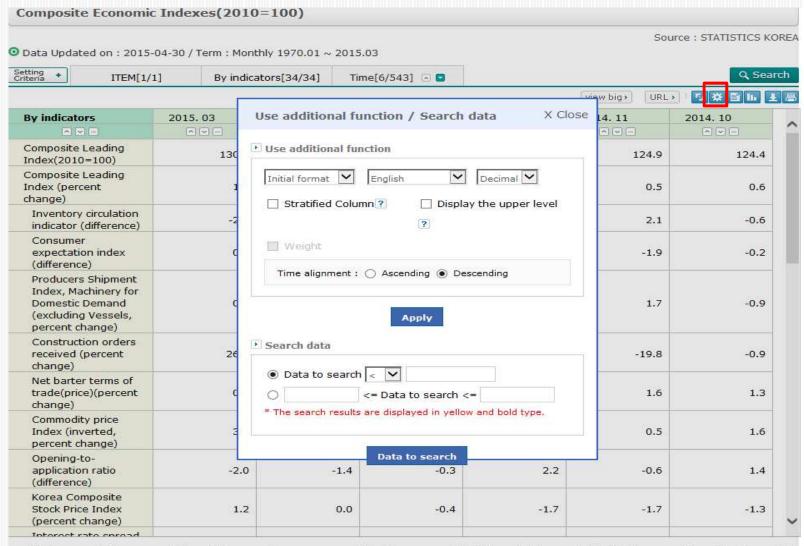




Pivoting



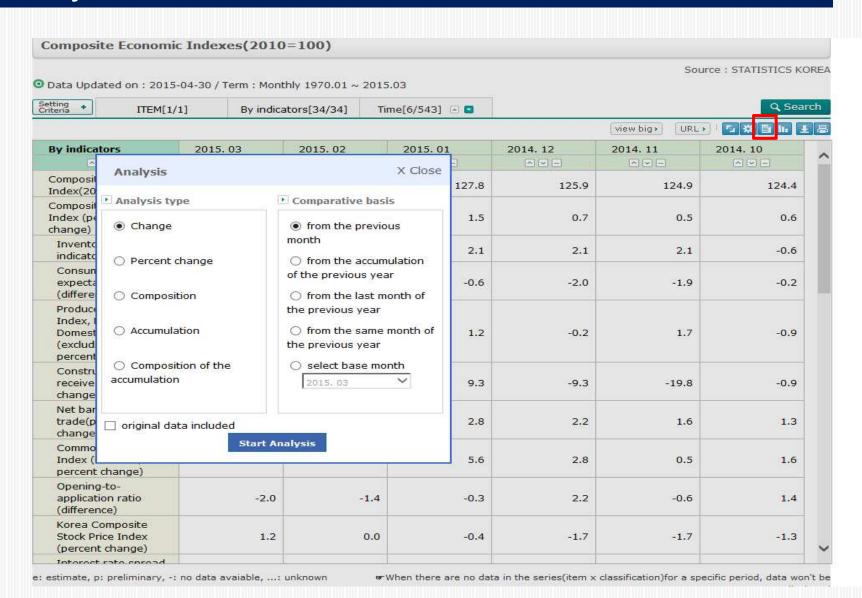
Additional Function



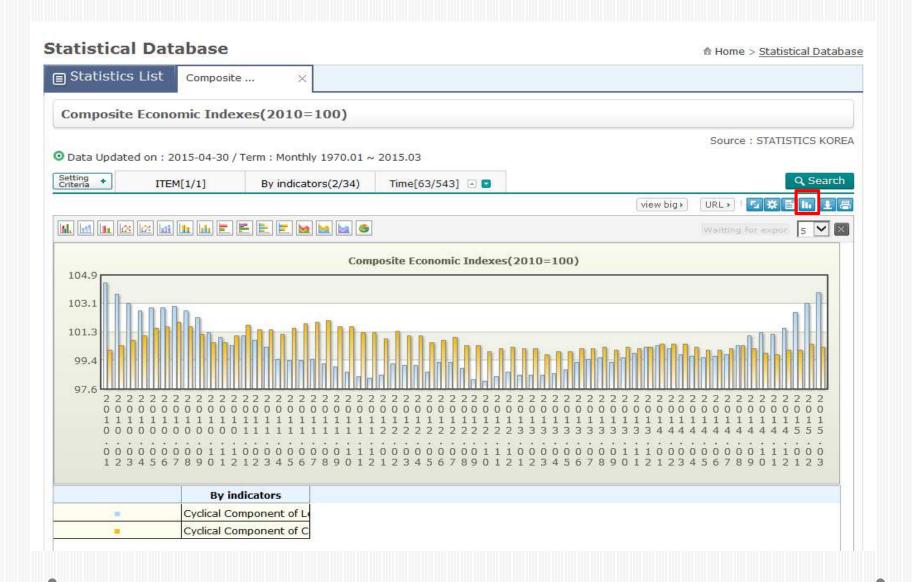
e: estimate, p: preliminary, -: no data avaiable, ...: unknown

wWhen there are no data in the series(item x classification) for a specific period, data won't be

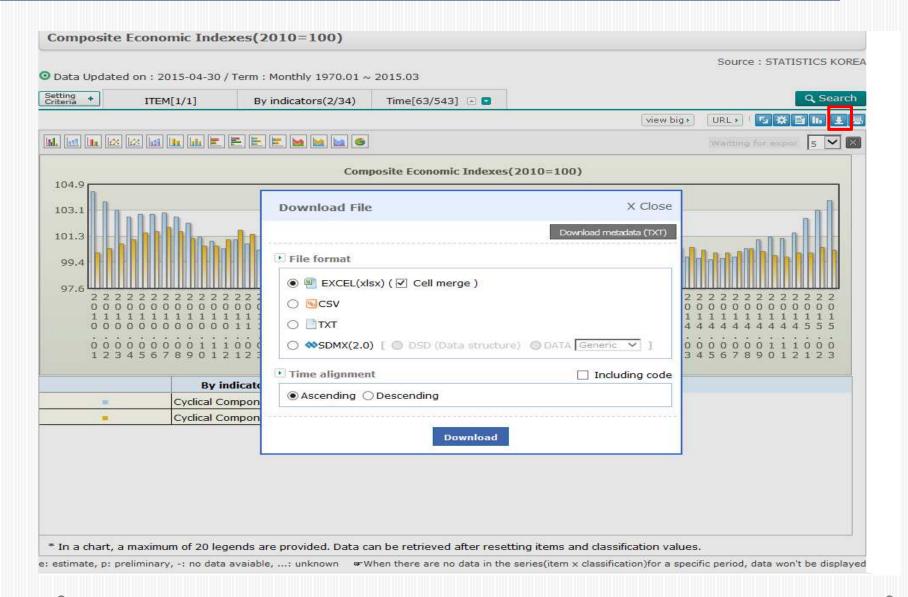
Analysis



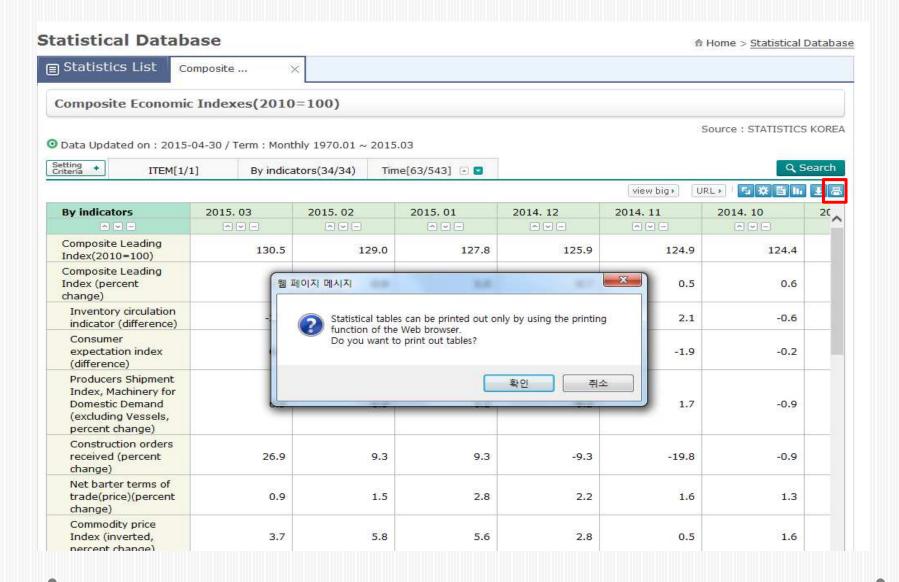
Drawing Chart



Downloading



Printing



Ш. Data Visualization



Data Visualization Overview

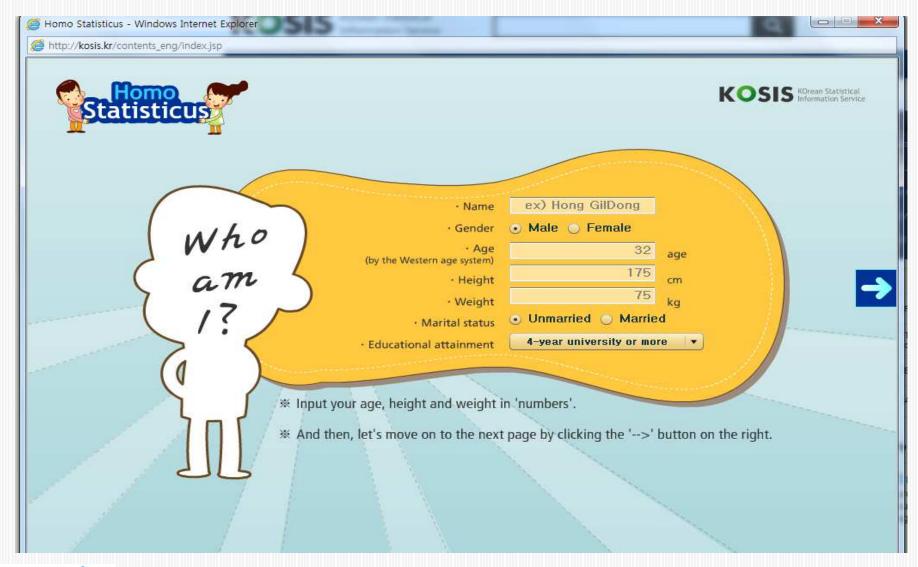


Homo Statisticus





Homo Statisticus

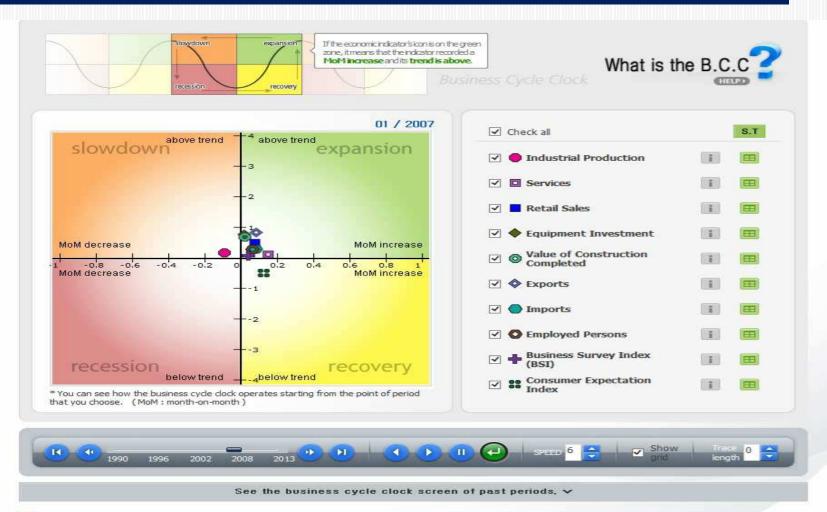


Homo Statisticus





Business Cycle Clock



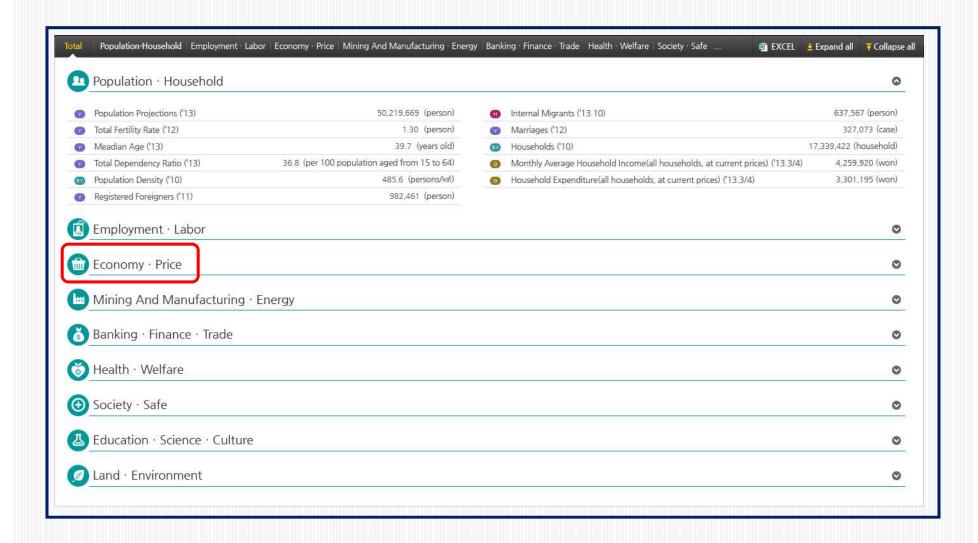
The graph of the business cycle clock in July

According to the business cycle clock in July, value of construction completed, employed persons, consumer expectation index are located in the green quadrant(expansion phase), industrial production, services, imports are located in the red quadrant(recession phase), retail sales, equipment investment, exports, business survey index(BSI) are located in the yellow quadrant(recovery phase).

In comparison with June's clock, value of construction completed, employed persons, consumer expectation index, retail sales, equipment investment, exports, business survey index(BSI) increased while industrial production, services, imports decreased.



Major Indicators of KOREA



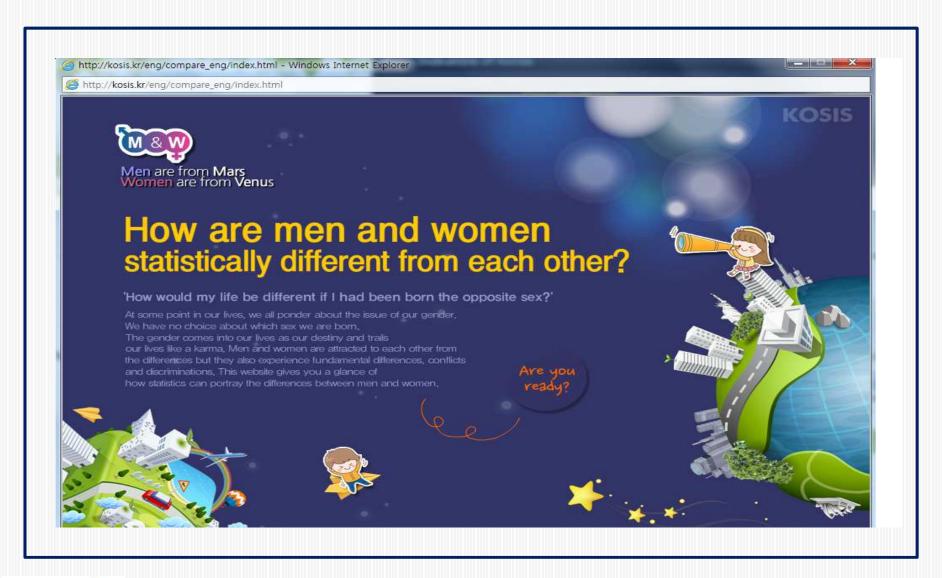


Population Pyramid



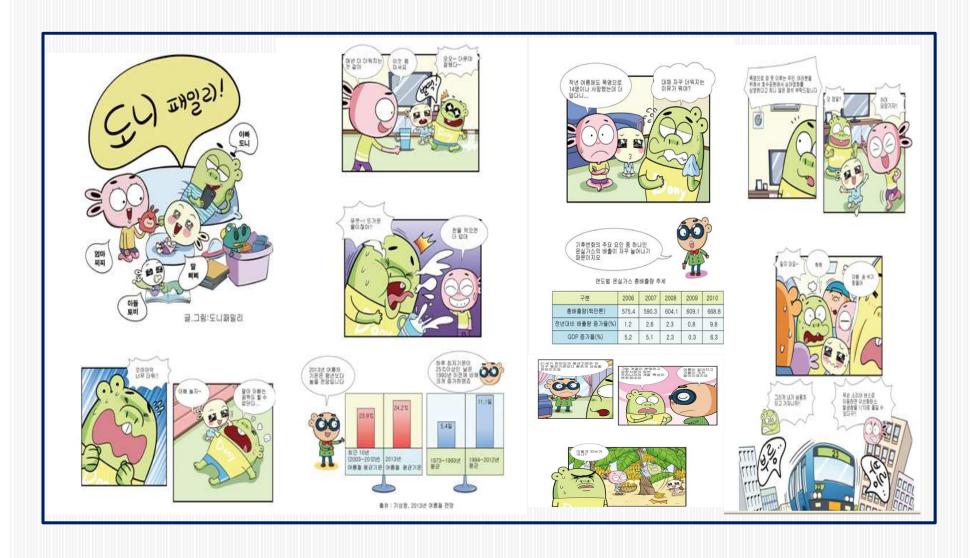


Men from Mars, Women from Venus





Webtoon





KOSIS – Mobile Web Service

