

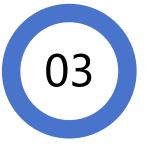
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Improvement of ISP



Introduction of SPPI



History and method of ISP compilation



Basic concepts of ISP

It refers to the output change of the service industry during the reporting period relative to the base period after removing the price factor, mainly reflecting the short-term change of the service industry production:

with the base period of 100, if the index is greater than 100, it indicates that the service industry production is generally increasing; if it is less than 100, it indicates that the service industry production is generally decreasing.



Historyof ISPDevelopment in China



 Do a lot of empirical research such as measurement



 Officially released monthly ISP by NBS of China

from 2019

- Propose a tentative idea of studying comprehensive indicators reflecting the development of monthly service industry
- Combined with the availability of Chinese data, international comparability and other factors, a plan for compiling China' s ISP is formed

in 2014

- Monthly trial compilation
- Gradually establish and improve the method, forming a relatively mature index compilation method



- Improve the index compilation method
- Improvement and Optimization of the Method of Compiling Financial Industry Index
- Name updating of some technical terms

ISPcore elements

4 core elements









output indicators

price reduction factor

conversion ratio

industry weight

Selection of output indicators

output indicators

Value volume indicators require price deflators to eliminate price changes before comparison can be made, while physical volume indicators (or constant price indicators) can be compared directly.





Such as business income, business sales, stock turnover, etc





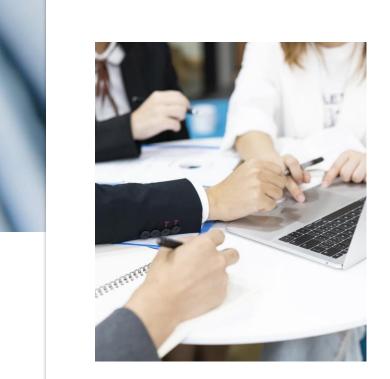
physical quantity indicators

Such as cargo turnover, stock turnover, etc.

constant price index

Such as the total amount of telecommunications services, postal services, etc.

Collection of output indicators



From a data collection perspective, the output indicator sources for the compilation of ISP consist of two main components:

National statistical survey information

It mainly refers to various statistical data obtained from the implementation of national statistical investigation projects organized by the National Bureau of Statistics, such as sales statistics of wholesale and retail trade, financial status statistics of service enterprises, and management statistics of real estate projects

Collection of output indicators





Administrative records of other departments

It mainly includes relevant data from administrative departments such as the Ministry of Industry and Information Technology, the Ministry of Transport, the People's Bank of China, the China Banking and Insurance Regulatory Commission, the State Post Bureau, the indicaters such as the total telecommunications business volume, and the local and foreign currency deposits and loans of the People's Bank of China and other information.

Selection of price reduction indices



exponential reduction

The function of the deflator index is to eliminate the price influence factors of the value index and make it comparable with the base period



SPPI

If output is mostly used for intermediate consumption, government consumption, or exports, then the optimal output price deflator is the services producer price index (SPPI) for that industry.



CPI

For industries where a portion of output is consumed by the household sector, a composite price index should be compiled by combining SPPI and CPI as a deflator.



Index of Service Production

Improvement of ISP

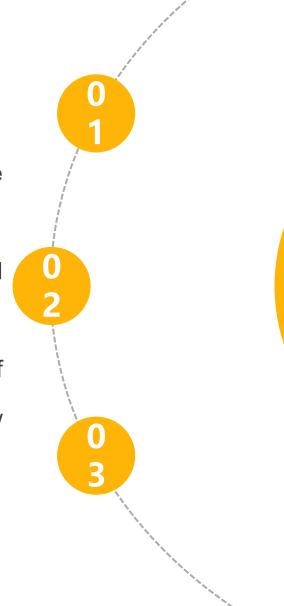
improvement and optimization

Needs of New Situation and New Requirements

First, governments at all levels and the public will pay more attention to the service industry;

second, the possibility of short-term economic fluctuations will increase;

Third, 5G, big data, large model and other new generation of information technology innovation, will produce more new industries, new formats and new business models.



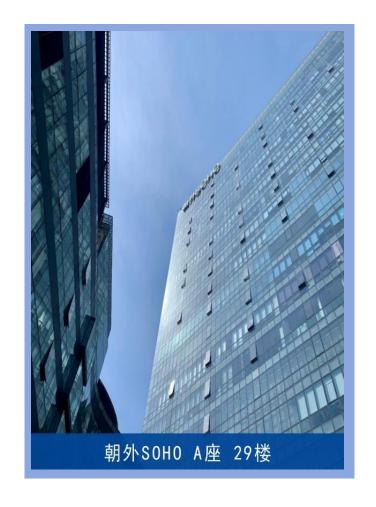
the application of big data

In recent years, big data has been applied in the compilation of the ISP.

Beijing Tengjing Big Data Applied Science and Technology Research Institute, referred to as "Tengjing Digital Research Institute", is a new research institution established to support the macroeconomic and long-term growth research of China Development Research Foundation.

GDP-Driven
Macroeconomic
Theory
Framework

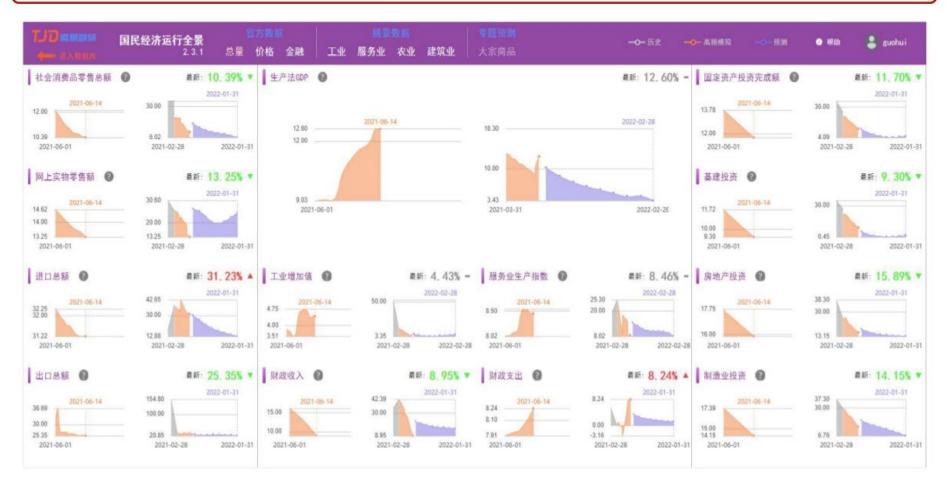
Dynamic realtime inputoutput analysis system (MDEMS) A cutting-edge algorithm that is highly integrated with big data, artificial intelligence and economic finance



the application of big data

 01 "展示"板块
 02 "关系"板块
 03 "数据"板块
 04 其他

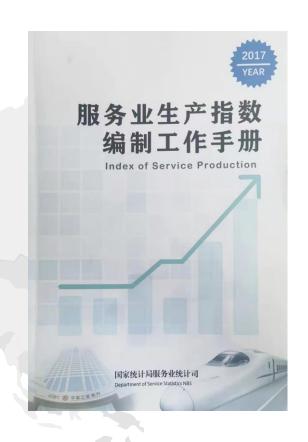
 全景 速览 我的 拉动 关联 结构 宏观 行业 研报 评估



strengthen publicity







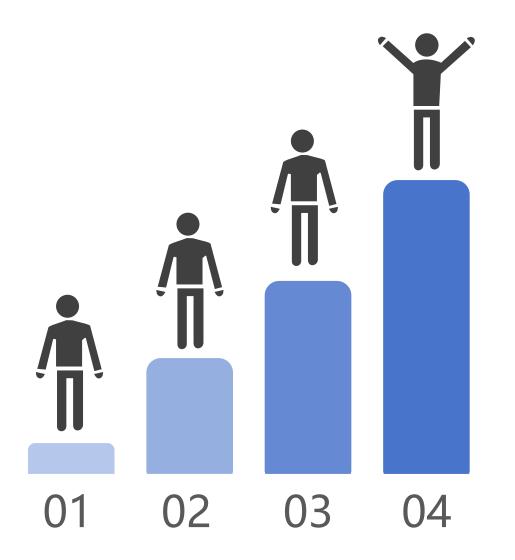
strenthen publicity

In order to increase the impact of the index of service production, we disseminate ISP by publishing articles in magazines and printing materials.



Index of Service Production

Introduction of SPPI



- Currently, China's SPPI formal reporting system
- includes the transportation and postal industries, while
- other service industries are also making active progress
- in research.



We adopt a diversified data collection strategy. The SPPI for the transportation and postal industries integrates:

CPI survey data;

price data collected by local statistical agencies;

sector-specific data (e.g., China Academy of Railway Sciences Corporation Limited provides railway freight transportation price data; the Research Institute of Highway Ministry of Transport and the China Federation of Logistics & Purchasing provide road freight transportation price data; the Shanghai Shipping Exchange provides ocean and coastal freight price data, and together with the Changjiang River Administration of Navigational Affairs, provides inland water freight price data; the Civil Aviation Administration of China provides air transportation price data; China Post Group provides postal service price data. etc.).

