



Utilization of new data sources in official statistics in China

Dec. 7th 2017, Japan



Contents



Background

1. What are new data sources?
2. Policies made by Chinese government.

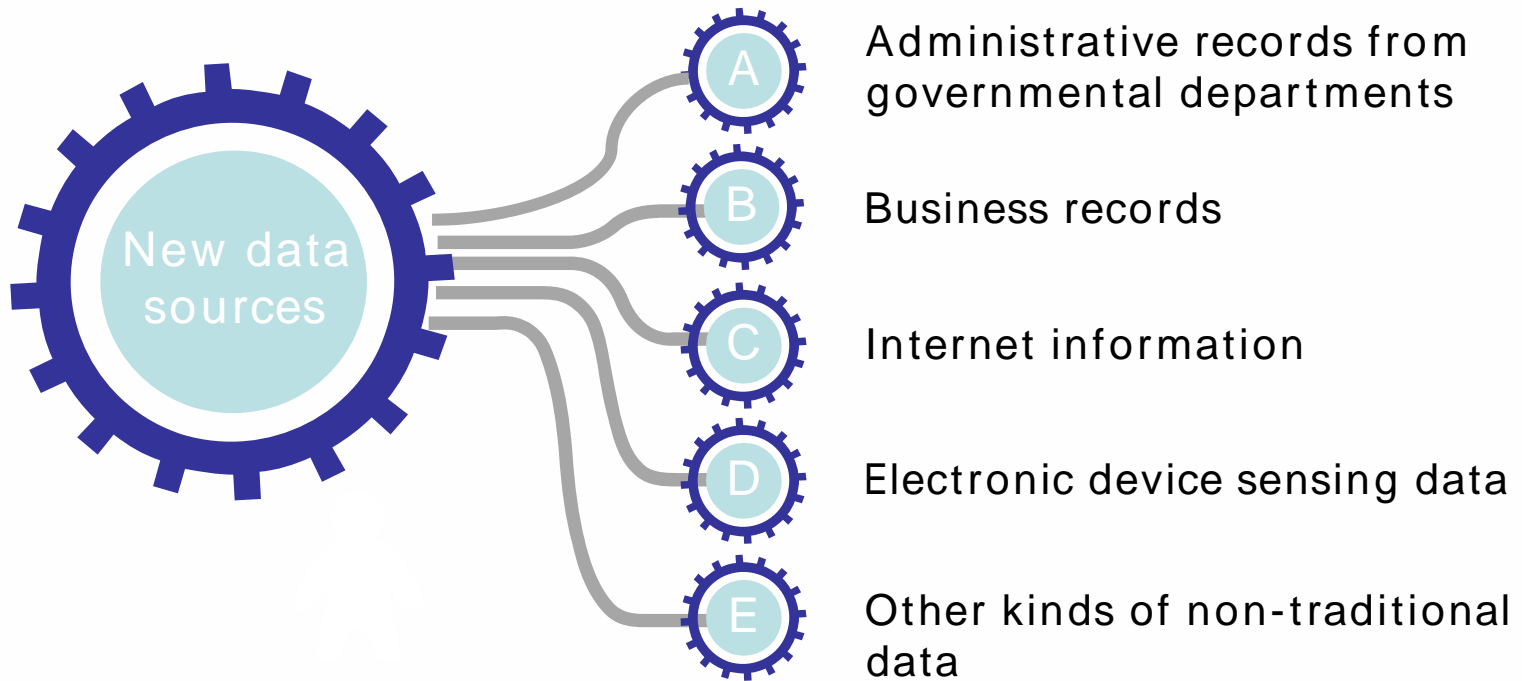


Practice for utilization of big data in China

1. Our practice for utilization of big data.
2. The preliminary results we achieved.
3. The challenges we are facing.
4. Our future plans in utilization of new data sources.



New data sources





2. Policies made by Chinese government



The 19th Chinese Communist Party Congress Report



‘We should promote the deep integration of internet, **big data**, and artificial intelligence with real economy.’



The State Council



‘Action Plan for Big Data Development’



2. Policies made by Chinese government



National Bureau of
Statistics & National
Commission of
Development and
Reform



*recommendation on the
application of non-traditional
data statistics.*



National Bureau
of Statistics of
China



Attached great importance to
utilization of big data
Made big efforts in exploration of
using big data



. Practice for utilization of big data in China

Our future plans in utilization of new data sources



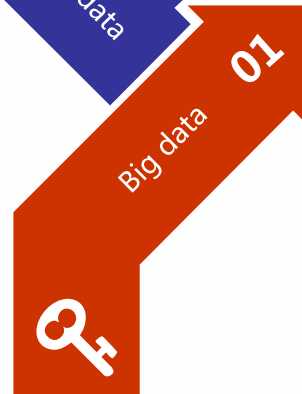
The challenges we are facing



The preliminary results we achieved



Our practice for utilization of big data

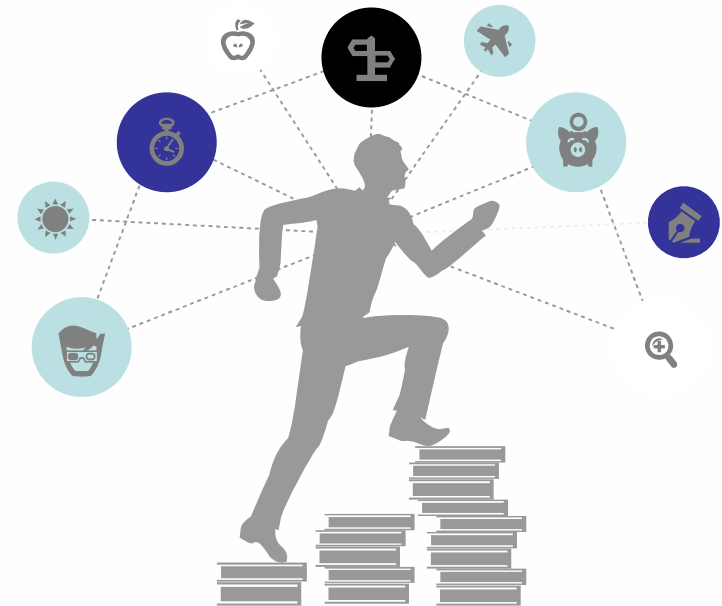




1. Our practice for utilization of big data

A. The first work is to clear research direction.

- NBS has set up a professional research team.
 - *Aiming to explore the feasibility of using big data in official statistics*
- The team compiled: '***Exploration and Utilization of Big Data in Official Statistics***'.
 - ***Clear the possible domains and directions***





1. Our practice for utilization of big data

B. The second work is to set up a special office



Big Data Research Office

Research Institute of Statistical Sciences

‘Ten-Days Report on Statistical Index of Big Data Enterprises’

Data sources



大数据企业
统计指标旬报
第 2 期

国家统计局统计科学研究所 2014年6月9日

【编者按】：

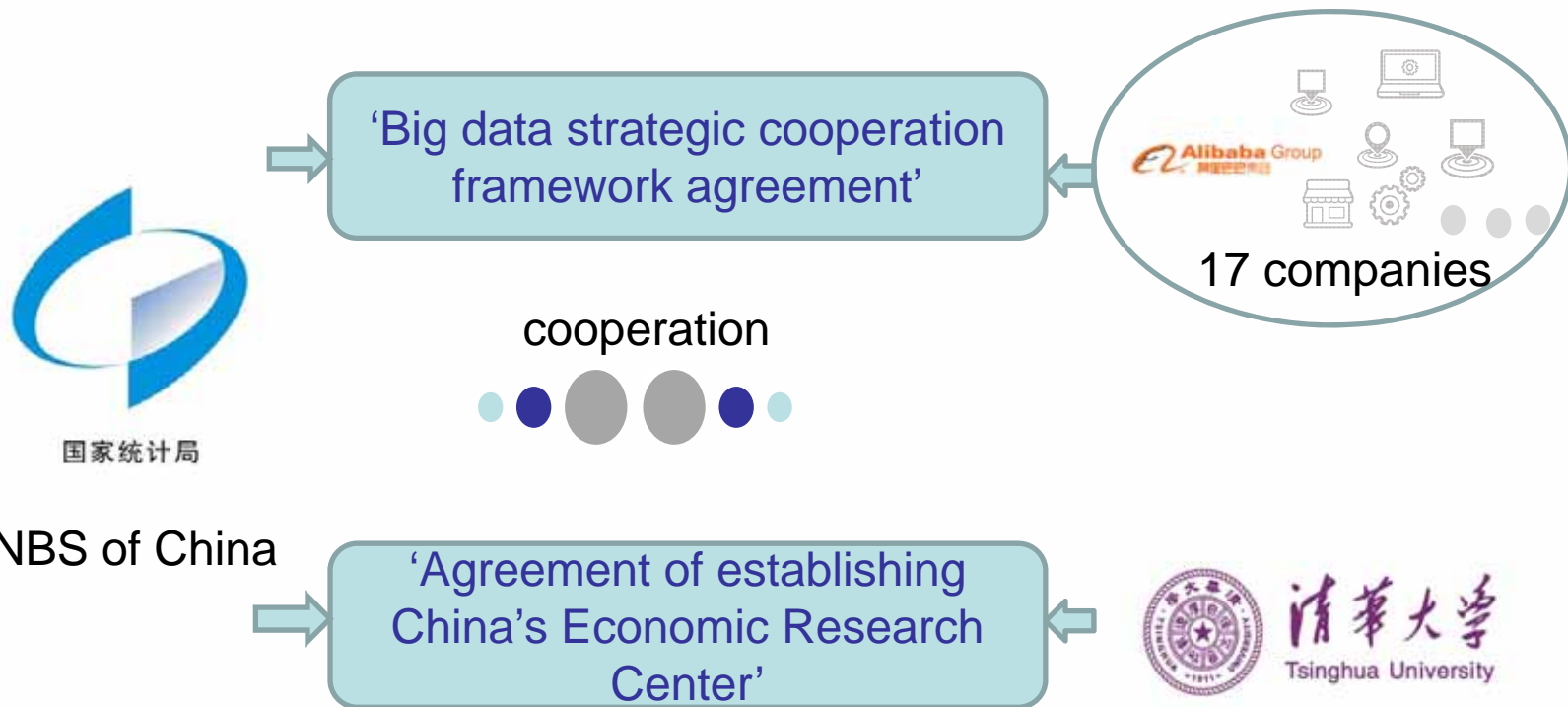
2014年初召开的全国统计工作会议提出，要努力打造政府统计数据来源的第二轨。企业既是大数据的生产者，也是大数据利用的先行者。为了继续深化与大数据企业的合作，推进大数据在政府统计中的应用，使大数据更好地服务于统计工作，根据马建堂局长的批示，我们整理编辑了《大数据企业统计指标旬报》，每月上、中、下旬各出一期，供局领导和有关单位在判断宏观经济形势时参考。鉴于大数据企业统计指标更新情况不够稳定，有些数据只能按月更新，且与部分企业的合作还在沟通协商中，因此，每期旬报的内容和编辑时间会有相应调整。

本报告包括两部分，第一部分是基于大数据测算的统计指标变化情况；第二部分是基于百度指数关键词搜索的关注度变化趋势及分析。



1. Our practice for utilization of big data

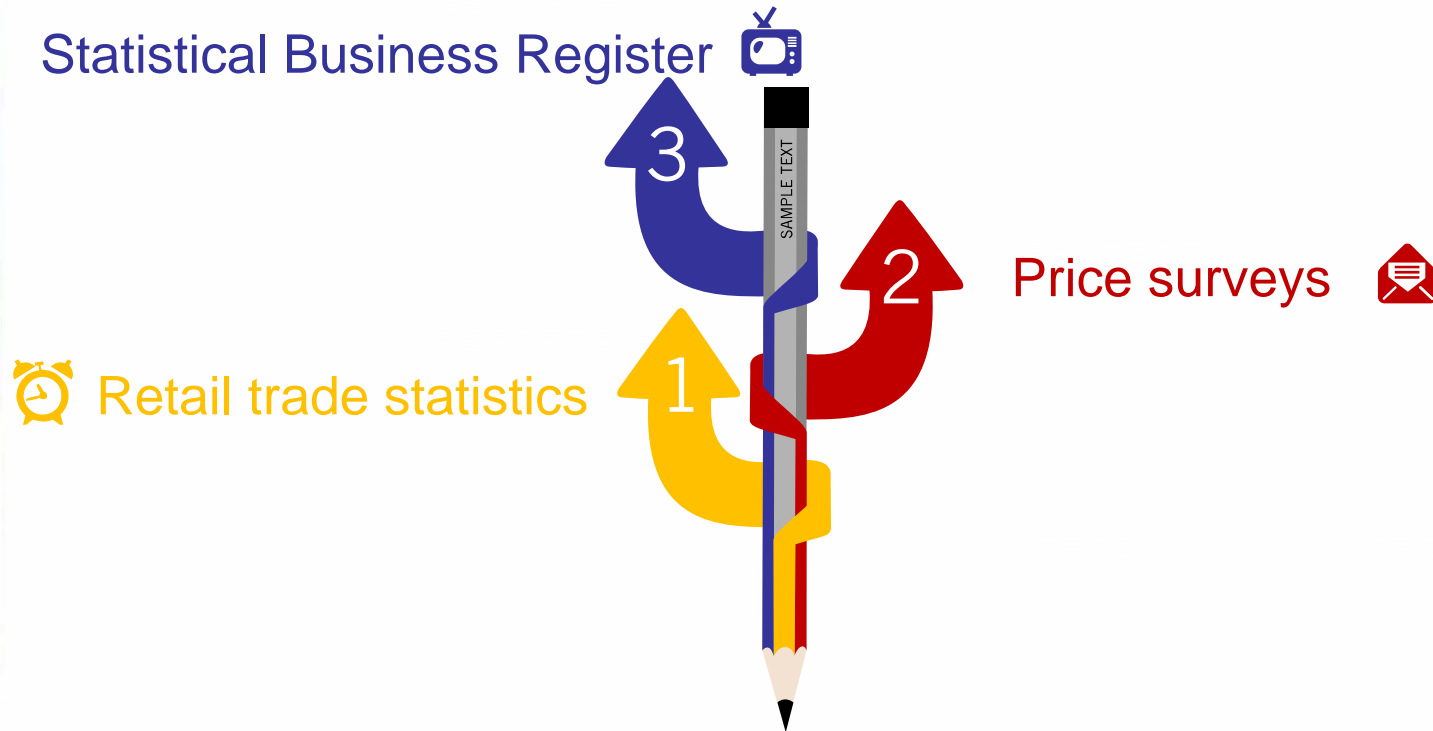
C. The third work is to establish cooperation relationship between NBS and big data companies.





1. Our practice for utilization of big data

D. Breakthroughs in some areas



Breakthroughs were
mad in some areas

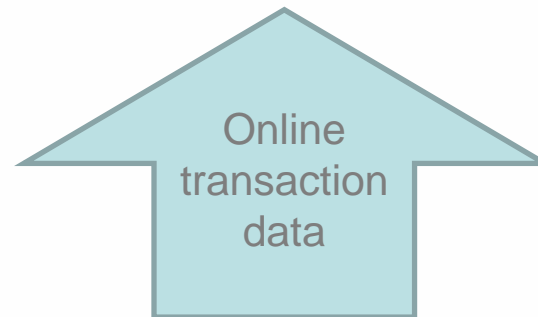


2. The preliminary results we achieved

A. Retail trade statistics



Monthly data of national online retail sales






74 biggest online websites



2. The preliminary results we achieved

B. CPI Surveys

-  Pilot program: Web-crawl the online prices for some kinds of commodities, and calculate the price index.
-  Prices of air tickets and train tickets, as well as broker fee of travel agencies and accommodation fee of hotels are collected online
-  Electronic data of malls and supermarkets are used for price data collection.





2. The preliminary results we achieved

C. Price surveys of real estate industry



Online contract data



New Housing Price
Index in 70 large cities
national wide



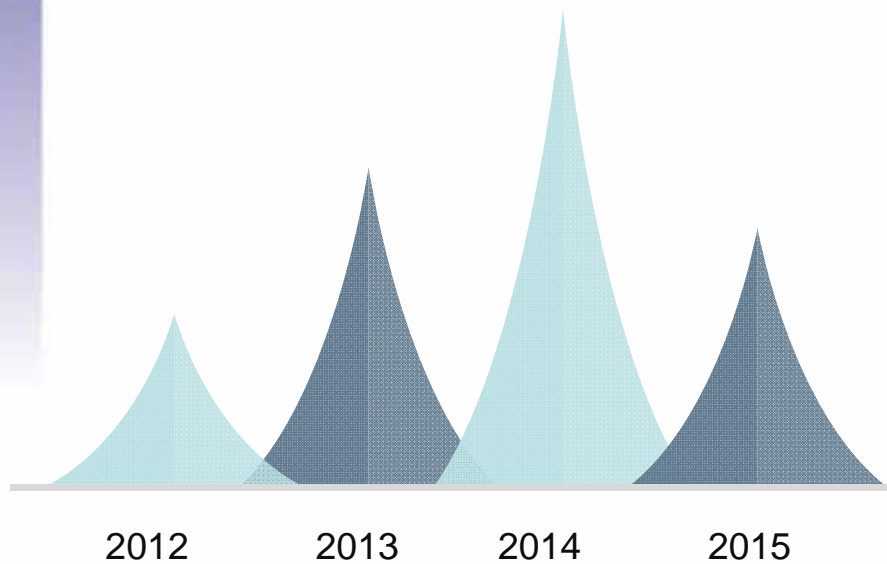
2. The preliminary results we achieved

D. PPI surveys



Shandong Zhuochuang
Corporation

卓创资讯
SCI99.COM



Online transaction
price data

Used for monitoring the market
prices of some means of
production



2. The preliminary results we achieved

E. Statistical Business Register management



State Administration for Industry & Commerce



Registration information about 16,000 newly established enterprises



NBS of China

updating



Business register



2. The preliminary results we achieved

F. Income statistics



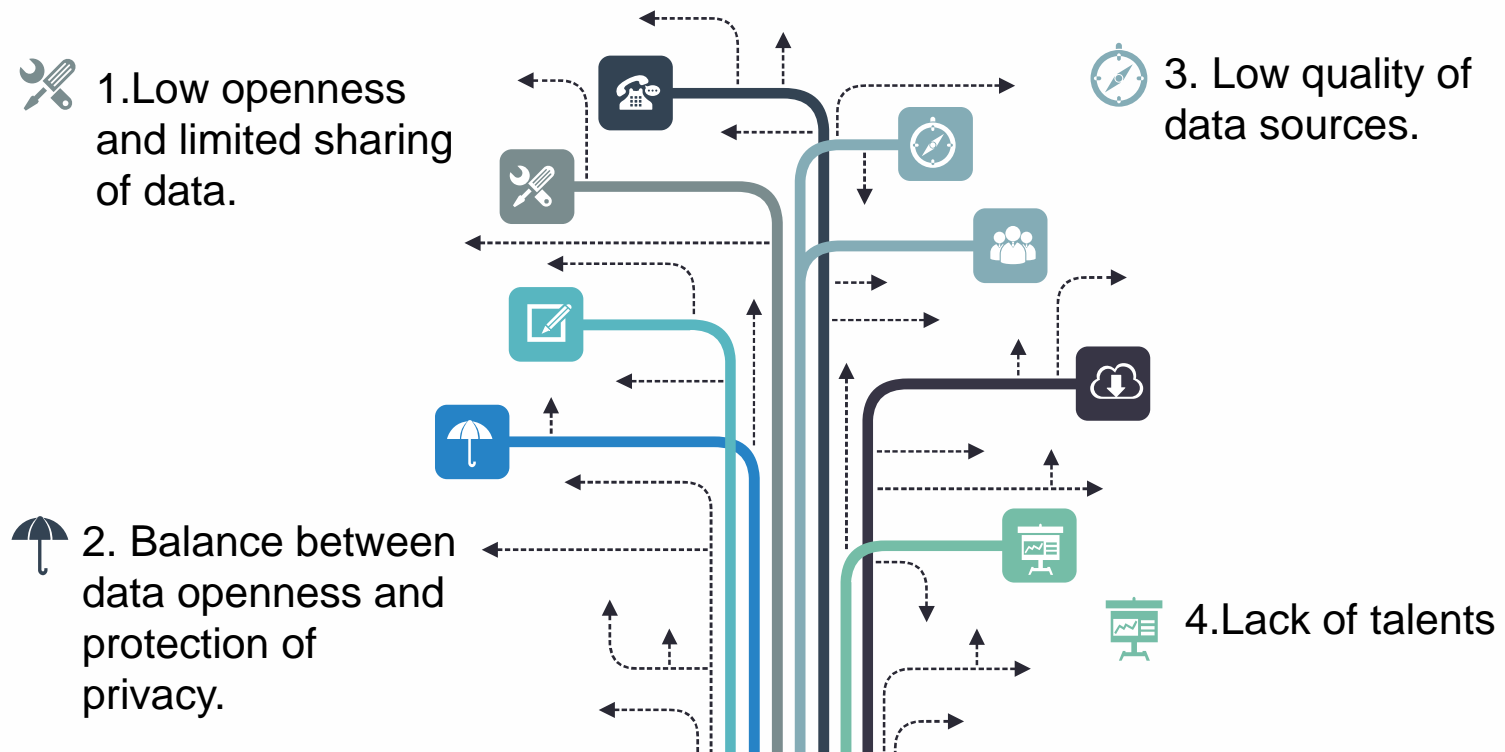
Statistics of resident's income and wages



Administrative records from Taxation departments are estimated for statistical data of resident's income, for evaluating and verifying the data about high-income class.



3. The challenges we are facing





4. Our Future plans in utilization of new data sources



Future Plans

1. Study and draw up the principles, contents, and methods for statistical data sharing
2. Build a national statistical metadata database and information managing system.
3. A list of sharing statistical data compiled and sharing more statistical data with the public
4. Integrate statistical data, census data, administrative data and big data, and storing on *Statistical Cloud*.
5. Provide supplement for statistical data sources in using online electronic data.



 Thank You!