



Application of Modern Information Technology in China Statistical Work

National Bureau of Statistics of
China

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1、Work Objectives



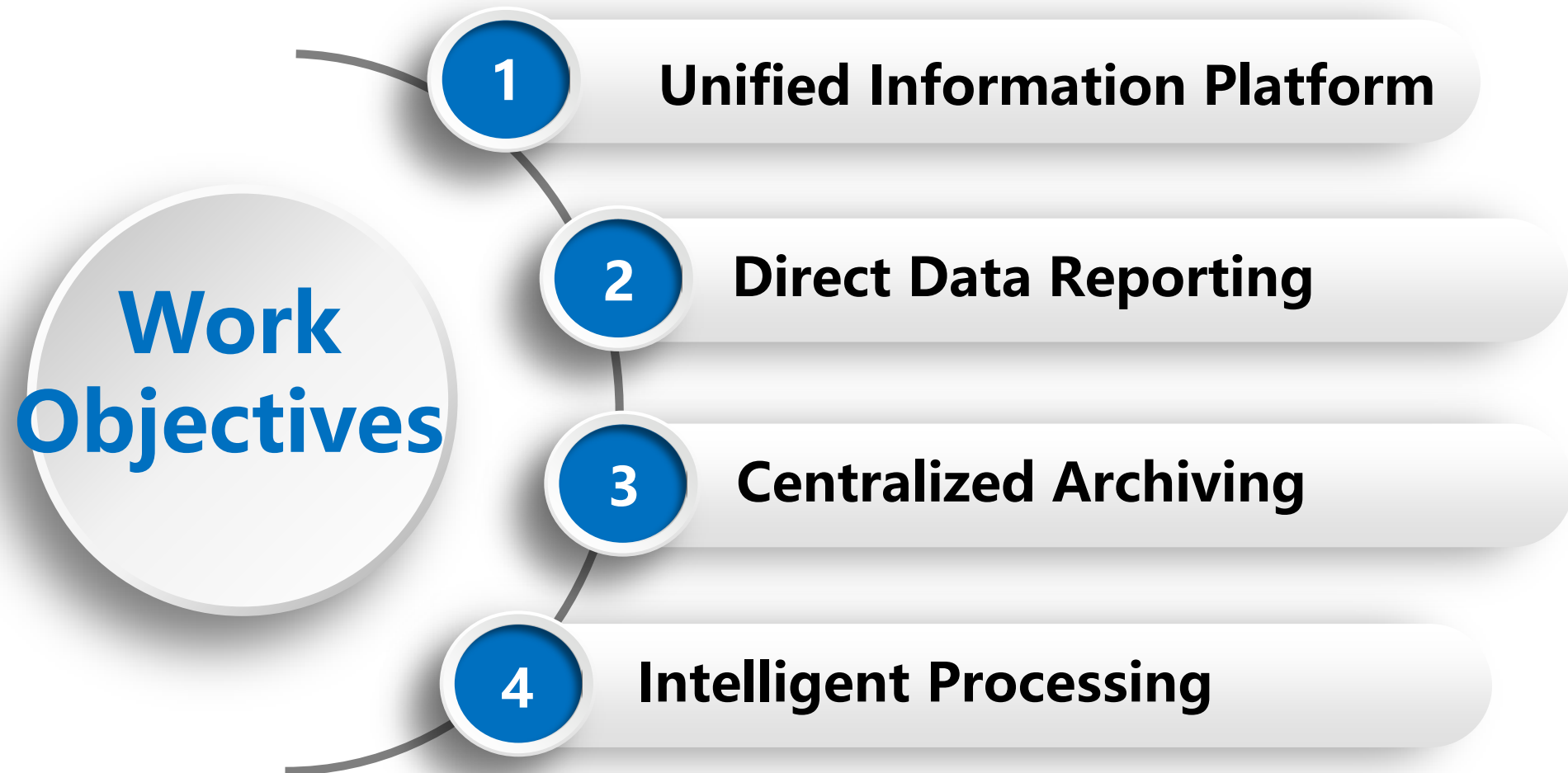
One Unified Cloud

- Resource integration
- Enhanced management



One Comprehensive Applications System

- Single sign-on
- one-stop service handling





2、Driving Comprehensive Digitalization of Chinese Statistics with IT



1-Unified Information Platform

Statistical Cloud Technology Platform

Hardware Status Monitoring

- 服务器数量 -----735
- 块存储节点 ----- 29
- 文件存储节点 ----- 21
- 集中式存储节点 ----- 4



Cloud Status Monitoring

- 弹性云服务器 1039 裸金属服务器 47
- 镜像服务 18 云硬盘 2188
- 虚拟私有云 128 弹性IP 622
- 弹性负载均衡 152 网络ACL 4



Server Resource Usage



国统中心（廊坊）



数据灾备中心





2-Comprehensive Statistical Application Management System

statistical methodology management

- Survey Project Management
- Metadata Management
- Basic Unit Statistical Register
- Sample Frame and Sampling Management

Application Management

- Portal Services
- Personnel Management
- User Permission Management
- Log Management
- System Monitoring



3-Data Collection and Processing System



Diversified Data Collection Methods:

Web Browser

1

Mobile App

2

Mini-Program

3

Automatic Collection of
Internet Data &
Administrative Data

4

Drone

5

Satellite Remote
Sensing

6



4-Data Management

Data Management System Business Process





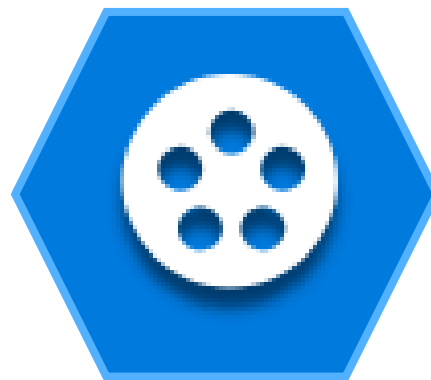
4-Data Management

Data Volume



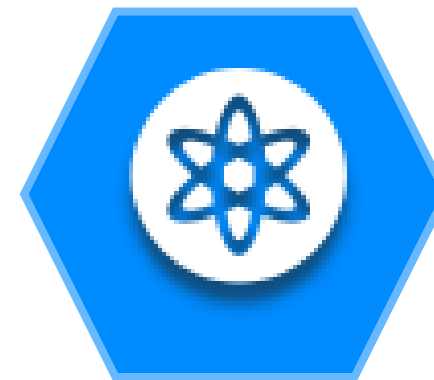
13.2 Billion

Granular data from routine surveys, censuses, and special surveys



63.53 Million

Summary Data



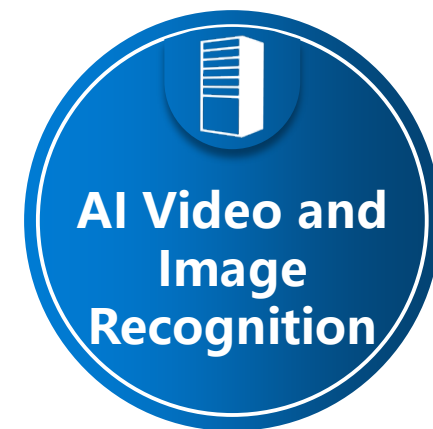
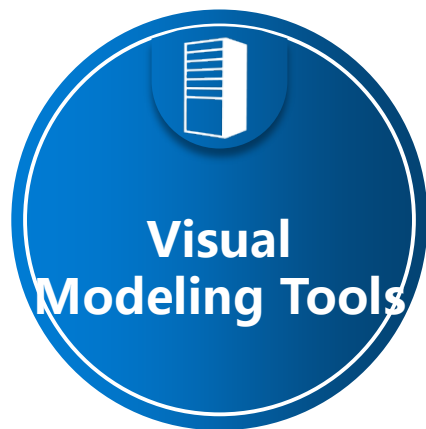
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Total Data Assets



5-Big Data Capability

- Utilizing 7 foundational capabilities, achieved analysis and application of unstructured data such as text, video, and images.



5-Big Data Capability

Big Data Applications Platform

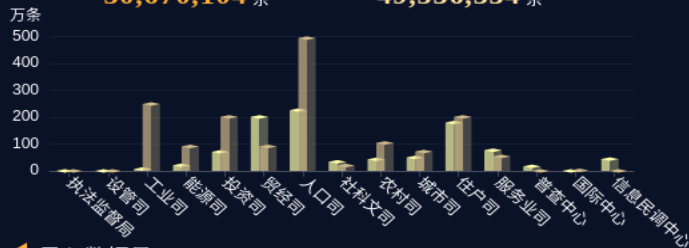
Data Source Integration

对接系统个数 7 个

月服务数据量

结构化数据总量
30,670,104 条

非结构化数据总量
49,536,334 条



导入数据量



Job Executions Completed

文本类

指标名称	累计值	当月值	单位
累计行业赋码量	1,583,218	↑ 791,609	条
累计职业赋码量	954,622	↑ 477,311	条
累计产业认定量	368,619	↑ 368,619	条
累计分析问卷文本数量	1,315,355	↑ 990,500	条

视频图片类

指标名称	累计值	当月值	单位
识别住户账页小票数量	120	↑ 70	张
识别投资凭证图片数量	6,860	↑ 3,600	张
识别生猪视频图片数量	564	↑ 501	个

数据挖掘类

指标名称	累计值	当月值	单位
累计分析的数据量	61,211,512	↑ 40,221,936	条
累计审核澄清说明条数	880,894	↑ 660,255	万条
累计推荐可疑企业数量	497,147	↑ 346,767	个

用户情况



Server Resource Usage

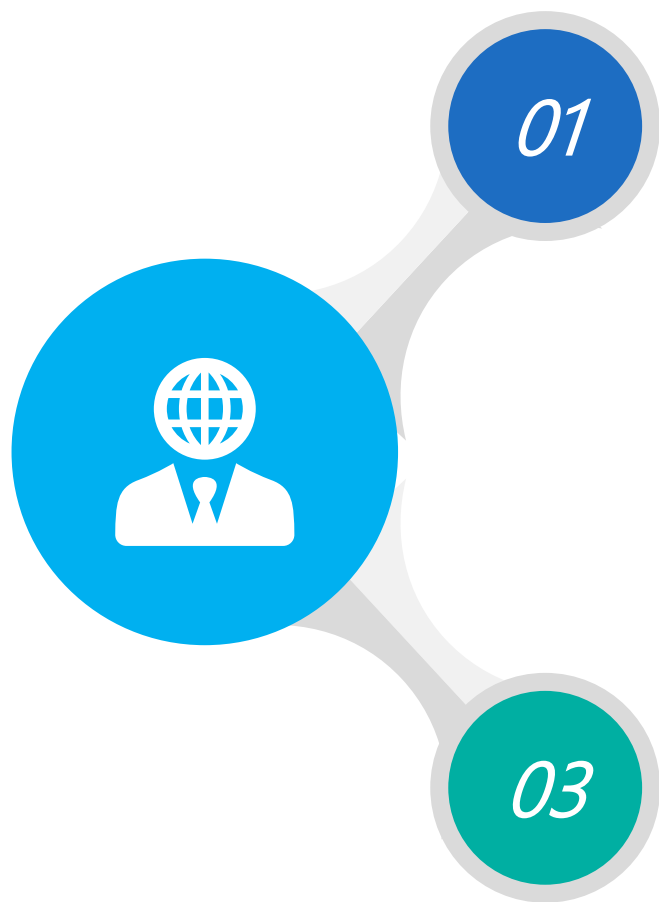


Computational Algorithm





3、Outlook on the New Wave of Statistical Technology Innovation



Digitalization of Statistical Foundations

Enhance Capacity for Data Collection, Utilization, and Analysis



INFORMATIONIZATION SUMMARY

Thank You!
