An Introduction of National Science and Technology Library of China (NSTL)

Zhang Xuefu

All of CAAS

2017. 06. 2

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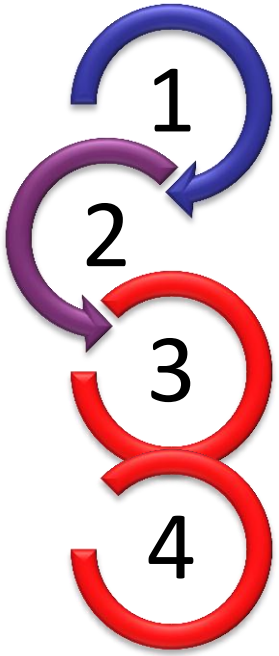

Overview of NSTL

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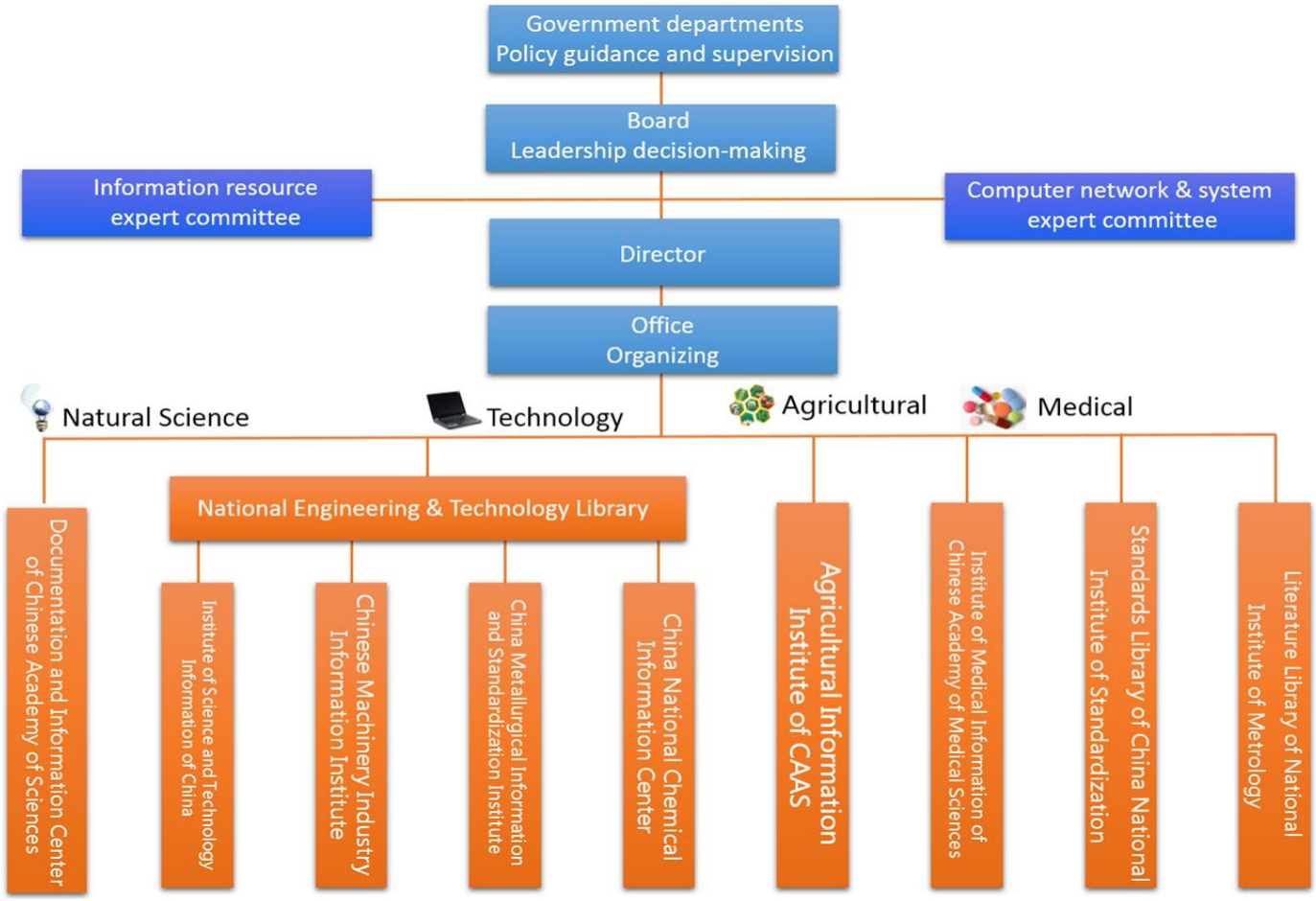
Development Plan of NSTL

Development Plan of AII

1. Overview

- **NSTL (National Science and Technology Library)was founded on June 12th, 2000 under the mandate of the Chinese State Council**
- **Funding by the Ministry of Finance**

1.1 Organization Structure



1.2 Mission

- **To establish the national strategic S&T literature collection and service system…,**
- **provide the public S&T information service of nation-wide**

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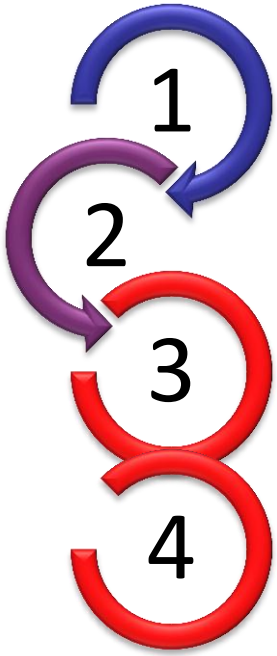

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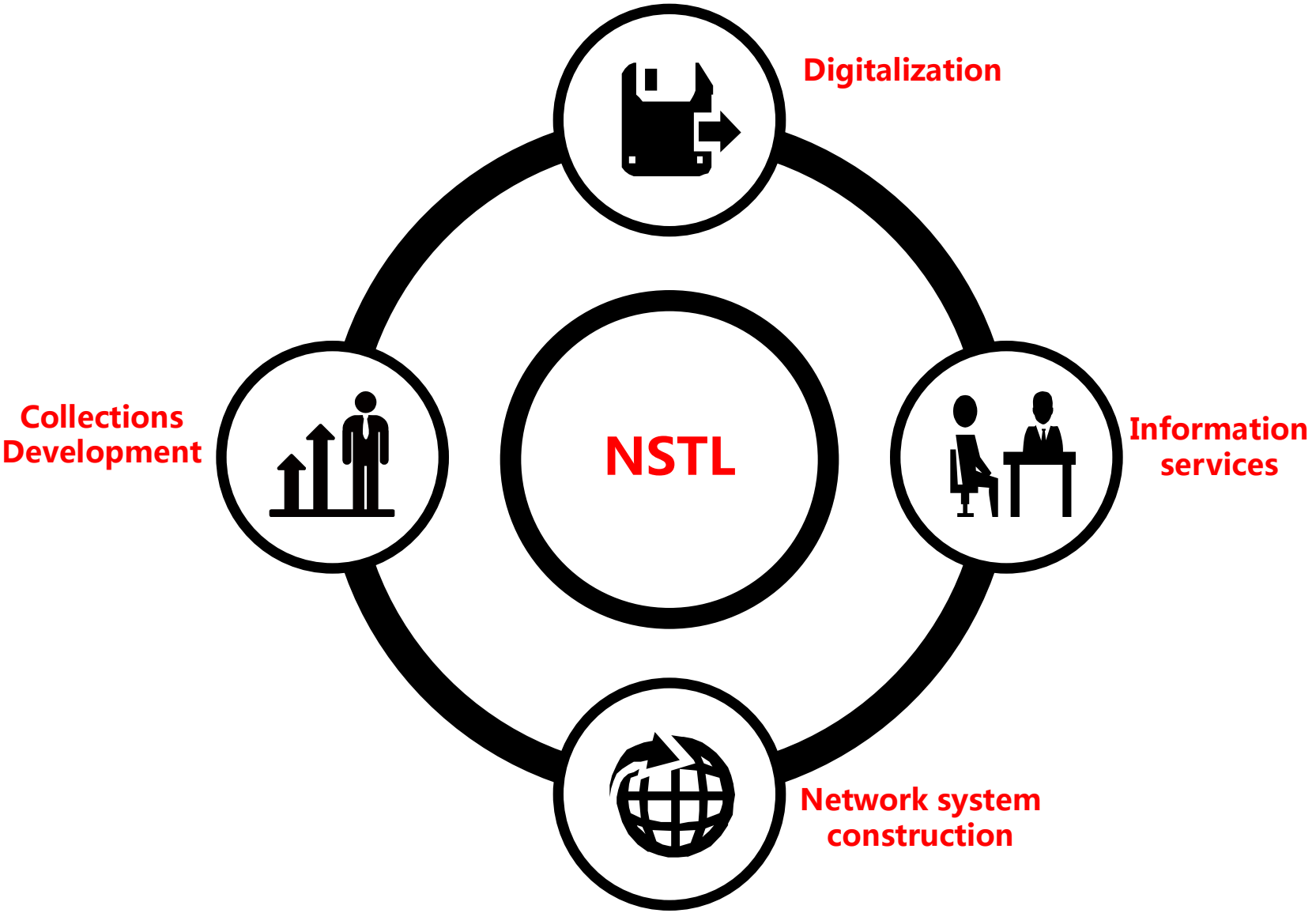
2. Main Activities of NSTL



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National Science and Technology Library　National Science and Technology Digital Library

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NSTL动态

- 2016年NSTL重大专项服务培训圆满举行
- NSTL召开新疆、西藏两区用户交流座谈会
- 澳门科技大学庞川副校长一行访问中心

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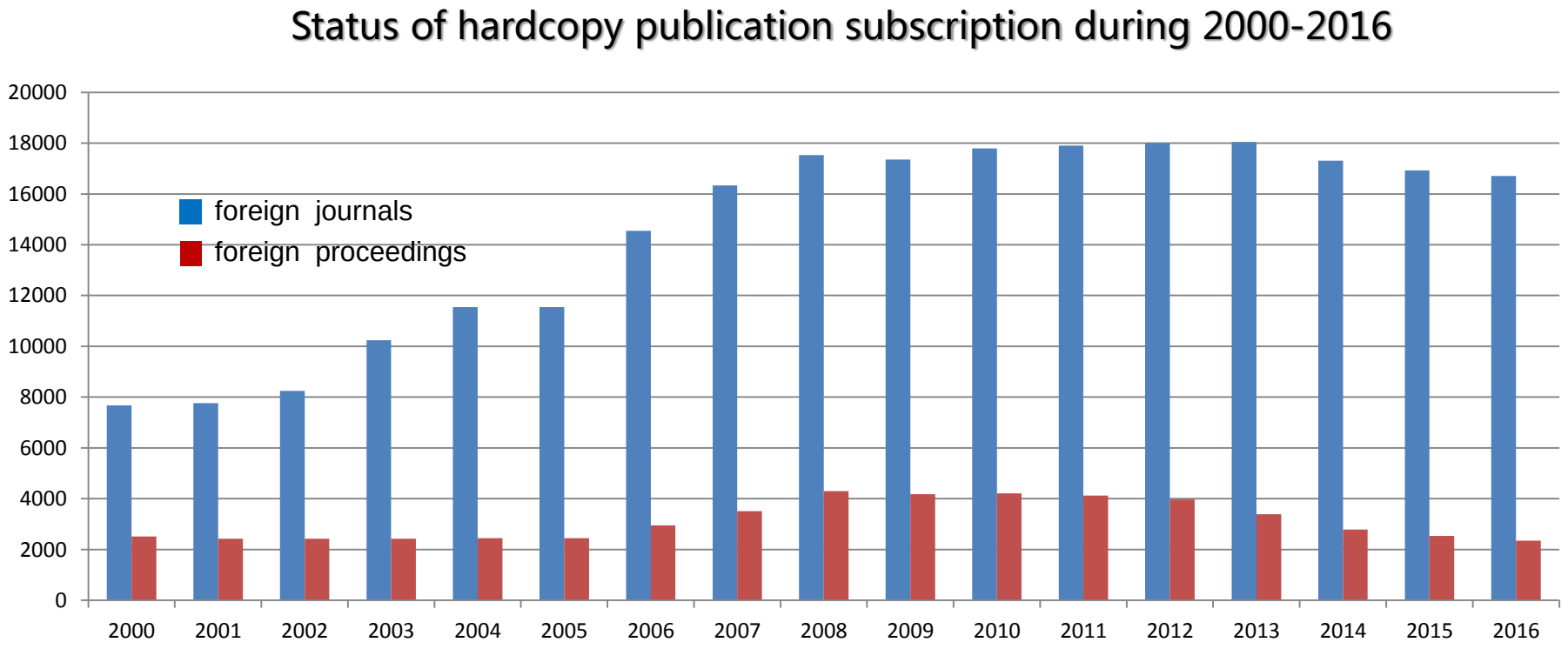
http://www.nstl.gov.cn

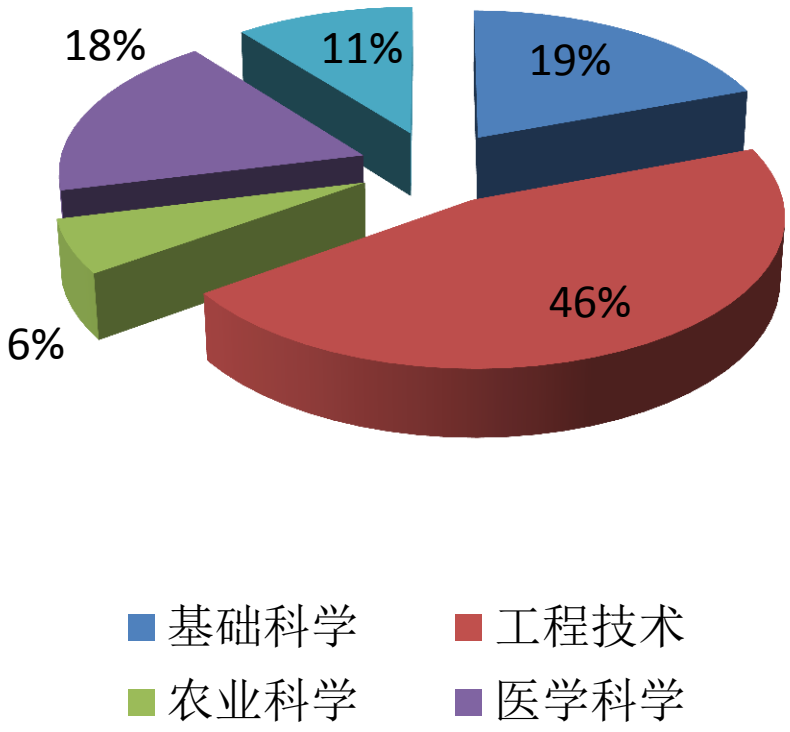
2.1 Collection Development

(1) Subscription of Hardcopy Publications

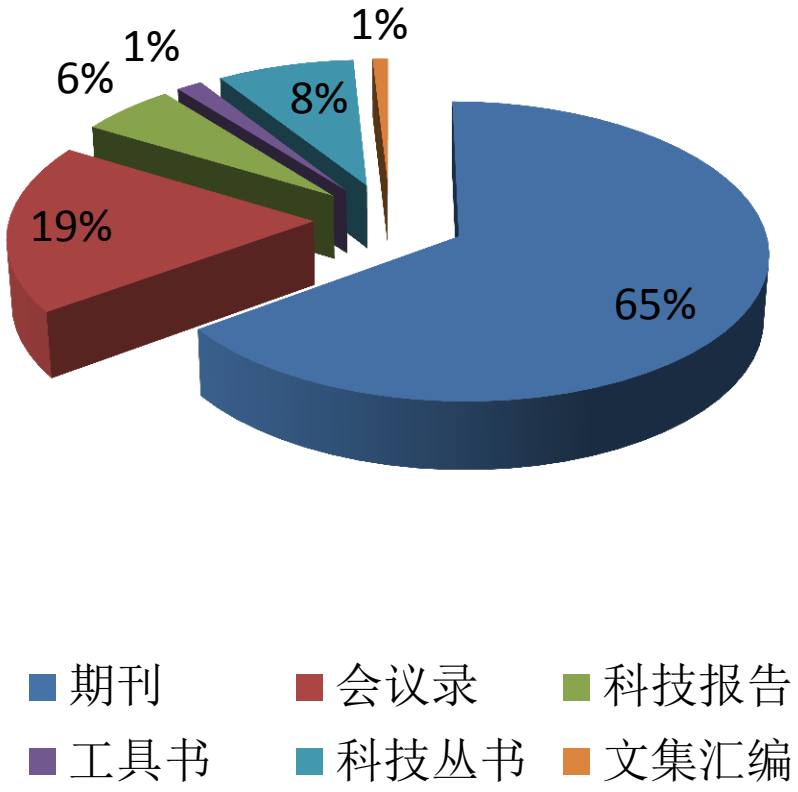
In 2016, Subscribing 24813 kinds of the foreign hardcopy publications.



subject fields of the hardcopy publication subscription in 2016



document types of the hardcopy publication subscription in 2016

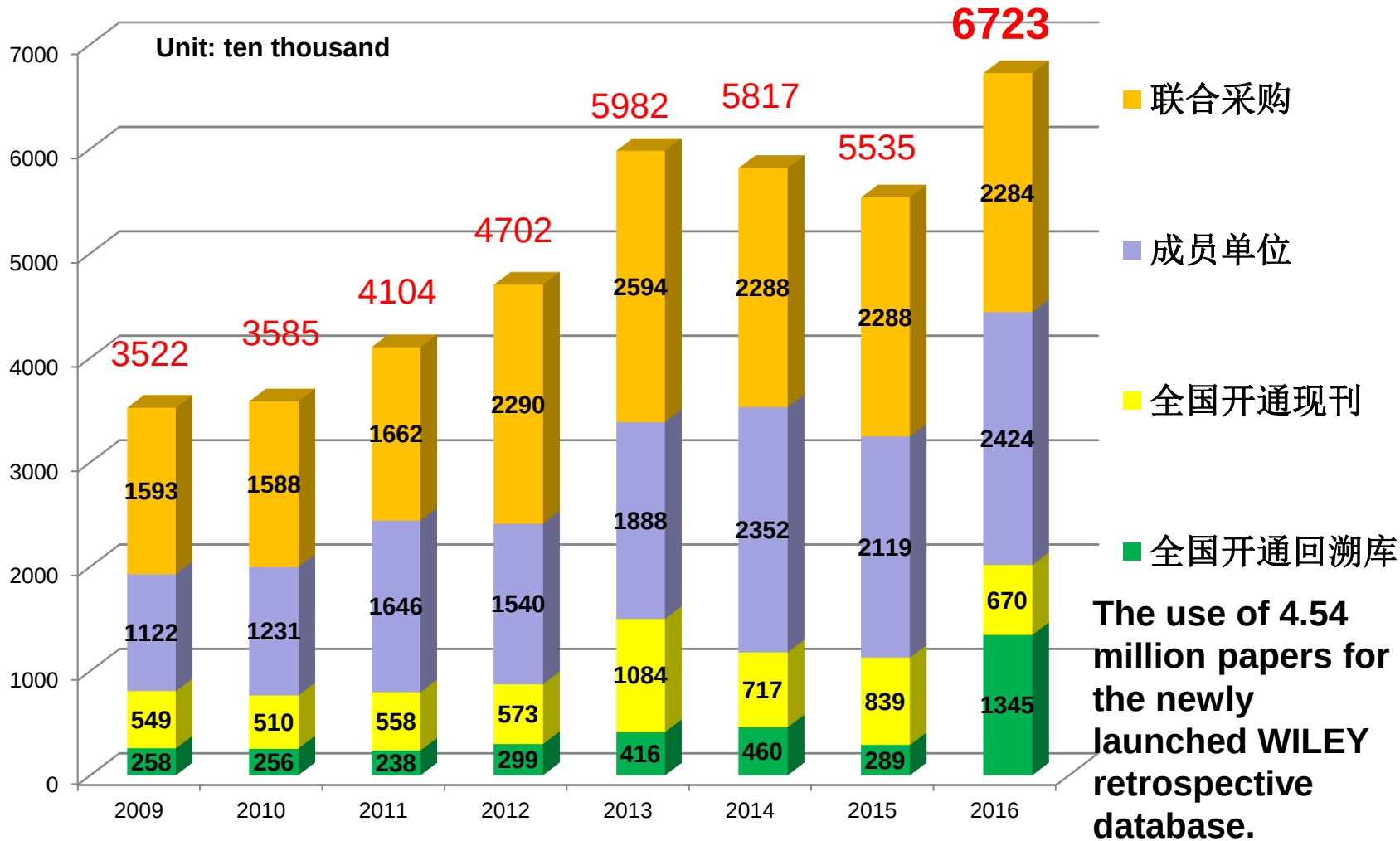


(2) Subscription of Database

In 2016, NSTL has increased the usages of digital resources by national licenses, consortia and memberships.

In 2016, subscripting 21458 foreign digital journals, 12000 Chinese journals, and 3018 back-up journals

NSTL online version of the annual use of electronic resources continued growing



The use of 4.54 million papers for the newly launched WILEY retrospective database.

(3) OA collections

- To collect open access material from 66 countries, and 9 languages.
- In 2016, we have collect the 5232 STEM journals(2.23M articles),1727 conference(78200 articles), 21419 courseware, 50000 thesis, 4000 books, 1500 reports

2.2 Digitalization

(1) Data processing

- From 2000 to 2014, abstract and Citation data was processed by ourselves.
- Since 2015, we have been working with database vendors to buy the abstract data from them, accounting for 50% of total data processing.

(2) Building name specification system

- completed the system development of the name specification database, accumulated 400 thousand name records (names, organization names, titles and fund records).

The name specification system can more accurately show the author's personal information, organization information, fund information and related papers and related information, and will provide more in-depth information service for users and even play an important role in knowledge discovery services.

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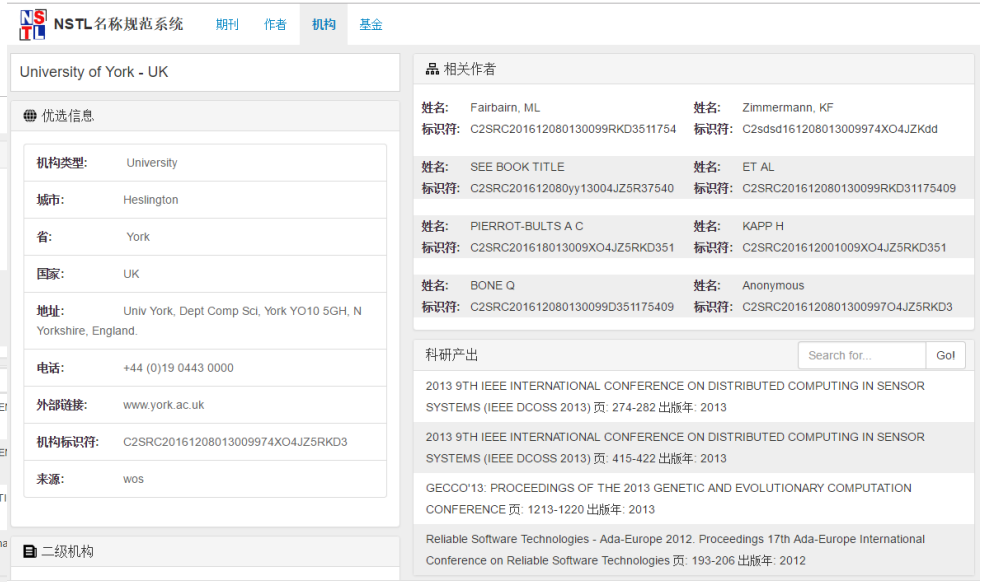

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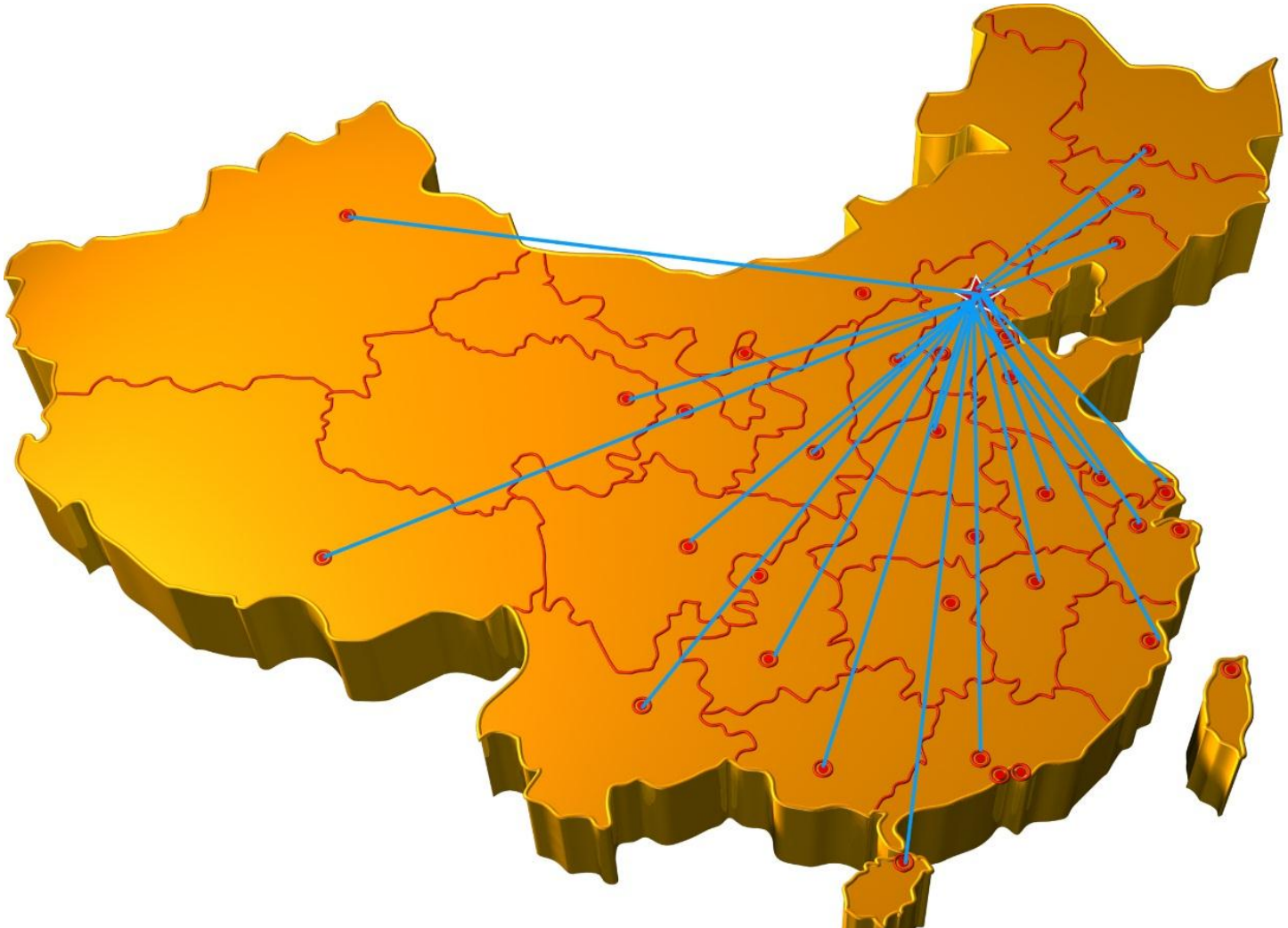
2.3 Information service and system

(1) Network for special services

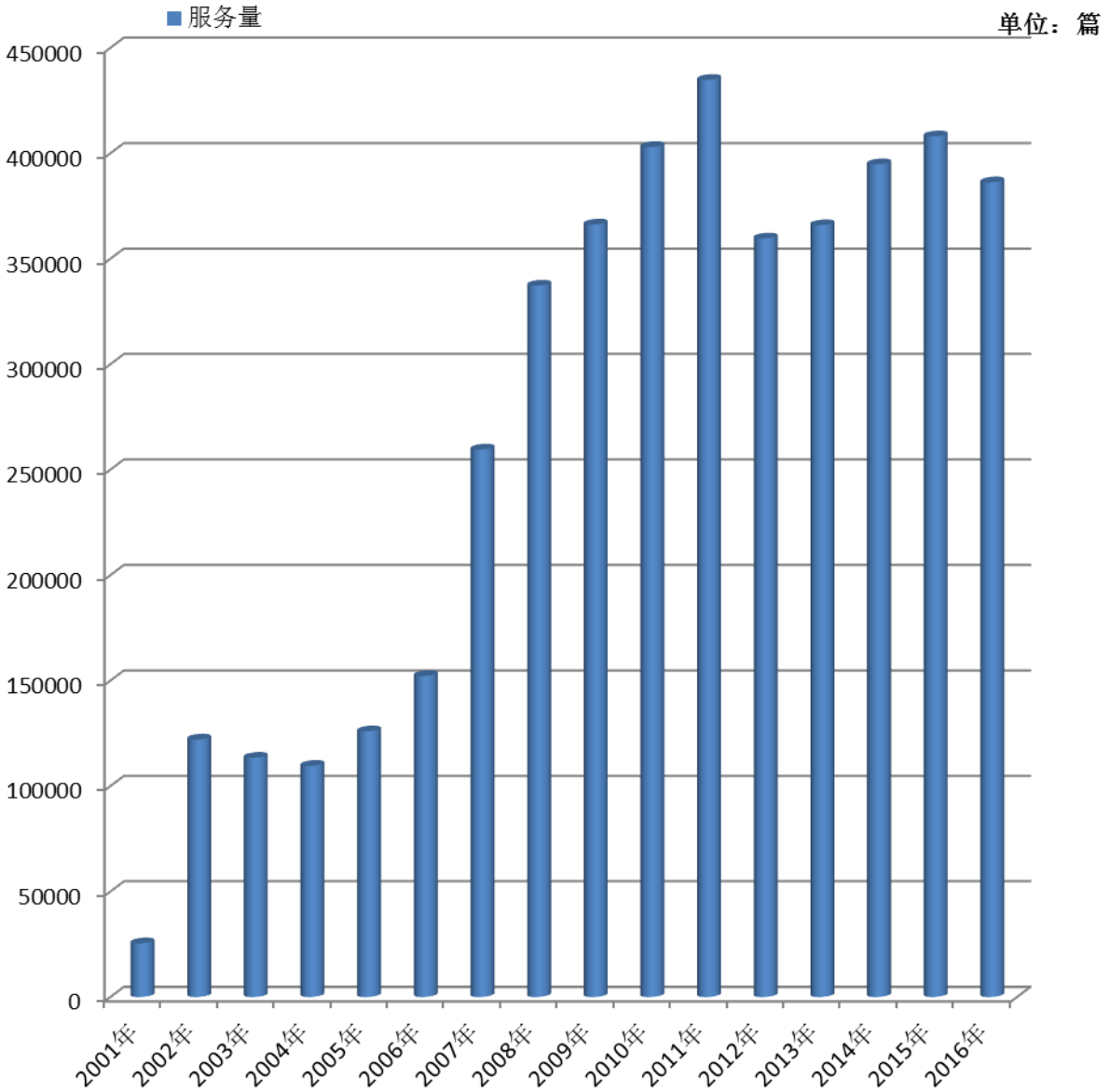


(2) Data service statistics (2016)

- **The system user access number up to 132.9 million;**
- **Literature searching 2.762 million times;**
- **To accomplish the full text service requests 38.97 thousand;**

2001～2016 Full text services of the network system

year	Number of full text
2001	25414
2002	122068
2003	113448
2004	109575
2005	125942
2006	152157
2007	259516
2008	337285
2009	366225
2010	403005
2011	434786
2012	359607
2013	365892
2014	394779
2015	408027
2016	389734
合计	4367460



(3) Scientific information and decision-making services

➢**consulting service for S&T, educational institutions, Adminstration, Enterprises, such as: Information analysis by countries, Monitoring /Alerting by sectors, decision-making information**

- **In 2016, providing 179 national reports, 86 countries (regions) forecast analysis report, and 74 industry briefing.**

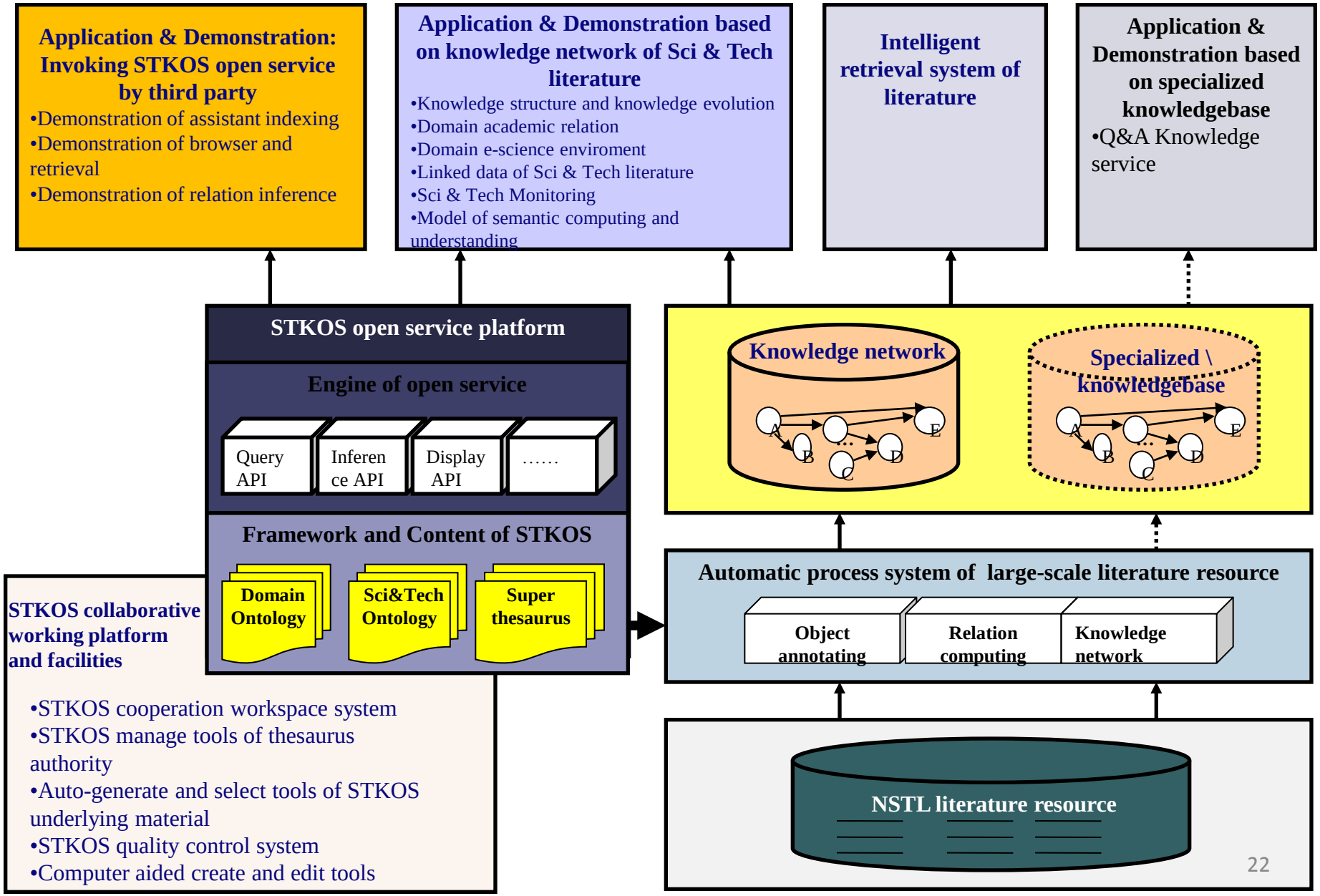
➢**To provide knowledge services for major science and technology projects and key R & D projects.**

- **Portals construction in key areas, the number of monitoring sources and information products continued to grow. In 2016, 9901 pieces of information were recommended; 124 issues of briefings were published.**

(4) Construction of knowledge organization system

- **Undertaking the major project of the national science and technology support program -- the construction and demonstration of the knowledge organization system for foreign scientific and technical literature information (STKOS)**
- **To develop a foreign integrated S&T vocabulary database to support the knowledge organization**

Illustration of STKOS Program



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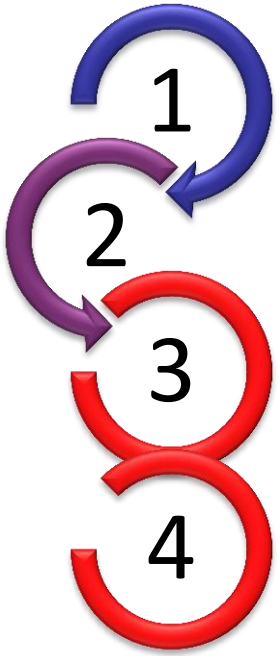

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3.1 Promoting knowledge services

- **Pay more attention to the advantages of scientific and technical literature information, data and knowledge service technology, integrate the research and development force of scientific research institutions, enterprises and industries, and develop the next generation of national science and technology innovation open knowledge service system;**
- **Construct independent safety, High quality and efficient national open innovation knowledge service information infrastructure, to ensure the original innovation and the international advanced level in the semantic knowledge, to ensure the efficient and sustainable use of national science and technology information resources.**

3.2 Promote the long-term preservation of digital science and Technology Literature

- To promote the construction of national digital science and technology document resources long-term preservation system.
- To carry out exploration and research on rich media resources, digital books, interactive teaching resources, scientific research and social media for long-term preservation of digital contents.

3.3 To carry out scientific and technological decision-making services

- **To carry out basic research on international investment and personnel issues, to provide policy research for the Ministry of science and technology;**
- **Carry out the forefront of international intelligence analysis of Xiangshan Science Conference, to serve Xiangshan Science office and high-level scientists;**
- **To carry out tracking and dynamic monitoring on international science and technology development strategy, planning, dynamic for the national key research projects and key areas.**

3.4 Talent development strategy

- to establish the professional position degrees, expert, specialist and professional;
- to improve the talent development by Seminar, conference and etc;
- to send persons study in foreign organizations, and invite foreign experts to visit NSTL and members

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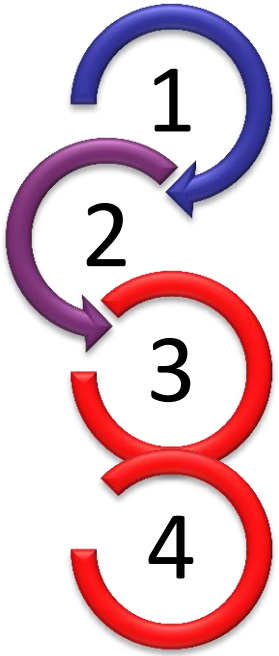

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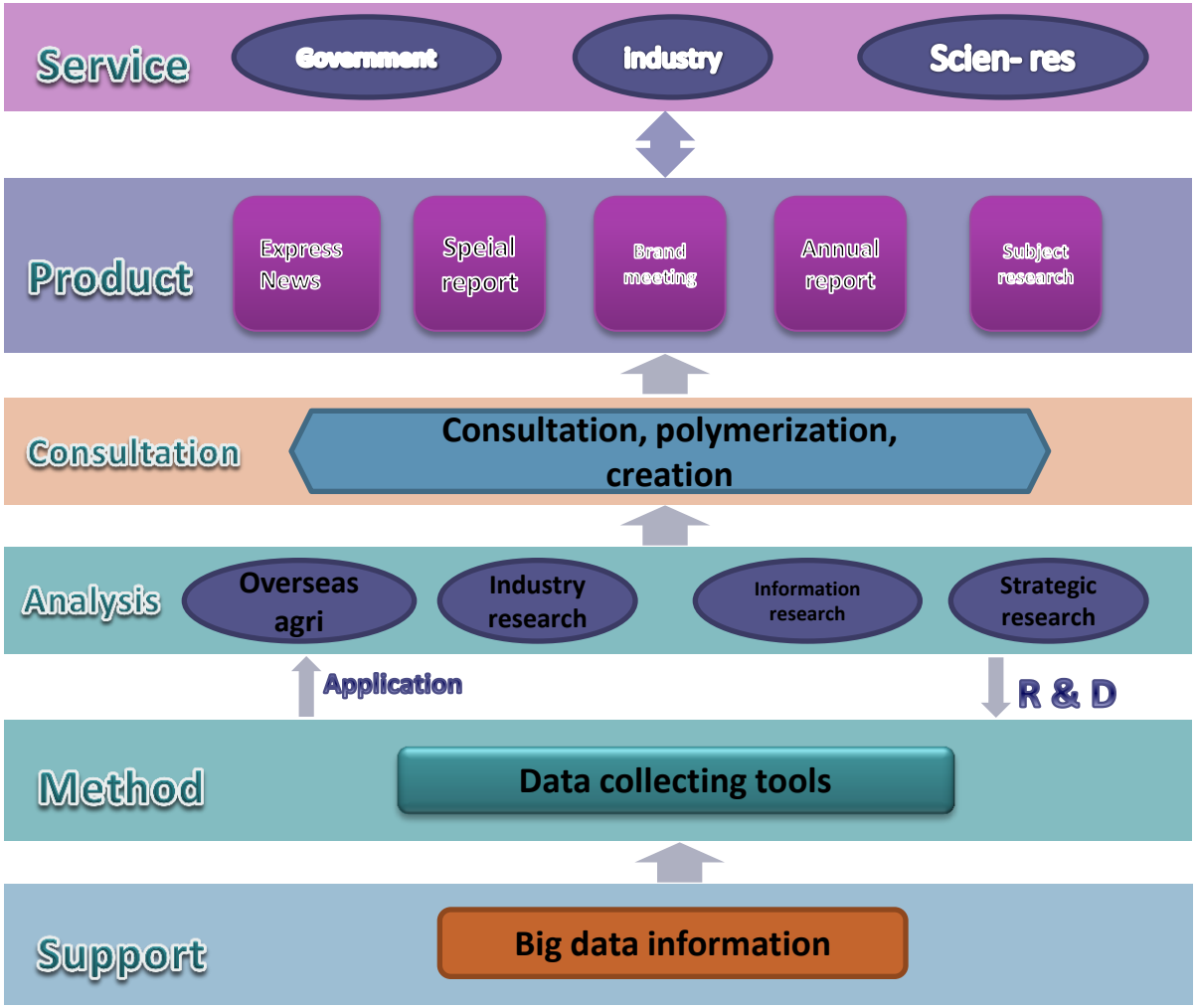
4.1 To integrate think tank research forces of AII to provide services throughout the whole industry chain



- Key areas: monitoring and early warning, agricultural risk, agricultural modernization, agricultural science and technology information, intellectual property strategy, etc..
- Research methods: to strengthen the research of the model and algorithm, and to promote the transfer of the decision service model from the macro analysis to the large data- driven.

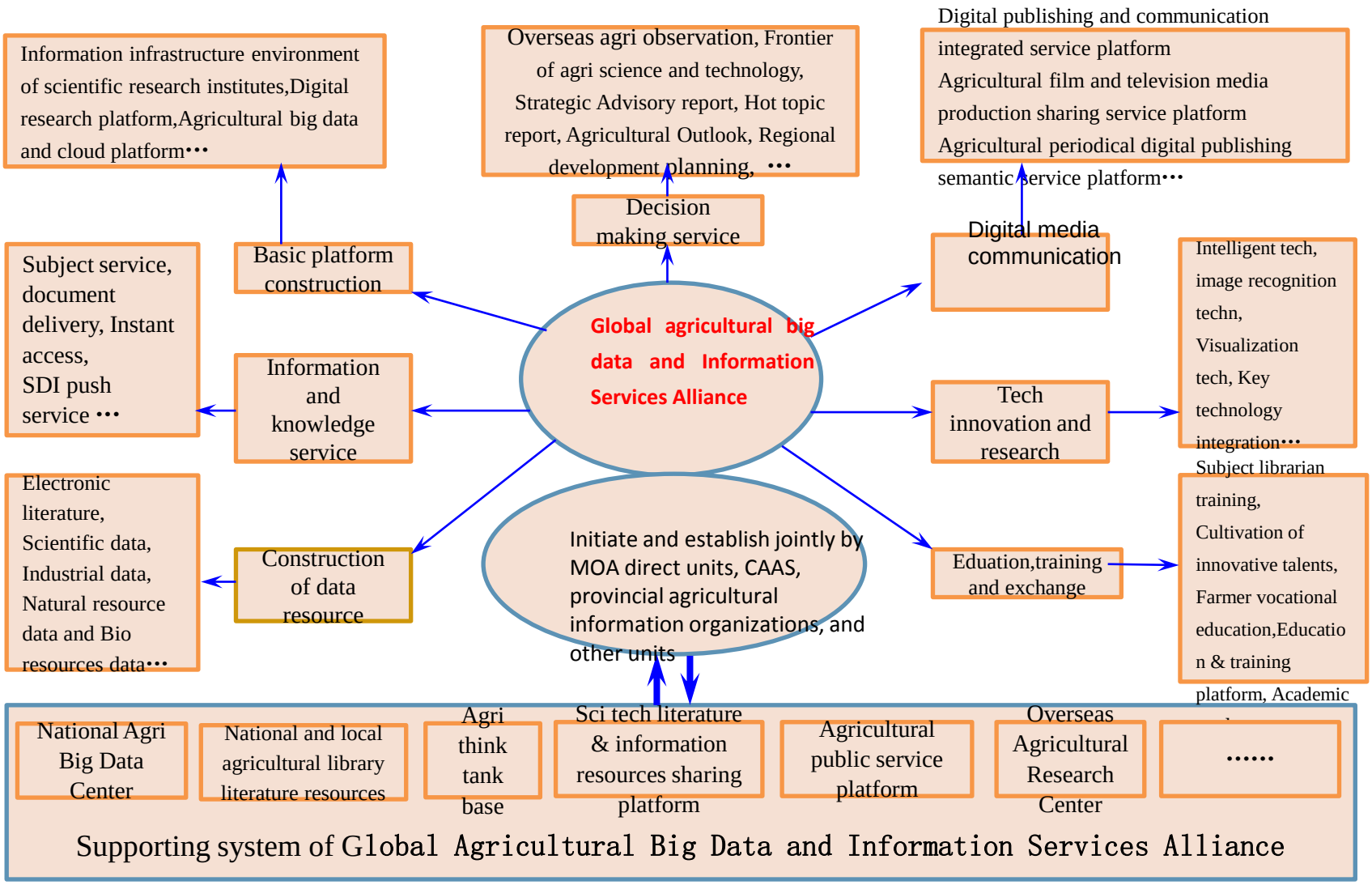
4.2 To carry out big data and cloud computing research, to create a agricultural big data cloud platform

- Continue to optimize the configuration and management of network infrastructure, support for global agricultural data and other big data and cloud based services integration deployment.
- Promote the large-scale application of agricultural science and technology cloud project.
- Promote R &D and content construction of agricultural public information service platform.
- Advance in implementation of CAAS "13th Five-Year" Innovative engineering key tasks of "agricultural big data mining and analysis of cooperative innovation action".

4.3 Aiming at the advanced technology of intelligent agriculture, breaking through the key technology of information agriculture

- Crop growth model and its intelligent technology use.
- Application of image recognition technology in intelligent agricultural production.
- Application of dynamic visualization technology in agricultural production management decision making.
- Integration of the key technologies of agricultural information collection, agricultural technology cloud, crop model and intelligent control, and image recognition etc.

4.4 Creation of Global Agricultural Big Data and Information Services Alliance



Thank you for your attention!

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