Policy-making oriented information services of scientific and technological libraries in China

Liu Xiwen

National Science Library, Chinese Academy of Sciences

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Overview

• The Origin of DL in China
• The Mode of S&T Library Services
  – Digital S&T Resources and Services
  – S&T Literature Integrated Services System
  – Information Services of Domain or Topics
  – Information Analysis Services
  – Decision-making Consulting
• Policy-making oriented service of S&T Library in China
  – Alerting services
  – Information Analysis
  – Policy and Strategy Investigation
• Summary
1. Origin of DL in China

- The first program on the DL
  - ATPLIN sponsored by the National Natural Sciences Foundation of China (NSFC) in 1993
    - Library of Chinese Academy of Sciences (Head of the Project)
    - Library of Peking University
    - Library of Tsinghua University
  - Sharing the catalogue data in the libraries between CASnet, PUnet and TUnet
  - Demonstration on the IFLA’ 96 in Beijing
Main Functions

3. OPAC
4. Union Cataloging
5. IIL by the Internet between the three Libraries
6. Search of Readers in the three Libraries
• In 1996, China Ministry of Education supported the projects of key technology of digital library;
• In 1997, Shanghai Library initiated its digital library project;
• In 1998, the National Library of China organized key technology research of digital library;
• In 1999, China Academic Library & Information System (CALIS) was started under support of the Ministry of Education;
• In 2000, National Science and Technology Library (NSTL) was launched;
• In 2001, National Science Digital Library Project (CSDL), launched by Chinese Academy of Sciences.
To serve the public, to achieve the sharing of digital resources for library

To build and share the resources of Libraries system of Chinese Academy of Sciences document, to achieve jointly national-wide service

To build and share the resources together among members, to achieve jointly S&T document guarantee services

To build and share the resources together among Chinese universities, to achieve jointly service between university libraries

Figure 1: The basic mainframe of Chinese Digital Library
2. Mode of S&T Library Services

![Figure 2: S&T libraries Services Structure](image)
2.1 Digital S&T Resources and Services

- Collection of digital resources
  - S&T libraries collect the digital resource in two ways.
    - Purchasing databases, full-text or abstract.
    - Organizing the theme databases.
• 2.2 Integrated Services System
  – (1) to integrate literature delivery services into the scientific research process and environment
    • Institutional digital resource consortia
  – (2) to merge scientific documents, information and data into the research activities
    • Crossdomain search system
  – (3) to provide one-stop retrieval service
    • Federal search system
• 2.3 Information Services of Domain or Topics
  – Such as Subject portal, Research fields portal
• **2.4 Information Analysis Services**
  
  – **Project Consulting:**
    - To collect and sort out scientific documents, information of updated progress and advancing news of S&T, and provide information analysis services of special topics and novelty-proofed search of research projects.
  
  – **Policy-making and strategic management oriented consultation:**
    - To practice information analysis and investigation on S&T policies
    - To analyze the progress, policies, strategies of disciplinary research in related fields, and provide policy-making consulting reports
2.5 Decision-making Consultation

- To commence information analysis of science and technology documents, scientific data, S&T development situation, and provided the intelligence for the S&T policy-making and scientific research management.

- To use bibliometrics/scientometrics/content analysis software to analysis trend of scientific research activities.
3. Information Services for Decision-makers

Intelligence Service

- Project Research
- Information Services of Topics
- Alerting

Content of Information Services

- Annual Development Review
- Policy and Management
- Program & Plan Making
- Forecast and Assessment
- Discipline Metrics Analysis
- Discipline Development Assessment
- Summary of Topics or Subjects
- Policy and Planning Investigation
- Discipline Development Trends
- News of Strategy and Planning
- News of Topics or Field
- News of scientific activities management

Process of Decision-making

- Scheme Making
- Status quo Analysis
- Information Accumulation

Figure 3: S&T Decision-making Services of Libraries
Intelligence Analysis of S&T Strategy
Trends Analysis of S&T Institutes and Activities
Trends Analysis of National Innovation System

Monitoring of S&T Development Trends
Intelligence Analysis of Key Scientific Issues of Needs
Competitive Intelligence of Scientific Domain

Information Analysis of S&T Managements
S&T Evaluation and Services
Information Analysis of the S&T Resources

Service Tasks of National Science Library of CAS

Directors of CAS
Planning and Strategy Bureau

Directors of CAS
Headquarter of CAS

Users
3.1 Alerting service

- (1) news in the disciplinary fields

- (2) news of R&D management
3.2 Information Analysis Service

- To include the scientific domain metrics analysis, field or project assessment, review of topics or field, science and technology policy and planning survey.
Analysis Report on the Subjects By NSL

Scientific Competitiveness Analysis

Analysis of Units in the NIS

Report on Chinese Science in the World Science By NSL

China Science Report

By NSL Annually
3.3 Policy and Strategy Investigation

- Research Projects:
  - the impacts of science and technology on society and economics
  - the social organization of S&T activities
  - the institutions of science and technology
  - the management of research activities
  - the priority setting of science and technology
  - talents and personnel resources of science and technology
  - international scientific and technological exchanges and cooperation
4. Summary

- The decision-making information service of science and technology libraries of China is an extension of the traditional library literature service.
  - Transforming from the bibliography document (abstract) services into subject information service and information analysis;
  - Focusing on the investigation of policy and strategy of S&T;
  - Moving towards soft science research for decision-making intelligence services;
  - Establishing intelligence analysis tools and platforms.
Thanks for your Attention.

Question?