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Specialized Libraries Serving the Real Economy: Reflections and Practice (Postprint)

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Abstract

[Purpose/Significance] Through analyzing the importance of the real economy, this paper points out that future specialized libraries should adapt to international trends to serve the real economy and support regional industrial technology innovation.

[Method/Process] Taking the Guangdong Provincial Science and Technology Library as the research object, this study employs the case analysis method to dissect the library's operational mechanisms and innovative services in serving the real economy, and discusses its experiences and existing problems.

[Results/Conclusion] By summarizing experiences from multiple aspects, including constructing a real economy service system, establishing online and offline science and technology achievement transfer and transformation service platforms, promoting innovation and entrepreneurship services oriented toward enterprise needs, and team building, this paper provides reference for specialized libraries to develop real economy services.

Full Text

Preamble

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Reflections and Practices on Professional Libraries Serving the Real Economy

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Abstract

[Purpose/Significance] By analyzing the importance of the real economy, this paper points out that professional libraries should adapt to international trends to serve the real economy and support regional industrial technological innovation. **[Method/Process]** Taking Guangdong Science and Technology Library as the research object, this study employs case analysis to examine the library's operational mechanisms and innovative services for the real economy, discussing both experiences and existing problems. **[Result/Conclusion]** The paper summarizes experiences in building a real economy service system, establishing online and offline platforms for scientific and technological achievement transfer and transformation, promoting dual innovation services oriented toward enterprise needs, and team construction, providing references for professional libraries to develop real economy services.

Keywords: real economy; transformation of scientific and technological achievements; professional library; innovation and entrepreneurship

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1. Significance and Importance of Real Economy Revitalization

The 2008 global financial crisis triggered profound changes in the world economy, finance, and political landscape that have transitioned from quantitative to qualitative transformation. The world economy has entered a new era—the “post-financial crisis era” [1]. This post-crisis period is characterized by three major features: economic de-virtualization, international financial deleveraging, and deglobalization of the world economy [2]. The real economy constitutes the foundation of the national economy, encompassing most sectors of the primary, secondary, and tertiary industries. It provides employment opportunities, improves people's livelihoods, and serves as the basis for sustained economic development and social stability. As the foundation of the virtual economy, it carries lower risks than its virtual counterpart [3]. Real economy development helps prevent industrial hollowing-out, promotes employment and income growth, and is crucial for enhancing international competitiveness and resilience against economic crises [4]. Following the financial crisis, Western countries led by the United States have returned to the real economy, vigorously implementing “re-industrialization” strategies [5]. Developing countries have also made strategic deployments, with provinces and municipalities introducing corresponding measures to promote manufacturing development. The effects of revitalizing the real economy to drive overall economic growth have begun to emerge (see Table 1).

2. Domestic and International Real Economy Revitalization Initiatives

To revitalize the real economy, countries worldwide have introduced policies to develop their manufacturing sectors. After China released “Made in China 2025,” various regions actively responded with supportive measures.

3. Advantages of Professional Libraries in Serving the Real Economy

As the main drivers of technological innovation, enterprises have massive demands for scientific and technological intelligence, talent, technology, and capital, while simultaneously facing internal and external constraints such as blocked information channels, weak technological innovation capabilities, and lack of financial investment [30]. Professional libraries, situated in resource-rich environments with abundant information, technology, and talent, possess dual advantages in intellectual and platform resources. Relying on their host research institutions, professional libraries collect information on domain experts to form their own expert databases, enabling them to quickly assemble professional technical talent to guide enterprise R&D. They employ professional data analysis talent and connect with top industry experts through research services. By collecting scientific research data and achievement information, they establish big data platforms for scientific and technological achievements, utilizing advanced information technology to match enterprises with industrializable achievements [31]. Furthermore, professional libraries provide literature and information services to support enterprise independent innovation using their rich collection of data resources. Through the construction of science and technology think tanks that serve government and gradually influence scientific and technological decision-making, they indirectly support enterprise technological innovation and promote the healthy development of the real economy through relevant policy implementation [32].

4. Practice of Professional Libraries Serving the Real Economy: A Case Study of Guangdong Science and Technology Library

4.1 Background of Guangdong Science and Technology Library’s Services for Real Economy Revitalization

Guangdong Science and Technology Library (Guangdong Institute of Science and Technology Information and Development Strategy, hereinafter referred to as “GDST Library”) was established in 1958, formerly known as the Library of Guangzhou Branch of Chinese Academy of Sciences, Central-South Branch Library, and Central-South Science Library. In June 2015, Guangdong Province integrated the former Guangdong Academy of Sciences, Guangdong Industrial Technology Research Institute, and multiple research institutes within

the province to form the new Guangdong Academy of Sciences, comprising 22 key institutes. GDST Library integrated the Industrial Development Strategy Research Center and Industrial Informatization Promotion Center of the former Guangdong Industrial Technology Research Institute, and was additionally designated as “Guangdong Institute of Science and Technology Information and Development Strategy,” becoming an important unit in the “Think Tank and Services” sector of Guangdong Academy of Sciences.

In serving the real economy, GDST Library has undergone a transformation process from initial stage (1998-2012), development (2012-2015) to transition (2015-present) (see Figure 1 [Figure 1: see original paper]). In 1998, the library established an Information Consulting Department to provide information and intelligence services for enterprises. From 1999 to 2011, it gradually explored enterprise intelligence service models based on this department. In 2012, the library established an Intelligence Research Department, which conducted research on regional technological innovation and industrial technology development trends through an “intelligence personnel + domain experts” model. In 2015, as China’s economy entered a new normal, Guangdong Province proposed countermeasures to revitalize the real economy and increased R&D investment and service environment optimization for enterprises. Seizing this opportunity, GDST Library accelerated its transformation, using scientific and technological achievement transfer and transformation services as an entry point to build a real economy service system and launch a series of innovations oriented toward real economy services.

4.2 Establishing a Support Service System for Real Economy Revitalization

In the process of serving real economy revitalization, GDST Library has gradually formed a corresponding support service system (see Figure 2 [Figure 2: see original paper]).

4.2.1 Serving Government Decision-Making Consultation

The library actively introduced high-level talent and cultivated a strong research team for scientific and technological decision-making consultation. Through a “small core, large network” organizational structure, it expanded the team’s research fields, gathered think tank service resources, undertook decision-making consultation projects commissioned by national, provincial, and municipal governments, and produced a series of influential research results, forming smooth upward communication channels.

4.2.2 Conducting Scientific and Technological Achievement Transfer and Transformation Services

In 2016, Guangdong Academy of Sciences and Southern Media Group jointly established the Guangdong Scientific and Technological Achievement Market Transaction Platform—Southern Innovation and Entrepreneurship Hub, aiming to build a supply-demand docking channel for innovation and entrepreneurship

resources, promote the openness, sharing, and matching of various elements, and improve the efficiency of technological innovation and R&D achievement transformation. Leveraging the strong scientific and technological strength of Guangdong Academy of Sciences, GDST Library has explored both universal and customized scientific and technological achievement transfer and transformation services for enterprises based on the “Southern Innovation and Entrepreneurship Hub.” For large R&D enterprises, it provides services including industrial strategic planning, talent demand matching, R&D dynamic monitoring, industrial technology intelligence, and literature information. For small and medium-sized micro-enterprises, it offers dual innovation training, project application guidance, intellectual property services, industrial intelligence push, and offline achievement matching events.

4.2.3 Forming a Closed-Loop Support Service Ecosystem

Utilizing internet, big data, cloud computing and other technologies, GDST Library integrates various innovation elements on the “Southern Innovation and Entrepreneurship Hub” platform to form a scientific and technological big data interactive system adapted to the usage habits of innovation and entrepreneurship users. Through enterprise demand-driven deployment of corresponding scientific and technological innovation services and online-to-offline (O2O) operation models, it adapts to the low-cost, ultra-convenient, and high-efficiency development trends of enterprise technological innovation. By connecting research institutions, enterprises, and local governments in series or parallel, the library promotes positive interactions among these institutions, forms an ecological closed loop serving enterprise technological innovation, and radiates its services throughout Guangdong Province and even nationwide.

4.3 Cases of GDST Library Serving the Real Economy

4.3.1 High-Quality Decision-Making Consultation Reports Assisting Local Government Industrial Transformation and Upgrading

Commissioned by the Guangdong Provincial Political Consultative Conference, in early 2017 GDST Library undertook the drafting of a special research report on “Revitalizing the Real Economy and Accelerating the Advancement of the Province’s Manufacturing Industry to Mid-High End.” To understand the real economy status of the province, the GDST Library team visited governments in over 10 prefecture-level cities, forming a research report based on thorough investigation and communication that received praise from multiple leaders including the Chairman of the Guangdong Provincial Political Consultative Conference. In the same year, the library also participated in industrial upgrading research in Shaoguan City, completing research reports on the chemical industry park, non-ferrous metals industry, pharmaceutical manufacturing, food industry, and traditional industry transformation and upgrading, providing valuable references for the city’s future industrial strategy formulation.

4.3.2 Serving Large Enterprises

Large enterprises possess strong R&D capabilities and have intense demands for

literature services, peer R&D dynamic monitoring, industrial technology intelligence, and applied basic research talent. In response, GDST Library provides customized services for these enterprises. For example, it built a “Biomedical and Health Industry Policy and Regulation Service Platform” for Guangzhou Pharmaceutical Holdings Limited to help it timely grasp national and provincial science and technology policies. It provided R&D dynamic monitoring services for Guangdong Shengyi Technology Co., Ltd. and China Southern Glass Group, continuously tracking the R&D and market layout of large domestic and foreign enterprises. It offered patent monitoring services for Federal Pharmaceutical International Holdings Limited and conducted “Technology Due Diligence on Hydrogen Fuel Cell Industry for Guohong Hydrogen Energy” for Guangdong Guangxin Holdings Group, expanding traditional financial due diligence to multi-dimensional, three-dimensional industry future development analysis using patent analysis, technology and industry analysis, field research, and expert interviews, promoting innovation in industrial technology intelligence analysis models. The library successfully matched experts from Guangdong Institute of Intelligent Manufacturing, affiliated with Guangdong Academy of Sciences, with Guangdong Keda Energy Saving Co., Ltd., achieving precise matching between technology needs and talent resources.

4.3.3 Serving Small and Medium-Sized Micro-Enterprises

Technological innovation is crucial for small and medium-sized micro-enterprises to establish themselves in market competition, making their demand for scientific research and achievement transformation extremely strong beyond intelligence services. GDST Library’s support for these enterprises includes technology R&D and introduction, information monitoring, patent novelty search and analysis, and market development support, guiding them to access low-cost public service resources without barriers.

Leveraging its information technology advantages, GDST Library serves multiple enterprises through platforms. For instance, cooperating with China Science Import and Export Corporation, it jointly built the “Belt and Road Science and Technology Strategy Service Sharing Platform,” serving over 1,000 enterprises. The “Southern Innovation and Entrepreneurship Hub” platform co-built with Southern Media Group provides small and medium-sized micro-enterprises with achievement transformation and intellectual property services. Since November 2017, the GDST Library team has been pushing targeted industrial technology and economic information to paid members of “Southern Innovation and Entrepreneurship Hub.” The library also created the Guangdong Biomedical and Big Health Big Data Platform, integrating patents, scientific literature, news, and research project information to establish structured and unstructured data analysis modules, providing one-stop information query and analysis platforms for biomedical enterprises.

In practice, GDST Library has gradually formed a six-in-one scientific and technological innovation training system comprising policy interpretation, application guidance, scientific and technological intelligence, overseas training, finan-

cial and legal affairs, and intellectual property (see Figure 3 [Figure 3: see original paper]), helping small and medium-sized micro-enterprises with independent innovation while promoting exchanges between the library and enterprises.

4.3.4 Promoting Interconnection of Resources Across Industry Chains

GDST Library organizes and plans offline activities to promote interactive communication and achievement matching among upstream, midstream, and downstream enterprises:

- (1) Organizing visits for small and medium-sized enterprises to Guangdong Academy of Sciences, guiding entrepreneurs to visit GDST Library, Guangdong Institute of Microbiology, and Guangdong Institute of Intelligent Manufacturing to communicate with researchers, understand cutting-edge manufacturing technologies, and broaden their innovation horizons.
- (2) Participating in Guangdong Academy of Sciences' science and technology service local tours, matching enterprises in eastern, western, and northern Guangdong with research institutions for cooperation and achievement transformation.
- (3) Hosting series of industrial matchmaking events, such as the "Instrument Masters" offline exchange series co-planned with China Science Import and Export Corporation, connecting hundreds of instrument industry enterprises through forums and roundtables to promote information exchange and business expansion; organizing the Zhongshan Textile and Apparel Industry Scientific and Technological Achievement Matchmaking Conference to facilitate research institutes providing clothing quality testing services for local textile and apparel enterprises.
- (4) Embedding in high-end conferences to indirectly promote matching of various industrial elements. For example, GDST Library participated in organizing the Research Institution Innovation Achievement Fair hosted by the Ministry of Science and Technology and undertaken by Guangdong Academy of Sciences and Dongguan Municipal Government, facilitating on-site auctions of scientific and technological achievements.

4.3.5 Initial Achievements

GDST Library has gradually improved its support service system for real economy revitalization, providing customized solutions for different stakeholders and effectively addressing pain points in scientific and technological consultation and achievement transformation for governments, research institutions, and enterprises. At the macro industrial policy level, parts of the research report submitted by GDST Library to the Guangdong Provincial Political Consultative Conference were incorporated into the Guangdong Provincial Government's "Work Plan for Further Promoting the Implementation of the 'Ten Measures for Real Economy'" [41]. At the regional industrial development level, the series of industrial economic planning provided for Shaoguan Municipal Government offered actionable references for the city's industrial old-new kinetic energy conversion. In terms of scientific and technological achievement transformation, relying on the "Southern Innovation and Entrepreneurship Hub," GDST Library has facilitated over 30 scientific and technological cooperation projects worth 35 million yuan between research institutions and enterprises, and guided one incubator

to successfully enter the list of “National Science and Technology Business Incubators.”

4.4 Experiences from Serving the Real Economy

In the process of serving real economy revitalization, GDST Library has summarized the following experiences:

First, professional libraries must keep pace with the times and demonstrate new capabilities in the new era. Against the backdrop where the real economy has become a new strategic high ground for competition among major powers, China has proposed that “the focus of economic development must be placed on the real economy.” Professional libraries should strengthen their efforts to serve enterprises, especially small and medium-sized micro-enterprises, deeply embedding themselves in enterprise independent innovation activities to provide information resources, strategic intelligence, and scientific and technological talent support.

Second, demand-driven dual innovation services are more targeted. In the process of serving enterprises, professional libraries must deeply explore actual enterprise needs, formulate services or provide customized solutions based on these needs, and reverse-drive the R&D direction of research institutions to make their scientific and technological achievements more easily industrialized.

Third, professional libraries promote regional real economy development through dual innovation services. GDST Library has trained its team and enhanced its social influence through this process. By serving regional real economy development, the library has understood regional industrial structures and existing problems, accumulated rich experience in industrial strategic planning, significantly improved its team’s decision-making consultation service capabilities, gained widespread social recognition for its research results, and formed a virtuous cycle of team building.

Fourth, professional libraries promote their own transformation and development by serving the real economy. GDST Library has built online and offline scientific and technological achievement transfer and transaction platforms using modern information technologies such as internet and artificial intelligence, applied agile internet thinking to innovate service models, adapted to enterprises’ low-cost and asset-light operation modes, and strengthened the radiation of achievement transfer and transformation services. While integrating innovation with enterprises, GDST Library also identifies common technical challenges to be addressed from enterprise demands and sets them as its own R&D directions. In the future, GDST Library will focus on scientific and technological decision-making consultation, achievement transformation, and big data services, transforming from an information and intelligence provider to a planner and service provider of scientific and technological decision-making consultation, achievement transformation, and big data solutions, thereby realizing its social value in a leapfrog transformation.

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Author Contributions

Wei Dongyuan: Paper framework design
Zhu Lin: Organization of practical research section
Chen Jiaqi: Content compilation

Note: Figure translations are in progress. See original paper for figures.

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