

Translation

The following is a translation of the “About Us” page of the website of the International Science and Technology Information Center (ITIC), a government-run open-source S&T intelligence provider in Shenzhen, a tech hub in southern China. ITIC claims to use AI models to analyze all of the major global academic and corporate S&T literature databases so as to identify emerging trends in research and technology. The center makes its tools—notably its “Sci-Brain” or “S&T Supermind” platform—and underlying data available to the entire population of Shenzhen, free of charge.

Title

International Science and Technology Information Center: Introduction to the Center
国际科技信息中心: 中心简介

Source

International Science and Technology Information Center (国际科技信息中心) website, accessed April 1, 2024.

The Chinese source text is available online at: <https://itic-sci.com/aboutUs/introduction>

An archived version of the Chinese source text is available online at: <https://perma.cc/8TVN-EXPY>

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International Science and Technology Information Center: Introduction to the Center

The International Science and Technology Information Center (ITIC) was approved for construction in 2021. It was stood up in accordance with the important deployments of the *Opinions of the Chinese Communist Party Central Committee and the State Council on Supporting the Construction in Shenzhen of a Socialism with Chinese Characteristics Head Start Demonstration Zone*, under the leadership of the Shenzhen City Party Committee and the city government, thanks to the coordinated overall planning of the Shenzhen City Science and Technology Innovation Commission. It jointly constructed the “Sci-Brain” (“科技超脑”) Digital Intelligent Platform in coordination with four parties: Tsinghua Shenzhen International Graduate School, Shenzhen Science and Technology Library (also known as Shenzhen University Town Library), the Research Institute of Tsinghua University in Shenzhen, and National Supercomputing Center Shenzhen (also known as Shenzhen Cloud Computing Center).

ITIC includes four sub-centers under its umbrella: the Science and Technology (S&T) Information Intelligence Center (科技信息情报中心), the S&T Literature Service Center, the Future Industries Research Center, and the Data Infrastructure Center. ITIC is dedicated to creating a digital intelligent platform (数智平台) for systems including S&T literature, scientific data, intelligence and information (情报信息), high-end think tanks, and intelligent services. ITIC will continue to provide the most cutting-edge, most inclusive services in areas such as S&T literature intelligence (科技文献情报), scientific field databases, and future industry strategic consulting to scientific research personnel throughout the entire city.

ITIC's service system includes:

- I. Full-text real-time free access services for S&T literature. ITIC's portal website provides an access channel for the full text of documents from global top-tier journals free of charge to scientific research personnel throughout the entire city. For the first time, it makes six major foreign-language databases—ScienceDirect, Science Citation Index Expanded, IncoPat, Springer, Nature, and Wiley Online Library—from the four top international academic publishers—Elsevier, Clarivate, Springer Nature, and Wiley—publicly accessible, making it Asia's first digital resource for S&T literature with citywide coverage.
- II. "S&T discovery" ("科技洞察") services. ITIC's S&T discovery system takes scientific research big data such as information on dissertations, patents, experts, and scholars and S&T news and information as its foundation and integrates these with S&T knowledge graphs to build a semantic search and deep intelligence analysis (深度情报分析) model that analyzes and mines the global academic research situation and development trends in various technical fields from many dimensions.
- III. Services for "talent in 'smart' fields" ("智慧人才"). ITIC's system for talent in 'smart' fields, which relies on hundred-million-scale talent big data and artificial intelligence (AI) technology, constructs portfolios (图谱) of global S&T talents from every field. Relying on high-precision, multi-dimensional profiling technology and flexible multi-scenario recommendation technology, it provides complete services for talent work, including such steps as search, evaluation, recruitment, and hiring. It provides S&T talent services for

- organizations and agencies such as government, talent groups,¹ enterprises, research academies and institutes, and higher education.
- IV. Scientific data center services. Taking “social circles + academic disciplines” (“圈层+学科”) as the main thread, ITIC has constructed a capability foundation for data lakehouse integration (胡仓一体), brings together the research achievements of Shenzhen’s outstanding scientific teams, and has constructed a scientific data center that covers the “20+8” industrial domains.² With data lakehouses and governance capacity as the starting point, it leads and cultivates new business formats (新业态) for the integrated development of digitalization and industry for enterprise strategic decision-making and digitalized transformation and empowerment.
- V. Future industry strategic consulting services. ITIC has constructed a future industry research and information services platform with a global field of vision, trend discovery, and deep research capabilities. It pursues cutting-edge development movements in future industries, determines development trends, and identifies key stages and major innovation entities in support of plan deployments and project launches for future industries.
- VI. New high-end think tank services. With the support of the underlying technologies of big data and AI, ITIC has made overall plans for a think tank team and platform that are authoritative and mature for various businesses. It has collected all manner of forces and formed them into a high-end business alliance, united forces to create a high-end think tank service system in Shenzhen, and provides intelligent consulting service support for strategic decision-making by governmental and scientific research entities.

¹ Translator's note: "Talent groups" (人才集团) first emerged in China in 2016. They are state-owned enterprises (SOEs) funded by provincial or local SOEs or governments. Their function is to recruit talent for provincial or local SOEs in support of government industrial development policies.

² Translator's note: The "20+8" industries refer to an industrial policy in Shenzhen City in southern China. The policy calls for developing 20 industrial clusters for important sub-sectors of strategic emerging industries and eight emerging technologies for future industries. The 20 sub-sectoral industrial clusters are: (1) Internet and telecommunications, (2) semiconductors and integrated circuits, (3) UHD video displays, (4) intelligent terminals, (5) intelligent sensors, (6) software and information services, (7) digital creative industries, (8) the modern fashion industry, (9) industrial machine tools, (10) intelligent robots, (11) laser and additive manufacturing, (12) precision instruments and equipment, (13) new energy, (14) safe, energy conserving, environmentally friendly industries, (15) intelligent connected vehicles, (16) new materials, (17) high-end medical instruments, (18) biotech and pharma, (19) "big health," and (20) the marine industry. The eight emerging technologies for future industries are: (1) synthetic biology, (2) blockchain, (3) cells and genetics, (4) aerospace, (5) brain science and brain-inspired intelligence, (6) deep earth and deep sea, (7) visible light communications and optical computing, and (8) quantum information.