

Words from the President



CASTED met the demands of 2015 when the innovation-driven development strategy was implemented and Science & Technology was regarded as the primary driving force for the new normal of economic growth. CASTED strove to improve its capacity as a support for decision-makers by conducting research on STI strategies, policies and theories, promoting international cooperation, and spending more efforts on developing disciplines and gathering talents.

Over the past year, CASTED has been active in initiating research projects on the most urgent issues of decision-making which include: innovation-driven momentum of sustainable and reliable economic growth for the new normal, national overall strategy of the 13th Five-Year Plan on STI Development, innovation-driven development strategy for China in 2030, and regional STI strategic development in China. CASTED has also continued to study the theories, policies and practice in the following aspects: the national innovation system, innovation of the senary industry, strategic emerging industries, S&T talents, S&T in poverty reduction, S&T research institute management, S&T financial ecosystem, innovation indicators, innovation investigation system, S&T and ethics, etc. Moreover, CASTED has finished an evaluation of S&T development in key areas as well as the fifth round of national technology foresight and selection of key technologies for the next 10 years.

Over the past year, CASTED has continued to strengthen international cooperation and exchange by completing the annual assignments of a Category II Center under the auspices of UNESCO and by taking advantage of the six cooperation platforms to organize policy dialogues and joint research projects in relevant fields with international organizations such as OECD, WIPO, EU and ASEAN and with other countries such as Germany, US, Japan and Korea.

Over the past year, CASTED has worked hard to improve research capacity in certain disciplines and to develop its team. Its staff has become a more integrated whole and its research priorities have been worked out, resulting in better focus on a selected number of disciplines and issues. In addition, CASTED has reformed its regulation of employment and use of incentives, especially highlighting the role of the youth and motivating the entire group of researchers.

In the year to come, which will be the start of the 13th Five-Year-Plan, CASTED is going to face more challenges since it will be time for 'innovative, coordinated, green, open and sharing' development, supply-side structural reform, and the full implementation of innovation-driven strategy. To achieve these goals, CASTED will continue to work on institutional reform, team building, capacity building, expansion of cooperation and exchange both inside and outside China, and so forth. Our members believe, with open mind and growing momentum, that CASTED will contribute to STI decision-making in China and will grow into a forward-looking professional think tank with global vision for STI development.

Hu Zhijian, President of CASTED

A handwritten signature in black ink, likely of the President, Hu Zhijian.

Table of Contents

Research Activities and Impacts 1

- S&T Innovation Strategies and Planning
- S&T Innovation Systems and Policies
- S&T and Economy
- S&T and Society
- S&T Innovation Foresight and Monitoring

Projects and Achievements 5

- Project Description
- Achievements

Cooperation and Communication 7

- Cooperation and Communication Within Chinese Mainland
- Cooperation and Communication Overseas

Staff and Expenditure 11

- Staff
- Expenditure

Memorabilia 12

S&T Innovation Strategies and Planning

The Outline of National Innovation-driven Development Strategy

Taking into account the 13th Five-Year Plan (FYP) and S&T development trends in the next decade, CASTED conducted research on the implementation of the innovation-driven development strategy by studying its overall plan, strategic goals, system development, major reforms, and policy initiatives. The research results presented by MOST to the central leadership supported the drafting of *The Outline of Innovation-Driven Development Strategy*.

The 13th Five-Year Plan on STI Development

CASTED organized research on and participated in the formulation of the 13th FYP on STI Development. It completed preliminary and overall strategic research on S&T development, proposal of STI ideas and tasks, as well as the drafting of the outline and reference version, all of which ensured the timely completion of the Plan.

Development Strategies for Three National Major Economic Areas and National STI Centers

CASTED conducted research on development strategies for three major national economic areas, namely the Belt and Road Area, Beijing-Tianjin-Hebei Region, and Yangtze River Economic Belt. The research findings provided solid support for the drafting of *STI Planning for the Belt and Road Initiative*, *Guidelines for Innovation-driven Development in Beijing-Tianjin-Hebei Region*, *Plan for Industrial Transformation and Upgrade in Yangtze River Economic Belt*, etc. CASTED also conducted research on the significance, characteristics, construction and layout of STI centers in cities including Beijing and Shanghai, the findings of which were summarized in a report titled *Basic Thoughts on Developing STI Centers*. It was submitted to the State Council and received feedback from Madam Liu Yandong, the Vice Premier of China.

S&T Innovation Systems and Policies

Law of the PRC on Promoting the Transformation of Scientific and Technological Achievements

CASTED conducted research on existing problems, especially legal issues, in the transformation of scientific and technological achievements, which resulted in reports such as *On Improving Factor Market-oriented Remuneration Mechanisms Concerning Knowledge, Technology, Management and Skills and Promoting Transformation of S&T Achievements*. By drawing insights from other parts of the world, CASTED provided a draft version of the legal text, facilitating the revision of the Law and the formulation of its related supporting regulations.

Implementation Plan for Deepening the S&T System Reform

As a think tank with extensive research experience, CASTED contributed to the deepening of S&T system reform through framework design, thematic studies, text drafting and revision which supported policy research on and drafting of *Implementation Plan for Deepening the S&T System Reform*. The issuing of the plan drew much attention from mainstream media such as CCTV News, Focus Interview, *Science and Technology Daily*, *Guangming Daily*, and Xinhua News Agency.

Development of National Innovation System

CASTED has been closely following the latest updates of national innovation systems of representative countries such as the US and Germany. It also analyzed the development of China's national innovation system in terms of the role played by enterprises in technological innovation, the cooperation between industries and academia, the system of scientific research, and the basic S&T infrastructure. CASTED formulated reports including *2014 Report on National Innovation System Development* and *Innovation Ecosystem 2014: A Policy-based Perspective*, among which a number of reports such as *Selection of Professional Project Management Institutions for Germany's Federal Ministry of Education and Research* have received feedback from leaders in MOST.

Reform of S&T Plan Management

In response to the existing problems and reform requirements of the current S&T plan management, CASTED drafted *Provision of National Key R&D Plans*, *Guidance Fund Plan for the Industrialization of Major National S&T Projects*, and *Entrustment Agreement for Managing National Major Projects in Key R&D Plans*. In addition, CASTED provided strong support by studying and designing guidance projects of technological innovation in the categorization reform of national S&T plan management. Besides, CASTED conducted research on the supervision of professional institutions that manage S&T plans, the results of which constituted *Administrative Regulations on Professional Institutions That Supervise Project Management Institutions for S&T Plans of Central Government Spending during the Reform Transition Period*, a document which laid the foundation for relevant works.

National STI Policies Textbook

CASTED provided illustration for and organized case studies on key S&T policies and measures from four perspectives: indigenous innovation and innovation-driven development, S&T reform and national innovation system, innovation talents and entrepreneurship, S&T diplomacy and international competence development. CASTED formulated a textbook that was intended for provincial and ministerial officials in seminars on innovation-driven development strategy held by the Chinese Academy of Governance.

S&T and Economy

Sustainable Growth Momentum of the National Economy

CASTED participated in a key investigation on sustainable growth momentum of China's economy initiated by the Office of the Central Leading Group on Financial and Economic Affairs. The resulting paper, *Report on Works Related to STI in Support of Stabilizing Growth, Promoting Structural Adjustment, and Improving People's Livelihood*, demonstrates the chances and challenges faced by China. It also gives suggestions on how to develop new growth momentum and how to gain advantages. The findings were submitted to the Office of the Central Leading Group on Financial and Economic Affairs and were reported to the State Council by MOST.

S&T-related Financial and Fiscal Policies

CASTED conducted research on S&T-related financial strategies which supported STI planning for the 13th FYP. The research topics include stock-based incentives, four policies in favor of high-tech enterprises in the Zhongguancun area in Beijing, R&D expenditure deduction, global exclusive licensing, taxing scheme of angel investment, accelerated depreciation, pilot policy updates and promotion of national indigenous innovation demonstration areas. CASTED participated in the drafting and revising of documents such as *Improving R&D Expenditure Deduction Policy* and *Regulation on Identifying High-tech Enterprises*, which was co-organized by Ministry of Finance, Ministry of Science and Technology and State Administration of Taxation. Such works facilitated the improvement of national S&T-related financial policies. CASTED also led the 14th National Survey of Venture Capital, a related publication of which is *China Venture Capital Development Report 2015*.

S&T-related Industrial Competitiveness

CASTED extended and improved the current research framework on industrial innovation and competition analysis by compiling *Industrial Innovation and Competition Map (Volume II)* with a focus on mobile Internet. A publication related to this domain is *High-tech Enterprise Development Report 2013*, which was intended to support the Conference of the Leading Group for the Identification and Management of National High-tech Enterprises. The report is globally unprecedented in that it covers 46 industries and 82 high-tech products. By using quantitative methods, it analyzes S&T industrial competitiveness of top 20 countries in certain industries and collects 16.4 million units of basic data. Research findings of the service industry, health industry and sports industry were incorporated into relevant documents issued by the Central Government and the State Council.

S&T Promoting Local Innovation

CASTED contributed to the 13th FYP on S&T Development at the local level by undertaking research on the planning of Lanzhou-Baiyin STI system development in Gansu Province and the planning of THE 13th FYP in Guangxi Zhuang Autonomous Region, both of which facilitated local implementation of innovation-driven strategies. CASTED conducted research on major issues including regional STI, agricultural S&T service from universities, rural entrepreneurship and e-commerce, and S&T in regional poverty reduction. CASTED also contributed to the revision of *Opinions on Promoting Development of S&T Commissioner System* and the completion of numerous thematic reports and investigation reports such as *Suggestions for the Development of Ningxia Yellow River Economic Zone* and *Perspectives on the Cancellation and Merging of County- or City-level S&T Bureaus*. Theoretical research on “innovation of senary industry” (innovation in the integrated whole of the primary, secondary, and tertiary industries) conducted by CASTED facilitated the promotion and application of research findings.

S&T and Society

S&T and Talents

CASTED has conducted research on employment autonomy of research institutes, incentive and evaluation mechanisms for S&T talents, evaluation of the soft environment for research, management of leading officials in public research institutions, and compilation of *S&T Talent Training Plans for the 13th Five-Year Plan*. Besides, CASTED drafted *Regulations for Leading Officials in Public Research Institutions* and *Special Scheme for S&T Talents*. Many research papers including “Reforming the Incentive and Evaluation Mechanisms for S&T Talents” were published by media such as *Guangming Daily* and *China Talents*.

S&T and Ethics

CASTED undertook research projects such as “Survey on Awareness of Research Ethics for Chinese S&T Researchers” which was initiated by China Association for Science and Technology (CAST). CASTED continued its collaboration with research institutions in Germany, Netherlands and India on comparative studies of S&T ethics. CASTED published a report titled *Science and Technology Governance and Ethics* which presents comparative analysis on S&T governance as well as policies and practices related to S&T ethics in China, Europe and India. The research was regarded by the EU as a successful example of international cooperative projects.

S&T and Disasters

Entrusted by the Ford Foundation, CASTED continued its cooperation with the RAND corporation on a research program named “Improving Social Participation in Disaster Management in China”. CASTED also conducted a research named “Implementation evaluation and future needs appraisal of Baidu’s Digital Cube Project in Earthquake-stricken Ludian, Yunnan Province”, the findings of which were published in *Disaster Reduction in China* and *Thinking*.

S&T Innovation Foresight and Monitoring

The Fifth Round of National Survey on Technology Foresight

CASTED worked with over 30,000 experts to analyze China's national level of technological development on three levels: in the whole country, in certain fields, and in terms of key technologies (systems). Based on gap evaluations of Chinese and international development of 1,346 technologies, the researchers found that different technologies in China may be following up, equal to, or leading ahead its international counterparts, but the majority is not yet up to international standards. Such conclusion was incorporated into a document of the central government. The analysis covered 2,087 technologies, among which 280 were selected as key technologies in certain fields, 100 as key technologies on a national level, 10 as disruptive technologies, and 10 as non-consensus technologies. CASTED contributed to 14 volumes of *The Series of Chinese and Foreign Technological Competition* and other publications including *Selected Documents of World Technology Foresight* and *Selected Documents of S&T Planning and Plans in China*.

Monitoring and Analysis of Scientific and Economic Trends

CASTED conducted research on S&T and economic trend analysis, which resulted in four quarterly reports titled *Analysis and Monitoring of High-tech Enterprise Prosperity*. This provided a comprehensive and reliable monitoring and analysis of the performance of high-tech enterprises in China. CASTED also contributed to the development of a Purchasing Managers Index that reflects the performance of strategic emerging industries (EPMI), a type of statistics never provided before by Chinese scholars. The research findings were regularly published in *Economic Daily* and attracted much attention from relevant government departments and media.

S&T Indicators and Statistics

CASTED took part in research on indicators for the 13th FYP of the National Economic and Social Development. CASTED wrote a number of reports such as *Materials Concerning Indicators that Reflect the Progress of Developing an Innovative Country during the time of the 13th Five-Year-Plan*, the main arguments of which were adopted in the text of 13th FYP on S&T Development. CASTED also conducted research on the development of targets and indicators of the 13th FYP on S&T Development. CASTED proposed 12 ST indicators for the given five years and set targets for the period of time from then to 2020. Five of the indicators (including the number of PCT patent application) proposed by CASTED were adopted for the first time. CASTED compiled a number of thematic reports by analyzing the contribution rate of national and local S&T progress, the indicators of transformation of scientific and technological achievements, and the indicators related to patent. The yearly S&T statistics resulted in a publication titled *China's S&T Indicators 2014* (S&T Yellow Book No. 12). By working with the National Statistics Bureau, CASTED also contributed to the drafting and publishing of *China's S&T Statistics Yearbook 2015*, *China's High-tech Industries Statistics Yearbook 2015* and *S&T Input Statistics Communiqué*.

Innovation Evaluation and Investigation

CASTED conducted research on national innovation index. By evaluating the innovation capacity of 40 countries, the achievement of targets in the 12th Five-Year Plan on S&T Development, and the ranking of China in terms of international innovation indexes, CASTED compiled *National Innovation Index Report 2014* (in Chinese and English) which received global attention. CASTED also coordinated the compilation of *China's S&T Development Report 2014*. CASTED conducted research on STI investigation system, the work of which was standardized with the publication of *Work Plan for National Innovation Investigation System*. Moreover, CASTED also organized and participated in the drafting of serial reports on monitoring and evaluating innovation capacity such as *Monitoring Data of Regional Innovation Capacity 2014*, *Innovation Monitoring Report for Key National S&T Parks 2014* and *Evaluation Report on China's Regional Innovation Capacity 2015*.

Project Description

In 2015, a total of 60 research projects were initiated, of which 35 were assigned by MOST and other ministries, 22 by local governments, and 3 by enterprises or other sources.

Representative Projects

No.	Project	Source
1	Study on Top-Level Design of Innovation-driven Development Strategy	MOST
2	Mid-term Evaluation of <i>The Outline of Program for Mid- and Long-Term Scientific and Technological Development(2006-2020)</i> : Analysis of Potential Problems and Challenges in the Implementation of the Outline	MOST
3	Study on Special Planning of International S&T Cooperation Program (ISTCP) for Promoting the Belt and Road Initiative	MOST
4	Frameworks and Key Directions of STI Policy System	MOST
5	Study on Supporting Systems of <i>Law on Promoting the Transformation of Scientific and Technological Achievements</i>	MOST
6	Policy Study on Reform of Classification of Research Institutes	MOST
7	Study on Methods of National Key Technology Selection and Technology Foresight	MOST
8	Study on Prospects of High-end Manufacturing Technology in China	MOST
9	Study on S&T Competitiveness and Development Potential of Key Industries in China	MOST
10	Thoughts and Measures of Strategic High-tech Development in the Transforming Stage from Following up to Leading ahead	MOST
11	Study on Models and Policies of Government Procurement of S&T Public Services	MOST
12	Study on R&D Organization Models of Major Special S&T Projects	MOST
13	Strategies and Measures of All-round Opening up of S&T in China	MOST
14	Study on Municipal Innovation Resource Distribution and Regional S&T Development Strategies in China	MOST
15	Study on Ethical Issues and Management in S&T Research	MOST
16	Study on Finance and Taxation Policies of S&T Service Industries	MOST
17	Research and Application of Key S&T Indicators	MOST
18	Study on Sharing Mechanism and Practices of International Cooperation on Large-scale Research Infrastructure	MOST
19	Study on International Comparative Study on Policies and Practices of Technology Transfer	MOST
20	Study on Sino-German STI Cooperation	MOST
21	Study on Sino-European STI Cooperation	MOST
22	Study on Issues of S&T Financial Investment in the Implementation of Innovation-Driven Strategy	MOF
23	Study on Impacts of Foreign-Investment R&D Centers on Introducing Technologies and Improving Efficiency of Foreign Investment in China	MofCOM
24	Study on Public Images of S&T Employees	CAST
25	Study on Responsibilities and Organization Management of Public Professional Institutions: Taking Foreign Science Foundations as Examples	National Natural Science Foundation
26	Study on S&T Collaborative Innovation Strategies in Beijing-Tianjin-Hebei Region	Beijing Municipal Science & Technology Commission, Beijing Association for Science and Technology
27	Study on Development Strategies of Lanzhou-Baiyin Pilot Reform Zone for S&T Innovation	Gansu Provincial Sci. & Tech. Department
28	Study on Overall Study on National STI Governance Systems of Shanghai	The Development Research Center of Shanghai Municipal People's Government
29	Study on Institutional Reform and Top-Down Design of Policy Innovation for Zhongguancun for the 13 th FYP	Zhongguancun National Innovation Demonstration Zone
30	Study on Policies in the Pearl River Delta of National Indigenous Innovation Demonstration Zones	Guangzhou Science Technology and Innovation Commission

Achievements

Internal References

Initially published in January, 2015, *Reference for Strategic Research* focuses on major strategic, hot, challenging and forward-looking topics of STI. As an internal reference material, this journal is specially written for leaders in MOST. By the end of December, 2015, 135 instructions and comments from the central government and ministry leaders have been given to over 30 articles including “New Normal: China Stepping into the Great Era of Innovation Transcendence”, “Planning for Time: An Important Asymmetric Transcendence Model”, “Chinese Economic Growth Driven by Forces other than Employment: Increase Calls for S&T Innovation”, “CASTED Issues the First PMI of Chinese Strategic Emerging Industry”, “Personnel and Budget System Design as Key to Reform on Professional Institution”, and “Views on Dismantlement and Merging of County/City-level S&T Bureau”.

Annual Reports

Annual reports published by CASTED include *China Science and Technology Development Report 2014*, *China National Innovation Index Report 2014*, *China Science and Technology Indicators 2014*, *Evaluation Report of Regional Innovation Capability of China 2015*, *Venture Capital Development in China 2015*, *Annual Review and Preview of S&T Finance Ecology in China 2015*, *Innovative Ecology 2014: the Policy Perspective*, *China Innovative Enterprises Development Report 2013-2014*, *High-tech Enterprises Development Report 2013*, *Industrial Innovation and Competition Map (Volume II)*, *Research Report of Chinese and Overseas Technical Competition (2013)*, *Pujiang Innovation Forum Achievements 2015*, etc.

Academic Publications

Academic publications of CASTED include *Key Policies and Measures of the National Science and Technology Innovation*, *Theories and Practices of Innovative Enterprise Evaluation*, *OECD Science, Technology and Industry Scoreboard 2013* (Chinese translation), *Science and Technology Governance and Ethics* (in English), *Thoughts on the Public Governance of Science and Technology in China*, *A Status Survey on Technology Innovation of Enterprises in China: Characteristics, Tendencies and Measures*, *Chinese Science and Technology Personnel's Views on Academic Misconduct: A Survey Report*, *Business Model Innovation in the Strategic Emerging Industry Development*, *Innovations at Home and Abroad in Approaches to Support Science and Technology Programs: From Allocation to Coordination*, *Description and Thoughts on the Development of Venture Capital in China*, *Trends and Measures of International Industrial Transfer*, etc.

<i>Reference for Strategic Research</i>	100 issues
<i>Survey Reports</i>	53 issues
<i>Science and Technology Policy Reference</i>	36 issues
<i>Industrial Innovation Dynamics</i>	50 issues
<i>China S&T Finance</i>	12 issues



25 monographs (or translations)

131 journal articles

45 conference papers

Cooperation and Communication Within Chinese Mainland

Relying on its current cooperation network, CASTED conducted academic exchanges and joint research projects at various levels and in various ways.



President Hu Zhijian giving keynote speechAcademic lecture
on the policy forum of Pujiang Innovation Forum 2015



Academic lecture

※CASTED conducted joint research at various levels. Among the projects initiated in 2015, 8 were undertaken jointly with other ministries. Local institutes entrusted CASTED with 22 projects and participated in 16 of them.

※CASTED held feasibility research conferences and seminars to gather advice from experts. It provided consultation service on S&T development for over 120 times for such provinces (cities) as Gansu province, Zhejiang province and Mianyang city.

※CASTED accepted more than 10 visiting scholars from partner institutions, with an intention to co-cultivate talents in S&T strategy and policy research.

※CASTED participated as an organizer in Pujiang Innovation Forum by designing and selecting the theme for the 2016 forum—Double Engines: Technological and Institutional Innovations—and organizing the policy and culture forums in 2015. CASTED also participated in holding The Third Zhejiang Qingshanhu Science and Technology Innovation Forum, which built a platform for academic exchange, discussion and cooperation.

※CASTED received over 100 visits and field studies from local institutions.

※CASTED invited experts from universities and related organizations in China to give lectures for over 20 times.

※CASTED established the National Institute of Senary Industry Development, aiming to build a platform that promotes the integration of primary, secondary and tertiary industries and the development of the senary industry.



The establishment of National Institute of The Senary Industry Development



Seminar on building STI system in Lanzhou-Baiyin Area, Gansu Province

Through its three national associations, CASTED developed training and exchange at various levels.

Taking advantage of the three national associations, i.e. China Federation of Scientific and Technological Institutes, China Society for Science and Technology Indicators and China Association for Promotion of Science & Technology and Finance, CASTED offered open training on S&T planning, S&T statistics, S&T finance, etc. It also promoted exchanges and discussions on S&T innovation policy, innovation and entrepreneurship, etc.

China Federation of Scientific and Technological Institutes:

◆ From January to June, the Federation hosted three workshops, including Workshop on Innovation Methods, Workshop on S&T Development Planning, and Workshop on Intellectual Property and Operating Methods.

◆ In August, the Federation held the Symposium on the Reform and Development of Research Institutes. About 80 delegates from 13 provinces (or municipalities) attended the meeting.

◆ In November, the Federation held the 14th Seminar on S&T Development and Reform. About 120 delegates from 80 institutions attended the meeting.



Seminar on the Reform and Development of Research Institutes



Training courses on S&T statistics

China Society for Science and Technology Indicators:

◆ In May, the Society offered basic training courses on S&T statistics for 206 trainees.

◆ In June, it also offered special training courses on S&T statistics for 194 trainees.

◆ In June, it coordinated experts to compile two documents: *The Theory and Practice of S&T Statistics* which was intended as textbook on S&T statistics and *Ten Questions about Surveys of Innovation* which was intended for public reading.

China Association for Promotion of Science & Technology and Finance:

◆ From February to June, the Association held a series of activities such as "Maker cultivation" and "Maker Salon".

◆ In October, the Association presented on the S&T Finance Summit of Pujiang Innovation Forum a report titled *Annual Review of S&T Financial Ecology (2015)*, which was the first annual observation on the condition of S&T finance in China from the viewpoint of *S&T Financial Ecology*.

◆ In December, the Association hosted an annual meeting with the theme of "*S&T Financial Ecology under Double Engines*". The meeting was attended by around 200 participants including officials from government departments and related institutions, experts from various industries, and elites and representatives from mainstream media.

◆ The Association participated in organizing 2015 Sino-French Exchange on Financial Information Technology and Service and exchanged ideas with experts from the World Bank.



Presenting Annual Review of Technological and Financial Ecology (2015)

Cooperation and Communication Overseas

CASTED gave full play to its “1+6” international cooperation platform and developed international cooperation and communication at different levels.

One Center:

International Research and Training Center for Science and Technology Strategy (CISTRAT)
Under the auspices of UNESCO

◆ International Research and Training Center for Science and Technology Strategy (CISTRAT) held its fourth international training program titled “Science, Technology, and Innovation Policy Research and Method: Improving National S&T Innovation Evaluation Capacity”. 15 foreign participants from 7 countries (Argentina, Cuba, Ethiopia, Ghana, Iran, Malaysia, and Panama) and 6 Chinese participants from provincial S&T departments attended the training program.

◆ CISTRAT organized the third meeting of the first council of Category II Centers and an international seminar named “The Innovation and Transformation of Developing Economies under the Background of Globalization”.

◆ CISTRAT participated in the inauguration ceremony and the first meeting of the League of UNESCO Category II Centers.

Six Platforms:

China-EU Innovation Cooperation Dialogue Sino-German Innovation Policy Platform
Liaison Office of China-OECD STI Cooperation
China-Japan-Korea S&T Innovation Policy Research and Cooperation Platform
China-US non-governmental Dialogue on STI China-ASEAN S&T Policy Research Center

China-EU Innovation Cooperation Dialogue

As the leading unit of Chinese experts, CASTED organized meetings such as “China-EU S&T Innovation Forum” to strengthen communication and cooperation.

Sino-German Innovation Policy Platform (Deutsch-Chinesische Plattform Innovation)

As the leading unit of Chinese expert group, the platform organized meetings such as “Sino-German Innovation Platform: Forum of Chinese Experts” and “Sino-German Innovation Platform: Symposium of Chinese and German Experts” to promote communication, discussion and cooperation.

Liaison Office of China-OECD STI Cooperation

The Liaison Office constantly developed its communication and cooperation with OECD. It published *Country Report on Inclusive Innovation: China and Inclusive Innovation of China* and translated *Handbook on Deriving Capital Measures of Intellectual Property Products*. Moreover, the Liaison Office was authorized to publish the 7th edition of Frascati Manual (Chinese translation).

China-Japan-Korea S&T Innovation Policy Research and Cooperation Platform

CASTED attended The 10th China-Japan-Korea S&T Policy Seminar and founded Asian S&T Innovation Think Tank Network (ASTN) with 13 other Asian countries.

China-US Non-Governmental Dialogue on Science, Technology and Innovation

As a member of expert group, CASTED worked jointly with US experts in the framework of China-US Innovation Dialogue on research projects including “Research on China-US S&T Innovation Policy: Management and Operation Patterns of Administrative and Research Institutions” and “Research on Chinese Public Participation Capability in Disasters”.

China-ASEAN S&T Policy Research Center

Together with Thailand National Office of S&T and Innovation Policy, the center organized Sino-Thailand Innovation Cooperation Seminar and hosted the 2nd China-ASEAN S&T Innovation Policy Seminar. In Thailand, the center hosted Sino-Thailand Workshop on Innovation and Sino-Thailand S&T Joint Projects Seminar.

2015 Cooperation and Communication

CASTED constantly improved its internationalization level of strategic research in a variety of forms.

CASTED undertook one project with UNDP and one with Ford Foundation. It worked together with experts from the World Intellectual Property Organization (WIPO), RAND Corporation and Korea on 10 joint research projects.

CASTED invited experts from universities and related organizations abroad to give lectures for over 10 times.

CASTED sent 38 persons to the United States, Germany, Switzerland, Belgium and other countries for 19 times. CASTED received more than 100 visitors from international organizations such as UN Women, the World Bank and European Union as well as delegation from countries such as the United States, France, India, Brazil and Japan for 20 times.



The fourth international training workshop of CISTRAT



China-EU communication

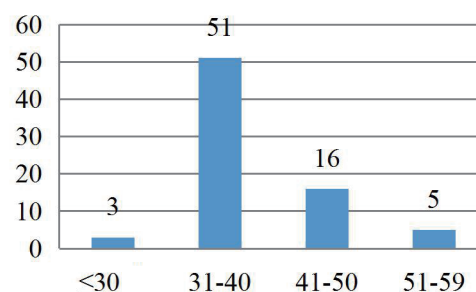


Sino-Indian communication

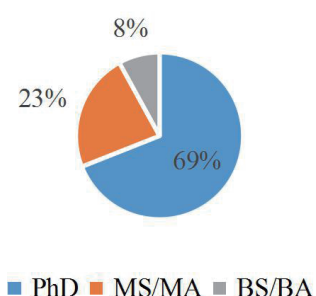
Staff

By the end of 2015, CASTED has 93 full-time staff members and 5 postdoctoral researchers. 75 out of the 93 full-time staff members are researchers, among whom 69 have master's degrees, 52 have doctoral degrees, and 60 have senior professional titles. 2 researchers were selected as candidates of China's "New Century Talents Project" and 7 were granted special allowances by the State Council.

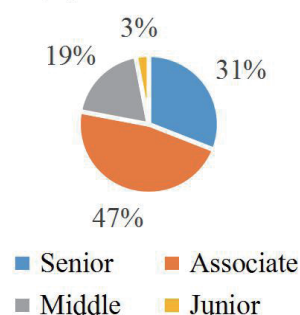
Researchers grouped by age



Researchers grouped by education



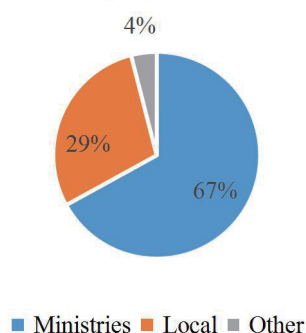
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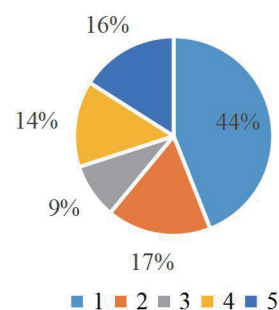
Expenditure

In 2015, CASTED initialized 60 research projects. The total amount of contract expenditure reached 20.96 million RMB. The projects were assigned by ministries, local government departments and enterprises. The projects could be divided into 5 groups according to their research domains: (1) S&T Innovation strategy and plan, (2) S&T Innovation system and policy, (3) S&T and economy, (4) S&T and society, and (5) S&T Innovation foresight and monitoring.

Sources of research projects



Domains of research projects



January

On January 14th, *Reference for Strategic Research* was launched. It focuses on critical strategic issues as well as hot and thorny issues of innovation so as to meet the consultancy requirements of MOST with higher efficiency.

On January 15th, CASTED participated in the preliminary research and mid-term seminar on the 13th Five-Year Plan on STI Development. CASTED also made reports on works related to S&T input and S&T finance for the 13th FYP.

February

On February 14th, CASTED finished compiling *Development of New and High-tech Enterprises Report 2013* and entrusted it to Scientific and Technical Documentation Press for publication.

In February, CASTED also finished an overall strategic research on the 13th FYP on STI Development, which provided strong support to the formulation of the overall STI development plan.

March

On March 1st, CASTED and Zhongcai Consulting jointly published China's Strategic Emerging Industries Purchasing Managers' Index (EPMI) which was the first systematic data analysis report on the prosperity of China's strategic emerging industries.

As was assigned by the Central Leading Group on Financial and Economic Affairs, CASTED completed research on major tasks and directions of innovation-driven development strategy for the 13th FYP. The resulting report was submitted to the Group by MOST.

April

On April 1st, CASTED participated in the Inauguration Ceremony of the League of UNESCO Category II Centers and its 1st Meeting which were held in Beijing by Commission of the People's Republic of China for UNESCO.

In April, CASTED finished the fifth round of National Survey on Technology Foresight, providing predicative analysis on 2,087 technologies in 14 fields, such as information, biology and new materials, etc.

May

On May 14th, CASTED organized Silk Road Economic Belt and the 21st century Maritime Silk Road, an S&T seminar where suggestions like strengthening strategy research and deepening S&T cooperation with countries along the economic corridors were proposed.

On May 29th, CASTED participated in City Innovation, a symposium hosted by MOST, on which Vice president Wu Yishan made a special report.

In May, CASTED completed a study on and submitted a report on "STI Elements in the Rejuvenation of China", as was assigned by the Central Leading Group on Financial and Economic Affairs.

June

On June 26th, Research Center of Innovation Talent was founded and Ms. Fan Lihong was appointed as the director. The center serves as an interdisciplinary platform for innovation talent research based on Institute of Science, Technology and Society of CASTED.

From June 26th to 27th, CASTED organized “International S&T Cooperation Symposium on the Belt and Road Initiative”, which invited delegates from 20 research institutions such as Development Research Center of the State Council and 21 provincial S&T departments.

In June, CASTED completed *Plans for S&T Innovation for Beijing-Tianjin-Hebei Collaborative Development*, and drafted *Guidelines for Innovation-driven Development in Beijing-Tianjin-Hebei Region*. The *Guidelines* has been approved by the Leading Group of Beijing-Tianjin-Hebei Collaborative Development and has been published by Ministry of Science and Technology and National Development and Reform Commission.

President Hu Zhijian, Executive President Lin Xin, Vice President Wang Fenyue and major researchers of each institute in CASTED finished the research and drafting of *Implementation Plan for Deepening S&T System Reform*.

In this month, CASTED drafted the report *Concrete Measures by Ministry of Science and Technology in Support of Building Shanghai S&T Innovation Center*, which became a major report on the consultation meeting between Ministry of Science and Technology and Shanghai Municipal Government.

July

From June 29th to July 2nd, President Hu Zhijian and several researchers in CASTED attended the 2nd Sino-Europe Innovation Cooperation Dialogue, which was hosted by Minister Wan Gang and Mr. Moedas from Europe Union. CASTED provided experts and research support on innovation policy.

On July 8th, CASTED organized the press conference for *National S&T Development Report 2014*. Vice president Wu Yishan made the introduction and answered journalists’ questions on behalf of the research group.

On July 10th, 35 members from “EU officials Study Visits to China” visited CASTED. President Hu Zhijian made a keynote speech: S&T Innovation Development, Strategy and Policy in China.

In July, CASTED finished reports on macro economy dynamics and S&T condition of the first half year. These findings were submitted to Ministry of Science and Technology and reported to the State Council.

August

On August 13th, International S&T Cooperation Symposium on the Belt and Road Initiative undertaken by CASTED was approved by the expert group consisting of 7 academicians in professional domains and 2 experts with comprehensive experience.

September

In September, CASTED organized and completed key technologies selection that covers 14 domains such as information, biology and new materials, etc. 280 key thematic technologies were selected.

In this month, CASTED also participated in and completed the interpretation of *Law of the PRC on Promoting the Transformation of Scientific and Technological Achievements*.

October

On October 1st, CASTED published *Inclusive Innovation of China* and formulated *Report on National Innovation System Development 2014*.

On October 19th, CASTED finished compiling *Handbook of National S&T Innovation Policy* assigned by Chinese Academy of Governance.

On October 19th, the International Research and Training Centre for Science and Technology Strategy (CISTRAT) of CASTED started the 4th international training program: Science, Technology, and Innovation Policy Research and Method: Improving National S&T Innovation Evaluation Capacity.

From October 27th to 28th, CASTED participated as one of the organizers in Pujiang Innovation Forum 2015. CASTED hosted the policy forum titled "Formulating Open and Inclusive Innovation Policy" and the culture forum titled "Maker and Social Innovation".

In October, CASTED published *Annual Observations on S&T Financial Ecology in China 2015*.

On October 31st, CASTED held the 5th Technology Foresight Workshop on the Selection of National Key Technologies. 100 national key technologies were selected.

In October, CASTED worked with strategic research institutes in Zhejiang province and Jiangsu province to co-found Research Alliance of Industrial Innovation and Competition.

CASTED and WIPO exchanged views on "International Comparative Studies of Technology Transfer", reaching an agreement on ideas and plans of joint research.

November

On November 3rd, CASTED submitted a report titled "The International Practice of taxing scheme of angel investment and Suggestions on its Implementation in China", which provided support for Ministry of Finance on formulating laws and regulations related to the taxing scheme of angel investment.

From November 17th to 19th, President Hu Zhijian, Vice President Yang Qiquan and several other staff members went to Guiyang city to conduct field study on big data industry. The two sides agreed to develop joint research around the innovative experimental area of Guiyang big data industry.

From November 23th to 24th, CASTED organized "Experts Symposium of Sino-German Innovation Platform". President Hu Zhijian and several other experts attended the meeting. Discussions focused on the major topics of Sino-German innovation policy platform and the preparation for Sino-German Innovation Forum.

December

On December 1st, *China Science and Technology Indicators 2014* was officially published. 12 consecutive issues of this report has been published since its beginning in the early 1990s under the name of MOST.

From November 30th to December 3rd, CASTED organized Workshop on Developing Innovative City as one of the 2015 S&T management training projects of MOST.

On December 7th, the founding ceremony of National Institute of Senary Industry Development was held in CASTED, where articles of the institute were discussed and approved.

On December 16th, CASTED and OECD signed the agreement on publishing the 7th edition of *Frascati Manual* (Chinese translation).

On December 19th, CASTED, Tsinghua University and Nankai University co-initiated Scientific Sociology Commission of Chinese Sociological Association.