



# ***Chinese Academy of Science and Technology for Development***

# **2019**

**International Research and Training Centre  
for Science and Technology Strategy  
under the Auspices of UNESCO**



United Nations  
Educational, Scientific and  
Cultural Organization



International Research and Training Center  
for Science and Technology Strategy  
under the Auspices of UNESCO

In 1982, the National Research Center for Science and Technology for Development (NRCSTD) was established, with the autograph of Mr. Deng Xiaoping.

In 2007, the Chinese Academy of Science and Technology for Development (CASTED) was established on the basis of the NRCSTD.

In 2017, CASTED was designated for incubation as a national top think tank.

In 2020, CASTED joined the China Top Think Tanks pilot program.

# 中国科技促进发展 研究中心

陈小平

## Chinese Academy of Science and Technology for Development



Chinese Academy of Science and Technology for Development (CASTED), a public institution affiliated to the Ministry of Science and Technology (MOST) is committed to providing strategic insights and decision-making consultations for China's science, technology and innovation (STI) development. It was inaugurated in 2007 on the basis of the former National Research Center for Science and Technology for Development (NRCSTD) established in 1982.

CASTED has eight research institutes, namely, Institute of Comprehensive Development, Institute of Science and Technology Systems and Management, Institute of Foresight and Evaluation, Institute of Science and Technology Statistics and Analysis, Institute of Science and Technology Investment, Institute of Science and Technology for Industrial Development, Institute of Rural

and Regional Development, and Institute of Science, Technology and Society, as well as three administrative departments, including Party Committee Office, General Office, and Research Management Office. It sponsors three national organizations, 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. It publishes two journals, i.e. *Forum on Science and Technology in China* and *China SciTechnology Business* and runs a post-doctoral workstation. CASTED hosts various international cooperation platforms, including the China-EU Dialogue on Innovation Cooperation and the China-Germany Innovation Policy Platform.

CASTED has always oriented itself towards the needs of national development in a pioneering and pragmatic way for nearly four decades and has become a major research base on China's STI strategy and policy. Looking forward, it is committed to building a specialized international top think tank that provides high-quality research for China's key STI policymaking.

## International Research and Training Centre for Science and Technology Strategy (CISTRAT) under the Auspices of UNESCO



The International Research and Training Centre for Science and Technology Strategy (CISTRAT) under the auspices of UNESCO is the first category 2 center of UNESCO to focus on research and training for S&T policy and innovation strategy, and also the only category 2 center of S&T strategy and policy in China. Since its inauguration in September 2012, CISTRAT, hosted by CASTED, has shared China's experience with developing countries in extensive areas including sustainable development, S&T strategy, and S&T for poverty reduction through research collaboration and training activities geared to improving S&T strategy research and management. It provides free training in STI strategy and policy each year for developing countries and underdeveloped regions.



( President of CASTED )

The year 2019 saw new breakthroughs made on the frontier of science and technology, but hardly a decrease in the challenges facing humanity. The global situation became more complex with ups and downs amidst dramatic changes in international political and economic order. In the face of profound shifts unseen in a century, we kept our mission in heart and pressed forward with the whole world in mind.

We focused on major trends of science and technology in order to supporting high-level policymaking. With Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era as guide, we followed the guidelines of the 19th CPC National Congress, and the second, third and fourth plenums of the 19th CPC Central Committee(CCCPC). By remaining true to our original aspiration and keeping our mission firmly in mind, we carried out in-depth research on STI strategy. In line

## President's Address

with General Secretary Xi Jinping's important remarks and instructions on STI, we carried out research on key subjects including the National Program for Long- and Medium-Term Scientific and Technological Development (2021-2035), period of major change unseen in a century, China's scientific and technological development in the past 70 years, and sustainable development to support the implementation of new development concepts. We participated in the sixth round of national technology forecasting, and carried out research on artificial intelligence, blockchain, science and technology governance and ethics, and regional innovation. We provided effective support for the formulation of major policies made by the Leading Party Members' Group of the Ministry of Science and Technology (MOST).

We strengthened international cooperation in service of China's diplomatic strategy. We proactively participated in high-level diplomatic and international events including the Global Governance Forum co-hosted by China and France, China-EU Dialogue on Innovation Cooperation, Belt and Road Forum for International Cooperation, Conference on Dialogue of Asian Civilizations, and Summer Davos. We convened the first Symposium of Chinese and U.S. Think Tanks for Science and Technology, initiated and advanced the Belt and Road Network of Science and Technology Think Tanks, participated in China-CEE, China-ASEAN, and other multilateral cooperation mechanisms, and deepened cooperation with international organizations such as UNESCO, OECD, UNCTAD, EU, WIPO, and World Bank to build a community of shared future for humankind. We worked with top international think tanks for research collaborations and joint academic symposiums, which promoted mutual learning and benefit regarding science and technology strategies and policies of different countries.

We built capacity internally and developed partnership externally to achieve further growth as a think tank. We established CASTED Council of China Top Think Tanks and CASTED Academic Committee, formulated CASTED Plan of China Top Think Tank Development (2020-2022), and put in place an incentive mechanism encouraging top research, bringing about a new momentum of think tank development. We held academic events including the first meeting of the Joint Committee of National Science and Technology Think Tanks and the 14th China Science and Technology Forum, through which we strengthened cooperation with other science and technology think tanks, shared research results, and jointly provided advices for the development of key regions, showing a joint development among domestic think tanks.

In 2020, CASTED has officially joined the China Top Think Tanks pilot program, which is encouraging and also represents a weighty responsibility for us. We will, in line with the instructions of General Secretary Xi Jinping and the CCCPC on building top think tanks, continue to open up and deepen cooperation with domestic and foreign think tanks .



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# 1.1 Focusing on Frontier Theory and Strategy

## Research on General Secretary Xi Jinping's Important Remarks on STI Development

CASTED collected and studied important remarks made by General Secretary Xi Jinping on STI and anthologized them in *Important Statements of General Secretary Xi Jinping on STI* (December 2015 – January 2019); it took part in the compilation of *In-depth Study of Important Statements of General Secretary Xi Jinping on STI*; and it provided research materials for the *Study and Digestion of Important Statements of General Secretary Xi Jinping on STI: Key Thematic Research Report on Science and Technology Work in 2019*.

## Research on the National Program for Long- and Medium-Term Scientific and Technological Development (2021–2035)

CASTED took the lead in thematic research on subjects such as the overall framework, key goals and indicators of China's long- and medium-term scientific and technological development before 2035, S&T system reform and national innovation system development, as well as laws, regulations and policies of S&T. It participated in thematic research on strategy about investment and management of S&T funds, strategy of regional STI, and the system of pooling resources to undertake major national initiatives. It accomplished research reports for the second phase and a number of thematic research reports.

## Research on the Sixth Round of National Technology Forecasting

CASTED carried out research on the sixth round of national technology forecasting with the focus on 16 priority areas, covering selection of technologies to be assessed, trends of technological development, and strategic technologies. It completed the research on assessment of domestic and foreign technological competition and produced 18 research reports on domestic and foreign technological competition.

## Research on Artificial Intelligence

CASTED Supported the implementation of China's *Next Generation Artificial Intelligence Development Plan*, completed the *Annual Report on the New-Generation of Artificial Intelligence Development in China 2019*; and carried out related research including "Major Issues of Legislation on Artificial Intelligence Security", "Evaluation of China's Global Competitiveness in Artificial Intelligence and Development Strategy", and "Development Trends of Artificial Intelligence and Its Impact on Technological Security".

## International Situation Assessment and Research

CASTED carried out strategic forward-looking research on China's international relations in S&T and produced thematic reports submitted to CCCPC, the State Council and the Leading Party Members' Group of MOST as decision-making reference.



## 1.2 Centering on Key National Policies

### Research on the Establishment of an Agricultural Technology Social Service System

CASTED carried out research and provided support for the drafting of *Several Opinions on Strengthening the Development of the Agricultural Technology Social Service System* submitted to the Central Committee for Comprehensively Deepening Reform for review.

### Research on Research Ethics

CASTED carried out research projects, namely, “Research on Ethical Issues in Emerging Fields of Science and Technology” “Research on Ethical Perception and Attitude of Chinese Medical Researchers” and “Survey on Research Ethics Awareness of Science and Technology Workers” and produced corresponding research reports.

### Research on Policy Tools for Innovation-Driven Development of Technology SMEs

CASTED carried out research on enterprise innovation policy, especially innovation policy for SMEs, and provided support for the adjustment of guidance funds for technological innovation and the drafting of related policy documents.



## 1.1 Focusing on Frontier Theory and Strategy

### Research on China's Scientific and Technological Development in the Past 70 Years

CASTED carried out research and published *China's Scientific and Technological Development in the Past 70 Years*, a key book marking the celebration of the 70th anniversary of the People's Republic of China, which was listed in the “Key Thematic Publications in 2019”.

### Research on National Innovation Survey

CASTED completed a series of reports which received wide public attention, including *National Innovation Index Report 2019*, *Monitoring Report on Innovation Capacity of Chinese Regions 2019*, *Assessment Report on Technological Innovation in Chinese Regions 2019*, *Evaluation Report on Innovation in China's Enterprises 2019*, and *Monitoring Report on Innovation Capacity of China's Research Institutions 2019*.

### Research on S&T Talent

CASTED carried out research projects on S&T talent including "Plan for Integration of Talent, Projects and Bases of Science and Technology" and "Talent Exchange, Competition and Cooperation between China and U.S. Science and Technology Sectors". It also supported MOST in policy-making. The policies include giving incentives to officials to address mistakes and live up to their responsibilities, quantitative performance evaluation of officials stationed abroad, and performance evaluation of main leaders of public institutions.

### Research on Financial Technology

CASTED produced research reports including *Improve Financial Technology Governance System to Prevent and Defuse Financial Risks, Make Full Use of Financial Technology to Prevent and Defuse Financial Risks, and Seize the Window Period to Accelerate Blockchain Development*, providing support for the formulation of China's blockchain development plan.

### Research on Science and Technology Finance

CASTED carried out research on S&T policies regarding investment, funding and taxation, supporting the General Office of the State Council, Ministry of Finance (MOF), and MOST to make policies and formulate documents, including *Plan for the Reform of the Division of Fiscal Powers and Expenditure Responsibilities between the Central Government and Local Governments in the Field of Science and Technology*, *Measures for the Regulation of Subsidies for Government-Supported Science and Technology Plans (Projects, Funds, etc.)*, and *Measures for Supporting Technology SMEs to Accelerate Innovation-Driven Development in the New Era*.

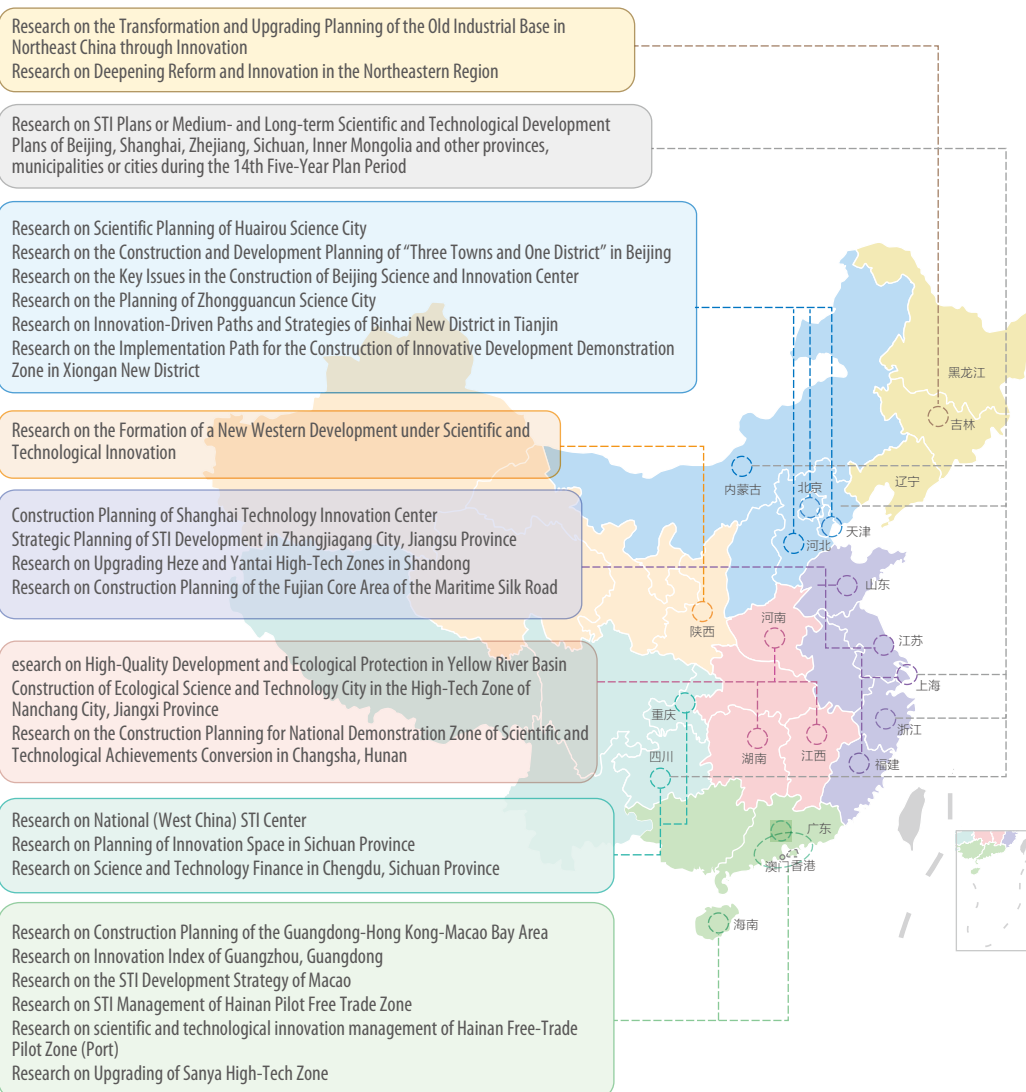


## 1.3 Supporting Development and Reform in Relevant Areas

- CASTED participated in the CPPCC thematic research on innovation-driven development and completed research reports including *Report for the CPPCC Thematic Consultation on Innovation-Driven Development and Combine Measures to Continuously Drive High-Quality Manufacturing Development*;
- CASTED, entrusted by the International Liaison Department of CCCPC, carried out research on “BRICS Partnership in the New Industrial Revolution: From the Perspective of STI”;
- CASTED, under the invitation of the National Development and Reform Commission, participated in the drafting of multiple normative documents including the *Implementation Opinions on Deepening the Integrated Development of Advanced Manufacturing and Modern Service Industries*;
- CASTED, in accordance with the arrangements of the S&T statistics project of the National Bureau of Statistics(NBS), organized the 18th national survey of venture capital, and drafted and published the *China Venture Capital Development Report 2019*;
- CASTED, commissioned by the National Intellectual Property Administration(NIPA) carried out research on China’s financial service system and policies of intellectual property rights;
- CASTED, entrusted by the National Natural Science Foundation of China (NNSFC), carried out research on the disciplinary structure of China’s basic research workforce, Chinese researchers’ attitude and needs concerning open science, and did a survey on the research ethics awareness of Chinese researchers.

## 1.4 Serving Innovation Planning in Key Regions

CASTED provided decision support for promoting innovation-driven development in several key regions



# 2.1

## Research Projects

In 2019, CASTED commenced 87 research projects commissioned by the Council of China Top Think Tanks, MOST and other ministries, local governments, domestic and foreign research institutions, and enterprises.

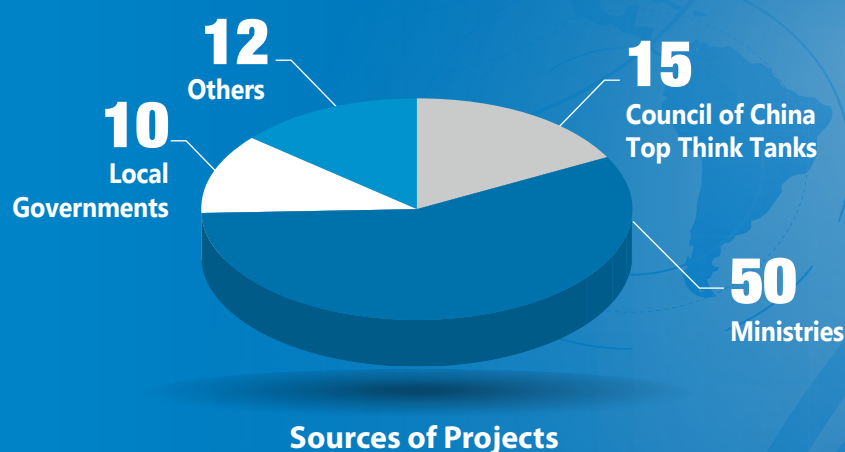
The projects can be divided into five areas according to the field of research——



No.	Project Name	Project Leader	Source
1	China Becoming an Innovative Nation in the New Era: Prospect and Challenges Revealed by Key Indicators	Xuan Zhaohui	Council of China Top Think Tanks
2	Monitoring and Evaluation of China's Progress Towards an Innovative Nation	Xuan Zhaohui	Council of China Top Think Tanks
3	China's Human Resources Security in Key Fields of Science and Technology in a New Situation: Challenges and Strategy	He Guangxi	Council of China Top Think Tanks
4	Ethical Governance in Emerging Fields of Science and Technology	He Guangxi	Council of China Top Think Tanks
5	Improve Financial Technology Governance System to Prevent and Defuse Financial Risks	Zhang Mingxi	Council of China Top Think Tanks
6	Investment and Financing Mechanisms and Roadmaps for Innovative-Driven Development of SMEs in the New Era	Wei Shijie	Council of China Top Think Tanks
7	Policy Foresight on Disruptive Industrial Innovation	Chen Zhi	Council of China Top Think Tanks
8	Research on Major Issues Regarding the Policy System for Industrial STI	Chen Zhi	Council of China Top Think Tanks
9	Strategic Direction and Roadmap of High-Quality Development of STI	Wang Ge	Council of China Top Think Tanks
10	Research on Major Issues of National Science and Technology Security Risk in the New Era	Wang Ge	Council of China Top Think Tanks
11	Foresight on China's Agricultural and Rural Development and Building of Strategic Power	Chen Shibo	Council of China Top Think Tanks
12	International STI Centers in a Shifting Landscape of International Order and Implications for the Development of China's STI Centers	Long Kaiyuan	Council of China Top Think Tanks
13	China's Major Security Challenges and Responding Strategy in Key Fields of Science and Technology	Yuan Like	Council of China Top Think Tanks
14	Research on Making Full Use of Financial Technology to Prevent and Defuse Financial Risks	Zhang Mingxi	Council of China Top Think Tanks
15	Development Trends, International Experience and Models of National Innovation System	Hu Zhijian, Li Zhe	MOST
16	Research on Key Issues Regarding the Strategy and Policy Priorities of STI in the New Era	Ding Minglei, Li Zhe	MOST
17	Research and Publicity: China's Scientific and Technological Development in 40 Years of Reform and Opening up	Hu Zhijian, Li Zhe	MOST
18	Research on Major Issues of Innovation Policy for Supporting the Modern Economic System	Chen Zhi	MOST



# Projects and Achievements



No.	Project Name	Project Leader	Source
19	Five Major Issues of Science and Technology Reform and Development	Li Zhe, He Guangxi	MOST
20	Research on Progress of Innovation Strategy for High-Quality Development	Chen Baoming	MOST
21	Research on Policy Tools for Supporting Innovation-Driven Technology SMEs in the New Era	Chen Zhi	MOST
22	Research on National Science and Technology Policymaking for Innovation-Driven Development of Xiong'an New District	Long Kaiyuan, Wang Shuhua	MOST
23	Research on Documentation of the Master Plan of Basic Research, Applied Basic Research and Technological Innovation Project	Wang Ge, Xu Ye	MOST
24	Research on Major Issues of Artificial Intelligence Security Legislation	Yuan Like	MOST
25	Research on China's Global Competitiveness in Artificial Intelligence and Development Strategy	Li Xiuquan	MOST
26	Research on Trends of Artificial Intelligence Technology Development and Impact on Science and Technology Security	Li Xiuquan	MOST
27	Research on Agricultural Technology Services System	Liu Dongmei, Long Kaiyuan	MOST
28	Research on the Mechanism that Science and Technology Investment Drives Development in All Sectors	Zhang Mingxi, Zhu Xinle, Guo Tengda	MOST
29	Blockchain: Development Model, Implications and Strategy	Zhang Mingxi, Guo Tengda, Xu Ye	MOST
30	Evaluation of the Policy System for the Implementation of the <i>Outline of the National Program for Long-and Medium-Term Scientific and Technological Development (2006-2020)</i> and Progress of National Innovation System Development	Liang Yingda, Li Zhe	MOST
31	Research on Typical Cases of Transformation into Innovation-Driven Development in Regions	Chen Baoming, Xu Zhuqing	MOST
32	Fundamental Research on Science and Technology Indicators and Statistical Analysis	Zhu Yingchun	MOST
33	Research on Goals and Indicators of Scientific and Technological Development of Innovative Nation	Xuan Zhaohui	MOST
34	Research on Plan for Integration of Talent, Projects and Bases of Science and Technology	Shi Changhui	MOST
35	Sub-Task of Research on the Mechanism of Encouraging Enterprises to Lead Key National Science and Technology Projects for Collaboration between Innovative Institutions	Chen Zhi	MOST
36	Research on Key Issues and Strategies for Securing a Decisive Victory in Building an Innovative Nation	Chen Baoming, Wang Weinan	MOST
37	Research on Science and Technology Security and Risks of Global Supply Chain	Chen Zhi, Su Nan	MOST
38	Research on Laws, Regulations and Supporting Policies of Science and Technology	Chen Zhi	MOST
39	Evaluation on Articles of Association Formulation of Public Research Institutions	Fan Lihong	MOST
40	Research on Talent Exchange, Competition and Cooperation between China and -U.S. Science and Technology Sectors	Shi Changhui	MOST
41	Research on General Secretary Xi Jinping's Important Remarks on STI Development	Liang Yingda, Kang Qi	MOST
42	Research on Major Policy Issues of the National Innovation System	Liang Yingda, Li Zhe	MOST
43	Research on Trends of the Fourth Industrial Revolution	Hu Zhijian, Chen Zhi	MOST
44	Research on STI Capacity of China and the U.S.	Huang Ning, Wang Ge	MOST

No.	Project Name	Project Leader	Source
45	Research on Major Science and Technology Issues of Free-Trade Negotiation and World Trade Reform	Huang Ning, Wang Ge	MOST
46	Analysis of Science and Technology Plans of Major Countries and Research on the Textual Framework of China's Medium- and Long-Term Scientific and Technological Development Plan	Ding Minglei, Sun Fuquan	MOST
47	Research on the Strategy of Open STI Cooperation in a New Situation	Yang Juan, Ding Minglei	MOST
48	Research on Needs of Local Governments Regarding the National Medium- and Long-Term Scientific and Technological Development Plan	Wang Ge, Qin Zheng	MOST
49	Research on China's Scientific and Technological Development in the Past 70 Years	Sun Fuquan, Wang Ge	MOST
50	Annual Report on the New-Generation of Artificial Intelligence Development in China	Li Xiuquan, Han Qiuming	MOST
51	Research on Capacity-Building and Layout of China's National Technological Innovation Centers	Yu Liang	MOST
52	Research on Analytical Report of Economic Situation from the Perspective of STI	Peng Chunyan	MOST
53	Research on the Overall Principles of China's National Medium- and Long-Term Scientific and Technological Development Plan (2021-2035)	Wang Ge	MOST
54	Research on the Social Implications and Governance of STI	He Guangxi	MOST
55	International Comparison of Capacity of Improving National of Innovation-Driven Development	Zhang Mingxi, Zhang Junfang	MOST
56	Monitoring and Policy Research of the Construction of an Innovative Nation	Wang Shuhua	MOF
57	Fundamental Research of Technology Foresight	Wang Ge	MOF
58	Monitoring and Policy Research of the Progress Construction of Innovative Nation 2019	Xuan Zhaohui	MOF
59	Impact of Digital Transformation on STI Governance of BRICS Countries and Policy Research	Kang Qi, Li Zhe	International Department, CCCPC
60	Research on the Role of Supporting Institutions of NNSFC and Their Evaluation Mechanism	Lu Yangxu	NNSFC
61	Research on the Strategy of Developing Chongqing into a National (West China) STI Center	Hu Zhijian, Long Kaiyuan	Chinese Academy of Engineering
62	Survey on Research Ethics Awareness of Survey on Science and Technology Workers	Lu Yangxu	National Academy of Innovation Strategy, China Association for Science and Technology
63	Research on Development Strategy of TCM and Supply-Side Structure Reform in the New Era	Wang Hongguang	State Administration of Traditional Chinese Medicine
64	Survey on Time Utilization of Researchers	Shi Changhui	National Academy of Innovation Strategy, China Association for Science and Technology
65	Survey of Education and Training of PhDs	Lu Yangxu	Institutes of Science and Development, Chinese Academy of Sciences, CASISD
66	Diversified Funding for Research in the New Era and the Functions, Mechanism and Governance Model of Joint Funds	Xue Wei	Tsinghua University
67	Research on Policy Support for Zhongguancun Demonstration Zone in Driving Breakthroughs in Key or Core Technologies	Chen Zhi	Administrative Committee of Zhongguancun Science Park
68	Research on the Conceptual Evolution, Schools and Development Trends of Digital City Planning in Europe	Xu Zhuqing	China Academy of Urban Planning and Design
69	Evaluation of Science and Technology Capacity of Hebei	Liu Huifeng	Hebei Provincial Institute of Scientific and Technical Information
70	Research on the Science and Technology Policy System of Jieshou Based on Domestic and Foreign County and Municipality-Level Science and Technology Policies	Long Kaiyuan	Jieshou Municipal Bureau of Science and Technology
71	Strategic Plan of Kunshan Industrial and STI Center	Zhao Gang	Kunshan Municipal Bureau of Science and Technology
72	Monitoring and Evaluation of Guangzhou City Innovation Index System	Sun Yunjie, Xuan Zhaohui	Guangzhou Productivity Promotion Center
73	Research on Ethical Perception and Attitude of Chinese Medical Researchers	He Guangxi	Peking Union Medical College
74	Research on the Planning of Special Sessions and Thematic Sessions of the 2019 Pujiang Innovation Forum	Jiang Yang	Shanghai Center for Pujiang Innovation Forum
75	Research on Core Functions of Shanghai STI Center	Sun Fuquan	Development and Research Center of Shanghai Municipal People's Government
76	Research on Breakthrough Points of Efforts to Develop Shanghai into a STI Center	Sun Fuquan	Development and Research Center of Shanghai Municipal People's Government
77	Research on the Regional STI Indicator System of Henan Province	Chen Yu	Henan Provincial Institute of Scientific and Technical Information
78	Survey of Living Conditions in Western Regions of China	He Guangxi	Norwegian Ministry of Foreign Affairs
79	China's Pro-Livelihood Science and Technology Policy and Plan of China-ROC Science and Technology Cooperation	Ran Meili	Beijing Representative Office of the National Research Foundation of Korea

## 2.2 Research Reports and Publications

### Submissions to the Council of China Top Think Tanks

In 2019, CASTED undertook and completed 15 major think tank research projects including "Research on Major Issues of National Science and Technology Security Risk in the New Era" and "China's Major Security Challenges and Responding Strategy in Key Fields of Science and Technology "; submitted 10 think tank reports, including a research report of long-arm jurisdiction which was published by *China Top Think Tank Reports* and received comments from a member of the Standing Committee of CCCPC. and 4 research reports focusing on opening and cooperation in scientific researches, development of AI, WTO regulations and strategic mineral resources were published in *Compilation of Key Outcomes of Research Projects Funded by the National Social Sciences Fund*. In addition, it submitted 21 think tank views, 41 think tank updates, and 5 briefings of think tank work.





## 2.2 Research Reports and Publications

### Submissions to MOST

In 2019, CASTED submitted 9 research reports and special reports to MOST, including one that received instructions from a member of the Standing Committee of CCCPC, and one which received instructions from a vice premier. It completed 99 issues of *Strategic Research Briefing*, 92 of which received replies and instructions from government leaders; and 55 issues of survey reports, one of which received instructions from a vice premier.

CASTED submitted thematic research reports in accordance with instructions from national leaders regarding “China’s economic balance” “period of major change unseen in a century”, and “China-U.S. S&T relations”. It submitted 32 thematic research reports to respond instructions from top leadership regarding China-U.S. economic and trade friction, the fourth industrial revolution and transformation, prevention of major risks, artificial intelligence, and guidance fund for technological innovation.



### Publications

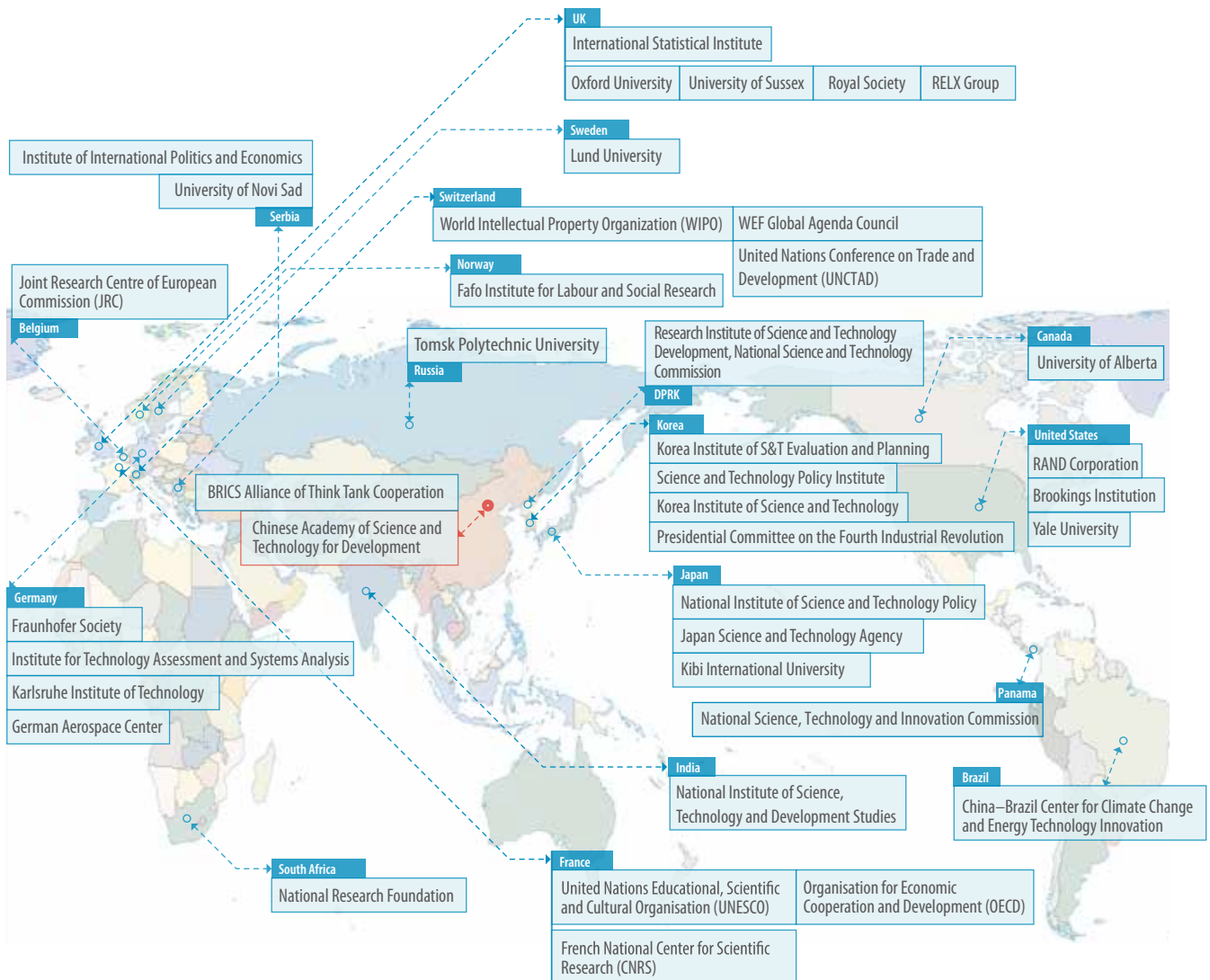
In 2019, CASTED published a total of 17 books, including *National Innovation Index Report (Chinese and English editions)*, *Evaluative Research on Domestic and Foreign Technological Competition*, *Assessment Report on Technological Innovation in Chinese Regions 2019*, *High-Tech Enterprise Development Report 2018*, and *China Venture Capital Development Report 2019*.

In 2019, CASTED published a total of 177 papers, including *Research on International Experience in Integration of Poverty Relief and Building of Social Security System*, *Coordination between China’s STI Policy and WTO Rules from the Perspective of WTO Cases Against China*, *Artificial Intelligence: Security Risks, Challenges and Legal Response*, *How Government Owns Original Frontier Scientific and Technological Results: A Case Study on Japanese Nobel Laureates*, *From Open Access to Open Science: Changes and Challenges — Bibliometric Analysis Based on Comparison of Multiple Indicators*, *Research on the Gender Difference of Chinese Teenagers’ Professional Interest in Science and Technology and the Underlying Factors*, and *China’s Science and Technology Finance Development in the Past 40 Years: Analysis from an Evolution Perspective*. *The City Is the Best Teacher: A Review of the Educating City in Europe and China*, *China City Planning Review*, *Research on the Relationship Between Government Policy and Enterprise Production Decision in Green Background*, *Panel Data Clustering Analysis Based on Composite PCC: a Parametric Approach*, *Orchestrating an Innovation Ecosystem: the Role of Hub Firms and Ecosystem Based Dynamic Capabilities*.

# PART III

## Cooperation and Exchange

### Our International Cooperation Footprint



## 3.1 Supporting Important Diplomatic Events

In 2019, in coordination with China's S&T diplomacy and exchange of visits by national leaders, CASTED proactively planned and conducted research on pertinent global and regional S&T topics and challenges and offered suggestions for policymakers. It participated in extensive international events on STI strategy where it shared China's STI strategy and policy guidance, showed the world China's progress in building an innovative nation, and its commitment and confidence to become a major power in S&T.

In March, CASTED president Hu Zhijian, with the invitation of the Publicity Department of CCCPC, attended the Global Governance Forum co-hosted by China and France in Paris;

In April, CASTED provided support for the 21st China-EU Summit; and participated in the China-EU Dialogue on Innovation Policy;

In June, CASTED, as a supporting institution of the Sino-German Innovation Policy Platform, co-sponsored with the Project Management Agency of German Aerospace Center (PT-DLR) the 2019 Sino-German International Workshop on Innovation Policy under the theme of "Comparison of Innovation Systems and Digital Transformation";

In July, CASTED attended the sub-forum of "China's Rise as a Science and Technology Power" at the 2019 Summer Davos Forum;

In September, CASTED attended the 10th Meeting of China-ASEAN Joint Science and Technology Committee;

In October, CASTED, as part of the Chinese delegation led by Minister Wang Zhigang of MOST, attended the Fourth China-CEEC Conference on Innovation Cooperation; and co-organized and attended the 2019 International Think Tank Conference on BRICS sponsored by the Chinese Council for BRICS Think Tank Cooperation under the International Liaison Department of CCCPC Central Committee.



Closing ceremony of the Global Governance Forum co-hosted by China and France



Sub-Forum of the World Economic Forum



Group photograph at the Fourth China-CEEC Conference on Innovation Cooperation



## 3.2 Serving as an International Cooperation Platform and Channel

### Constructing New Platforms and Opening New Channels

CASTED convened the first Symposium of China-U.S. Science and Technology Think Tanks in October 2019. At the symposium, 11 U.S. experts and 5 Chinese experts discussed topics including artificial intelligence, S&T ethics, information security, industrial development, S&T governance, and China-U.S. cooperation in S&T. Minister Wang Zhigang and Vice Minister Li Meng of MOST attended the symposium and met with U.S. experts.

CASTED initiated the Belt and Road Cooperation Network of STI Think Tanks. It launched the initiative at the Belt and Road parallel session of the Pujiang Innovation Forum and drafted *Declaration/Initiative of the Belt and Road Science and Technology Think Tank Association*, which received positive support and response from STI think tanks in 13 Belt and Road countries. The cooperation agreement was planned to be signed in 2020.

CASTED signed a memorandum of understanding for cooperation with the Institute of International Politics and Economics and University of Novi Sad in Serbia; expanded cooperation channels with the Research Institute of Science and Technology Development, Academy of Scientific and Technological Development Strategy, State Commission for National Science and Technology Commission of DPRK, Presidential Committee on the Fourth Industrial Revolution of ROK, and Korea Mobile Internet Business Association; had in-depth exchanges with the Panama National Science, Technology and Innovation Commission on China-Panama STI cooperation; exchanged visits with UNCTAD; and joined the Global Technology Assessment Network initiated by Karlsruhe Institute of Technology in Germany.

### Increasing the Global Influence of Existing Cooperation Platforms

Giving full scope to the role of existing international cooperation platforms, CASTED has maintained long-term cooperation with leading European and U.S. S&T think tanks such as RAND Corporation and Brookings Institution in fields of international interest, including responsible innovation, smart city and artificial intelligence. And it carried out specialized and well-targeted collaborative research as well as personnel exchanges with international organizations such as OECD, UNESCO, WIPO and World Bank, with collaborations covering fields including practices of responsible research and sustainable urbanization in China and Europe.



CASTED organized the Belt and Road parallel session of the Pujiang Innovation Forum, where it invited representatives from S&T think tanks in B&R countries to contribute their views and suggestions, and it co-sponsored with Shanghai Institute for Science of Science (SISS) the Pujiang Innovation Forum – 2019 International Symposium of STI Think Tanks. It also attended the 2019 Sino-German International Workshop on Innovation Policy, China-Japan-ROK Seminar on Science and Technology Policies and the Fourth China-UK Innovation and Development Forum.

### 3.3 Conducting International Collaborative Research and Academic Exchange

CASTED conducted collaborative research with RAND Corporation on subjects including artificial intelligence and S&T science and technology governance; it conducted research projects on "promoting the Roadmaps to Promote BRICS STI Development science, technology and innovation roadmap" and "research on BRICS Green Finance Cooperation Strategy" within the framework of the Chinese Council for BRICS Think Tank Cooperation; it conducted and proactively advanced the Horizon 2020 project "China-EU Sustainable Urbanization Innovation Platform"; carried out it conducted joint research and academic exchanges on "cross-border e-commerce dispute resolution platform" and "blockchain related technologies" with UNCTAD; It conducted the "Survey of Living Conditions in Western Regions of China" supported by the Norwegian Ministry of Foreign Affairs in collaboration with Fafo Institute for Labour and Social Research in Norway; Meanwhile, it completed the translation of *Frascati Manual* and initiated the translation of *Oslo Manual*; it undertook research on Serbia's development strategy of artificial intelligence development strategy with its phased results being featured at the science, technology and innovation cooperation parallel session of the "2020 Summit of China and Central and Eastern European (CEE) Countries" on STI cooperation; it conducted research on "China's Pro-Livelihood S&Tsci-tech Policy and Plan of China-ROC S&Tsci-tech Cooperation" entrusted by at the commissioning of Beijing Representative Office of the National Research Foundation of Korea; and it carried out academic exchanges with the Joint Research Centre of European Commission Joint Research Centre on topics including comparison of China-EU innovation systems, EU Industrial R&D investment scoreboard, smart specialization, and technology forecasting.

### 3.4 Strengthening Cooperation with Domestic S&T Think Tanks

CASTED signed strategic cooperation agreements with *China Science and Technology Daily* and the Hunan Provincial Department of Science and Technology to co-sponsor the 14th China Science and Technology Forum under the theme "Review and Outlook: China's Science, Technology and Innovation in the Past 70 Years and Roadmap 2035". Besides, and together with CASISD, SISS and Professional Committee of Foresight under Chinese Association for Science and Science Policy Research, CASTED held the 14th National Academic Symposium on Technology Foresight.

CASTED sponsored the First Joint Conference of *China SciTechnology Business* Think Tanks under the theme "Trends of S&T Development and Medium- and Long-term Planning", which invited approximately 200 representatives of S&T think tanks. Discussions focused on topics including accelerating the development of a new type of S&T think tanks, advancing research on national and local plans of medium- and long-term scientific and technological development and S&T plans for the 14th Five-Year Plan Period.

CASTED signed a cooperation agreement with Alibaba Cloud Computing; conducted teaching and research exchanges with universities including Renmin University of China; and signed a cooperation agreement with China Silk Road Group.

## 3.5 CISTRAT Actively Advancing Its Mission



The 8<sup>th</sup> CISTRAT International Training Workshop

Giving full scope to the role of the International Research and Training Centre for Science and Technology Strategy (CISTRAT) under the Auspices of UNESCO, a Category 2 center of UNESCO, CASTED held the 8th International Training Workshop in Beijing in November 2019. The theme of the 20-day workshop was "B&R Countries STI Policy Research and Methods" and was attended by 13 international trainees from science and technology S&T agencies and research institutes of developing countries, including trainees from Indonesia, Iran, Serbia, Georgia, Egypt, and Poland and as well as 7 domestic trainees from regions such as Zhejiang, Shanghai and Beijing.

The workshop achieved the objective of foreign-aid training by introducing China's experience of carrying out research and working out S&T development plans research and formulation to trainees from developing countries. The foreign trainees consistently stated that China's experience and practices in STI policy research shed valuable light for their countries.

In November, CISTRAT attended the 2019 Annual Conference of the Chinese Union of UNESCO Category 2 Centres/Centers & Taiyuan Genting Forum, where the center reported its work and future plan and discussed topics including coordinated development with other Category 2 centers in China.

In December, CISTRAT attended the 32nd plenary meeting of the National Commission of China for UNESCO and symposium of partners, where it introduced its work in 2019 and its plan for 2020.

## Press Conferences

In May, CASTED released the *Annual Report on the Eco-System of Observation on China Science and Technology Finance Ecosystem in China 2019* and *Annual Report on the New-Generation of Artificial Intelligence Development in China New-Generation Artificial Intelligence Development Report 2019* (Chinese and English editions).

In December, CASTED jointly released with Guangzhou Productivity Promotion Center *Guangzhou Urban Innovation Index Report 2019* which offered a comprehensive tracking and evaluation of innovation-driven development in Guangzhou and 11 administrative areas.



Hu Zhijian sharing views at the Fourth China-CEEC Conference on Innovation Cooperation



Hu Zhijian at Summer Davos Forum

In July, *China Economic Weekly* featured an interview with CASTED President Hu Zhijian in its reporting of the 2019 Summer Davos Forum. In the interview, Hu shared his views on the sub-forum of “China’s Rise as a Science and Technology Power”: Technology entrepreneurship has gathered momentum in China as the Fourth Industrial Revolution unfolds across the country, and it represents an exciting era which enables every individual to create his or her value.

## 4.2 Views





# 4.2

## Views

# 4.3

## Media Release

In August, Hu Zhijian gave an exclusive interview to *China Daily*. In his view, China and the U.S. should cooperate in order to develop together, and an objective understanding of what the bilateral cooperation has achieved can help alleviate the recent tensions between the two countries in technology and trade and reveal new possibilities of re-embracing win-win cooperation.

In October, *China Science and Technology Daily* gave an interview to He Guangxi, research fellow at CASTED, asking for a policy interpretation of the *Rules for Investigation and Handling of Research Integrity Cases (for Trial Implementation)* and the *Rules for Handling Violations of Science and Technology Research (Exposure Document)*. According to He, the two documents were meant to provide an operational basis for the handling of research ethics violations while maintaining a proper balance between sanctioning of research ethics violations by competent authorities and protecting academic freedom. The report was widely reproduced in mainstream media and Xuexiqiangguo APP.

Research fellows at CASTED made reports sharing research results at major international events including Pujiang Innovation Forum, China-Japan-ROK Seminar on Science and Technology Policies, Sino-German Innovation Conference, China-UK Innovation and Development Forum, and China-CEEC Conference on Innovation Cooperation.

On the occasion of the 70th anniversary of the founding of the People's Republic of China, CASTED published more than 20 articles sharing China's achievements in S&T through mainstream media including *Guangming Daily*, *The Economic Daily*, and *China Science and Technology Daily*.

CASTED released the Emerging Industries PMI (EPMI) regularly through media including *The Economic Daily* and China Science and Technology Network.

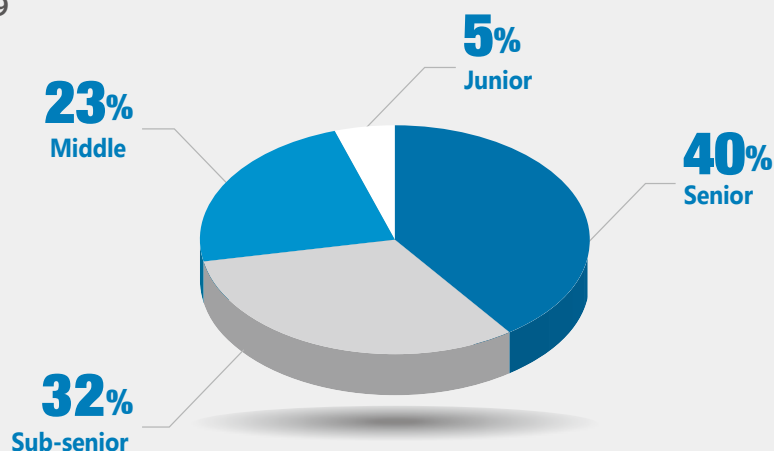


## 5.1 Team

By December 2019, CASTED had 87 permanent employees , including 78 researchers (61 with a doctoral degree), accounting for 90%. It engaged two experts from Europe for collaborative research and received nine visiting research fellows from other domestic S&T think tanks for research exchanges.

### CASTED Employees by Professional

Qualifications 2019



## 5.2 Postdoctoral Workstation

The Postdoctoral Workstation at CASTED was established in June 2008. It first offered a joint postdoctoral fellowship program with Nankai University. In late 2017, it began enrolling postdoctoral research fellows independently. By the end of 2019, the workstation had enrolled 32 postdoctoral fellows, with 13 of them still at the workstation now. The station has become an important platform of CASTED to foster and select high-level talent in STI strategy research and strengthen top think tank development.

## 5.2 Postdoctoral Workstation

In 2019, the workstation made proactive efforts to establish a coordinated learning mechanism coordinating between internal departments of MOST CASTED and the station and seek to promote increase research cooperation and exchanges with external institutions. Throughout the year, it held 19 academic workshops, organized 25 thematic study sessions on “Remain true to our original aspiration and keep our mission firmly in mind”, and organized one field research on the New Third Board in Beijing Financial Street.



Field research on the New Third Board in Beijing Financial Street



Postdoctoral lecture on poverty relief



Postdoctoral graduation defense



Lecture on national security



Lecture on blockchain at Tencent Research Institute



## 5.3 Culture

### Trade union activities

CASTED took an active part in sports games for employees in central and state organs; arranged healthcare services for employees and organized fitness activities regularly as well as other activities such as “International Women’s Day” public science communication lecture, “Children’s Day” family activities, and outdoor fitness activities.



Participating in sports games for employees in central and state organs



Outing to Pofeng Ridge for maple foliage



“Children’s Day” family activity



2020 CASTED Spring Festival Gala

### Youth activities

In 2019, the young researcher group at CASTED continued to advance the “Reading, Study & Research” series of activities by launching the “Open Thinking Lectures” and advocating the learning concept of “reading academic classics and solidifying the theoretical foundation”, in addition to various thematic joint learning activities including the academic workshop called Comprehensive Theoretical Study for Young Researchers, seminar on STI policy and practice, “Youthful China” activity on Communist Youth League Day, and first aid training.



“Taking Root in the Grassroots” research team visiting the Memorial Hall of the Victims in Nanjing Massacre by Japanese Invaders



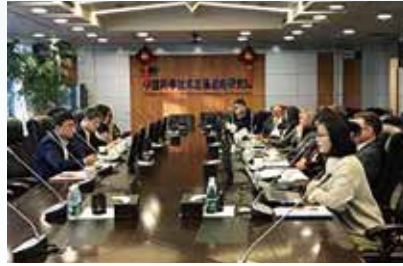
First lecture of “Open Thinking Lectures”



“Hello! Youth” photography exhibition in celebration of the 70th anniversary of the People’s Republic of China

## January 21

CASTED president Hu Zhijian met with Hinrich Thölken, Special Envoy of German Federal Foreign Office for Digital Transformation, and Heidrun Tempel, Representative of German Federal Foreign Office for Scientific Research, Education and Cultural Policies, for an exchange on digital transformation and development.



# MILESTONES 2019

## January 25

CASTED convened a symposium on “research on major issues regarding the development of the national innovation system”, which was attended by experts from MOST, Beijing Institute of Collaborative Innovation (BICI), Tsinghua University, CASISD, and SISS.

## February 28

Kim Jong Seon, Director of Korea-China Science and Technology Cooperation Center, paid a visit to CASTED and gave a lecture on “Science and Technology Policy for Shared Economy”.



## March 5

CASTED President Hu Zhijian met with the delegation of Korea's Science and Technology Policy Institute (STEPI) led by President Cho Hwanghee. The two sides reached consensus on a series of joint research projects including national innovation system, innovation index and research collaboration within the framework of the Belt and Road Initiative.



## March

CASTED and Guangzhou Productivity Promotion Center (Guangzhou Institute for Urban Innovation) jointly released the *Guangzhou Urban Innovation Index Report 2018*.

## March 26

Liang Yingda, Secretary of the Party Committee of CASTED, met the delegation led by Kim Myong-Chol, Director of the Research Institute of Science and Technology Development, Academy of Scientific and Technological Development Strategy, DPRK. The two sides discussed about scientific and technological development plans and other topics.



## March 28

CASTED President Hu Zhijian met with World Bank delegation led by Dr. Zhang Chunlin, Chief Specialist at the World Bank Group's Finance, Competitiveness and Innovation Global Practice (FCI), and Dr. Fu Xiaolan, consultant for World Bank and professor of Technology and Management Centre for Development (TMCD) of Oxford University.





### March 29

CASTED held the Training Workshop for the Sixth Round Of National Technology Forecasting , which was attended by leaders of 17 research teams dedicated to fields including information and new materials, liaisons for various fields of research, and responsible officers from relevant divisions and centers of MOST.

### March

CASTED released *China Science and Technology Indicators 2016* (English edition), which provided a systematic survey of China's current scientific and technological development and the historical process of China developing itself into an innovative nation.

### March 29

CASTED President Hu Zhijian met with the Panama delegation led by the National Science, Technology and Innovation Commission of Panama. The two sides had in-depth exchanges on China-Panama STI cooperation.



### April 10

CASTED President Hu Zhijian led a delegation to visit the European Commission Joint Research Centre in Brussels, Belgium, and met with the Director-General of the Center, Mr. Vladimir Sucha. The two sides had in-depth discussions on comparison of China-EU innovation systems, EU Industrial R&D Investment Scoreboard, smart specialization, and technology forecasting.



### May 6-7

CASTED co-sponsored with Shanghai Municipal Commission of Science and Technology and SISS the Pujiang Innovation Forum – 2019 International Symposium of STI Think Tanks under the theme “Vision for the Future: Science, Technology and Innovation of 2035”, which was attended by nearly 200 experts.

### May 9

CASTED convened a technology foresight symposium where Alexander Sokolov from HSE University gave an academic presentation on “Science and Technology Foresight in Russia”.

### May 26

CASTED organized a thematic symposium on “Development of the Belt and Road as a Path of Innovation” at Pujiang Innovation Forum, which was attended by 15 research fellows from think tanks in countries such as France, Iran, Brazil, Philippines, Thailand, Oman, Pakistan, Armenia, and Indonesia, entrepreneurs, and leading Chinese scholars. At the forum, CASTED released the *Annual Report on the New-Generation of Artificial Intelligence Development in China 2019* (English edition).



### June 17-18

CASTED co-sponsored with the Project Management Agency German Aerospace Center (PT-DLR) the 2019 Sino-German International Workshop on Innovation Policy under the theme of “Comparison of Innovation Systems and Digital Transformation”, which was attended by approximately 30 Chinese and German STI policy officials, experts, scholars, and business community representatives.



## June 25

CASTED Vice President Sun Fuquan received and met with the Korean delegation led by Koh Jean, Member of the Presidential Committee on the Fourth Industrial Revolution of ROK and President of Korea Mobile Internet Business Association, and Lee Seung Weon, Minister Counsellor of Science and Technology Office, Embassy of ROK in China. The two sides had exchanges on topics including innovation-driven development, industrial policy, and artificial intelligence.



## June

CASTED released the *National Innovation Index Report 2019* (English edition), which assessed the innovation capacity of 40 countries on five dimensions of innovation resources, knowledge creation, corporate innovation, innovation performance, and innovation environment.

## July 2

CASTED President Hu Zhijian gave a speech at the sub-forum of “China’s Rise as a Science and Technology Power” at the 2019 Summer Davos Forum, in which he observed that technology entrepreneurship has gathered momentum in China as the Fourth Industrial Revolution unfolds across the country, and it represents an exciting era which enables every individual to create his or her value.

## July 15

CASTED President Hu Zhijian led a delegation to UNCTAD in Geneva, Switzerland, where he attended a meeting, which was also attended by Oxford University researchers via video-conferencing, for in-depth discussions on topics including technology trade barrier, technological aid for developing countries, blockchain technology, and digital economy.



## July 18-19

CASTED co-sponsored with *China Science and Technology Daily* and Hunan Provincial Department of Science and Technology the 14th China Science and Technology Forum under the theme of “Review and Outlook: China’s Science, Technology and Innovation in the Past 70 Years and Roadmap 2035”, which was attended by more than 200 attendees from local S&T administrative agencies, research institutions, and universities.



## July 18

CASTED President Hu Zhijian and Tong Xudong, Secretary of Leading Party Members’ Group and head of the Hunan Provincial Department of Science and Technology, signed *Strategic Cooperation Agreement*. Li Ping, member of Leading Party Members’ Group of MOST and President of *China Science and Technology Daily*, and Yi Jialiang, Deputy Secretary General of Hunan Provincial People’s Government, jointly inaugurated CASTED Hunan Cooperation Base.





### July 28

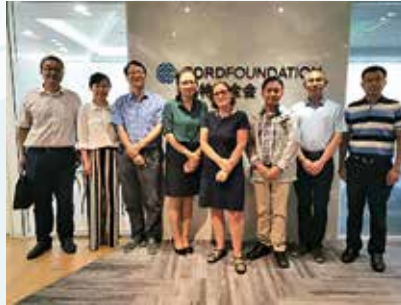
CASTED co-sponsored with CASISD, SISS and Professional Committee of Foresight under Chinese Association for Science and Science Policy Research the 14th National Academic Symposium on Technology Foresight, which had about 200 attendees.

### August 18

The CASTED Council of China Top Think Tanks (under development) held its first plenum in Beijing, which was chaired by Wang Zhigang, Minister of Science and Technology and attended by Li Meng, Vice Minister of Science and Technology, Cao Xiaoli, Deputy Director of the Office for National Work of Philosophy and Social Sciences of the Publicity Department of the CCCPC, which deliberated and adopted *Articles of Association of the CASTED Council of China Top Think Tanks (under development)* and the *Articles of Association of the Academic Committee of the CASTED Council of China Top Think Tanks (under development)*.

### August 27

CASTED and Ford Foundation held a seminar on cooperation where the two sides discussed directions of research collaboration.



### September 19

CASTED received a Brazilian delegation with members including Anna Jaguaribe, Director of the Institute for Brazil-China Studies (IBRACH) at the Federal University of Rio de Janeiro, Ana Célia Castro, Vice-Coordinator of the Graduate Program in Public Policies, Strategies and Development at the Federal University of Rio de Janeiro, José Pio Borges, Director of the Brazilian Center for International Relations (CEBRI). The visit, made on the 45th anniversary of diplomatic relations between Brazil and China, represented the fifth consecutive years of visits and cooperation between CASTED and IBRACH.



### September 10

A delegation led by Li Yaru, Director of the Research Institute of Highway (RIOH), Ministry of Transportation, and head of RIOH Leading Group for Think Tank Development, paid a study visit to CASTED on think tank development.



### September 20

CASTED President Hu Zhijian met with Shamika N. Sirimanne, Director of the Division on Technology and Logistics at UNCTAD for an in-depth exchange on digital economy and technology forecasting.



### October 7-12

CASTED President Hu Zhijian led a delegation to the Fourth China-CEEC Conference on Innovation Cooperation and visited the Institute of International Politics and Economics and the Belt and Road Institute at the University of Novi Sad in Serbia. CASTED signed memorandums of cooperation with the two institutions.

### October 19-20

CASTED President Hu Zhijian attended the 2019 International Symposium of BRICS Think Tanks, where he gave a keynote speech on development trends of China's innovation system in the new era and the directions of BRICS cooperation in STI.



### October 26

CASTED convened the first Symposium of China-U.S. Science and Technology Think Tanks. At the symposium, 11 U.S. experts and 5 Chinese experts discussed topics including artificial intelligence, S&T ethics, information security, industrial development, S&T governance, and China-U.S. cooperation in S&T. Minister Wang Zhigang and Vice Minister Li Meng of MOST attended the symposium and met with U.S. experts.

### October 29

Wang Yujun, Associate Professor at the School of Sociology and Population Studies, Renmin University of China, led freshman students of the 2019 class of sociology at the school on an observation study and exchange tour to CASTED, representing a practical exploration of teaching and research exchange between CASTED and universities.

### October 30

CASTED received the delegation led by Prof. Fu Xiaolan, Director of TMCD, Oxford University. The two sides had an in-depth exchange on innovation system, global innovation network, and research collaboration.



### November 11

CASTED co-sponsored with TMCD and other institutions the Fourth China-UK Innovation and Development Forum at Oxford University. Representatives from British universities including Oxford, Cambridge, Imperial College London, officials from government agencies such as Department for Business, Energy and Industrial Strategy, researchers from MOST CAS, and Tsinghua University, as well as Chinese and British entrepreneurs discussed about topics such as China-UK innovation and international cooperation. Sun Fuquan, Vice President of CASTED, attended the forum and made a keynote report.



### November 3-22

CASTED, together with CISTRAT, a category 2 center of UNESCO, organized the eighth international training workshop. It was attended by 13 international trainees from S&T agencies and research institutes of developing countries including Indonesia, Iran, Serbia, Georgia, Egypt, and Poland as well as 7 domestic trainees from regions such as Zhejiang, Shanghai and Beijing.



### November 13-15

CASTED President Hu Zhijian and research fellow He Guangxi attended the 14th China-Japan-ROK Seminar on Science and Technology Policies held in Incheon, ROK, which was attended by dozens of researchers on S&T policy from five Chinese, Japanese and Korean research institutions.



### December 5-6

CASTED sponsored the First Joint Conference of *China SciTechnology Business* Think Tanks under the theme of "Trends of S&T Development and Medium- and Long-term Planning", which was attended by approximately 200 representatives of S&T thinks.



### December 16

CASTED received an Indian delegation led by Dr. Ranjana Aggarwal, Director of National Institute of Science Technology and Development Studies (NISTADS), India, with researchers on S&T policy from four institutions including NISTADS, Indian National Science Academy, Panjab University, and Banaras Hindu University. They co-sponsored the Second China-India Symposium of Joint Research on Science, Technology and Innovation with CASTED. Four main themes were discussed at the symposium, including cutting-edge S&T achievements and countries' selection of key technologies, trends and changes of policy on emerging industries, development and technological innovation in agriculture and rural areas, and STI policy for SMEs.





In 2019, CASTED continued to build up its brand conferences and publications. develop conferences and publications sponsored by it. It organized and convened the 14th China Science and Technology Forum under the theme “Review and Outlook: China’s Science, Technology and Innovation in the Past 70 Years and Roadmap 2035” with the focus on the National Medium- and Long-term Scientific and Technological Development and S&T plans for the 14th Five-Year Plan Period. And it continued to increase the influence of *Forum on Science and Technology in China* and *China SciTechnology Business* in the fields of S&T science and technology strategy and innovation in accordance with the requirements provisionsded in the *Opinions on the Construction of New Think Tanks with Chinese Characteristics* Opinions on Developing New Types of Think Tanks of Chinese Characteristics regarding on developing academic exchange platforms and outcome transformation channels at different levels.

### *Forum on Science and Technology in China*

Focusing on academic frontiers and theoretical development, *Forum on Science and Technology in China* provided academic support for the construction of science and technology think tanks at CASTED

*Forum on Science and Technology in China* continued to maintain its position as a Chinese Social Sciences Citation Index (CSSCI) journal, a core Chinese journal and a Chinese Humanities and Social Science Evaluation Core Journal.

It organized a series of thematic reports on China’s S&T development in 40 years since the reform and opening up and China’s scientific and technological development in the past 70 years. It organized thematic articles on themes including “high-tech research ethics in the new era: challenges and strategy”, “roadmap of China’s mass entrepreneurship and innovation strategy”, and “artificial intelligence and social governance”.



### *China SciTechnology Business*

This journal, with its focus on domestic and foreign STI strategy, policy and management, has become a leading journal in publishing research outcomes of S&T think tanks across China.



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