



History of S&T Foresight in China

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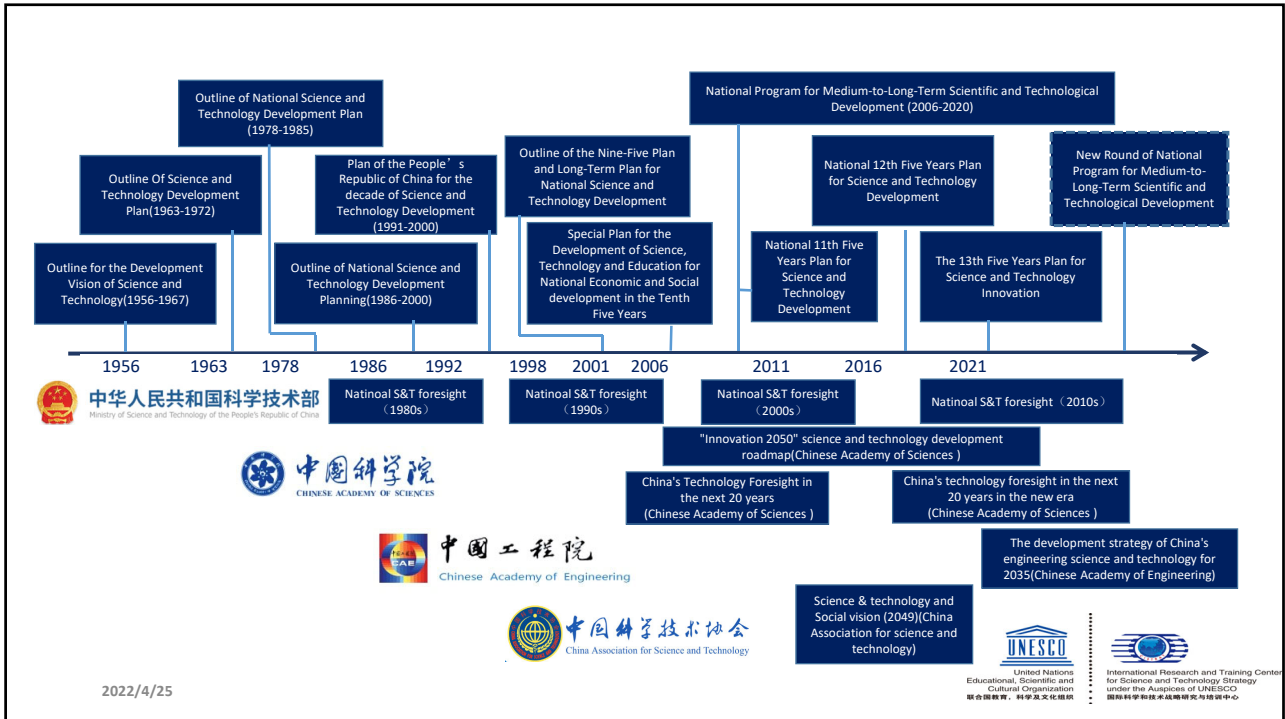
Chinese Academy of Science and Technology for Development (CASTED)



中华人民共和国科学技术部

Ministry of Science and Technology of the People's Republic of China





Beginning (1980s)

With the beginning of reform and opening up, the government changed the past practice of blind and arrogant planning, strengthened the research of management science, and the forecasting research was also put on the application agenda.

In 1979, The Chinese Society for Futures Studies was established, and translated and published many forecasting related books.




In the 1980s, as a special scientific category and special work, forecasting activities is gradually rising in China




United Nations Educational, Scientific and Cultural Organization
 联合国教育、科学及文化组织
 International Research and Training Center for Science and Technology Strategy under the Auspices of UNESCO
 国际科学和技术战略研究与培训中心

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Begining (1980s)

It became an important task of the National Scientific and Technological Commission at that time to do a good job in technology forecasting, consultation and demonstration, and put forward the development direction of science and technology, priority development fields and major topics.

国务院关于国家计划委员会、 国家经济委员会、国家科学技术委员会 分工的通知

一九八二年五月五日 国发〔1982〕76号

最近国务院常务会议讨论确定了国家计委、经委、科委的分工，现通知如下：

一、关于国家计委与国家经委的分工

(一) 国家计委负责全国经济和社会发展的中长期计划和年度计划的编制，国家经委负责组织年度计划的执行和协调。在编制计划、进行综合平衡时，国家经委参加。国

4. 为协同做好科技计划，由国家科委组织各方面力量，积极抓好科学技术发展的预测和咨询论证工作，调查研究世界和我国的科技现状与发展，提出科学技术发展方向、优先发展的领域和重大课题。为进行上述工作必要的经费，由国家科委掌握安排使用。

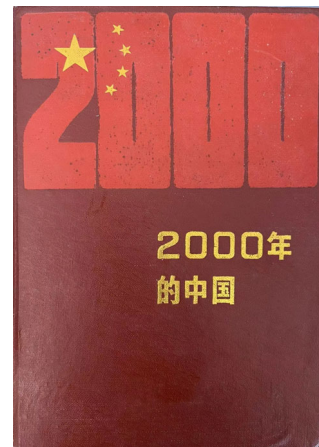
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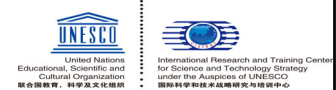
Begining (1980s)

The National Scientific and Technological Commission organized relevant experts to carry out forecasting activities in priority areas of scientific and technological development.

As for the "Forecasting of China's Science and Technology in 2000", it focuses on the forecasting of the strength of science and technology, the basic needs of science and technology in 2000, as well as the structure and system of science and technology, and describes the basic picture of science and technology in 2000.



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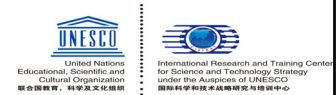


Exploration (1990s)

A new feature of national technology policies in the 1990s is to determine national key technologies and put forward corresponding industrial development plans. A new round of international technology competition began.

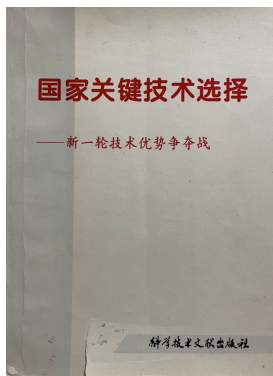
The ten-year plan for the development of science and technology of the People's Republic of China and the outline of the eighth five year plan issued in 1991 clearly put forward the need to carry out research on medium and long-term science and technology development strategies, priority areas of science and technology..... so as to provide a scientific basis for national macro decision-making.

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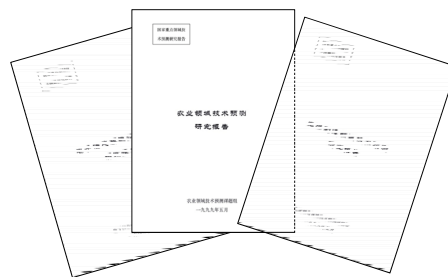


Exploration (1990s)

National Scientific and Technological Commission:
National Key Technologies Selection

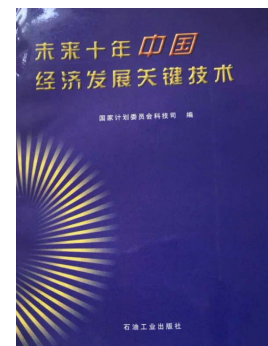


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Technology foresight in national key areas

National Planning Commission:
Research on Key Technologies of China's economic development in the next 10 years



Strengthen the research on science and technology development strategy and technology foresight, and give full play to the advisory role of academicians of the Chinese Academy of Sciences and the Chinese Academy of Engineering in major national science and technology decisions.

---Special Plan for the Development of Science, Technology and Education for National Economic and Social development in the Tenth Five Years(2001)

国家计委、科技部关于印发国民经济和社会发展第十个五年计划科技教育发展专项规划（科技发展规划）的通知

国务院 [2001] 209号
各省、自治区、直辖市及计划单列市人民政府，新疆生产建设兵团，国务院各部委，直属机构：
国家计委、科技部共同编制的《国民经济和社会发展第十个五年计划科技教育发展专项规划（科技发展规划）》已经国务院审定，现印发给你们，请认真贯彻执行。

国民经济和社会发展第十个五年计划科技教育发展专项规划（科技发展规划）（二〇〇一年五月）

前言
世纪之交，经济全球化进程加快，科学技术突飞猛进，知识经济已见端倪，世界经济正在发生重大深刻调整，国际分工大趋明显。要顺利完成“十五”期间的各项任务，必须保持良好发展势头，进一步在全国掀起学科学、爱科学、讲科学、用科学的热潮，使科技真正成为经济社会发展的强大动力。

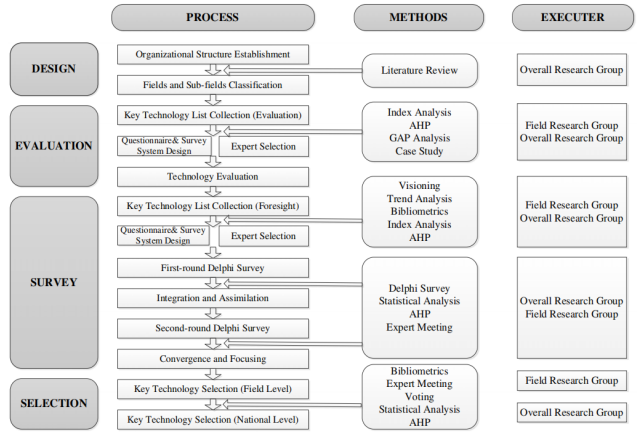


Ministry of science and technology:

Technology foresight and key technology selection in key high-tech fields in China



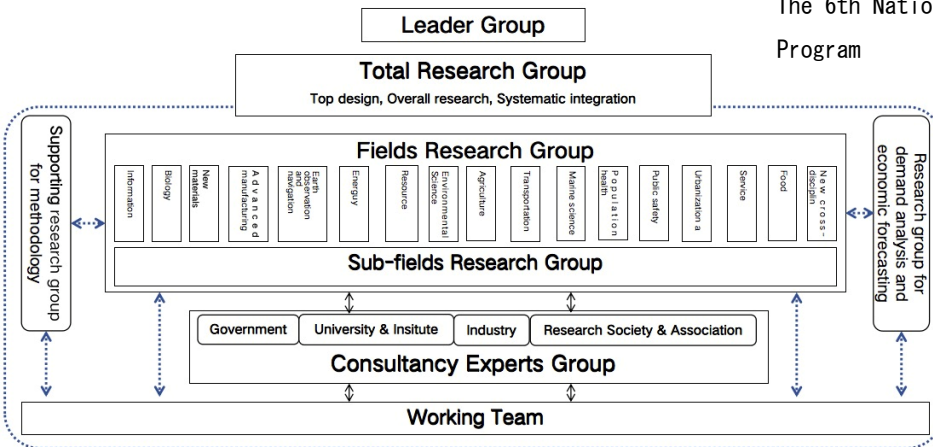
Ministry of science and technology:
The 5th National S&T Foresight Program



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Ministry of science and technology:
The 6th National S&T Foresight Program



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Ministry of science and technology: The 6th National S&T Foresight Program

The 6th national S&T foresight established a leading group with the MOST as the group leader and the vice minister in charge as the Deputy group leader. The main responsible comrades of the National Development and Reform Commission, the Ministry of education, the Ministry of Industry and Information Technology, the Ministry of Finance, the Ministry of Natural Resources, the Ministry of Ecological Environment, the Ministry of Transport, the Ministry of Housing and Urban-Rural Development, the Ministry of Agriculture and Rural Affairs , National Health Commission, the Chinese Academy of Sciences, the Academy of Engineering and the China Association for Science and Technology were the members of the leading group, Clarify the participation mechanism of various departments and comprehensively promote the S&T foresight.

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Facing the Future, What Should We Do?

- Top-Level Design and Co-ordination

--link national and local technology foresight activities and bring into play the research base and advantages of local, industrial key technologies, and special industry foresight, so as to form the layout of an open technology foresight system with diversified participation.

- Optimization of the Foresight Methodology

--combine “artificial intelligence” and other advanced information technologies to increase the quality of results obtained by technology foresight on the basis of big data and support activities of expert groups using databases and computer networks.

- Analysis of Science and Technology Future in Terms of Socio-Economic Needs

--not be based solely on the principle of maximizing economic efficiency, but should be “oriented to the vision and challenges of society” to actively select key technologies that can address social challenges and serve the vision of humanity.

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Thank you for your attention!

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