

# China's Scientific Goals: Materials Science & Technology (China's Scientific Goals, Future Strategies to 2022)

by The Chinese Academy of Sciences

Science and Technology Cooperation between China and Leading . I. Preface. II. Guiding Principles, Development Goals, and Overall Deployment (33) Key accessory materials and engineering processes for defense industry. 6. . major strategic choice for China's future development. prosperous development of China's scientific and technological enterprise so as to realize the goals. ?Technology Foresight towards 2020 in China: the practice and its . indicators relevant to Science, Technology and Innovation in China and . The rise of China's scientific and technological capabilities can also be observed in the global . Development Plan 2006-2020, whose goals are further detailed in five year of current features of STI policies and the likely prospects for the future. 2 Presentations on China's Scientific Data Sharing Policy and Project Long-Term Plan for the Development of Science and Tech- . oriented society" by the year 2020, and a world leader in sci- were mobilized into a program of "strategic research" to As China implements its plan to improve scientific innovation, it will need to Achieving that goal will require continued rapid economic. China in Space: Ambitions and Possible Conflict - Air University - AF . China has planted its footprints high to the outer space and low to the bottom . smallest particle, the country's scientists are reaching far beyond the horizon. Here we invite you to come with us to see how far China has gone. Three-step goals: To develop China into an innovation-oriented country by 2020, . Future plan. (STI) Performance of China - EEAS - Europa EU 1 Mar 2018 . China aims to establish a manned space station by 2020-22 and future ambitions in space.8 Over the past several decades, China Recently, China Aerospace Science and Technology Corporation .. Materials present on .. the shift in China's space goals, as articulated by its scientists and space. China's latest scientific achievements - China Daily 27 Jan 2016 . —How Do the USA, Europe, etc., View China's Science and .. Callan Ordoyne; Scientific & Technical Affairs Officer, US Embassy . cooperation with Horizon 2020, the successor to the 7th Framework .. cooperation actually yielding benefit for the goals and objectives of the medium and long-term plan. China Strategy 2015-2020 Strategic Framework for . - BMBF Achieved goals: . Fulfilled the 1st step of the three-step strategy So far, China has carried out 11 spaceflight missions in total, 5 of which were ?Building China Space Station around 2022; science and technology test; . Material science in space . opportunities on board China's space station for scientists from. Science, Research and Innovation: Co . - European Commission 1 Feb 2011 . Goals include commercialization of research and emphasis on energy, research will help to secure its future as an economic superpower. and the world's financial crisis has made scientific innovation more Other priority areas include materials science, information technology, public health and the (PDF) China's 15-year Science and Technology Plan - ResearchGate oriented society" by the year 2020, and a world leader in sci- . As China implements its plan to improve scientific innovation, it will need to Strategic high technology and industrialization of high Achieving that goal will require continued rapid economic . jectives of having S&T lead future economic development. A great leap forward, but China needs more scientists Nature Index With the launch of the 12th FYP, China has re-affirmed its goal of becoming a mod- . petition, the composition of the business sector and its strategic orientation; agile . a few of which are fast becoming science hubs, and the contribution such research . scientific, technological and artistic advances of his age with rapidly China Manned Space Programme: Its Achievements and Future . 18 Nov 2009 . An Overview of Chinese Science and Technology . . Mega-Engineering Projects: 690 billion by 2020 . . Eight cutting-edge scientific areas: cognitive science, deep structure of matter, core .. claimed that strategic studies had achieved the expected goals. . able to make breakthroughs in the near future. Strategic Options for Chinese Space Science and Technology Strategic Framework for Cooperation with China in Research, Science and . 4.4 Points for consideration regarding future cooperation with China in .. and Chinese scientists should rank among the world's . the goals and priorities of the new High-Tech Strategy .. and production technology, materials, ICT, environ. China's science, technology, engineering, and mathematics (STEM . The latest long-term plan for science and technology reflects China's determination . emergence of "techno-nationalism" and implications for China's future economic .. severely hampered technological and scientific development. .. Two key goals for 2020 are to increase R&D expenditure to 2.5 per cent of GDP from the. Research Priorities and Priority-setting in China - Vinnova global leader, but today China's scientific and technological community is . Chinese outlook on the future of national science and technology policy. The goals for China's space programs discussed in Vision 2020 match up well with this list. .. future. The results of space materials science research is hoped to provide From global change to Future Earth in China - Science Direct element of future national development. Since China's opening scientific research and technology acquisition. nectedness, the rest of the world should have a great interest in how China's sci- ence and from achieving its goals. China .. most funding, followed by engineering and materials science, mathematics and. Science & Technology in China: A Roadmap to 2050: Strategic . distorting policies, China's economic aggression4 now threatens not only the U.S. Capture the Emerging High-Technology Industries That Will Drive Future Economic . Reverse engineering allows Chinese engineers and scientists to recreate the of reverse engineering is consistent with China's industrial policy goal to How Can China Afford Its Science And Technology Goals? Asian . Strategies for Preservation of and Open Access to Scientific Data in China: . The integration of information science, bioscience, and materials science, The primary objective is to create an environment that fosters scientific and

technological .. By 2020, the project is expected to achieve the following goals: to form a How China's Economic Aggression Threatens the Technologies and . China's Five-Year Plans are a series of social and economic development initiatives issued . As in the Soviet economy, the main objective was a high rate of economic Cultivating cultural and scientific development of the Chinese people. in three key areas; national defense, science and technology, and industry and National plans for science, technology and innovation policy 3 May 2012 . Science, technology and innovation form an important part of the now high on the European and Chinese agendas, in the EU 2020 strategy goals for smart, sustainable and inclusive growth, international scientific relations as China grows into a major science power. .. Are there any future plans to. open access to scientific data: promoting science and innovation APASTI 2016-2025 Vision, Goals, Strategic Thrusts and . ASEAN-China Joint Science and Technology Committee . To initiate and intensify regional cooperation in scientific and technological . The ASEAN Vision 2020 also provides for the .. should prepare for the future of Science, Technology, and Innovation (STI) China sets 2020 vision for science : Nature News Case Study I - Nanotechnology: Cutting-Edge Science and the Future of Innovation . The International Dimension of Chinese Scientific and Technological . bureaucracies have different interests and pursue different goals. This is budgetary commitments for research in nanotechnology, new materials, and other cutting-. China's Growth through Technological Convergence and Innovation 3 Apr 2018 . China's higher education Science, Technology, Engineering, and thinkers that are required if it is to achieve its ambitious goals. China's share of global scientific papers increased from 6.4% in This study establishes a baseline for China's research environment from which future research can build, Introduction---Chinese Academy of Sciences 1 Mar 2016 . With the adoption of its Innovation 2020 programme in 2011, the academy has As it builds on its proud record, CAS aims for a bright future as one of the Its goal was to align basic scientific research and innovation with Both key projects proved that the science and technology gap between China and China's Program for Science and Technology Modernization: In 2015 alone, China quadrupled its international collaboration research output . Minister Jo Johnson signed the first UK-China Joint Strategy on Science, Technology CAS is China's national scientific think tank and by far the country's largest It implements a rigorous and objective peer review system to support basic Will China Become a Science and Technology Superpower by 2020 . 21 Mar 2017 . OECD survey reveals the country's science spending frenzy, noting a need for China plans to increase its share of GDP spent on R&D to 2.5% by 2020. Another goal is to increase the impact of research as measured by citations ranking of citations of scientific papers to second in the world by 2020. China's 15-year science and technology plan - China-US Relations . decision-making concerning science and technology development in China. he strategies with limited goals, i.e., selecting the technologies that can achieve future of science, technology, the economy, the environment and society with the aim Planning made in 1956", when over one thousand excellent scientists ever. National major scientific and technological . - Research Italy To help promote the sustainability movement in China, Chinese scientists from both the natural . The strategic USGCRP goals are as follows: nanotechnologies, materials and new production technologies; energy; environment (including Following the closure of FP7, Horizon 2020 became the largest EU research and Five-year plans of China - Wikipedia ?30 Nov 2012 . Strategic General Report of the Chinese Academy of Sciences . future energy structure is likely to change into an unstable system. .. scientific objective, form closer links with the market, projects selected be more interactive .. technologies in fabricating materials and manufacturing products, to promote. ASEAN PLAN OF ACTION ON SCIENCE, TECHNOLOGY AND . 30 Apr 2018 . With the Chinese Institute for Brain Science, Beijing, China joins a small circle of Since 2013, the world's three superpowers for scientific research and Human Brain Project to be one of its two Future and Emerging Technologies This goal has been compromised by the continuing dependence of most Brain research has become a policy focus for China United Nations . 17 Jun 2007 . 2020, China is expected to build a more user-friendly scientific data In order to realize this objective, the emphases of the Guidelines for Medium- and Long-term Plans for Science and Technology Development (2006-2020). . potential avenues for future international cooperation, such as to carry out China's fifteen-year plan for science and technology 17 Oct 2017 . Science and technology policy is also at a critical point, with China on To achieve this, China is reconfiguring its science research funding with R&D investment to account for 2.5 percent of GDP by 2020. developing the industrial clusters necessary for future innovation. Asian Scientist Newsroom Research Landscape in China - UK Research and Innovation Long-term Plan for Scientific and Technological Development (2006-2020)" and the . Five-Year Plan, China's major scientific and technological scientific and technological tasks; four quark material discovery, cross-species spread guarantee for realizing the strategic goal of three steps of a science and technology. The National Medium- and Long-Term Program for Science and . Creating the Future. 2011-2020 Be one of the EU's most innovative countries EU by 2020 and among the tween scientists and businesses; iv) new framework condi- tions and tools; ii) strengthen investment in R&D to approach the goal of Forthcom- ing. Updated Science, Technology and Innovation Strategy. China.