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Institute on Comparative Regional Integration Studies



Future Trends Series - GR:REEN Project

Title of the report

"Technology Foresight towards 2020 in China": the Practice and its Impacts

Area

Science and Technology

Reporter

Institute of Policy and Management, Chinese Academy of Sciences (Article in journal "Technology Analysis & Strategic Management, Volume 20, Issue 3, 2008)

Type of the Reporter

Academic / Research Institutes

Periodically updated?

No

First issued year

2008

Latest update

2008

Official website

<http://www.tandfonline.com/doi/abs/10.1080/09537320801999587#.UxHgbF7uc4A>

Language available

English

Short summary

"Technology foresight has attracted increasing attention from government and academia as well as industry since 1990s. However, the impact of technology foresight on national strategic decision-making varies from country to country. This paper aims to introduce the 'Technology Foresight towards 2020' in China, which has been conducted by a research group in the Chinese Academy of Sciences."

Key trends

The authors identify an integrated index of importance on the basis of three indicators: contribution to economic growth, contribution to improving the quality of life and contribution to national security. According to this index, the following topics are considered the most important for China:

- (1) "The Chinese GPS system will be developed successfully;
- (2) Mining technologies for deep-sea oil and gas and mineral resources will have widespread use;
- (3) Earth observing technologies with ultra high resolution will have widespread use;
- (4) The system of satellite communication for earth environment monitoring, forecast and emergency rescue will be developed successfully;
- (5) Enhanced multi-mode GPS receivers will have widespread use;
- (6) Solar cells will be developed successfully, with transfer efficiency as high as 50%;

- (7) Remote sensing techniques for geostationary satellites with high spatial resolution will have widespread use in disaster monitoring;
- (8) An early warning and emergency technique system for water source and drinking water will have widespread use;
- (9) GPS will be used in buildings, underwater and underground;
- (10) New technology for biological energy will be developed successfully, which can continuously produce ethanol from straw, biological diesel, hydrocarbon compounds and so on."

Suggestions

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Methodology

Research from primary and secondary sources; modelling

Reference to other trends reports? If yes, which reports?

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