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Reflections on the Commercialization of Scientific and Technological Achievements in the Information Domain: Postprint

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Abstract

Promoting the transformation of scientific and technological achievements has consistently been a priority in China's scientific and technological innovation policy agenda. However, due to the distinctive, complex, and specialized nature of such achievements, the difficulty of their transformation has emerged as a universal challenge confronting nations worldwide. China's own endeavors in technology transfer and commercialization likewise entail numerous aspects warranting critical examination and further exploration, particularly regarding the ongoing debate over whether research institutes should undertake achievement transformation through venture creation. This article, using the information technology sector as a case study, presents perspectives on this issue by analyzing the advantages, disadvantages, and applicable contexts of several primary transformation modalities, including intellectual property licensing and transfer, industry-university-research collaboration, and enterprise establishment.

Full Text

Preamble

ChinaXiv Preprint

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Abstract

Promoting the transformation of scientific and technological achievements has long been a key focus of China's national science and technology innovation policy. However, due to the unique, complex, and specialized nature of such achievements, difficulties in their transformation represent a common challenge worldwide. In China, many aspects of technology transfer warrant further discussion and exploration, particularly the controversial question of whether research institutes should engage in commercialization by establishing their own enterprises. This paper examines the information technology sector as a case study, analyzing the advantages, disadvantages, and applicable scenarios of several primary transformation pathways—including intellectual property licensing and transfer, industry-university-research collaboration, and spin-off company formation—to offer perspectives on this issue.

Keywords: transformation of scientific and technological achievements, intellectual property licensing and transfer, industry-university-research cooperation, spin-offs

1 Main Forms of Scientific and Technological Achievement Transformation

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2 Limitations of Intellectual Property Licensing and Transfer Methods in the Information Technology Field

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3 Pathways for Industry-University-Research Cooperation in the Information Technology Field

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5 Conclusion

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Reference:

Zhu X Y. Enterprises are the main body of innovation, and what should universities be?. *Wenhui Daily*, 2023-12-25(07). (in Chinese)

Note: Figure translations are in progress. See original paper for figures.

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