



Article

# A Spatial Evolutionary Study of Technological Innovation Talents' Sticky Wages and Technological Innovation Efficiency Based on the Perspective of Sustainable Development

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**Abstract:** In China, with the deepening of the reform of industrial structures, the improvement of technological innovation has become a key issue. This is not only related to whether the strategic development of Chinese science and technology can be achieved, but also whether the Chinese economy and high-quality human capital can develop sustainably. Based on the theoretical boundary of sustainable development—free transfer of information—we see that sticky wages are the embodiment of information dissemination. Under the dual effects of profit-seeking behavior and information barriers, the relationship between the sticky wages of technological innovation talents (TIT), as the most profitable labor force, and technological innovation efficiency (TIE) has become more complex, and so far we still have a limited understanding of it. We explore this issue in an empirical study by using a two-stage chain Data Envelopment Analysis (DEA) of TIE followed by modifying the wages of TIT; finally, we build a collaborative evolution model with spatial effects on a large dataset (from 2007 to 2016). The results show that the overall Chinese TIE is relatively low, and in the central and western regions the TIE has been seriously reversed; there are also divergences in the TIE at different stages in the regions we focus on. As the output of technological innovation, except for initial results (such as patents), the more important value is whether it has an ability to transform the initial results into production, and the core of it is whether it can match the market environment and technology transfer system (for example, market mechanism, transformation incentive mechanism, and institutional mechanism). So, considering these aspects, the central and west of China are obviously insufficient, while the east has obvious advantages; this can also explain the results of spatial diffusion, namely, in the eastern region it is higher than in other areas, but the gap between them is gradually narrowing; lastly, from the perspective of synergy, the wage stickiness of TIT in the central region is larger than that of the eastern and western regions, and the evolutionary relationship in the former is “extruding” while in the latter it is “cooperative.” Mainly due to the popularity of the eastern innovation network and the initial state of the west, the barriers of information transmission are relatively low, while the central part is undergoing economic transformation, so its extreme demand for TIT has pushed up the cost of information transmission.

**Keywords:** technological innovation talent; sticky wages; technological innovation efficiency; spatial collaborative evolution

## 1. Introduction

The labor force, generally referred to as one of the factors of production, and whether it can keep up with economic fluctuations to self-regulate in a timely manner and ensure that different

# Technological Development As An Evolutionary Process

## A Study Of The

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