

From the Perspective of Technological Innovation, the Boundaries and Moderation of Deviant Innovation

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Abstract: This article explored the boundaries and moderation of deviant innovation, pointing out its important driving role in technological development, but facing constraints such as resource constraints and risks. The boundary issue of deviant innovation was elaborated, and the convenience and adaptability of deviant innovation were analyzed, as well as methods to improve its success rate, including cultivating innovative thinking and abilities, effectively managing projects, etc. In addition, strategies were emphasized to guide deviant innovation towards a healthy and orderly direction, such as establishing a good innovation culture and atmosphere, and formulating reasonable policies and systems.

Keywords: Deviant Innovation; Moderation; Social Ethics; Evaluation Mechanism

1. Introduction

At present, technology is developing at an astonishing speed, and competition is becoming increasingly fierce, which constitutes an important background for deviant innovation. The rapid development of technology provides opportunities for deviant innovation[1]. New technologies continue to emerge, expanding human cognitive boundaries and providing more possibilities for innovation. This provides technological support for deviant innovation, which can break through the limitations of traditional thinking. The intense competition is an important factor driving deviant innovation. In the fierce market competition, enterprises need to seek differentiated competitive advantages. Deviant innovation can break the existing competitive landscape and bring new opportunities to enterprises. These background factors have had multiple impacts on deviant innovation. On the one hand, it promotes the diversification of innovation. The development of technology has enriched the avenues for

innovation, while the pressure of competition has prompted enterprises to constantly try new ways of innovation. On the other hand, it also increases the risk of innovation. Deviant innovation often implies greater uncertainty and requires companies to balance risks and opportunities[2].

However, deviant innovation is not without limitations. It needs to be carried out within the framework of law and morality, and cannot harm the public interest of society. At the same time, enterprises also need to fully consider their own strength and resources to avoid excessive risk-taking.

In short, the rapid development of technology and fierce competition in the current era provide a background and impetus for deviant innovation, but it is also necessary to pay attention to risk control and legal compliance in the process of innovation[3].

2. Deviant Innovation Plays an Important Driving Role in Technological Development

Firstly, it is a key driving force for technological breakthroughs. Deviant innovation breaks traditional thinking patterns and conventional methods, bringing new ideas and perspectives to the field of technology. By challenging the boundaries of existing technology, deviant innovation can stimulate creativity and promote leapfrog development of technology[4].

Secondly, deviant innovation promotes technological progress. It encourages people to be brave enough to try new methods and approaches, constantly exploring unknown fields. This spirit of daring to break through helps to discover new technological solutions, improve the efficiency and performance of technology. However, deviant innovation also faces some limitations.

On the one hand, resource constraints are an important factor. Deviant innovation typically requires a significant investment of funds, manpower, and time. Lack of sufficient

resources may hinder the smooth progress of innovative projects, affecting their technological breakthroughs and progress.

On the other hand, risks cannot be ignored. Deviant innovation involves unknown fields and technologies, facing risks such as technological failure and market rejection. These risks may lead to significant economic losses and resource waste[5].

In addition, the lack of technical talents is also a limiting condition. Deviant innovation requires talents with innovative abilities and technical expertise, but such talents are often scarce in the market.

In order to better leverage the driving role of deviant innovation in technological development, we need to strengthen resource support, including providing financial support and establishing partnerships. Strengthen risk management, reduce innovation risks through sufficient market research and risk assessment. Cultivate and attract excellent technical talents to provide solid talent support for deviant innovation[6-7].

In short, deviant innovation has a positive driving effect on technological development, but at the same time, it also faces constraints such as resource constraints and risks. Only by fully understanding and solving these problems can we better achieve technological breakthroughs and progress[8].

3. Evaluation of the Convenience and Adaptability of Deviant Innovation

Speaking of convenience, deviant innovation can quickly respond to market demand. In a fiercely competitive market environment, time is money. Unconventional innovation often breaks the norm and quickly launches products or services that meet market demand. It is not bound by traditional thinking and methods, and can quickly capture market changes and opportunities.

Moreover, the process of deviant innovation is relatively simple, reducing tedious approvals and processes, and improving decision-making efficiency. This enables innovation to be put into practice faster and seize market opportunities.

Let's explore fitness again. Deviant innovation may face challenges in terms of compatibility with existing systems. Its unique properties may lead to incompatibility with existing systems and require extensive adjustments and modifications. This may increase costs and risks.

However, deviant innovation also has certain adaptability. It can bring new vitality and competitiveness to existing systems, driving system upgrades and improvements. In some cases, deviant innovation can open up new market areas and bring new growth opportunities to enterprises.

In addition, the flexibility of deviant innovation enables it to adapt to different markets and user needs. It can adjust and improve in a timely manner according to market changes, providing personalized solutions.

In summary, deviant innovation has advantages in terms of convenience and can quickly respond to market demand. But in terms of adaptability, it is necessary to pay attention to compatibility issues with existing systems. In practice, it is necessary to weigh the pros and cons and choose appropriate innovative methods based on specific circumstances.

4. The Boundary of Deviant Innovation

4.1 Relationship With Laws and Regulations

There is a complex and close relationship between deviant innovation and laws and regulations.

On the one hand, laws and regulations provide a certain framework and boundaries for deviant innovation. They establish standards for the legality and acceptability of innovative activities, ensuring that innovative behavior does not harm the public interest, infringe upon the rights of others, or violate basic moral standards.

Laws and regulations play the following roles:

1)Ensuring fair competition: preventing unfair competition behavior and maintaining market order.

2)Protecting intellectual property rights: Encouraging the enthusiasm of innovators and promoting the development of technological innovation.

3)Ensure public safety: prevent potential risks and hazards.

On the other hand, deviant innovation also poses challenges to laws and regulations and demands for their development:

1)Promote the improvement of laws and regulations: Reveal the shortcomings of existing laws and regulations, and promote their updating and improvement.

2)Expanding the scope of legal application: sparking a demand for legal norms in new fields.

3)Promoting legal advancement: adapting to

rapid technological and social changes.

However, there may also be conflicts and contradictions between deviant innovation and laws and regulations:

Deviant innovation may exceed the definition and expectations of existing laws and regulations, leading to uncertainty in the application of the law.

The lag of laws and regulations may limit the development space of deviant innovation.

To balance the relationship between deviant innovation and laws and regulations, it is necessary to:

Establishing flexible legal mechanisms that can respond promptly to new innovative forms.

Strengthen the promotion and education of laws and regulations, and enhance the legal awareness of innovators.

Promote communication and cooperation among the government, enterprises, and society, and jointly explore reasonable solutions.

In short, there is a mutual influence and interaction between deviant innovation and laws and regulations. Only under the guidance and regulation of laws and regulations can deviant innovation better play its role in promoting social progress, and at the same time, laws and regulations need to constantly adapt and guide the development of deviant innovation.

4.2 Consideration of Social Ethics

In today's rapidly developing society, deviant innovation has gradually become a focus of attention. This innovative behavior not only triggers changes in the fields of technology and business, but also has profound impacts on social ethics.

While deviant innovation promotes social progress, it also brings a series of ethical considerations. Firstly, it challenges traditional moral concepts and value systems. New innovations may break existing rules and norms, triggering people to rethink moral boundaries.

Secondly, deviant innovation may involve issues of profit distribution. Some innovative achievements may bring huge economic benefits, but how to fairly distribute these benefits and avoid the exacerbation of social inequality is an urgent ethical problem that needs to be solved.

In addition, deviant innovation may also have an impact on social order and stability. Overly radical innovation may trigger social unrest and maladaptation, and finding a balance between innovation and social stability is an important

consideration.

When facing the ethical considerations of deviant innovation, we need to:

Strengthen ethical education and cultivate people's sense of moral responsibility and ethical consciousness.

Establish a sound legal and regulatory system, regulate innovative behavior, and safeguard public interests.

Promote public participation and discussion, solicit opinions from all parties, and ensure that innovation meets social ethical standards.

Strengthen supervision of the innovation process, promptly identify and resolve potential ethical issues.

In short, deviant innovation is an important force driving social development, but we must also seriously consider its impact on social ethics. Only by innovating within the framework of morality and ethics can sustainable social progress be achieved.

5. Methods to Improve the Success Rate of Deviant Innovation

Firstly, cultivating innovative thinking and abilities is crucial. It can be achieved through the following methods:

- 1) Encourage diverse ways of thinking and accept different perspectives and ideas.
- 2) Provide a wide range of knowledge reserves, broaden horizons, and stimulate innovative inspiration.
- 3) Encourage practice and experimentation, and learn from failures.
- 4) Establish an innovation culture, encourage employees to be brave in innovation and not afraid of failure.
- 5) Organize innovation training and seminars to enhance innovation skills.

Secondly, effective management and support for deviant innovation projects are also crucial. Specific measures include:

- 1) Clarify project objectives and expected outcomes, providing clear direction for the project.
- 2) Build a diverse team, including members with different professional backgrounds and experiences.
- 3) Establish a flexible project management mechanism to adapt to the uncertainty of deviant innovation.
- 4) Provide sufficient resource support, including funding, technology, and manpower.
- 5) Establish effective communication channels

to ensure smooth communication among team members.

6) Develop risk management strategies and respond promptly to potential issues.

7) Establish an evaluation mechanism, timely summarize experiences and lessons learned, and optimize project processes.

Give the team sufficient autonomy and space to fully unleash their innovative abilities. By cultivating innovative thinking and abilities, as well as effectively managing and supporting deviant innovation projects, the success rate can be improved, bringing more value to enterprises and society.

6. Strategies to Guide Deviant Innovation Towards a Healthy and Orderly Direction

6.1 Exploring the Importance of Establishing a Good Innovation Culture and Atmosphere

Establishing a good culture and atmosphere of innovation is crucial. Innovation culture is a culture that encourages experimentation and tolerates failure. In such an atmosphere, employees dare to challenge traditional thinking and dare to propose new ideas and perspectives. Enterprises can create a good innovation culture by:

- 1) Encourage open communication: Provide a platform for employees to freely share ideas and experiences.
- 2) Tolerance of failure: viewing failure as an opportunity for learning rather than a reason for punishment.
- 3) Reward: Provide appropriate rewards and recognition to employees who have achieved innovative results.
- 4) Cultivate a spirit of cooperation: promote teamwork and unleash innovative potential.

6.2 Introduce How to Develop Reasonable Policies and Systems

Developing reasonable policies and systems is the key to guiding the healthy and orderly development of deviant innovation. Here are some suggestions:

- 1) Clear innovation goals: Enable employees to have a clear understanding of the company's expectations and direction for innovation.
- 2) Provide resource support, including financial, technical, and human resources support.
- 3) Establish an evaluation mechanism: Scientifically evaluate the feasibility and potential value of innovative projects.

4) Establish a risk management system to reduce risks in the innovation process.

5) Regular review and adjustment of policies to adapt to the constantly changing market environment and business needs.

By establishing a good innovation culture and atmosphere, as well as formulating reasonable policies and systems, enterprises can better guide deviant innovation to develop in a healthy and orderly direction, bringing more competitive advantages and value to the enterprise.

7. Establish and Improve the Internal Evaluation Mechanism of the Enterprise

Establishing a sound evaluation mechanism for enterprises is an important guarantee for their development, which can help them establish themselves and achieve success in fierce market competition.

The key elements of the evaluation mechanism include the following:

- 1) Clear evaluation criteria: Clearly define the success criteria and key indicators for innovative projects.
- 2) Multidimensional evaluation: comprehensively considering multiple aspects such as technology, market, economy, etc.
- 3) Objective and impartial: To avoid the influence of subjective factors on the evaluation results.
- 4) Real time: Provide timely feedback on evaluation results in order to adjust innovation strategies.
- 5) Data driven: Evaluation based on sufficient data and information.
- 6) Operability: The evaluation method and process should be simple and easy to implement. To ensure that deviant innovative behavior is within an acceptable range, the following measures can be taken:
 - 1) Set risk threshold: Clearly define the acceptable level of risk.
 - 2) Conduct risk assessment: Assess risks before and during project initiation.
 - 3) Develop emergency plans: respond to potential risk situations.
 - 4) Strengthen monitoring and tracking: promptly identify issues and make adjustments.
 - 5) Establish a feedback mechanism: Enable employees to provide timely feedback on issues and suggestions.
 - 6) Regular review: Conduct regular evaluations and reviews of deviant innovation projects. By establishing a sound evaluation mechanism

for enterprises, it is possible to better guide deviant innovation, reduce risks, and improve the success rate and efficiency of innovation.

8. Conclusion:

The article revolves around deviant innovation, covering its background, role, limitations, evaluation, and strategies to improve success rates. Explained that deviant innovation needs to be carried out within a legal and ethical framework, with attention to risk control and legal compliance. Emphasis was placed on the importance of measures such as cultivating innovative thinking and abilities, and providing resource support. Finally, it is proposed to establish a sound evaluation mechanism to guide the healthy and orderly development of deviant innovation

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