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Improving economic tools for creating competitive advantages of science-intensive products and their promotion to world markets

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**Abstract.** This article aims to show the transcendence of innovation in a world that is evolving within the framework of constant changes as a product of the era of globalization, the era of knowledge and the era of technology. Innovation is so essential if we are to continue to operate in an environment where companies and even individuals need to innovate regularly in order to work together with these changes and offer societies new options or ways that will allow them to function normally in their normal activities. Thus, innovation requires thinking about finding alternatives that would satisfy societies and that societies receive these transformations appropriately, without causing resistance, but rather being accepted in the best possible way for what they actually represent. This work consists of three parts. The first part deals in general with the concepts of competitiveness and innovation. The second one presents innovations as a tool for achieving competitive advantages. In the third part, the issue of innovation management is considered as the main key to ensuring that innovation processes bring greater added value and, in turn, competitiveness. Finally, the general conclusion of the paperis presented.

**Key words:** competitiveness, competition, market, economy.

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Совершенствование экономического инструментария создания конкурентных преимуществ наукоемкой продукции и ее продвижение на мировые рынки

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**Аннотация.** Эта статья направлена на то, чтобы показать трансцендентность инноваций в мире, который развивается в рамках постоянных изменений как продукт эпохи глобализации, эпохи знаний и эпохи технологий. Инновации столь необходимы для того, чтобы продолжать действовать в условиях, когда компании и даже люди должны регулярно вводить новшества, чтобы действовать совместно с этими изменениями и предлагать обществам новые варианты или пути, которые позволят им нормально функционировать в своей обычной деятельности. Таким образом, инновации требуют подумать о поиске альтернатив, которые удовлетворяли бы общества и чтобы общества получали эти преобразования надлежащим образом, не вызывая сопротивления, а скорее принимались наилучшим образом за то, что они на самом деле представляют. Эта работа состоит из трех частей. В первой части в целом рассматриваются концепции конкурентоспособности и инноваций. Во втором из них представлены инновации как инструмент достижения конкурентных преимуществ. В третьей части рассматривается вопрос об управлении инновациями в качестве основного ключа к тому, чтобы инновационные процессы приносили большую добавленную стоимость и, в свою очередь, конкурентоспособность. Наконец, представлен общий вывод работы.

Ключевые слова: конкурентоспособность, конкуренция, рынок, экономика.

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#### Introduction

finding explanations for why some countries are income of its citizens." poor and others are rich; poverty, wealth, and growth of countries have been the focus of most economic definition, you can simply change the word nation research, and this raises the question: what does to an organization, and citizens to owners. it take for a country to achieve prosperity? Various theories have been developed around this topic, at of competitiveness is to make a person a better least since AdamSmith published his masterpiece of entrepreneur, because it is useless to produce research into the nature and causes of the wealth of goods and services if they are not designed to be nations.

Since the publication of Smith's work, there competitiveness discourse has been adopted or equal to those offered by our companies. worldwide because economic openness has meant new opportunities for growth, as well as increased invent these trenches. One such tool is Innovation competition. In order to be a successful country Management, which includes a series of steps in global trade, it is necessary that its companies and tools, such as creativity, to develop new and achieve competitive advantages, that is, gain a share successful ideas that provide the push needed to in both the domestic and international market in strengthen these trenches, even to win a battle. terms of price and quality, and, consequently, that the economy achieves sustainable economic growth setting new boundaries, securing new markets, and in the long term.

In order to achieve competitive advantages, infrastructure, legislation that the private sector [Rice 2013].

In this context, the aim of this paper is to explore sold in a particular market. the importance of innovation as a competitive tech enterprises.

## The concept of competitiveness and innovation as a theoretical basis

The word competitiveness can be defined in different ways, depending on the context in which it is mentioned, for example, Ivantsevich et al. (1997, p. 4). defines it as:

market, is able to produce goods and services that for innovation to lead to economic benefits.

can successfully withstand the test of international Economists have always been concerned with markets, while maintaining and increasing the real

But Ivantsevich et al. himself mentions that in this

In an individual context, we can say that the goal successfully integrated into the market.

Competitiveness is a task that is set to achieve has been a strong focus on the causes of national both personal, group, organizational, and national prosperity, and so there is a long history of goals. Currently, it is necessary to use all the theories explaining why some countries are more weapons needed to fight on the battlefield, where successful internationally than others. Today, the the trenches consist of goods and services similar to

There are tools available to help improve or re-

Innovation management is primarily focused on creating new trenches to fight a tough market war.

According to Castells (1997), innovation is "the businesses need, inter alia, to create an enabling process in which a useful product, technique, or environment, whether it is the human resources service is developed based on an idea, invention, needed to meet specific needs, a good economic or recognition of a need until it is commercially encourages accepted" [Castells 2003]. According to this concept, competition, incentives for international trade, or innovation is nothing more than the process of specialized research centers that work together with developing something new or unknown from the methodical study of a need, whether personal, group At present, innovation is the cornerstone through or organizational, to achieve an economic goal. This which companies gain competitive advantages. means that innovation generates ideas that can be

Innovation requires extensive knowledge of advantage tool for achieving prosperity for high- the need, not all innovative ideas are successful, so you need to play with all the necessary tools so that innovation not only surprises, but also works. [Manzano Polío n.d/2021]

# Innovation as a tool for improving competitiveness

Innovation is part of the success of modern companies. Market trends and consumer needs are "The extent to which a nation, in a free and loyal those that define the goals that must be set in order

> When a company decides to innovate, it decides to become more competitive as it sells an idea that

The introduction of a new successful product or measurement; (ii) identifying ideas for development; service creates a better image, increases sales, and (iii) project development; (iv) protecting results; (v) provides greater profits for your customers.

tool in a company, it must, first, adapt easily to knowledge in the enterprise. changes in processes or products that the market requires for broader customer satisfaction, and, innovations that are most common in our time. These second, the company must know the environment are certainly technological innovations that have and its customers in order to anticipate their revolutionized activities in all areas in the modern preferences. The characteristics of adaptability to world, forcing us to change the way we live and lead changes and forecasting market needs will help to radical and rapid transformations. Technology has ensure that the company is at the forefront and invaded the world and made business more dynamic can combine its technical, commercial, financial in the field of business. Technology, in turn, changed and administrative capabilities to implement a new the style or lifestyle of the people, because we don't product or process that sets it apart from the rest. otstavel from the latest advances in this field, which [González 2013].

competitiveness" [Castells 2003, 19]. Innovation and cause for concern, as those who thinks in the past, I competitiveness go hand in hand, but not necessarily believe that the more technology advances, the new one exists without the other. In addition, innovations problems may have more severe consequences for are associated with all levels of competitiveness of the person. the pyramid and can be applied at any of them. At the same time, it is possible to be competitive without being innovative, simply by maintaining systems no longer sufficient to move forward.

will always be elementary tools.

with innovation [González 2013].

project, because the success of this project depends to growth, but also to However, despite the fact

can set it apart from other companies in the market. on them. These aspects or criteria include: (i) strategic financing innovation; (vi) harnessing innovation; In order for innovation to become a competitive and (vii) accumulating, preserving, and managing

We can't lose sight of the talk about the is the result of globalization, which for many, this "Innovation is a key element that explains is considered a positive event; but for others it is a

### Managing innovation as the key to being more competitive

Increasingly rapid rates of change, increasingly of continuous improvement, but improvement short-lived competitive advantages, increasingly processes may not be sufficient when the market accessible technologies, or increasingly easily is saturated, when demand is high, and when replicated or imitated products are some of the there are needs that existing products or services characteristics that define the economic environment cannot meet. At this stage, innovation becomes a that companies face today. It is this context that fundamental process for achieving competitiveness, has led to questions such as the existence of longas efforts to improve have reached their limit and are term sustainable competitive advantages as one of the key factors that guarantee the survival of But we must understand that innovation alone the company, since the high rate of change makes does not necessarily guarantee competitiveness. the competitive advantage of the present rarely Specific methodologies and strategies need to be the competitive advantage of tomorrow. However, developed to implement innovations. Cold research there is always a sustainable competitive advantage: of the factors involved in the innovation process and manage innovation better than competition, thereby the opportunities that exist in different scenarios creating a process that provides the company with a source of competitive advantage today as well as Innovation is like a lamp, so we can't get into a tomorrow. However, innovation in terms of costs deep dark cave unless we know if our lamp will be is becoming increasingly complex, so companies powerful enough to illuminate the entire panorama. that want guarantees for an increasingly uncertain If innovation is not properly planned, it can lead to future must realize that the ability to innovate is failure, so it is necessary to assess the risk associated an increasingly valuable company resource and, like their financial, commercial and production According to innovation experts, there are several capabilities, must be managed strictly and efficiently aspects or criteria that need to be considered at the [Hidalgo 2002], because only in innovation and its present time when you want to launch an innovative proper management will they find the key not only Martinez Terano A. F. Improving economic tools for creating competitive advantages of science-intensive products and their promotion to world markets, p. 142–146

that most companies know they need to innovate, and think that increasing their innovation skills is the most important lever to increase profitability and stimulate growth (innovations are often one of the strategic priorities of the company), they often neglect the innovation management and related processes, and doing them improperly and thus causing dissatisfaction with the results of innovative activities.

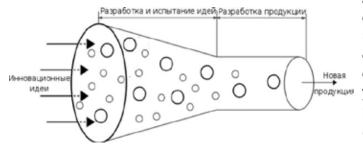


Fig. 1. Funnel Innovation Process model Source: Istoriya nauchnykh issledovaniy innovatsionnogo protsessa [History of scientific research of the innovation process], p. 8. RefManagement: [website]. Open access. Available at: http://www. refmanagement.ru/ritem-1938-8.html (accessed 11/05/2021). In Russ.

That is why this study attempts to describe the cycle of processes that ensure innovation activity, which allows the company to move towards a sustainable competitive advantage by improving the management of such processes, since not innovation is greater, but innovation is better than competition, which is the key to profitable and sustainable growth of the company. Thus, companies that focus on better innovation management and understand that innovation is not just about new products and services, they improve their competitive position in the market by using technology, improving business processes, or improving management processes [Berrocal & Segura 2008].

As a model of innovation management model is proposed, the proposed [ibid], which developed a model of management of innovative technological products/services that allows you to improve the traditional model of the funnel and avoid many of the restrictions, and they showed the effectiveness of the traditional model of the technological innovation process, although other models can better describe the typology of innovation. In particular, the developed model of technological traditional funnel model:

Modeling the value of R&D and enabling

- integrated idea management, which allows the customer to be considered throughout the entire innovation process, increases the value creation of non-business ideas, encourages and encourages creativity, etc.
- Including tools for generating ideas and tools for prioritizing and selecting ideas (and therefore prioritizing and selecting projects).

Taking into account the support processes (such management of technology; management resources and competencies; knowledge management and intellectual property), process control projects, learning processes (how the environment and the innovation process) that allow you to continuously improve and innovate and projects on the market, and in the operations of the M & A.

Emphasizing the importance of creating innovation networks that will increase innovation activity while sharing the risks of innovative projects.

Finally, the management innovation process involves developing a methodological framework that allows for the improvement of the company's innovation processes, enabling the company to move towards a sustainable competitive advantage by improving the management of its innovation processes.

#### **Conclusions**

Currently, capital and competitiveness are the main problems faced by many sectors of society. In this context, the point is that only through innovation and the irrigation of creative ideas and reengineering models based on strategic deployment planning and coordinated development can they advance the bulk of organizations that have become easy prey for capitalism. Right now, when companies are really at this Peak and critical stage, they depend on innovative talent, which can only be provided by human capital. Therefore, it is necessary to continue to strengthen the entrepreneurial culture based on creating small businesses that can become large competitive organizations in global markets, if the human capital they have is able to create new scenarios in which, from the moment of the company's creation, the Company will not compete, but will be created with sufficient talent, creativity, innovation of a product/service improves the perseverance and the ability to offer new products and services based on an innovative philosophy, creating fertile lands where competitiveness does 146 Martinez Terano A. F. Improving economic tools for creating competitive advantages of science–intensive products and their promotion to world markets, p. 142–146

not exist, and they can bear fruit and grow during management the immediate period of life, before, of course, knowledge and human talent in enterprises, along emulating capitalists who are incompetent in with elements of the open innovation concept creating these new scenarios, but who they can that allow managing external flows of knowledge emulate these successful businesses with their and new ideas, as well as an innovative program money, as long as they don't resort to technological for creating increasingly competitive high-tech expertise and human resources. From what we can products and services that bring greater added conclude, innovation is a key factor in combating value to enterprises, can be key keys to positioning competitiveness in the growth and development of themselves in the market in the face of competition. organizations [Arroyo 2015].

strategy aimed managing at And this is not only in front of the domestic market,

On the other hand, an optimal innovation but also on the world market.

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