



“Innovative development of the management potential at a modern enterprise”

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INNOVATIVE DEVELOPMENT OF THE MANAGEMENT POTENTIAL AT A MODERN ENTERPRISE

Abstract

The development of the national economy and its components in modern conditions is increasingly dependent on technological shifts based on innovation. The ability to form and effectively use potential is becoming a decisive factor in enhancing the competitiveness and development of enterprises. The development of managerial capacity will allow enterprises to adapt quickly to new environmental conditions and make effective management decisions. With the transformation of the economic system towards social orientation, there is a transition from outdated forms of enterprise potential management to a new vision of the quality of management potential.

Basic approaches to assessing the quality of management potential in its innovative development were formed. The main features of the innovative development of managerial potential were identified.

The main features of the development of innovative management potential were determined. A basic structure for management potential innovative development measures was proposed, which regulates that a company's policy in the field of improving the efficiency of management capacity is a subordinate element of the general strategy of an enterprise, but at the same time it is necessary to monitor the balance between economic performance and social justice.

Keywords

innovation, management potential, innovative development,
modern enterprise, development efficiency

JEL Classification

M21, L29, M50, O15

В. О. Письмак (Україна), Л. О. Мажник (Україна), Т. Є. Сігаєва (Україна)

ІННОВАЦІЙНИЙ РОЗВИТОК УПРАВЛІНСЬКОГО ПОТЕНЦІАЛУ СУЧАСНОГО ПІДПРИЄМСТВА

Анотація

Розвиток національної економіки та її складників у сучасних умовах все більше залежить від технологічних зрушень на базі інновацій. Уміння формувати й ефективно використовувати потенціал стає вирішальним фактором підвищення рівня конкурентоспроможності та розвитку підприємств. Розвиток управлінського потенціалу дозволить підприємствам швидко адаптуватися до нових умов зовнішнього середовища та приймати ефективні управлінські рішення. В умовах трансформації економічної системи у напрямку соціальної орієнтації, відбувається перехід від застарілих форм управління потенціалом підприємства до нового бачення якості управлінського потенціалу.

В дослідженні були сформовані основні положення щодо інноваційного розвитку управлінського потенціалу підприємства, з урахуванням складової управлінського персоналу. Виокремлено основні особливості інноваційного розвитку управлінського потенціалу.

Були запропоновані основні заходи інноваційного розвитку управлінського потенціалу сучасного підприємства, сутність яких полягає в тому, що політика підприємства в галузі підвищення ефективності управлінського потенціалу є підпорядкованим елементом загальної стратегії підприємства, але постійно необхідно вести контроль щодо дотримання балансу між економічними результатами діяльності та соціальною справедливістю.

Ключові слова

інновація, управлінський потенціал, інноваційний розвиток,
сучасне підприємство, ефективність розвитку

Класифікація JEL

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INTRODUCTION

The problem of efficient enterprise resource provision primarily depends on the enterprise management system and the expertise of its executives. Approaches to the formation of an effective management system have been studied in many works of modern researchers; a summary of the research results shows that traditional methods of human resource management in a modern dynamically developing enterprise are ineffective and create a certain mechanism that prevents the development processes of managerial personnel. Traditional human resource management methods are ineffective within the framework of a modern dynamic enterprise and create a certain mechanism that prevents the development processes of management personnel. Thus, the quality of management activity is one of the primary factors that determine the ability of the enterprise to accomplish the tasks it sets.

Approaches to the creation of an effective management system have been studied in many works of modern scientists, Generalization of research results indicates that traditional methods of human resource management in a modern dynamically developing enterprise are ineffective and create a certain mechanism that hinders the processes of managerial personnel development.

1. LITERATURE REVIEW

The majority of research works published in the modern economic literature in Ukraine and abroad are devoted to the research and elaboration of the methodology and enterprise human resources, financial and innovation potential evaluation methods. The works by Ander (2003), Armstrong (2008), Bilorus (2018), Ghruzynova (2010), Kibaljuk (2006), Ladunka (2011) and Sabadyrjova (2010) are devoted to the issue of forming and distinguishing the enterprise management potential as well as management potential innovative development.

Pysarenko (2020) considers innovation potential as unused, latent possibilities of accumulated resources that can be put into action to achieve the goals of an economic subject. The innovation potential of an organization is also considered as a measure of readiness to perform the tasks that ensure the achievement of the set innovation goal Ghruzinova (2010).

Issues related to the measurement of management, human resources, and financial potential have been researched to a much lesser extent. However, researches (Bilorus, 2018; Vorsovskyi, 2007; Ladunka, 2011; Sabadyrova, 2010) highly evaluate the role of these factors, analyses the practices and management technologies of innovative enterprises, and prove their impact on the efficiency of innovative activity of the enterprise.

2. AIMS

The aim of the article is further development and methodological support of the formation for management potential innovative development at a modern enterprise, which takes into account the component of management potential and reveals the essence of basic structure of management potential innovative development measures.

3. RESULTS

Summary of practical experience in recent years has led to the following conclusion about managerial capacity: the foundation of the production process is human activity and the competitiveness of any enterprise is determined by the potential of its personnel.

The keen interest to the notion of “management potential” resulted in two substantially different approaches: resource-based and factor approaches. On the one hand, the resource-based approach defines management potential through management resources studied from the standpoint of quantitative and qualitative criteria. On the other hand, adherers of the factor approach define management potential as a peculiar form of the human factor, i.e., human management capability. In our opinion, management potential must reflect the complex of learning, labor and psychophysiological resources of a manager, which can provide the highest level of management activity.

The consistent trend among managers of the leading Ukrainian enterprises as to perceiving management potential as the basis for production is being studied. In this regard, the notion of “management potential” becomes the subject of the scholarly discussion.

The notion of “potential” was derived by the economic science from physics (lat. «potentia» - power) where it refers to a certain quantity of energy accumulated by the system and which can be implemented in work (Vorsovskiy, 2007). The Explanatory Dictionary by Ozhegov defines potential as a physical quantity, which characterizes the force field at the given point, or the electric charge or quantity, which determines the energy store of the body at a certain point of the force field (electric, magnetic etc.) (Busel, 2016). In everyday life, the notion “potential” refers to the available means, supplies, certain sources, which can be applied in order to achieve a particular aim.

In the enterprise management theory, the economic activity is invariably connected directly with human resources, i.e. with people. However, from the standpoint of management, labor bears the name of management activity due to the presence of a set of characteristic features such as the subject of labor, outcome and its effectiveness.

Increased interest to the notion of “management potential” resulted in two completely different approaches to its interpretation. On the one hand, management potential refers to certain resources of an enterprise under study in respect of unity. On the other hand, management potential is a certain form of human factor perceived as a capacity for management activity. An of the abovementioned definitions management potential presupposes a set of certain learning, psychic and personal traits of the enterprise human resources, which provide for the highest qualitative level of management and optimal performance of professional functions under the current conditions.

Thus, the planned economy was based on the state ownership and human resources were not considered an “article of value”. The personnel policy of that time was characterized by the three distinguished personnel reproduction phases: production, division and employment. Upon that, production presupposed human resources formation, training, retraining and further development, division presupposed their reallocation across fields of activity and employment was skilled labour force implementation. Hence, the planned economy focused on the distribution relationship, so quantitative and not qualitative personnel reproduction parameters are characteristic of this system. However, the command economy had a great advantage of constant personnel management planning process, which provided sustainable system development (Hruzina, 2010).

Thus, in order to form the modern theoretical basis, it is worth providing the analysis of the former management potential formation system and assessing the situation with respect to the process of transition to the market economy (Figure 1).

Economic System Type		
Planned Economy	Market Economy	Socially-Oriented Economy
Government Control of Enterprise Recruitment Policy		
Government regulation and control of recruitment policy	Absence of maximum limitation of government regulation and control of recruitment policy	Partial government regulation and control of recruitment policy
Functional Tasks of Personnel Management System		
System of personnel training, retraining and development, audit and reporting, personnel appraisal, social functions	Continuous system of personnel training, retraining and development, system of motivation, bonuses, labour potential assessment, personnel marketing	Continuous system of personnel training, retraining and development, system of motivation, bonuses, labour potential assessment, personnel marketing, personnel development, quality of work life and social security
Requirements to Management Potential		
Political orientation	Economic feasibility orientation	Economic and social feasibility orientation

Source: Complemented and adapted by the author at (Kibalyuk, 2006).

Figure 1. Interdependence of the economic system type and requirements to the management potential

This was followed by the transition from the planned economy to the market relations, which caused separation of one of the personnel policy functions – division. Due to the fact that within the transition to the market economy the guiding principle was making maximum profit, personnel development generally lacked attention.

Analysis of the situation in 2013–2019 in the innovation field of the state enables to conclude that in absolute terms the increase in total expenditure on the innovative activity does not have a considerable impact on the continual upward trend in the development of enterprises involved in the innovative activity.

Official statistics confirm that the issues in the development of innovative activities of enterprises lie in the amount of funds and directly in the sources of funding, which are declining, but there remain enterprises that continue to innovate and contribute to the development of the economy, but at the same time it should be remembered that the vast majority of innovation is carried out by enterprises at their own expense.

The main priority for the financial and economic activities of domestic enterprises, which develop under the requirements of the time, must be timely management potential innovative development process because it covers in its essence the substantial percentage of capacity reserve.

Table 1. Enterprise Innovative Activity and Their Expenditure on Innovations in 2013–2020

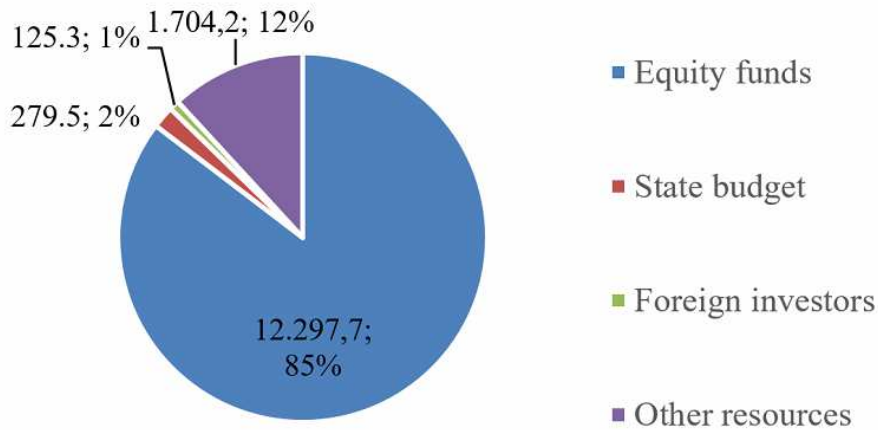
Source: The table was built by the author based on the data (State Statistics Service of Ukraine, n.d.; Pysarenko, Kvasha, Rozhkova, & Kovalenko, 2020).

Year	Share of the number of industrial enterprises implementing innovations in the total number of industrial enterprises, %	Total Expenditure, mln UAH	Of which are funded from, mln UAH			
			Equity funds	State budget	Foreign investors	Other resources
2013	13.6	9.562,6	6.973,4	24.7	1.253,2	1.311,3
2014	12.1	7.695,9	6.540,3	344.1	138.7	672.8
2015	15.2	13.813,4	13.426,8	96.6	179.5	110.5
2016	16.6	23.229,5	22.036,0	179.0	23.4	991.1
2017	14.3	9.117,5	7.704,1	227.3	107.8	1.078,3
2018	15.6	12.180,1	10.742,0	639.1	107.0	692.0
2019	13.8	14.220,9	12.474,9	556.5	42.5	1.147,0
2020	14.9	14.406,7	12.297,7	279.5	125.3	1.704,2

The Table 1 shows that main constituents of total expenditures on innovative activity are equity funds, state budget, foreign investors and other resources. It is seen that each year equity funds are the biggest source of contribution in innovative activity of enterprises. The situation with financing from the state budget is changing to worse. There is a lack of state budget financial support. The share of foreign investors in total expenditure is increasing while it has extremely dropped in 2016. Since 2014 Ukraine doesn't meet a lot of investments from foreign countries. Such situation takes place due to unstable situation in Ukraine. The main reasons of such awareness' are military conflict on the East of Ukraine and ineffectual fight against corruption.

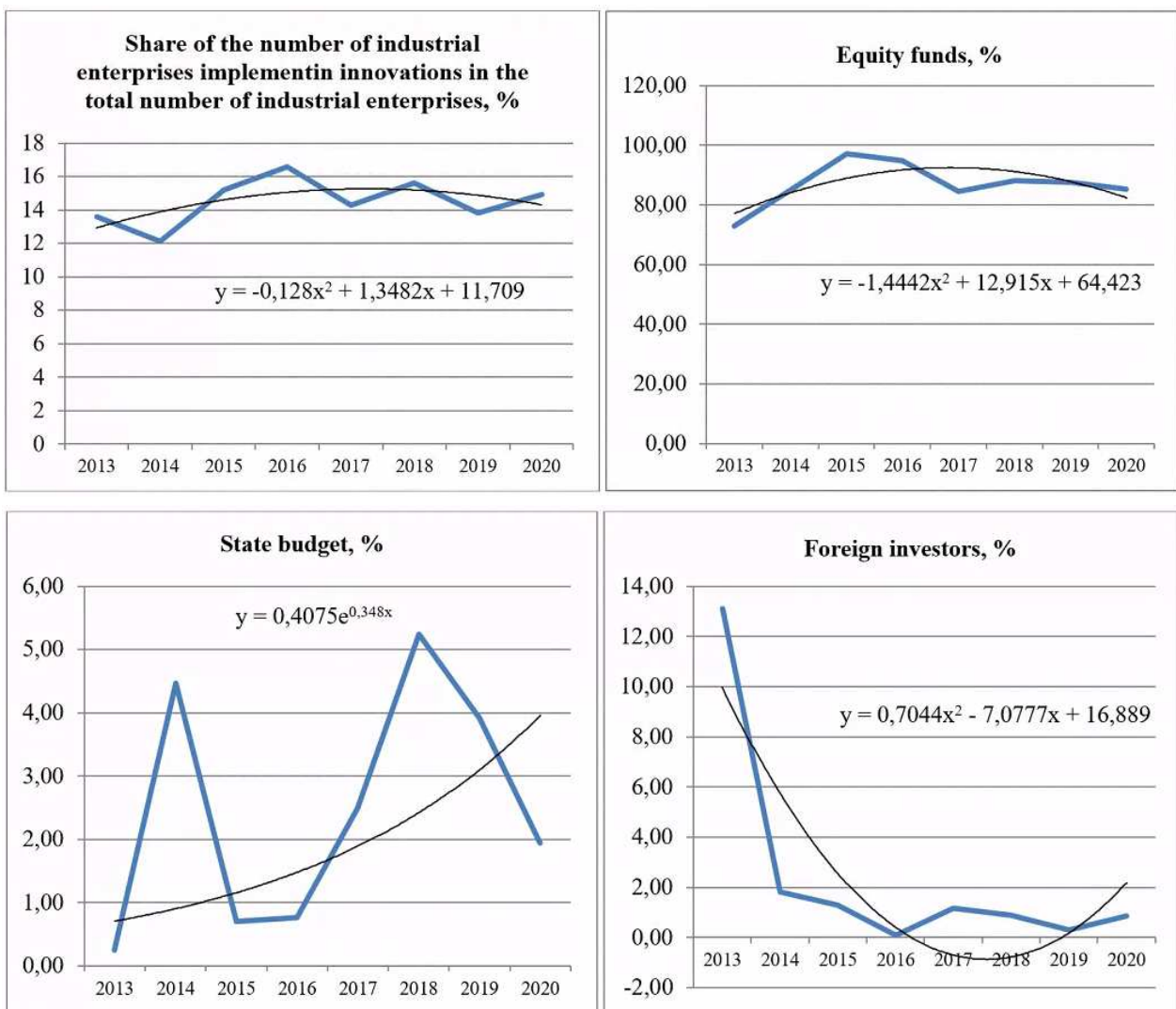
The results of the analysis of the dynamics of the indicators show that the average share of the number of industrial enterprises implement in innovations in the total number of industrial enterprises for period between 2013 and 2020 is at 14.52%. It means that only 14.52% of Ukrainian industrial enterprises are involved in innovation activity. It is important to understand that all innovative activities of enterprises are mainly based on equity funds. There is the lack of financing from other sources. For example, it is possible to build a diagram of total expenditure on innovative activity in 2020 based on Table 1. It will show the difference between sources of innovative activity financing.

It is clear that in the most cases expenditure on innovative activity are funded by equity funds. Foreign investments have been decreasing since 2014. Most of Ukrainian enterprises have not enough resources to invest them in innovative activity, so they have to attract them from the state budgets and foreign investors.



Source: Based on Table 1.

Figure 2. Foundation of expenditure on innovative activity in 2020, mln UAH



Source: Based on Table 1.

Figure 3. Graphic representation of the impact of financing parameters in terms of its individual sources on the dynamics of the total expenditure of domestic enterprises on innovation for the period 2013–2020

A more detailed analysis of the dynamics of the total expenditure of domestic enterprises on innovation (Table 1) allowed to determine the impact of funding parameters in terms of its individual sources on the achieved result. The parameters of the impact in graphical form are presented in Figure 3.

The main cause of such a low level of involving is that financing of scientific research in Ukraine belongs to Fourth wave of innovation. Electronics and microelectronics, automotive industry, non-ferrous metallurgy, oil refining, synthetic polymer materials are the common direction of innovative activity in Ukraine (57.9% of investments). For example, United States of America, one of the strongest economies of the world, invest capital in development of technologies of the Sixth wave of innovation (nano- and biotechnology, nano- energy and etc.). Foreign investors and huge investment companies do not want to invest their capital to the obsolete production areas. That is why we have such a low level of enterprises involved in innovative activity.

At that moment Ukraine has a lot of problems like corruption, dishonest courts, low level of social responsibility and etc. These facts repel foreign investors. There are several possible changes that can help make a difference:

1. The government should create an attractive economic environment for new companies (such as lower taxes for start-ups, tax holidays, free land for building new enterprises and etc.). If they will do it, country meets an increased interest from foreign investors.
2. The government should revise the investments structure. It means that capital should not be invested to the obsolete production areas like ferrous metallurgy and etc. These resources should be invested to the modern and future technologies (such as IT, bio- and nanotechnology and other).

Nowadays, under the conditions of the economy transformation towards social orientation, there is a transition from obsolete enterprise potential management forms to the new management capacity quality management. This will make highlight the main approaches to the quality of management capacity at modern enterprises:

1. Personnel potential reserve formation, which enables personnel selection.
2. Competition on the labor market, which results in the necessity of constant market research as well as research into its infrastructure and forecast.
3. Decrease in investment activity to provide for the survival of present-day businesses, which explains the need in highly skilled management elite.
4. High dynamics of entrepreneurial activity dictates new requirements to the managerial staff, thus it is necessary to upgrade skills.

The primary aim of management potential innovative development is provision of enterprise functional and production systems with the necessary number of workers with the appropriate qualification. In its turn, along with the change in the approach towards innovations, there is the change in the basic principles, provisions and standards of staff performance. However, under any conditions, provision of the high quality of management potential innovative development is one of the basic factors of enterprise efficiency and competitiveness.

The primary need is to focus on the set of measures necessary to provide for the management potential innovative development at a modern enterprise. of management potential innovative development measures must be elaborated at three stages:

1. Elaboration of the basic principles of innovative development.
2. Formation of overall enterprise policy on the basis of organizational and staffing policy (planning the need in management resources, reserve formation, staff formation), information policy (formation and support of the management potential information support system), economic policy (funds allocation principles and management staff efficiency), management staff development policy (elaboration of the sustainable management staff development program).
3. Performance and management potential development efficiency assessment for further elaboration of measures aimed at changing innovative development principles.

In the process of elaborating the measures of management potential innovative development it is worth taking into account external and internal factors influencing directly this potential. The basic rule of forming this system of measures must lie the fact that the company policy in the sphere of management potential efficiency enhancement is the component of the overall company policy, but it is necessary to control the balance between the economic performance and social equity.

Modern enterprises achieve innovative development only under the condition of the availability of certain potential, management potential in particular. It is worth noting that the staff component is of great importance, i.e. personnel have become the main resource. However, complex systemic approach remains essential. In the process of studying the overall category of “innovative development potential”, scholars distinguish the set of interrelated resources and capabilities of their implementation, which define its capacity (intellectual, technological, information, research, economic etc.) to balance internal development opportunities against external ones on the basis of constant search, exploitation and development of new spheres and means of effective current and potential market opportunities implementation (Kibalyuk, 2006).

The basic characteristic feature of management potential innovative development at a modern enterprise (Figure 4) is the necessity to conduct a set of additional measures aimed at adjusting to the current changing environment including wage and labor promotion policy formation, motivation, marketing in the sphere of management personnel, setting enterprise strategic aims and labor policy aims.

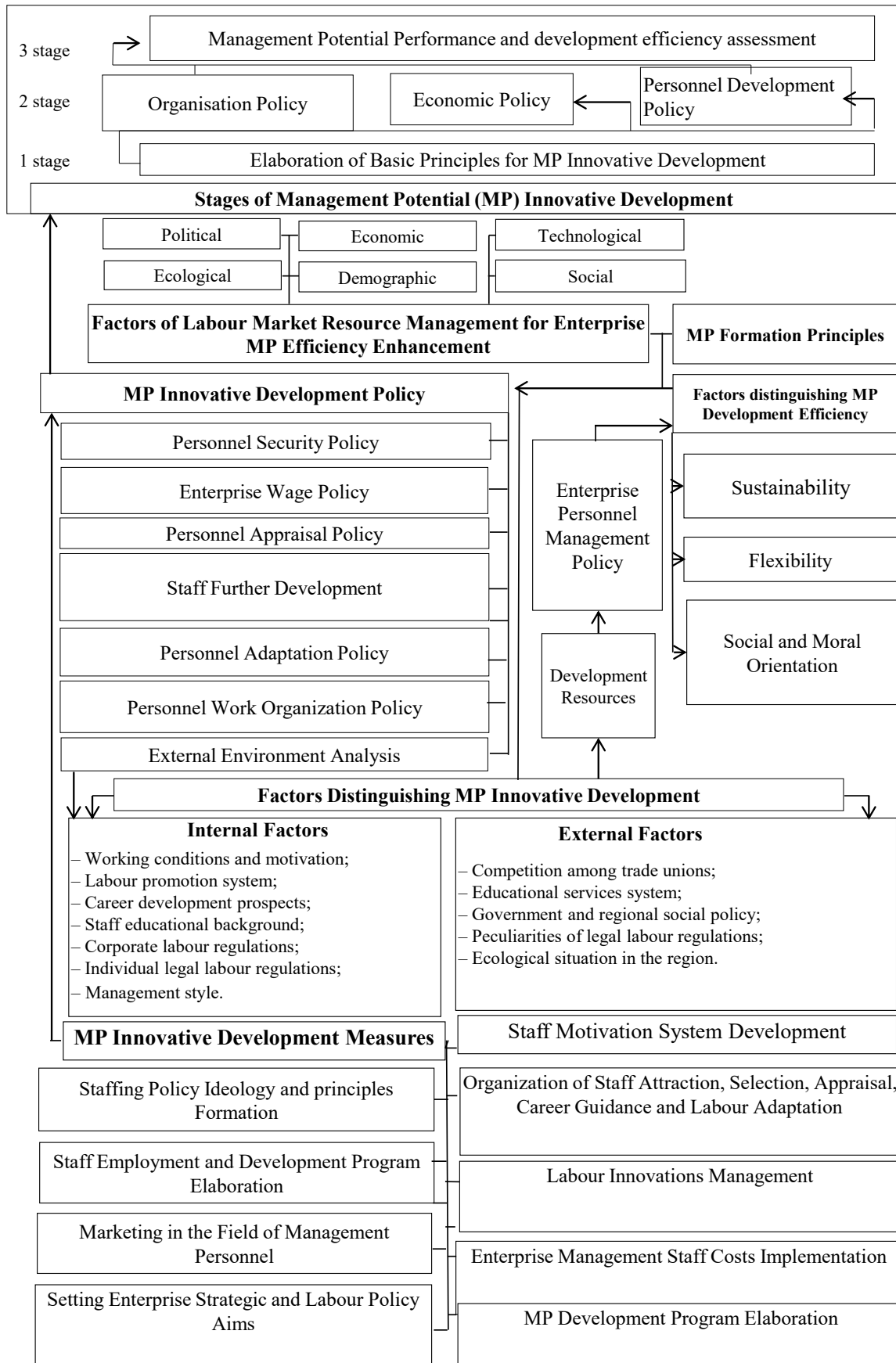
Currently, the management potential of a modern enterprise must meet the following requirements and, correspondingly, solve the given tasks:

1. Are all the available enterprise resources fully used? It is necessary to update the list of its resources, updating and broadening it at the expense of potential (possible) resources and its capabilities.
2. Are there any weaknesses in the resource utilization system? It is necessary to monitor effective resource utilization at an enterprise and regularly reappoint controllers responsible for the resources and results of their implementation.
3. Is innovative development characteristic of the enterprise? It is necessary to implement modern trends and peculiarities of the correspondent economic sphere development.
4. Is the system of staff activity adaptation to the changing economic (operating) conditions applied at an enterprise? Periodic application of mitigation means, techniques and methods of management and other staff adaptation to the changes in the economic conditions, which considerably facilitate implementation of changes and foster innovative development at modern enterprises.

Maximum absolute use of the available enterprise resources as well as the availability of the innovative development focus enable the organization to tap its resources efficiently and gain competitive advantage in the industry in accordance with the enterprise business activity as well as discover new (accompanying) business activities for the enterprise development and activity diversification, eliciting staff potential, which must be the primary task of management personnel at a modern enterprise and fully complies with the innovative development components.

The main problem of the management system of modern enterprises in the process of management potential innovative development is the under run of data updates in accordance with the needs of the economic activity and, primarily, the difficulty of implementing innovations at enterprises due to the lack of funds, time and willingness of both employees and managers.

According to Sabadyrjova (2010), enterprise management potential is the aggregate of interrelated resource system features, management process opportunities and their marshaling under the conditions of enterprise innovative development in order to gain competitive advantage with account taken of the external environment. When studying management potential features, it is worth paying attention to the variables that impact considerably on the enterprise activity (Mazhnik, & Novikova, 2015; Sabadyrova, 2010; Fernandez-Araoz, Roscoe, & Aramaki, 2017).



Source: Author's development.

Figure 4. Peculiarities of Management Potential Innovative Development

Stability of the external environment of enterprise functioning (see Figure 4 for external factors, namely macroeconomic, social, demographic, social norms and standards etc.) that accounts for incoming and outgoing information in the management system.

The results of the research allow to state that the issues of the managerial capacity development of a modern enterprise considered in the article are relevant. The essence distinguished in the article and the basic structure of management potential innovative development measures at a modern enterprise will enable to forecast the main trends of changes in impact factors and achieve the most efficient management potential development by focusing on expanding potential resources and the efficiency of their use. The identified patterns of influence of financing parameters in terms of its individual sources on the dynamics of the total expenditure of domestic enterprises on innovation allow to specify the problem areas in the context of the necessary efforts and allocate available resources of the national economy.

Effective use of managerial capacity, its constant development possible only in the presence of a modern management system with such an important characteristic as the strategic aspect of resource planning. The additional measures of management capacity development proposed in the research, solves the issue of lagging behind the process of updating data in accordance to the needs of economic activity and complexity of implementing innovations in enterprises.

The issue of organizational characteristics forming of managerial capacity and the ability to mobilize explicit and latent competencies to ensure competitiveness, stable operation and continuous development under the current conditions is subject to further research.

AUTHORS CONTRIBUTIONS

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Funding acquisition: Mazhnyk Lidiya.

Investigation: Pysmak Viktoriia, Mazhnyk Lidiya.

Resources: Mazhnyk Lidiya, Sigaieva Tetiana.

Software: Sigaieva Tetiana.

Validation: Mazhnyk Lidiya.

Writing – original draft: Pysmak Viktoriia, Sigaieva Tetiana.

Writing – review & editing: Pysmak Viktoriia.

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