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CONCEPTUAL FRAMEWORK FOR DIGITALIZATION OF DEPRECIATION POLICY

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ABSTRACT

The purpose of this article is to develop a conceptual framework for a common accounting and information space of depreciation policy. First, the authors consider the benefits of total digitalization of the organization and methodological support of depreciation policy process and make some assumptions related to the concept of enterprise's economic data protection. Since the scientific challenge is how to effectively monitor and quickly adjust depreciation policy, the authors have chosen methods to analyze the relations between business, government regulation, and economic data security. In the course of the research, a survey of 376 enterprises of Zaporizhia, Donetsk and Luhansk regions of Ukraine was conducted. In addition, the survey results



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and monitoring of the beta version of depreciation policy's information portal were presented.

To identify impact of the enterprise size on the availability of information about individual

indicators, they are grouped according to the selected system of taxation (simplified and

general). It was also concluded that the accounting indicators can be used to quickly adjust the

depreciation policy at the state level.

Keywords: Depreciation Policy; Public Policy; Digitalization; Information; Accounting;

Reporting; Data Security

1. INTRODUCTION

The process of economy digitalization is not a new area of research. However, the

informatization of depreciation policy, as a process of interaction between enterprises and the

state is a relatively new direction of accounting theory, as well as a new approach to the

perception of depreciation.

In many countries, depreciation policy is usually considered at the micro level, mostly

studying the state of implementation of depreciation policy in the enterprise. Fewer studies are

conducted at the macro level and taking into account industry specifics by analyzing the

technical feasibility of exchanging accounting information. One of the purposes of this article

is to reveal the idea of effective interaction between state and enterprise in the implementation

of depreciation policy and the formation of a conceptual framework of this economic

phenomenon.

2. LITERATURE REVIEW

2.1. Review of the literature on digitalization

Digitalization is commonly understood as a transformation of digital technologies to

optimize and automate business processes, increase productivity and improve communication

with consumers. Currently, there are three areas of research related to this topic.

First area is a study of the digital products special characteristics depending on the focus

of their application. Thus, the recent work by Goldfarb and Tucker (2019) contains an extensive

study of the literature on the digital economy to identify its differences. They emphasize the

reduction of costs associated with search, replication, transportation, tracking and verification.

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In addition, researches by Bakos and Brynjolfsson (1999) study the effectiveness of

grouping a large number of information products, taking into account different properties and

uncertainties. In this context, Goldberg et al. (2001) analyzes the cost-effectiveness of

mechanisms for digitizing economic processes.

At the same time, the research does not touch upon the consequences of digitalization

of the interaction between suppliers and customers, enterprises and the state, does not highlight

the digital aspect of "public policy". This article develops the direction in research of complex

interaction processes of business and state subjects. The paper considers such a separate

element as the depreciation policy from the point of view of efficiency of application with the

use of digital technologies.

Second, there is a lot of literature on information asymmetry, some of which is closely

related to our article. For example, Sobel and Takahashi (1983) and Cramton (1984) developed

a model of interaction of business entities over time. The authors explore the nature of

interaction, strategic behavior and timing of relationships between enterprises.

In this regard, Besanko and Winston (1990) compare the duration and effectiveness of

the interaction, and Hörner and Samuelson (2011) conduct modeling and expand previous

research. In our article, we will analyze the available results of long-term interaction of the

state and enterprises in the implementation of depreciation policy. Consideration of the state

from the angle of a partner unit, rather than a regulatory institution, made it possible to

understand the organizational construction of the concept of digitalization of depreciation

policy.

Third area of research is the justification of potentially necessary accounting data and

the optimal organization of their collection and use. Richard, Lindholm and Hogan (1968)

already emphasize the problems of using existing credentials and the need to form a specific

information array. We confirmed this concept and expanded it based on the surveys of

Ukraine's depreciation policy key stakeholders by adding an organizational mechanism for

interaction and exchange of information. Important in the information approach Klenin (2004)

assigns the relevance of accounting information, without requiring other characteristics and

features that are put forward to the accounting information.

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2.2. Depreciation policy

Keating et al. (1999) considered depreciation policy in the context proposed by the state

of the highest metrological depreciation output. We worked with representatives that were used

for all depreciation support optimization messages and not for policy purposes. At the same

time, they claimed that the reliability changed to the depreciation products that were necessary

spent on R&D. However, other researchers have found that this applies to research and is not

cost-effective (Mead 2007; Okubo, 2006; Sliker 2007; Fixler 2009). In this article, we as well

focused on the organizational component of the depreciation policy implementation.

The purpose of this article is to develop a conceptual framework for a common

accounting and information space of depreciation policy.

3. METHODS OF RESEARCH

3.1. Measures to assess the reality of the depreciation policy implementation

Since the scientific problem is how to assess the effectiveness of depreciation policy

and what impact the processes of digitalization of the economy have on its formation, first, it

is necessary to choose what indicators we should use to assess the effectiveness of depreciation

policy. The main indicator of the effectiveness of depreciation policy is the fact of renewal of

fixed assets at the expense of own financing sources, increasing the efficiency of financial and

economic activities. The production structure of the labor means, performance indicators of the

enterprise and its financial statements are directly dependent on the strategic direction of

depreciation policy. Scholars in assessing the effectiveness of depreciation policy use mostly

the same indicators:

1) Determination of the optimal production, age and cost structures of fixed assets;

2) Forecasting the useful life of fixed assets;

3) Forecasting future economic benefits from the use of fixed assets;

4) The choice and optimal combination of permitted depreciation methods;

5) Valuation of fixed assets from the standpoint of depreciable value and liquidation value;

6) The choice of the most effective forms of reproduction of fixed assets and capitalization

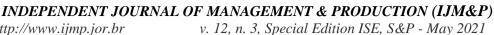
of depreciation.

In the course of the research, a survey of 376 enterprises of Zaporizhia, Donetsk and

Luhansk regions of Ukraine was conducted according to the listed indicators. To identify

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impact of the enterprise size on the availability of information about individual indicators, they are grouped according to the selected system of taxation (simplified and general).

We used these indicators exclusively for compiling questionnaires when testing the software product to ensure the digitalization of depreciation policy.

3.2. Measures to monitor the effectiveness of depreciation policy

The betta version of the investment portal of the Melitopol city was used as a monitoring system, as part of the work on which the instrument of depreciation policy was modeled. The developed software environment brought together authorities, entrepreneurs and representatives of fiscal structures. We understand that large-scale implementation of the monitoring system requires time, money and other resources, but in turn ensures the achievement of expected results.

4. RESULTS OF THE RESEARCH

First, we investigated what information is needed to conduct a depreciation policy in accordance with the specified criteria for its effectiveness. Then we determined the availability of such information in the standard forms of statistical and financial reporting of enterprises.

At the same time, we conducted a survey on these indicators of the selected group of enterprises. This allowed us to specify the direction of the study of the effectiveness of depreciation policy and focus on the most important part of fixed assets in the development of the framework (see Figure 1).

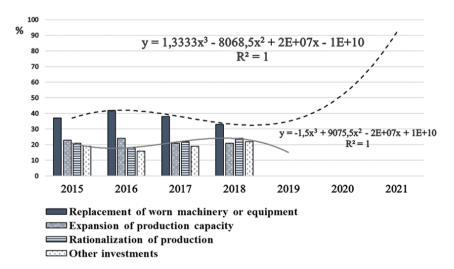


Figure 1: Modeling the dynamics and structure of investments to specify the terms of the conceptual framework reference for digitalization of depreciation policy

Source: developed by the authors







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Questionnaires of accounting experts and experts from the state regulation sector helped us to understand at what stages of information processing the problem of its insufficiency arises. At the same time, we found out the optimal level of regulatory policy intervention in the economic independence of enterprise in the development of depreciation policy.

These conclusions were based solely on expert opinion, as there are currently no facts of such operational interaction (see Figure 2).

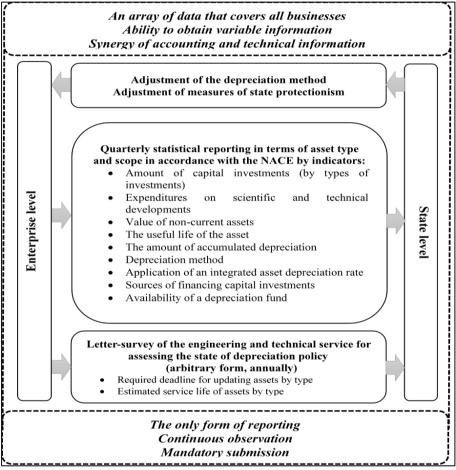


Figure 2: Depreciation policy accounting and information support system Source: developed by the authors

To optimize the exchange of information in the implementation of depreciation policy, it was suggested to develop a conceptual framework.

At the same time, it solved the problem of setting a technical task for the development of a software product for the digitalization of the information exchange process and the formation of an array of data for the operational regulation of depreciation policy (see Figure 3).





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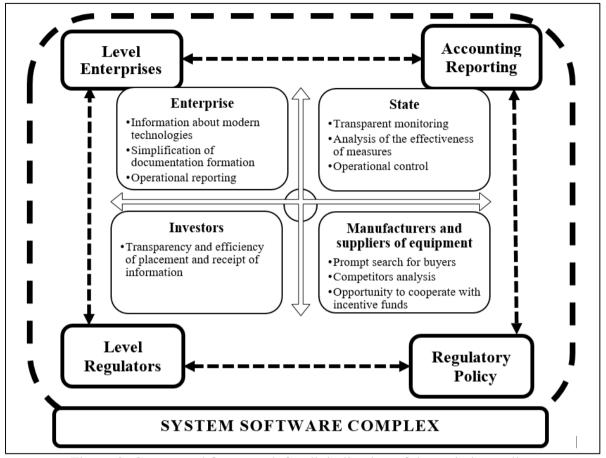


Figure 3: Conceptual framework for digitalization of depreciation policy Source: developed by the authors

The developed conceptual framework of depreciation policy was tested in the regional project "Investment map of Melitopol", which was initiated by Melitopol City Council of Zaporizhia region in cooperation with NGOs and producers in the region to establish a systematic dialogue between government and business. The study of the economic background and information content was conducted with the assistance of the public organization "Innovation and socio-economic initiatives".

The result of this cooperation was a betta version of the interactive map of the region as part of the digitalization of depreciation policy. Such a software product was offered to companies and is currently being tested. For Ukraine, this form of interaction between state regulators and enterprises that are interested in technical re-equipment and ready for open cooperation is new. Discussion of such a concept is currently carried out in the methodological, technical and user areas.



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5. CONCLUSIONS

The authors reviewed the literature on the digitalization of the economy and the

implementation of depreciation policy. Different approaches to the principles of organization

of interaction between the state and business entities allow us to make some assumptions

related to the concept of digitalization of depreciation policy. First, depreciation policy cannot

be separated from the general trends of digitalization of society. Second, depreciation policy at

the macroeconomic level cannot be effective solely through the components of the depreciation

methodology, such as depreciation methods, useful lives, asset values. A simplified

understanding of depreciation policy as an accounting operation with a fixed algorithm is no

longer relevant or effective.

The authors also described the trends of digitalization of the economy, creating a

general structure for the disclosure of its interaction with.

Since the scientific problem is how to assess the effectiveness of depreciation policy

and what impact on its formation have the processes of digitalization of the economy, the

authors chose which indicators should be analyzed when assessing the effectiveness of

depreciation policy. Performance evaluation indicators, which are most popular in various

scientific studies, were presented.

As the selected indicators are not present in the standard statistical and financial reports

of Ukrainian enterprises, the authors transferred them to the created questionnaire

(questionnaire form). This form was used in the creation of the betta version of the software

complex of the investment portal of the city of Melitopol, which has in its components exactly

those instruments of depreciation policy that can be used in the scale of national digitalization

of depreciation policy.

To set the technical task of such a complex, a conceptual framework of a single

accounting and information space of depreciation policy has been developed. The technical

task outlines the functionality of the software package, requirements for users and generators

of information, terms, forms and methods of filling the information environment,

organizational mechanisms of interaction of the participants of the proposed space.

The main conclusion of the research results is that in the information society the

efficiency of economic processes increasingly depends not on the methodological tools, but on

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the organization of data exchange. Operational analysis and feedback also play an important role in shaping an effective depreciation policy.

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