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# INFORMATION SECURITY OF THE NATIONAL ECONOMY: ASSESSMENT AND STRATEGIC GUIDELINES FOR ENSURING

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OF THE NATIONAL ECONOMY:  
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## PREFACE

The war initiated by the Russian Federation has a devastating impact on Ukraine's national economy and economic security, leading to infrastructure destruction, elimination of production capacities, reduced economic activity, and catastrophic human capital losses. These existential challenges have transformed the global economic development paradigm and intensified global transformation processes aimed at protecting fundamental civilizational values.

In today's digitalized world, attacks on digital infrastructure are an integral component of military actions, as they have a destructive socio-economic impact, impede effective resistance, and exhaust state resources. Generating threats in the digital sphere typically requires comparatively minimal expenses and minimal risks for the attacking side, while potentially causing extensive economic losses. Therefore, under conditions of accelerated digital transition, Industry 4.0 technology development, deepening economic digitalization, and growing risks in the information space, ensuring the information security of the national economy becomes of particular relevance and strategic significance.

The primary objective of this monograph is to enhance the theoretical and methodological foundations for assessing the information security level of the national economy and provide scientific substantiation of strategic guidelines for its provision under global challenges. The overall logic and structure of the monograph, consisting of three interconnected parts (chapters), are subordinated to this goal.

The first chapter, "Information security as a component of national security: modern theories and concepts", chronologically presents the essential characteristics of information security in the national economy within the national security system, systematizes threats in the information sphere, and outlines their impact on the country's economic system. The approaches to developing a security-oriented information environment in the context of Industry 4.0 are comprehensively summarized.

The second chapter, "Information security of the Ukrainian economy: state and trends", is dedicated to evaluating the information security level of the national economy using Ukraine as an example. The study identifies trigger points of information security's influence on the economic security of the national economy, improves methodological approaches to assessing the information security level, analyzes Ukraine's information security status, and characterizes contemporary trends.

The third chapter, "Strategic priorities for strengthening information security of the Ukrainian national economy", defines the concepts of protecting national interests

in the global information environment, generalizes international experience in minimizing the negative impact of information threats, and proposes conceptual foundations for determining strategic guidelines of state policy ensuring information security of Ukraine's national economy.

The significance of the conducted research lies in demonstrating the systemic interconnections and mutual influences of information and economic security, their synergetic effects on Ukraine's national security, substantiated by empirical calculations. The presented proposals for developing scientifically grounded and expert-approved approaches to forming the information environment of societal relations based on secure development principles constitute a fundamental basis for protecting national economic interests during war and post-war restoration, considering the specifics of Industry 4.0 emergence and Industry 5.0 principles.

The monograph is intended for scientists, teachers, students, government officials, and a broad readership interested in current issues of ensuring national economic information security in Ukraine.

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