Post-War Recovery of Regional Economies Through the Development of Financial Infrastructure

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DOI: https://doi.org/10.32782/2707-8019/2025-1-4

Abstract. *The article examines the conceptual underpinnings of the formation, functioning and restoration of financial infrastructure as a systemic element of the economy, particularly in the post-crisis period. The key role of financial infrastructure in ensuring the stability of the economic system, maintaining financial flows and stimulating economic growth in the midst of significant transformation challenges is highlighted. The analysis focuses on the relationship between institutional and regulatory barriers, which have a significant impact on the efficiency of financial institutions and markets. The institutional issues that have been identified are as follows: the fragmentation of financial flows; a low level of coordination between state and regional financial institutions; the limited ability of financial institutions to respond quickly to crises; insufficient integration of international standards; and weak communication among actors within the financial system. Of particular pertinence are the regulatory barriers that impede the recovery of financial infrastructure, such as the instability of the regulatory environment, the over-regulation of procedures, the absence of long-term regulatory strategies, and a lack of transparency in regulatory decisions. The article considers the consequences of these issues, including a slowdown in economic rehabilitation, a decline in trust in financial institutions, a shortage of investment resources, and increased risks to financial stability. The author puts forward a number of recommendations for overcoming these barriers, including the reform of financial institutions to enhance their capacity, the harmonisation of legislation with international standards, the digitalisation of financial processes, the development of public-private partnership mechanisms, and the promotion of financial inclusion. The importance of implementing innovative technologies, such as automated financial flow monitoring systems and platforms for integrating financial institutions into a unified ecosystem, is emphasised. The conclusions may serve as a theoretical basis for further research in the field of economics and finance, as well as be used to develop practical recommendations for reforming Ukraine's financial system in the context of post-crisis recovery.*

Keywords: *financial infrastructure, post-crisis period, institutional challenges, regulatory constraints, economic stability, economic recovery, financial institutions, public-private partnership.*

JEL Classification: *E61, G28, H54, O16, R11*

1 Introduction

The present phase of Ukraine's developmental trajectory is distinguished by profound transformational processes, precipitated by post-war challenges that have exerted a substantial impact on the regional economy and financial system. The destruction of infrastructure facilities, economic disintegration, and the decline in the financial capacity of territorial communities have created an urgent need to identify effective mechanisms for regional recovery. Of particular note is the role of financial infrastructure in this context, given its capacity to influence the broader economic environment and underpin sustainable development. The fragmentation of financial resources, the asymmetric distribution of budgetary flows, and the lack of investment present substantial obstacles to the integration of regions into the national economy. Consequently, the development of financial infrastructure emerges as a pivotal element in fostering financial stability within communities, catalysing entrepreneurial activity, and enhancing access to financial resources. Concomitantly, this process necessitates institutional restructuring, the adoption of innovative financial instruments, and the incorporation of international experience in rebuilding post-conflict economies. The establishment of financial and budgetary mechanisms with the objective of supporting the socio-economic recovery of regions necessitates comprehensive approaches to resource management. Such mechanisms must take into account the structural features of territorial communities, the need for stable financing of infrastructure projects, and the minimisation of budget deficit risks. The development of financial infrastructure is therefore pivotal in establishing the foundations for the long-term economic stability of regions and their effective adaptation to new socio-economic realities.

2 Research Objective and Methodology

The purpose of this article is twofold: firstly, to define the conceptual framework, and secondly, to analyse institutional and regulatory constraints. The third aim is to substantiate the prospects for overcoming barriers in the process of restoring financial infrastructure as a key factor of economic stability and development in the post-crisis period. A methodological approach was employed that combined theoretical analysis with a systematic perspective on financial infrastructure. The theoretical foundation of the study is rooted in the principles of institutional economics, a body of thought that facilitates the identification of institutional barriers affecting the financial system. In addition, regulatory theory is utilised to assess the effectiveness of legal and regulatory frameworks in post-crisis conditions. The systemic approach enabled the examination of financial infrastructure as a multi-component system, incorporating institutional, regulatory, technological, and socio-economic aspects. The synthesis and generalisation of methods were then applied to formulate recommendations for overcoming the identified institutional and regulatory constraints in the restoration of Ukraine's financial infrastructure.

3 Conceptual Content and Role of Financial Infrastructure in the Post-Crisis Economy

Modern economic thought acknowledges the pivotal role of financial infrastructure as the foundation for the functioning of economic systems, particularly during post-crisis restructuring. Financial infrastructure can be defined as a set of institutions, instruments, markets and mechanisms that ensure the effective allocation of financial resources, the stability of the economic environment, and the support of sustainable development. The significance of financial infrastructure is further accentuated during periods of economic turbulence, when economic systems encounter imbalances, structural disruptions, and shortages of financial resources.

In the aftermath of the crisis, financial infrastructure functions as a catalyst for economic recovery, thereby facilitating the reintegration of regional economies into the national system. The development of the institutional environment, the improvement of financial instruments, and the adoption of innovative approaches to financial flow management are essential conditions for successful economic restructuring. Financial infrastructure plays a systemic role by providing a basis for restoring investment attractiveness, attracting capital, and stimulating business activity.

In response to the challenges posed by globalisation, digitalisation, and the growing influence of international financial institutions, there is a necessity to evolve the conceptual understanding of financial infrastructure. This necessitates a revision of traditional perspectives on its structure and functions. The integration of modern technologies, the expansion of access to financial services, and the enhancement of transparency in financial flows have become the new focal points in this field. Consequently, an examination of the role and content of financial infrastructure in a post-crisis economy is significant not only for theoretical analysis but also for the development of practical recommendations aimed at stabilising and advancing Ukraine's economy.

Financial infrastructure is a pivotal component of economic systems, ensuring their resilience, equilibrium, and adaptability to internal and external changes. A broad definition of financial infrastructure encompasses financial institutions, market mechanisms, regulatory structures, and informational and technological components that facilitate the efficient movement, distribution, and utilisation of financial resources within the national economy (Skoryk, 2021). It is important to note that financial infrastructure serves a foundational function, akin to the “circulatory system” of the economy, since financial resources are essential for all forms of economic activity.

Beyond its foundational role, financial infrastructure also serves as a strategic instrument for economic management. It is used to allocate investment resources across economic sectors, finance innovation, provide credit to enterprises and individuals, and collect and redistribute budgetary funds. The efficiency of financial infrastructure directly influences the pace of economic growth, the stability of the financial system, and the general welfare of the population.

A notable characteristic of financial infrastructure is its complex, multi-tiered structure. Its principal components include the following:

1. Financial institutions: banks, non-bank financial entities (such as insurance companies, pension funds, and investment funds), stock exchanges, and payment systems. These provide financial services, mobilise capital, and manage risks.
2. Financial markets: capital, credit, foreign exchange, and derivatives markets, which constitute the arena where financial supply meets demand;
3. Regulatory framework: laws, regulations, and policies enacted by central banks, governments, and international financial organisations, providing legal certainty and transparency in financial activity.
4. Information technology systems: payment platforms, financial data processing tools, and automated accounting and reporting systems that enhance the speed and accuracy of transactions.
5. Financial infrastructure also operates as a channel for macro-economic policy implementation via monetary and fiscal instruments. For example, central bank tools such as policy rates or open market operations function through financial infrastructure, influencing liquidity, credit activity, and overall economic performance.

Moreover, financial infrastructure facilitates the conversion of savings into investment, a fundamental condition for economic growth.

Its importance is heightened in periods of economic instability and crisis. Financial infrastructure performs a stabilising function by maintaining confidence in the financial system through the assurance of reliable transactions, market liquidity, and uninterrupted access to financial resources. In periods of economic turbulence, characterised by heightened liquidity risks, diminished solvency, and escalating default rates, financial infrastructure functions as a critical safeguard against the propagation of systemic threats.

Furthermore, financial infrastructure is a crucial determinant of a country's investment appeal. A well-developed, transparent, and dependable financial infrastructure fosters favourable conditions for both domestic and foreign investors. It mitigates financial risks, bolsters confidence in the national economy, and enhances global competitiveness. In the context of Ukraine, this issue assumes particular significance in light of the urgent need to revitalise the economy in the aftermath of the war.

The influence of financial infrastructure is not confined to the economic sphere. Indeed, it also plays a social role by promoting financial inclusion, improving financial literacy, and widening access to financial services across the population. This, in turn, contributes to the alleviation of social inequality, the alleviation of poverty, and the fostering of more equitable economic participation.

The financial infrastructure is thus a fundamental component of the economy, given its central role in ensuring financial flows, maintaining economic stability and promoting growth. The conditions in which it operates determine not only economic indicators, but also quality of life and the potential for business development. Its adaptation to evolving challenges and the integration of innovative solutions are crucial to strengthen the resilience of the economy in the face of global uncertainties.

Financial infrastructure is among the most sensitive components of an economic system to both internal and external shocks. A plethora of global economic upheavals, political instability, military conflicts, pandemics, and environmental disasters have been shown to profoundly impact its functioning, engendering numerous challenges to its stability, liquidity, and overall efficiency (Skoryk, 2023).

The major crisis-induced challenges include:

1. Economic instability and imbalances. Crises have been shown to disrupt macroeconomic equilibrium, influencing financial infrastructure through inflationary pressures, liquidity shortages, and declining solvency among businesses and households. Consequently, financial flows become fragmented, the proportion of non-performing loans increases, and financial institutions face a loss of public confidence.
2. Liquidity and financial stability risks. Crises disrupt the circulation of money across economic sectors, threatening the stability of financial markets and the banking sector. Reduced stock market capitalisation, currency depreciation and reduced access to international funding severely hamper the operations of financial institutions.
3. Impact of military conflicts and force majeure events. In times of war, the financial infrastructure faces additional risks such as physical destruction of banking facilities, reduced access to financial services in affected regions, increased security expenditures and reduced investment activity. This requires rapid response mechanisms to maintain a minimum level of financial transactions.
4. Social dimensions of financial challenges. Crises often lead to social tensions, lower incomes and reduced consumption, which have a direct impact on the financial infrastructure. Reduced demand for financial services and credit hampers the recovery of economic activity.

While crises expose the vulnerabilities of financial infrastructure, they also create opportunities for its modernisation. Key development directions should include the following:

expanding financial inclusion through accessible and digitised financial services;

increase transparency of transactions through the use of financial technology and improved capital controls;

strengthening the institutional framework by creating reserve funds and rapid response mechanisms;

development of new forms of financial support for small and medium-sized enterprises, which are critical drivers of economic recovery.

It is evident that crises present considerable challenges to financial infrastructure; however, they can also act as catalysts for innovation, thereby strengthening resilience and adaptability. The effective management of such transformations is therefore of paramount importance in ensuring that the adverse consequences of crises are mitigated and the long-term sustainability of the financial system is assured.

4 Institutional and Regulatory Constraints on Financial Infrastructure Recovery

The restoration of financial infrastructure in a post-crisis context is a multidimensional process dependent not only on economic resources but also on institutional and regulatory factors. The effective operation of financial infrastructure necessitates a clearly defined legal framework, stable regulatory mechanisms, and capable institutions that can respond promptly to emerging challenges. However, in post-crisis environments, these components are often weakened or insufficiently adapted.

Institutional constraints include poor coordination among key financial institutions, limited capacity of state institutions to effectively regulate financial flows and maintain market stability, and insufficient integration of international standards into domestic legislation (Mokii, Pavlikha, Naumenko & Datsko, 2018). Additional complications arise from the fragmentation of the financial system, which limits its flexibility and hinders the equitable distribution of resources.

Regulatory constraints are comprised of three factors: excessive procedural complexity, outdated legislative norms, and an unstable legal environment. These factors have a detrimental effect on investment and result in the delay of the introduction of modern financial instruments. Weak transparency and insufficient oversight of financial flows also heighten systemic risks.

The recovery process is significantly hindered by these institutional and regulatory constraints, which slow rehabilitation efforts and create additional threats to long-term financial stability. Consequently, the modernisation of institutional and legal frameworks, the alignment of these frameworks with international standards, and the introduction of mechanisms to enhance transparency and efficiency are imperative preconditions for the sustainable development of Ukraine's financial system.

The process of restoring financial infrastructure is influenced by a range of interconnected institutional and regulatory issues that ultimately determine the speed, efficiency, and durability of economic recovery. Institutional issues are related to the organisation, governance, and coordination of financial institutions, while regulatory constraints pertain to the legal and policy frameworks that define the operations of the financial system.

The key institutional and regulatory challenges and their impact on financial infrastructure are outlined below (Table 1).

Overcoming institutional and regulatory barriers to financial infrastructure recovery requires a strategic and systematic approach aimed at addressing existing shortcomings and establishing a robust framework for the financial system in post-crisis conditions (Pavliuk, 2019). A key priority is the reform of financial institutions, which involves strengthening organisational capacity, modernising management practices and adopting advanced technologies. These improvements will enable institutions to respond more effectively to challenges, provide a high standard of financial services, and maintain market stability even under crisis conditions.

It is imperative to emphasise the necessity of enhancing coordination between central and regional financial institutions. Enhanced co-operation would facilitate more effective management of financial flows and contribute to the reduction of regional disparities.

A further critical step in this process is the harmonisation of national legislation with international standards. The incorporation of global best practices will facilitate the establishment of a transparent legal framework, attract foreign investment, and mitigate regulatory risk. Alignment of national regulations with the standards of international financial institutions such as the International Monetary Fund, the World Bank, or the European Bank for Reconstruction and Development will position Ukraine's financial system to meet the demands of global integration.

In addition, regulatory reform should concentrate on the simplification of administrative procedures related to licensing, reporting, and access to financial services. Outdated and overly complex regulations must be replaced with more adaptive and efficient mechanisms that reflect the dynamics of the financial market, particularly in the post-crisis period (Pavlovych-Seneta, 2022).

Table 1 Institutional challenges and regulatory constraints in the development of financial infrastructure

Problem area	Key challenges	Impact on financial infrastructure
Institutional challenges		
Instability of the institutional environment	Low coordination between central and regional financial institutions	Delays in the allocation of financial resources
	Lack of a long-term strategy for financial infrastructure development	Decreased efficiency in managing financial flows
Limited capacity of financial institutions	Shortage of qualified personnel due to the crisis	Increased risks of institutional bankruptcies
	Limited access to capital for refinancing	Loss of trust in financial institutions
Weak integration of international standards	Absence of harmonisation of national regulations with international standards	Difficulties in accessing external financing
Fragmentation of financial flows	Local isolation of financial resources within communities	Deficit in funding for key sectors
	Insufficient circulation of resources between economic sectors	
Regulatory constraints		
Excessive regulatory burden	Complex procedures for obtaining licences and permits for new financial institutions	Hindrance in the development of new financial instruments
	High level of bureaucracy	
Inconsistency of the regulatory framework	Outdated legislative norms that fail to address contemporary challenges	Complications in the functioning of financial institutions under modern conditions
Instability of the legal environment	Frequent changes in legislation	Loss of trust from investors and financial institutions
	Lack of transparency in regulatory decisions	
Insufficient control over financial flows	Low efficiency in monitoring capital flows	Increase in risks of illicit financial activities
Restrictions on access to international markets	Absence of incentives to attract foreign capital	Slowdown in the inflow of foreign investments
	Difficulties in meeting the requirements of international investors	

Source: compiled by the author

Furthermore, it is essential to ensure the stability of legal norms to avoid frequent legislative changes that undermine legal certainty and discourage investment activity.

Institutional weaknesses can be mitigated through the implementation of digital technologies in the financial sector. The development of digital infrastructure, the automation of financial transactions and the introduction of blockchain-based systems will improve transparency, reduce corruption risks and lower administrative costs. Digital tools will also help expand access to financial services, particularly in underbanked or remote regions.

The development of public–private partnership mechanisms has considerable potential in overcoming existing barriers. Through the integration of public oversight with private investment, such collaborative endeavours can facilitate the financing of large-scale infrastructure projects, while the state provides regulatory support and guarantees.

It is imperative to enhance transparency and efficiency in the oversight of financial flows. The deployment of modern monitoring technologies, the establishment of unified databases for the tracking of transactions, and increased collaboration with international organisations will serve to reduce the prevalence of illicit financial activities and thereby foster trust in the financial system.

It is asserted that the implementation of these measures will contribute to the establishment of a sustainable financial infrastructure, which will be capable of supporting economic development, even in the face of severe global and domestic challenges.

5 Conclusions

Financial infrastructure is a foundational element of the economy, contributing to its resilience, efficiency, and adaptability in the face of change. In the post-crisis period, the significance of financial infrastructure increases substantially, as it becomes a key instrument for restoring economic stability, stimulating investment activity, and supporting regional development.

Nevertheless, this process is impeded by a range of institutional and regulatory barriers that retard economic recovery and pose additional risks to the financial system. Institutional challenges encompass an unstable organisational environment, limited integration between central and regional institutions, and inadequate co-operation between public and private sector entities. Concurrently, regulatory constraints manifest as, for instance, excessive procedural requirements and legal instability. In addition, legislation is identified as lacking in its response to current needs, thereby impeding the development of financial infrastructure and hindering capital attraction.

In order to address these challenges, a comprehensive strategy is required that integrates institutional reform, regulatory optimisation, the application of innovative solutions, and enhanced international collaboration.

It is imperative that strategic priorities encompass the harmonisation of national legislation with international standards, the development of digital technologies, the simplification of regulatory procedures, and the expansion of access to financial services. Furthermore, the mobilisation of resources from international financial institutions and the advancement of public–private partnership frameworks will be essential for financing critical projects.

In summary, the removal of institutional and regulatory constraints is a prerequisite for the establishment of a stable, transparent, and effective financial infrastructure. The establishment of such a foundation will support sustainable economic development, foster greater financial integration, and restore confidence in the financial system at both domestic and international levels. The successful implementation of these objectives will form the cornerstone for constructing a resilient financial ecosystem capable of sustaining Ukraine's economy through the challenges of the post-crisis era.

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