

# Blockchain as the Component of the Macro-Generating Cluster of the Sixth Technological Mode

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## Abstract

The modern economic system is characterized by the successive replacement of the Fifth Technological mode by the Sixth Technological mode. The specificity of the Sixth technological mode is the predominance of system-integrating and macrogenerating clusters in its structure. The dominant cluster is the supercluster of telecommunications and digital technologies. Blockchain is a component of this supercluster. Blockchain is a technology with a special mechanism of diffusion into existing economic systems, which can be described in terms of actor-network theory. The corresponding diffusion mechanism includes the following elements: (1) making the new technology obvious, (2) creating a contrast between the complexity and volumes of the preliminary research and the simplicity of the proposed technology, (3) achieving credibility through the simplicity and visualization of the technology, (4) ensuring inequality of opportunities between those who are supporters of the technology and its opponents, (5) a high level of trust in the creator of the technology, (6) the creation of an actor-network structure around the technology. The paper analyses the data components in relation to blockchain technology.

**Keywords:** blockchain, technological mode, macrogenerating cluster, actor-network theory, cryptocurrency, evolutionary economics, INT (STS)

## I. INTRODUCTION

The theory of economic disequilibrium states that disequilibrium processes in the economic system are normal, while economic equilibrium should be considered a local and time-limited state. However, economic science continues to adhere to the paradigm of equilibrium, despite the fact that the theory of general economic equilibrium does not agree with empirical data for a number of factors [1] and does not satisfactorily model such large-scale changes as the change of technological modes, the birth, development and fading of industries, and dissipation of new technologies [2, 3].

Events of recent decades in the global economy demonstrate an increasing discrepancy between traditional economic paradigms, models, and approaches to the real processes that are developing in it. Moreover, new technologies emerging within the framework of the Sixth Technological mode are rejected by the existing financial and economic structures: they are considered as a threat to their current state.

Under these conditions, a transition to more adequate socio-economic disequilibrium models is necessary.

## II. METHODS

The main point of the economic disequilibrium theory is that disequilibrium processes are a normal state of the economic system, and the equilibrium state is reached for a short period of time and is not decisive for the overall development of an economic system.

Demand and supply in this case not only does not depend on prices, as it is postulated in the framework of the general economic equilibrium theory, but, on the contrary,

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