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Digitalization, Decentralization, and the Future of Economic Coordination: A Conceptual Framework for Post-Platform Economies

Dr Priyanka Goel[1], Dr Geetanjali Gupta[2], Dr. Richa Dabas[3],Dr. Veena Panjwani[4]

[1] Professor, Department of Management, JIMS,
Email ID: Priyanka.goel@jimsindia.org
[2]Assistant Professor, Department of Commerce, Maharaja Agrasen Institute of Management Studies,
Email ID: geetanjali.maims@gmail.com
[3]Associate Professor, Department of Management, Jagan Institute of Management Studies, Sector-5, Rohini, Delhi,
Email ID : richa.dabas@jimsindia.org , richadabas@gmail.com
[4]JIMS, Associate Professor, Department of Economics,
Email ID : Veena.panjwani@jimsindia.org

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ABSTRACT

The rapid digitalization of economic systems, combined with the emergence of decentralized technologies, is fundamentally reshaping the mechanisms of economic coordination. Traditional models rooted in centralized market-making and state-mediated regulation are increasingly inadequate in explaining the dynamics of digitally-mediated, peer-to-peer, and trustless economic exchanges. This paper develops a conceptual framework to understand how digital infrastructures—such as blockchain, smart contracts, and decentralized autonomous organizations (DAOs)—are transforming economic coordination mechanisms across markets, institutions, and labor systems.

Drawing upon institutional economics, transaction cost theory, and digital platform studies, we synthesize emerging literature to conceptualize the shift from centralized coordination (via firms and governments) toward algorithmically enabled decentralization. We also explore how trust, reputation, and governance are redefined in this evolving landscape. The framework identifies three key dimensions—technological mediation, governance decentralization, and value reallocation—that collectively redefine coordination costs, ownership structures, and economic agency.

Our model contributes to the growing discourse on post-platform capitalism by offering a structured lens to analyze the trade-offs and opportunities presented by decentralized digital economies. We conclude by outlining theoretical and policy implications, particularly for regulation, taxation, and inclusive innovation, and propose directions for empirical testing in future research.

1. INTRODUCTION

1.1 Background and Context

Economic coordination—the set of mechanisms and institutions that organize economic activities—has historically relied on centralized actors such as firms, markets, and governments (Coase, 1937; Williamson, 1985). The state has long functioned as the primary regulator of economic activity, while firms have emerged as dominant entities coordinating production and distribution through hierarchical control and formal contracts.

However, this classical model of economic coordination is undergoing a radical transformation. The emergence of digital technologies, platform economies, and more recently, decentralized digital infrastructures, is reshaping how economic actors

interact, transact, and cooperate. At the core of this shift is the progressive disintermediation of traditional institutions through algorithmic governance and trustless systems (Catalini & Gans, 2016; Atzori, 2015).

The transition began with the platformization of the economy—where digital intermediaries like Amazon, Uber, and Airbnb created scalable ecosystems to match supply and demand, reduce transaction costs, and extract data-driven value (Kenney & Zysman, 2016). Platforms introduced new forms of coordination based not solely on price signals or hierarchical planning, but on **algorithmic matchmaking, network effects, and user behavior analytics** (Srnicek, 2017). While platform capitalism increased efficiency, it also concentrated market power, reinforced data asymmetries, and created new forms of labor precarity (Zuboff, 2019).

Today, **a new wave of decentralization is emerging**—propelled by blockchain technologies, smart contracts, and Decentralized Autonomous Organizations (DAOs). These innovations challenge both market and firm-centric models by enabling **peer-to-peer coordination** without reliance on centralized authorities or legal contracts (Buterin, 2014; Davidson, De Filippi, & Potts, 2018). The resulting shift has been referred to as a move toward a "post-platform economy" (Rozas et al., 2021), where protocols replace platforms, and trust is embedded in code.

1.2 Problem Statement

While digitalization has been studied extensively in the context of economic growth, innovation, and labor dynamics, **its implications for the structure of economic coordination remain under-theorized**. Much of the existing economic literature either focuses on the efficiency gains from technology adoption or critiques the monopolistic tendencies of digital capitalism. Few studies provide a coherent theoretical framework for understanding **how coordination itself is being redefined** in the face of decentralization, cryptographic trust, and algorithmic governance.

In the absence of such a framework, policymakers, economists, and institutional theorists risk **misinterpreting the evolving nature of economic institutions**, potentially leading to regulatory gaps, market failures, and overlooked opportunities for inclusive innovation.

1.3 Research Questions

This paper addresses the following core questions:

RQ1: How do digital and decentralized technologies alter traditional mechanisms of economic coordination?

RQ2: What theoretical dimensions can explain the transition from firm/state-centered coordination to algorithmically mediated, decentralized systems?

RQ3: What are the potential trade-offs and institutional implications of this transition?

1.4 Objectives of the Study

The study aims to:

Develop a conceptual framework that maps the changing nature of economic coordination in the context of digitalization and decentralization.

Theorize the roles of algorithmic governance, protocol-based institutions, and distributed trust in economic organization.

Provide implications for economic policy, institutional design, and future empirical research.

1.5 Scope and Contribution

This research is conceptual in nature and interdisciplinary in scope, drawing from institutional economics, digital governance, transaction cost theory, and emerging blockchain studies. The primary contribution is the development of a **three-dimensional conceptual model** of post-platform economic coordination, anchored in the constructs of:

Technological Mediation

Governance Decentralization

Value Reallocation

By foregrounding these dimensions, the study provides a novel lens through which scholars and practitioners can evaluate both the **efficiency and equity** implications of decentralized economies.

2. LITERATURE REVIEW

2.1 Classical Perspectives on Economic Coordination

Economic coordination refers to the structures and processes through which individual agents align their activities to achieve collective outcomes. Historically, this coordination has been theorized along two primary axes: **market mechanisms** and

hierarchical institutions.

Ronald Coase (1937) famously posed the question: *Why do firms exist in a market economy?* He argued that firms arise to minimize **transaction costs**, which include the costs of searching, negotiating, and enforcing contracts. When these costs are lower within a hierarchical structure than in a decentralized market, firms are the preferred mechanism of coordination.

Building on Coase, Oliver Williamson (1985) extended **transaction cost economics**, emphasizing the role of asset specificity, bounded rationality, and opportunism. He distinguished between markets, hierarchies, and hybrids (e.g., joint ventures) as institutional responses to coordination challenges.

Moreover, institutional economists such as Douglass North (1990) emphasized that institutions—formal and informal rules—shape economic performance by reducing uncertainty in human interactions. These institutions provide the foundation for trust, norms, and legal enforcement, which are essential for coordinated action in complex economies.

However, all these classical models were developed in a pre-digital, pre-networked context. The emergence of digital technologies, especially those enabling real-time data exchange and algorithmic governance, demands a re-examination of these foundational ideas.

2.2 Platform Economies and the Algorithmic Turn

The digital era ushered in a new form of economic coordination: **platform-based ecosystems**. These platforms—Uber, Amazon, Google, Facebook—do not produce goods or services directly; rather, they facilitate interactions between producers and consumers using data-driven algorithms.

Platforms have been theorized as **multi-sided markets** (Rochet & Tirole, 2003), where the value lies in enabling transactions across distinct user groups. Their efficiency arises from **network effects**—as more users join one side of the platform, the value for the other side increases.

Kenney and Zysman (2016) argue that platforms are neither firms nor markets in the traditional sense, but **digital infrastructures** that command coordination through **data extraction, algorithmic sorting, and reputation systems**. Srnicek (2017) goes further to describe this as "platform capitalism," where value is captured through control over digital infrastructures rather than production per se.

These developments have redefined the locus of coordination:

Trust is outsourced to platform ratings and algorithms.

Contracts are replaced by terms-of-service agreements.

Employment becomes "gig-based," often outside labor law protections.

However, the **centralized ownership** of platforms poses concerns. Zuboff (2019) critiques the rise of "surveillance capitalism," where user behavior is commodified and controlled. Moreover, platform monopolies raise issues of **asymmetric power**, **data enclosure**, and **regulatory arbitrage**.

2.3 Decentralized Technologies and the Disruption of Intermediaries

In contrast to platform centralization, a new paradigm is emerging: **decentralized digital coordination**. This model is enabled by technologies such as:

Blockchain – a distributed ledger that ensures data integrity without central control.

Smart Contracts – self-executing code that automates rules and transactions.

Decentralized Autonomous Organizations (DAOs) – digital-native entities governed by token holders rather than corporate hierarchies.

Davidson, De Filippi, and Potts (2018) suggest that blockchain represents a new institutional form: **the "institutional technology"**. Instead of requiring third-party enforcement, blockchains embed rules into protocols, enabling **trustless trust**.

This shift implies that coordination can now occur:

Without legal enforcement (replaced by code).

Without firms (replaced by peer-to-peer logic).

Without geographic boundaries (enabled by borderless protocols).

Catalini and Gans (2016) show that blockchain reduces the cost of verification, networking, and contracting—three critical elements of Coasian transaction costs. This leads to a **re-decentralization** of economic activity, once assumed infeasible due to coordination complexity.

Atzori (2015), however, cautions that technical decentralization does not guarantee democratic governance. Many "decentralized" systems replicate power asymmetries through hidden code control or token inequality. Hence, the evolution of decentralized coordination needs critical scrutiny beyond its technical architecture.

2.4 Emerging Debates: Post-Platform Economies and Protocol Governance

Rozas et al. (2021) suggest that we are entering a **"post-platform" economy**, where value creation and coordination shift from proprietary platforms to open protocols. Protocols like Ethereum and IPFS offer **public infrastructures** upon which diverse services and governance models can be built.

This trend introduces new theoretical concerns:

What are the **governance mechanisms** of open protocols?

How is **accountability** maintained without corporate oversight?

How do **participants coordinate incentives** in tokenized economies?

A growing body of literature explores "cryptoeconomics" as the field that combines **economic incentives with cryptographic verification** to ensure consensus and coordination (Buterin, 2014; Werbach, 2018).

This body of work challenges institutional economists to reconsider the **meaning of institutions** when rules are not enforced by law but by consensus algorithms, and when coordination is not negotiated but *automated*.

2.5 Identified Gaps in Literature

From the above review, several research gaps become evident:

Fragmentation: Literature on coordination is fragmented across economics, information systems, and blockchain studies. There is a need for an integrated conceptual framework.

Theory Lag: Economic theory has not fully caught up with the institutional implications of decentralized digital technologies.

Limited Policy Focus: Much of the current research focuses on technical feasibility or speculative finance, with limited attention to institutional design, regulatory adaptation, and economic inclusivity.

This paper addresses these gaps by proposing a **multidimensional framework** that links technological mediation, governance decentralization, and value reallocation—offering a structured lens to theorize the future of economic coordination.

3. CONCEPTUAL FRAMEWORK

3.1 Rationale for a New Framework

As established in Chapters 1 and 2, traditional models of economic coordination—based on market-price mechanisms and firm hierarchies—are increasingly inadequate in explaining digitally mediated, decentralized coordination. Contemporary developments such as platform economies, blockchain technologies, and decentralized autonomous organizations (DAOs) have introduced **new mechanisms of trust, decision-making, and value allocation**.

Yet, there is no widely accepted conceptual framework that:

Integrates both **digitalization and decentralization**,

Accounts for both **technological infrastructure** and **institutional transformation**, and

Explains **coordination beyond traditional market-firm dichotomies**.

This chapter introduces a three-dimensional conceptual framework of **Post-Platform Economic Coordination** (PPEC), composed of:

Technological Mediation

Governance Decentralization

Value Reallocation

Each dimension reflects a distinct but interrelated shift in how economic coordination is structured and sustained in the emerging digital economy.

3.2 The PPEC Model: Three Dimensions of Change

Dimension 1: Technological Mediation

This dimension captures the transformation of coordination from analog and bureaucratic modes to **automated, data-driven,**

and algorithmic systems. Coordination is increasingly mediated by:

Digital platforms (e.g., Uber, Amazon)

Blockchain protocols (e.g., Ethereum)

AI-powered recommendation engines and smart contracts

These systems reduce traditional **transaction costs** (Coase, 1937) while introducing new **informational asymmetries** and **technological lock-ins** (Srnicek, 2017).

Key Indicators:

Use of programmable infrastructure

Level of algorithmic control

Degree of interoperability between actors

Dimension 2: Governance Decentralization

Governance decentralization refers to the **dispersal of decision-making authority**, away from centralized entities (firms, states, or platforms) toward **peer-to-peer, protocol-based, or token-based structures**.

This decentralization is enabled by:

Cryptographic verification

Consensus mechanisms (e.g., proof-of-stake)

DAOs governed by token voting

Rather than rely on **exogenous enforcement (law, corporate rule)**, decentralized coordination often employs **endogenous rule enforcement**, embedded in smart contracts or social consensus (Davidson et al., 2018; Rozas et al., 2021).

Key Indicators:

Nature of governance (centralized vs. distributed)

Type of incentive structures

Stakeholder diversity and inclusivity

Dimension 3: Value Reallocation

This dimension examines how **value creation, capture, and distribution** change under digital and decentralized coordination.

In the platform era, value capture was highly centralized, with platforms extracting disproportionate rents via data monopolies (Zuboff, 2019). In decentralized systems, **value flows may be more dispersed**, with creators, users, and contributors sharing in tokenized returns or protocol revenues (e.g., DeFi or NFT royalties).

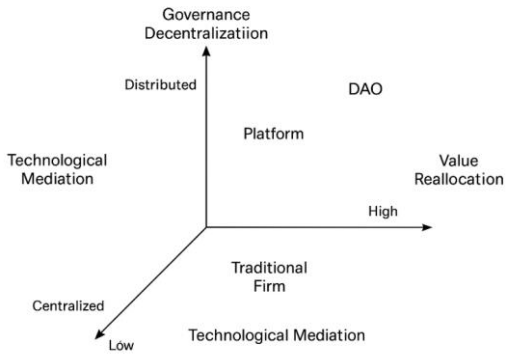
Key Indicators:

Ownership structures (equity vs. tokens)

Revenue sharing mechanisms

Distribution of value among stakeholders

3.3 Integrative Framework Diagram



Each point in the space represents a different form of coordination (e.g., Traditional Firm, Platform, DAO).

Example Typologies:

Coordination Type	Tech Mediation	Governance	Value Allocation
Traditional Firm	Low	Centralized	Internal equity
Digital Platform	High	Centralized	Platform rents
DAO	High	Distributed	Token incentives

3.4 Theoretical Integration

The PPEC model is theoretically grounded in and extends the following traditions:

Transaction Cost Economics: Automation and smart contracts reduce negotiation/enforcement costs (Williamson, 1985; Catalini & Gans, 2016).

Institutional Economics: Decentralized infrastructures represent new "rules of the game" (North, 1990).

Network Economics: Coordination is influenced by feedback loops and scale effects (Rochet & Tirole, 2003).

Commons and Polycentric Governance: Inspired by Ostrom's (1990) work on community-driven rules and adapted to cryptographic governance (Rozas et al., 2021).

3.5 Conceptual Contributions

This framework makes three major contributions:

Bridging Economics and Digital Governance: It offers economists a lens to understand how digital tools are transforming coordination at both micro and macro levels.

Operationalizing Decentralization: It breaks down decentralization into observable dimensions rather than treating it as a binary condition.

Foundation for Empirical Research: The model generates testable hypotheses regarding institutional performance, trust mechanisms, and value flows in emerging economies.

4. THEORETICAL AND INSTITUTIONAL IMPLICATIONS

4.1 Applying the PPEC Framework to Contemporary Coordination Forms

The Post-Platform Economic Coordination (PPEC) model introduced in Chapter 3 allows us to compare coordination mechanisms based on three dimensions: technological mediation, governance decentralization, and value reallocation. In this section, we use this framework to analyze and contrast three types of economic coordination:

Case A: Traditional Hierarchical Firms

Traditional firms coordinate economic activity through **bureaucratic hierarchies**, contracts, and command-based structures.

Tech Mediation: Low to moderate—primarily ERP systems and digital reporting tools.

Governance: Strongly centralized, with decision rights held by shareholders or top management.

Value Allocation: Profits accrue primarily to equity holders; employees receive wages with limited stake in residual claims.

Implication: Traditional firms remain efficient in contexts with high asset specificity and long-term planning needs (Williamson, 1985), but their rigidity limits adaptability to dynamic, decentralized markets.

Case B: Digital Platforms (e.g., Uber, Amazon, Airbnb)

Digital platforms coordinate economic interactions between users by leveraging **data, algorithms, and network effects**.

Tech Mediation: High—platforms use AI, matching algorithms, reputation systems.

Governance: Centralized platform owners dictate rules, terms, and access.

Value Allocation: Profits accrue to platform owners; workers often face precarity (Srnicek, 2017; Zuboff, 2019).

Implication: Platforms exemplify a hybrid form of coordination, displacing traditional intermediaries but consolidating control through digital infrastructure. They raise concerns of **platform monopolies**, **surveillance**, and **algorithmic governance opacity**.

Case C: Decentralized Autonomous Organizations (DAOs)

DAOs coordinate economic activity through **smart contracts and on-chain voting**, rather than corporate hierarchies.

Tech Mediation: High—reliant on blockchain and automated protocols.

Governance: Decentralized via token-based decision-making or quadratic voting.

Value Allocation: Tokens often represent both governance and profit rights; contributors can be directly compensated.

Implication: DAOs offer a new model of **code-mediated coordination** with potential for democratic participation and global inclusivity—but they also face challenges related to scalability, token inequality, regulatory ambiguity, and accountability (Davidson et al., 2018; Rozas et al., 2021).

4.2 Institutional Design Implications

The emergence of decentralized coordination mechanisms invites a rethinking of **institutional economics** in three major ways:

1. Rules Without Rulers

Traditional institutions rely on **formal legal frameworks** and hierarchical enforcement. In contrast, decentralized coordination allows for **embedded rule systems**—rules are enforced not by courts or managers, but by code (e.g., smart contracts).

This shift challenges North's (1990) notion of institutions as external rule systems, suggesting that **institutions can now be endogenous and programmable**.

Institutional design must now account for both **technical governance** and **social legitimacy**.

2. Polycentric Governance

Drawing from Ostrom (1990), decentralized systems can foster **polycentric governance**—where multiple centers of decision-making operate with autonomy and interdependence.

DAOs and decentralized finance (DeFi) projects often exhibit nested rule systems (e.g., protocol governance vs. community forums).

Such structures may enhance resilience but complicate **coordination across jurisdictions**, especially when protocols have global reach and local consequences.

3. Economic Coordination as Infrastructural Choice

The mode of coordination is increasingly determined not just by market incentives or legal rules, but by **infrastructure design**.

Who controls the underlying code?

How are updates made and who has veto power?

What governance models are hard-coded and which are emergent?

This brings economics closer to **infrastructure studies**, requiring interdisciplinary collaboration with computer scientists, legal scholars, and organizational theorists.

4.3 Theoretical Implications: Rethinking Coordination in Economics

The PPEC framework encourages a revision of long-standing economic assumptions:

From Firms vs. Markets to Architectures of Coordination

Rather than asking whether activity will be internalized in firms or outsourced to markets (Coase, 1937), we must now ask:

What architectures—technical, legal, institutional—best enable coordination under conditions of uncertainty, asymmetry, and distributed knowledge?

This opens space for new coordination theories that are:

Computational (incorporating algorithmic rules),

Sociotechnical (considering the interplay of people and protocols),

Dynamic (adjusting to changing network externalities and consensus mechanisms).

4.4 Policy and Regulatory Implications

Governments and regulators must adapt to the changing landscape of economic coordination. Key policy areas include:

1. Digital Antitrust and Data Sovereignty

How can competition be ensured in platform economies?

Should digital infrastructure be regulated as a **public utility**?

Can **data portability** and **interoperability** foster more equitable ecosystems?

2. Legal Recognition of DAOs

What legal status do DAOs have?

Who is accountable when code fails or is exploited?

How do we balance innovation with liability and consumer protection?

3. Taxation and Public Value

How should tokenized value creation be taxed?

Can smart contracts be harnessed for **automatic tax compliance**?

How can decentralized finance be included in macroeconomic policy frameworks?

The shift toward digital and decentralized coordination marks a profound transformation in the architecture of economic systems. While traditional firms and platforms still dominate, the rise of DAOs and blockchain-based protocols presents an opportunity to reconceptualize how economic coordination is designed, governed, and distributed.

The PPEC framework provides a structured lens to:

Analyze existing institutions,

Guide future research, and

Inform adaptive policymaking in an era of algorithmic governance and post-platform economics.

5. CONCLUSION AND FUTURE DIRECTIONS

5.1 Summary of Core Arguments

This research set out to explore how the twin forces of **digitalization** and **decentralization** are reshaping the foundations of economic coordination. Beginning with a critique of the traditional **market-firm dichotomy**, we traced the evolution of economic organization through the rise of digital platforms, culminating in the emergence of blockchain-based, decentralized systems.

The central contribution of this study is the development of the **Post-Platform Economic Coordination (PPEC)** framework, which articulates three interrelated dimensions of change:

Technological Mediation: the increasing role of algorithmic, data-driven, and automated infrastructures in facilitating transactions and interactions;

Governance Decentralization: the diffusion of decision-making power through peer-to-peer, token-based, or protocol-governed systems;

Value Reallocation: the transformation of how economic value is created, captured, and distributed in the digital economy.

We applied this framework to contrast traditional firms, platform-based models, and emerging decentralized autonomous organizations (DAOs), illuminating key shifts in institutional logic, power asymmetries, and socio-economic outcomes.

5.2 Theoretical Contributions

This study contributes to a growing body of interdisciplinary research at the intersection of **economics, institutional theory, and digital governance** by:

Moving beyond binary models of coordination (firm vs. market) toward a **multidimensional space** of infrastructural architectures;

Demonstrating that **economic coordination is increasingly a design question**, involving technical protocols as much as incentive structures;

Advancing the theoretical integration of **transaction cost economics, commons governance**, and **infrastructure studies** to address post-platform realities.

In doing so, the paper opens a novel pathway for theorizing **economic institutions as programmable, endogenous, and sociotechnically embedded systems**.

5.3 Implications for Policymakers and Practitioners

As economic coordination migrates from centralized hierarchies to distributed networks, regulators, policymakers, and practitioners must adapt their frameworks. Key takeaways include:

Regulatory Paradigm Shifts: Legal and fiscal systems must evolve to recognize novel forms of organization like DAOs, token-based labor, and self-executing contracts.

Infrastructure as Policy: State actors must treat digital infrastructure not just as a market product but as a **public good** that determines access, equity, and innovation potential.

Inclusive Design: Ensuring that decentralized systems are not merely technical novelties but **inclusive economic platforms** requires proactive governance around access, participation, and legitimacy.

5.4 Future Research Directions

This conceptual groundwork invites several promising research agendas:

1. Empirical Mapping of the PPEC Space

Comparative studies of organizations across the PPEC dimensions.

Metrics and indicators for evaluating "coordination efficiency" in decentralized systems.

2. Normative Questions of Justice and Power

How are new forms of digital coordination reproducing or disrupting **existing inequalities**?

What ethical frameworks should guide the **design of economic algorithms and protocols**?

3. Macroeconomic Implications

How do decentralized networks (e.g., DeFi) impact **monetary policy, capital flows, and systemic risk**?

Can economies coordinated through DAOs remain **fiscally and socially sustainable**?

4. Cross-Cultural and Global South Perspectives

How do digital and decentralized coordination mechanisms adapt to **non-Western institutional environments**?

What models of digital sovereignty and self-determination are emerging in the Global South?

5.5 Concluding Reflection

The digital economy is not merely changing how we **transact**—it is transforming how we **coordinate, govern, and distribute**. As we move beyond platforms and firms into a world of code-mediated collectives, we must reimagine economic coordination not as a static outcome but as a **designable, evolvable, and participatory process**.

The frameworks and insights presented here aim to seed a broader conversation about the **future of economic life**—a future where coordination is not dictated from above, but emerges, responsibly and equitably, from the systems we choose to build together.

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