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Digital Platform Capability Development and Entrepreneurial Market Expansion: A Multidimensional Capability Perspective

By

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ABSTRACT: Digital platforms have become core sources of entrepreneurial market growth, and they allow startups and platform-based SMEs to expand geographically, reach customers, and enter e-commerce sectors. In spite of this potential, various entrepreneurial projects face capability gaps that complicate the efficient use of digital platform resources to stimulate the expansion of the business in the most effective way possible. The paper offers a holistic conceptual model of Digital Platform Capability Development and Entrepreneurial Market Expansion that combines multidimensional platform capabilities with strategic, iterative learning processes to maximize market recovery. The framework recognizes five fundamental dimensions of platform capability: platform interoperability, data analytics, user experience design, ecosystem integration, and monetization architecture, and describes how these are linked to the market expansion outcomes, and that feedback loops and capability adjustments are important elements of scalable growth. Further, the paper generalizes the framework to consider resource-constrained entrepreneurial situations, with implications for practice in start-up founders, platform operators, investors, and accelerators. The conceptual validation is reached with the help of a logic of capability-based modeling and synthesis of the experience gained in the course of the previous empirical and theoretical research, which guarantees both theoretical and managerial issues. The framework is relevant to the literature on entrepreneurship and digital platforms by providing a systematic method of cognizing how platform strengths can be strategically created and coordinated to achieve sustainable market growth. Lastly, the research presents a future empirical research opportunity, as it forms the basis of studying the dynamics of the development of digital platform capabilities, iterative learning, and the growth of entrepreneurial markets in various entrepreneurial environments.

KEYWORDS: Digital platform capability, Entrepreneurial market expansion, Platform interoperability, Ecosystem integration, Capability development, Iterative learning, Platform-based SMEs.

INTRODUCTION

1.1 Digital Platforms as Entrepreneurial Market Growth Engines

Online platforms have become potent driving forces of entrepreneurial market growth because they allow businesses to surpass geographic, structural, and resource limits. Platforms enable entrepreneurial companies to reach new customers

within minutes, coordinate complementary innovations, and coordinate value creation at distributed ecosystems through modular architecture, multi-sided interactions, and scalable digital infrastructures (Gawer and Cusumano, 2014; Parker, Van Alstyne, and Choudary, 2016). In the eyes of entrepreneurs, platforms present new

levels of opportunities to expand market presence, product diversification, and new market introduction without commensurate expansions in physical resources or operational expenses. Conceptual and empirical research findings bring to growing significance the role of platforms as growth, innovation, and competitive advantage enablers in entrepreneurial settings (Mohammed, 2023; Tiwana, 2014).

1.2 Market Expansion Challenges in Platform-Based Entrepreneurial Ventures

Platform-based entrepreneurial ventures have significant obstacles to attain lasting growth in the market despite their potential. The resource scarcity, lack of experience in management, and technological uncertainties are the factors that often put entrepreneurs in difficult situations where they struggle to build a platform and scale (Mohammed et al., 2022; Muhammed et al., 2023). Weak interoperability, insufficient use of data, negative user experience design, and weak ecosystem relationships are all common problems that hamper platform adoption and restrict market penetration. In addition, the challenges of monetization and mismatched revenue designs can restrict reinvestment and growth over the long term, especially when developing an early-stage venture (Parker et al., 2016).

1.3 Digitalization, Platform Competition, and Market Boundary Reconfiguration

Digitalization has increased competition based on platforms and has radically reorganized the market frontiers. Platforms are competing more and more between industries, dispelling sectoral lines, and re-inventing the market structure and market

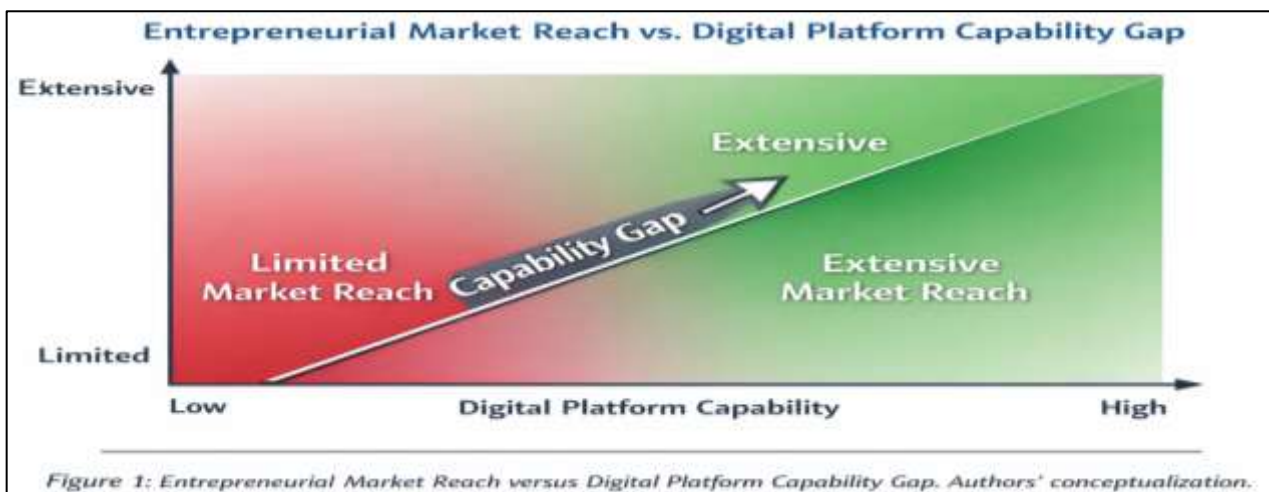
competition (Teece, 2018). Entrepreneurial projects are thus forced to operate in fluid competitive landscapes in the form of network effects, winner-takes-most, and fast-moving technology platforms. These circumstances raise the strategic relevance of the platform capabilities that allow adaptation, differentiation, and prolonged growth in the changing market spaces (Gawer, 2021; Mohammed and Sundararajan, 2023).

1.4 Capability Gaps in Entrepreneurial Platform Development

Although it is well recognized that digital platforms are the vehicles of growth, there is a crucial gap between the opportunities of entrepreneurs to grow their market and the real possibilities to build and expand efficient platforms. Most of the ventures are deficient of interoperability, analytics, user experience design, ecosystem integration, and monetization architecture capabilities, which are needed to create a digital presence to actual market expansion results (Helfat et al., 2007; Tiwana, 2014). This capability gap constrains the capacity of entrepreneurs to leverage in full platform-based opportunities and attain sustainable growth in the market.

Figure 1 conceptually illustrates this misalignment by depicting the divergence between increasing entrepreneurial market reach ambitions and insufficient digital platform capability development.

Figure 1: Entrepreneurial Market Reach versus Digital Platform Capability Gap



Source: Authors' conceptualization

1.5 Research Problem, Objectives, and Conceptual Contributions

The focal issue in this paper is the conceptual lack of knowledge on the way multidimensional digital platform capabilities can jointly contribute to the market expansion of entrepreneurs. The available literature builds on looking at platforms, entrepreneurship, or digital capabilities separately, providing incomplete information. Subsequently, the purpose of this paper is to (i) conceptualize the development of the digital platform capability as a multidimensional unit, (ii) provide theoretical explanations of its connection to the growth of the entrepreneurial market, and (iii) create a conceptual framework of integrative approaches that further the literature on platform and entrepreneurship. The contribution to the paper is the extrapolation of the dynamic capability and platform ecosystem theories to the study of entrepreneurial market expansion.

1.6 Structure of the Paper

An introduction is followed by the conceptualization of the development of the digital platform capability, the analysis of the entrepreneurial market expansion, the development of the capability-expansion linkages and propositions, the extended framework, and theoretical and practical implications before concluding.

2. Digital Platform Capability: Conceptual and Strategic Foundations

2.1 Digital Platform Capability as a Strategic and Dynamic Organizational Resource

The digital platform capability is an organization-level resource that facilitates business entities to design, in place, and repackage digital

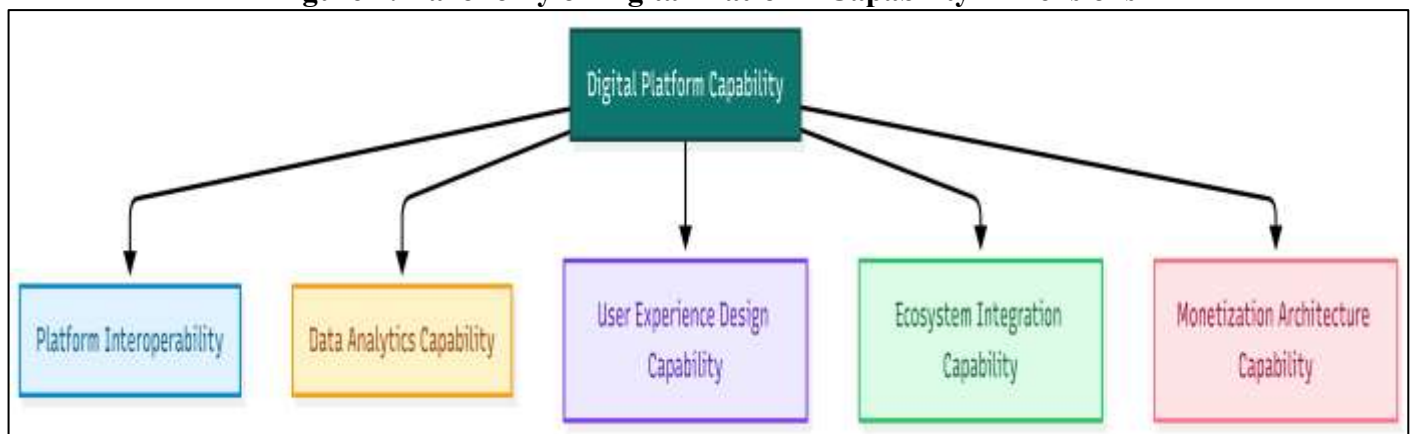
architectures in order to generate continued value and market growth. Digital platforms, as opposed to standalone information systems, are described with the attributes of modularity, reprogram ability, and scalability that enable firms to dynamically respond to market changes and competition pressures (Yoo, Henfridsson, & Lyytinen, 2010). Platform capability is a strategic concept that resonates with the concept of dynamic capabilities since it involves sensing market opportunities, capturing digital growth opportunities, and changing organizational resources towards the same direction (Eisenhardt and Martin, 2000). In the case of entrepreneurial ventures, digital platform capability is not only an asset of technology, but also a strategic process, which defines how markets are accessed, coordinated, and expanded.

2.2 Multidimensional Structure of Digital Platform Capability Development

The ability of digital platforms is multidimensional by nature in that it is a complex socio-technical. Existing literature indicates that a successful platform is based on the concerted development of various interconnected capabilities and not a single technical functionality (Wareham, Fox, and Giner, 2014). This research, therefore, conceptualizes the development of digital platform capability as having five interdependent dimensions that, in aggregate, allow entrepreneurial growth in the market.

Figure 2 below is a taxonomy of dimensions of digital platform capability, and shows how each dimension is structurally related to the others as well as their overall contribution to platform-enabled growth.

Figure 2: Taxonomy of Digital Platform Capability Dimensions



Source: Authors' conceptualization

2.2.1 Platform Interoperability Capability

The power of interoperability between the platforms is the capacity of a venture to provide a seamless interaction between a platform and the external systems, applications, and services. Interoperable platforms minimize integration frictions, allow third parties to participate, and allow value exchange across platforms (Tilson, Srensen, and Lyytinen, 2012). Interoperability to entrepreneurs promotes market entry by increasing the ease with which users and complementors adopt platforms, increasing the transparency of platforms, and encouraging market development. This is especially important in digitally convergent environments where platforms have to work with heterogeneous technological environments.

2.2.2 Data Analytics Capability

The ability of data analytics indicates the platform's ability to receive, process, and analyze data produced by user interaction, transactions, and ecosystem actions. Advanced analytics would help an entrepreneur venture to create actionable information on the behavior of customers, demand trends, and market prospects (Chen, Chiang, and Storey, 2012). With the help of analytics, platforms will be able to offer personalized services, better price planning, and evidence-based decision-making, enhancing their chance to reach a wider market audience and customer base.

2.2.3 User Experience Design Capability

The term user experience (UX) design capability denotes the capability of the platform to provide users with intuitive, engaging, and seamless, multitouch point interactions. Unpleasant UX negatively impacts usability, trust, and satisfaction, which are key factors in platform adoption and retention (Venkatesh et al., 2012). In the case of entrepreneurial platforms against

established market incumbents, user experience can be a key competitive value that will hasten the penetration of the market and enable a fast-scaling strategy.

2.2.4 Ecosystem Integration Capability

Ecosystem integration capability describes the capability of the venture to coordinate the relationships between different players on the platform, such as developers, partners, service providers, and users. Indirect network effects, complementarities in innovation, and faster diffusion will be enjoyed by the platforms that manage to combine actors within the ecosystem (Adner, 2017). The entrepreneurial ventures that acquire good integration capabilities within the ecosystem can, without a similar internal investment, use external resources and innovations to venture into new markets.

2.2.5 Monetization Architecture Capability

The ability of platforms to capture economic value is known as monetization architecture capability. This comprises subscription plans, transactional charges, advertisements, data monetization and hybrid revenue models (Zott, Amit, & Massa, 2011). Initially, monetization architectures are crucial to the continued growth of the entrepreneurs, reinvestments in the platform development and facilitation of the long-term market expansion. Weakly correlated monetization strategies, in their turn, may limit scalability and undermine viability of platforms. The definitions and conceptual boundaries of every dimension of digital platform capabilities are summarized in Table 1 to help understand their unique but complementary functions of the entire capability construct.

Table 1: Definitions and Conceptual Boundaries of Digital Platform Capability Dimensions

Dimension	Definition	Key Conceptual Boundary / Scope
Platform Interoperability Capability	The ability of the digital platform to integrate seamlessly with external systems, services, and third-party applications.	Focuses on technical integration standards, APIs, and cross-platform communication.
Data Analytics Capability	Capacity to collect, process, and derive actionable insights from platform and user data to inform strategy and operations.	Includes predictive analytics, business intelligence, and data-driven decision support.

User Experience Design Capability	Ability to create intuitive, engaging, and user-friendly interfaces and interactions that enhance platform adoption and retention.	Emphasizes UI/UX design, usability testing, and user-centered design principles.
Ecosystem Integration Capability	Competence in establishing and maintaining strategic relationships with partners, developers, and complementary services to create network value.	Encompasses platform governance, partner onboarding, and co-creation mechanisms.
Monetization Architecture Capability	Capacity to design, implement, and optimize revenue-generation mechanisms within the platform ecosystem.	Covers subscription models, transactional fees, freemium structures, and dynamic pricing strategies.

Source: Authors' conceptualization

2.3 Platform Capability Development in Resource-Constrained Entrepreneurial Contexts

The use of digital platforms in entrepreneurial ventures is frequently established with limited financial, human, and technological resources. These limitations imply that strategic prioritization and gradual capabilities development are needed instead of building out platforms in full (Nambisan, 2017). The entrepreneurs often turn to modular architectures, cloud-based services, and third-party alliances to address the shortage of internal resources. The development of capabilities in these situations is of an evolutionary nature through learning, trial, and error. This is because it is essential to understand how these multidimensional capabilities develop and interact, and hence explain the variation in entrepreneurial market expansion outcomes.

3. Entrepreneurial Market Expansion: Conceptual Perspectives

3.1 Concept of Entrepreneurial Market Expansion in Digital Contexts

Entrepreneurial market expansion is the concept whereby ventures expand market, customer base and operations beyond original limits. The market growth in the digital world is no longer limited by the spatial distance and conventional distribution systems. Rather, digital platforms can allow business owners to seek scalable growth strategies based on virtual market reach, fast diffusion, and the decision-making process based on data (Mohammed, 2023a; Mohammed and Sundararajan, 2023). The entrepreneurial market

expansion is, therefore, an indication of not only the increase in mass but also the reorganization of the mechanisms of market engagement organized under the conditions of the digital technologies.

Expansion outcomes are also influenced by human capital preparedness, as well as organizational learning. Digital and software-based based reskilling and up-skilling programs improve the ability to absorb to take advantage of platform-based opportunities especially in highly dynamic technological contexts (Aliyu Mohammed, 2024). Such functions allow businesspeople to act in advance on market indicators and growth possibilities.

3.2 Market Expansion Beyond Geography: Platforms and Boundary Spanning

The digital platforms essentially change the character of market boundaries, where they open up the availability of boundary-spanning interaction between sectors, regions, and groups of stakeholders. Platforms also help to cross-sell markets, as they connect users, suppliers, or partners with common digital space, thus decreasing transaction costs, and allowing quick entry into a new realm (Mohammed & Sundararajan, 2023; Kumar et al., 2024). In this respect, the entrepreneurial market growth goes beyond the physical location to sectoral diversification, inter-industrial cooperation, and the ability to reach customer groups that were previously unreachable.

The studies on entrepreneurial strategies in technologically complex settings outline the significance of adaptive and risk-reducing strategies to deal with the uncertainty associated with expansion (Kumar et al., 2024). Such

strategies are supported by digital platforms such that modular experimentation and incremental scaling is supported without a commitment that is irreversible.

3.3 Digital Platforms and Scalable Customer Base Growth

The growth of customer base is one of the fundamental aspects of the entrepreneurial market growth. Digital platforms allow customers to be acquired with scalability through the utilization of network effects, personalized engagement, and an algorithm-based matching system. Literature on digital transformation and management information systems highlights that the successful utilization of digital infrastructures is able to make firms more responsive to customers, better able to customize their services, and maintain customers longer (Mohammed, 2023b). Moreover, a platform-enabled scalability is facilitated by agile performance management and human resource practices, which match employees with emerging market needs (Sundararajan et al., 2022; Sundararajan et al., 2023a).

Inclusive entrepreneurship views also imply that digital platforms provide underrepresented

populations (such as women entrepreneurs) with new market opportunities by reducing barriers to entry and increasing access to both customers and resources (Sundararajan & Mohammed, 2022).

3.4 Market Expansion as an Outcome of Capability Reconfiguration

The capability-based view of entrepreneurship market creates expansion as a result of constant reconfiguration of capabilities, but not as a linear growth pattern. The strategic human resource management, managerial attitudes, and organizational adaptability are important in facilitating ventures to refocus internal processes on the external market opportunity (Mohammed et al., 2023a; Mohammed et al., 2024). Capability reconfiguration enables entrepreneurial companies to shift between the localized operation mode to the wider market operation without the loss of organizational coherent.

Table 2 presents a summary of the available indicators of market growth in platform-based enterprises, including increasing customer base, market coverage, and online presence.

Table 2: Key Indicators of Entrepreneurial Market Expansion in Platform-Based Ventures

Indicator	Definition / Description	Measurement / Conceptual Boundary
Customer Base Growth	Increase in the number of active users or paying customers over time.	Measured as percentage growth in user accounts or subscriptions.
Geographic Coverage	Expansion into new regional, national, or international markets.	Captures operational presence and market reach across geographies.
Market Penetration	Depth of engagement and adoption in existing markets.	Includes metrics like usage frequency, platform adoption rates, and retention.
Revenue Expansion	Growth in platform-generated revenue streams.	Includes transactional revenue, subscription income, and monetization model efficiency.
Network Effects	Amplification of platform value as more users, partners, or contributors participate.	Measured by increased transactions, interactions, or co-created content.

Source: Authors' conceptualization

4. Platform Capability–Market Expansion Linkages

4.1 Theoretical Logic Linking Platform Capabilities to Market Expansion

The theoretical explanation of the relationship between the potential digital platform development and the entrepreneurial market growth is the capability-based and socio-technical logic. Digital platforms do not directly produce the

market expansion results; instead, the expansion is produced through the way platform abilities are designed, aligned, and implemented to aid strategic expansion plans. Platform capabilities serve as organizational change enablers, learning, and scalable coordination enhancers as the entrepreneurial environment goes more digital (Mohammed & Sundararajan, 2023).

The new body of literature on business transformation highlights the fact that digital technologies transform business structure, value creation logics, and competitive positioning (Mohammed & Sundararajan, 2023). The capabilities of platforms enable entrepreneurial initiatives to restructure internal operations, external interfaces, and stakeholder relationships in a manner that enables an expansion of engagement with the market. To illustrate, the ability to interoperate and integrate into an ecosystem can allow ventures to have access to external actors, thus enabling them to have access to the boundary-spanning market, and decision-making can be based on data, to inform expansion strategies.

The human-based organizational capabilities also enhance the platform expansion relationship. Performance management systems based on agile philosophy allow the organization to be more responsive, experimental, and continuous improvement-based, which are the necessary features to maintain growth in platform-based markets (Aliyu Mohammed, 2023). These systems can facilitate the ability of an entrepreneurial venture to match the performance of the employees with the changing platform strategies so that the technological capabilities can be transformed into a market-facing result.

Moreover, the empirical evidence in various industries indicates that the alignment of the strategic capabilities enhances adaptability during the times of uncertainty. Research on investment decision-making and sectoral change illustrates that organizations that have adaptive models of decision-making are in a better place to react to market signals and growth opportunities (Shanmugam Sundararajan et al., 2024). This set of insights, which is based on financial and industrial settings, can also be applied to platform-based entrepreneurship where uncertainty and a high rate of change are a natural phenomenon.

4.2 Development of Conceptual Propositions

Based on the theoretical reasoning presented above, the proposed study will conceptualize the process of entrepreneurial market expansion as the result of the coordinated digital platform capability development. The framework does not focus on the standalone capabilities but their overall and supporting impact. Platform capabilities are mediated by organizational and managerial skills, including strategic human resource management, performance analysis, and institutional learning, which play a role in growth (Sundararajan et al., 2023).

The significance of integrating capabilities on a systemic basis is also mentioned in cross-disciplinary evidence. The studies concerning sustainable operation and cross-sector alignment depict that multifaceted results are obtained when technological, managerial, and environmental potentials are concurrently programmed (Lawal et al., 2023). Applying this understanding to the digital platform implies that market growth relies on how well the technical platform capabilities are consonant with organizational governance and strategic intent.

On this rationale, the subsequent conceptual propositions are developed:

P1: Platform interoperability capability has a positive impact on the entrepreneurial market expansion through boundary-span market access.

P2: Data analytics potential has a positive effect on the growth of an entrepreneurial market based on improved sensing the market and customer generation of insights.

P3: User experience design competency has a positive impact on entrepreneur market growth through reinforced platform adoption and retention.

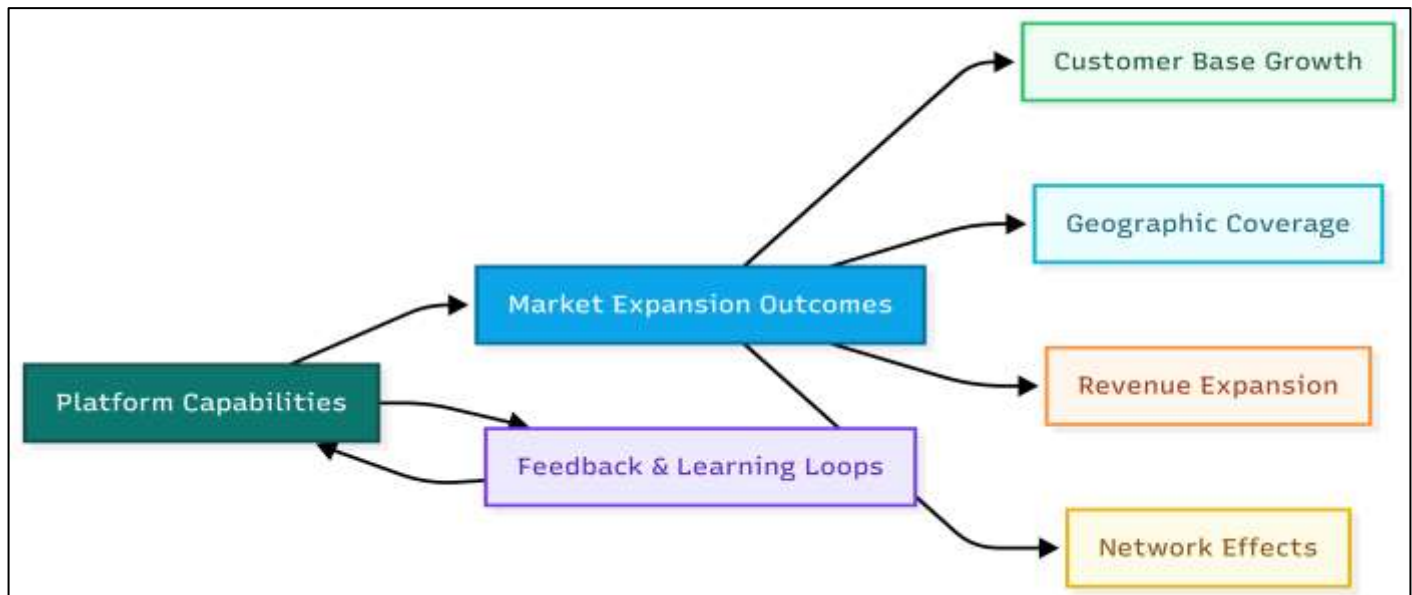
P4: Ecosystem integration potential has a positive effect on the growth of an entrepreneurial market, based on the use of complementary innovations and network effects.

P5: The ability of monetization architecture produces positive effects on the growth of the entrepreneurial market through maintaining scalable value capture technologies.

Figure 3 forms a synthesis of these suggestions into one conceptual framework and, therefore, reveals the way in which the synthesis of multidimensional capabilities of the digital

platforms results in the consequences of the entrepreneurial market growth.

Figure 3: Multidimensional Digital Platform Capability and Entrepreneurial Market Expansion Framework



Source: Authors' conceptualization

This model demonstrates that the multidimensional platform capabilities advantage will produce the main market growth results, such as customer growth, geographic coverage, revenue, and network effects, and its feedback loops.

5. Extended Platform Capability Development Framework

5.1 Rationale for an Extended Framework

Although the earlier parts have already determined the direct correlation between the digital platform capabilities and the growth of the entrepreneurial market, the linear representations are not enough to reflect the dynamic and evolutionary character of the platform-based ventures. Digital platforms exist in complex adaptive systems that are marked by swift technological alteration, evolving user requirements and competitive ecosystem interactions. Therefore, a lengthy framework is needed to describe how the capabilities of platforms can interact as time passes, reinforce each other, and produce cumulative expansion impacts.

In modern research on digital strategy, the prosperity of platforms is not usually the result of single capabilities, but rather the result of the dependence of configuration of capabilities, which develop through ongoing learning and

transformation (Teece, 2018). Since platforms do not mature linearly, user, complementor, and partner feedback redefine capability priorities, which require recursive, as opposed to fixed-point, analytical prism. A long structure thus incorporates the results of market expansion with the learning processes and processes of reconfiguring capability.

5.2 Capability Interactions, Network Effects, and Market Scaling

The interactions of platform capability serve as the core of the increase in network effects and scalable market development. The capability of interoperability and ecosystem integration elevates platform openness and, therefore, enables third-party complementors to add value and boost user adoption and geographic penetration (Jacobides, Cennamo, and Gawer, 2018). These relationships enhance both direct and indirect network effects, enhancing market growth beyond the barriers of firms.

This process is further amplified by data analytics power that allows real-time tracking of user activities, the ecosystem and monetization effectiveness. The insights created with the help of analytics enable platforms to optimize user experience design and pricing structure to sustain scalable customer acquisition and retention (McIntyre and Srinivasan, 2017). The interaction

between these capabilities is that platforms are no longer local entrepreneurial efforts but are multi-sided growth engines, which, like larger markets, can compete.

5.3 Feedback Loops, Learning, and Platform Evolution

The ability of digital platforms to perpetuate learning through feedback loops is a hallmark of digital platforms. The interaction between a user and the system, transaction logs and reaction in the ecosystems are a source of a continuous performance signal that drives capability refinement. Such learning based on feedback, according to the organizational learning theory, contributes to the creation of strategic flexibility and competitiveness over time (March, 1991).

Within the platform environment, learning is not confined to the centre of the firm but also throughout the ecosystem. Complementors test new things, users change behaviour, and the platforms take signals and feed them into the iterative design and governance judgements (Wareham, Fox, and Cano Giner, 2014). This platform architecture redesign, reinforced

dynamic capabilities and market expansion despite competitive pressure are among the short-term outcomes of this learning-based evolution.

5.4 Applicability to Digital Startups, FinTech's, and Platform-Based SMEs

The long structure applies especially to digital startups, fintech's, and platform-based SMEs that have to work with limited resources and face regulatory uncertainty. Fintech platforms, such as the ones, depend on ecosystem collaborations, data-driven trust application, and iterative app development to proliferate through markets (Vives, 2019). On the same note, using platform models, SMEs are able to evade the scale constraints through incorporating learning mechanisms that offset the constrained financial and human resources.

Conceptual representation of this long structure as in figure 4 shows that capabilities of digital platforms generate market growth, which also generates feedback loops to generate learning, capability growth and progressively growing growth.

Figure 4: Extended Digital Platform Capability–Market Expansion–Learning Framework



Source: Authors' conceptualization

6. Conceptual Validation and Analytical Justification

6.1 Theoretical Foundations Supporting the Framework

The suggested extended digital platform capability framework is theoretically based on the resource-based view (RBV), dynamic capability theory, and platform economics. RBV theorizes that

competitive advantage is available based on firm-related, valuable resources that are rare, inimitable and non-substitutable (Barney, 1991). Nevertheless, in a rapid digital world, only stable resources are not enough. Dynamic capability theory is an extension of RBV, which focuses on the capabilities of firms to feel opportunities, capture them and change resources in the long run (Helfat et al., 2007).

Platform economics also adds to this base by elaborating the value creation and value capture in multi-sided market reliant on interdependences between users, complementors, and technology structures (Rochet and Tirole, 2003). All these theoretical lenses together encourage the consideration of digital platform capability development as a dynamic system-level process and not as a collection of disjointed operational capabilities.

6.2 Mapping Platform Capabilities to Market Expansion Outcomes

The conceptual framework creates a rational mapping between the platform capability dimension and entrepreneurial market expansion results. Ways of boundary-spanning interaction, such as the interoperability and ecosystem integration capabilities, allow platforms to expand into new user segments and markets without correspondingly increasing internal resources. Data analytics and user experience design capabilities can help to attract customers, engage with them, and keep them, which directly affects the scale of the customer base and access to the market.

Monetization architecture is the ability to connect the growth of platform usage with the ability to generate revenue at a sustainable level, turning market growth into market feasibility. This mapping goes in line with previous conceptual literature that points at the existence of complementarities between digital capabilities as functions of scalable growth in platform-based companies (Cusumano, Gawer, and Yoffie, 2019). The growth of the market is, therefore, conceptualized as a result of coordinated ability implementation, as opposed to being a strategic goal in itself.

6.3 Role of Logical Reasoning and Prior Empirical Evidence

This research is conceptual, but the propositions have analytical support based on logical arguments and synthesis of previous empirical research. Empirical evidence in the field of digital innovation and platform strategy is accumulated and shows positive correlations of capability orchestration, ecosystem participation, and growth performance (Nambisan, Zahra, and Luo, 2019). Incorporating these results into a single framework, the current research makes construct

validity stronger without adding new empirical data.

It is based on logical reasoning to find causes of plausibility of causation: capabilities enable interactions; and interaction creates network effects; network effects cause market expansion; and expansion in turn creates learning and renews capabilities. This sequence of logic meets the criteria of internal consistency and theoretical coherence that are usually used in conceptual studies.

6.4 Analytical Validation Using Capability-Based Modeling Logic

The framework is analytically supported by the logic of the capability-based model, which presupposes that the results of the organization are determined by the regular interactions of its capabilities, rather than by causal relationships. This type of modeling acknowledges equifinality, feedback, and nonlinearity in the digital world (Felin, Foss, and Ployhart, 2015). It is an appropriate strategy when the venture is based on a platform, and a minor change in capability can result in a disproportionate reaction on the market.

6.5 Expected System-Level Outcomes of Platform Capability Development

On the system level, successful development of platform capabilities will be predicted to result in the long-term market growth, ecosystem robustness, and dynamic growth paths. In the long run, platforms become self-reinforcing systems where learning, innovation, and expansion are mutually reinforcing to each other and contribute to a sustainable entrepreneurial competitiveness in the digital arena.

7. Practical Implications for Entrepreneurial Stakeholders

7.1 Implications for Startup Founders and Digital Entrepreneurs

The protracted digital platform capacity framework equips start-up founders and digital entrepreneurs with practical information regarding how to organize multidimensional capabilities in the expansion of the market. Founders should make alignment of technical, managerial, and ecosystem-related capabilities one of their priorities in order to achieve maximum network effects and scalability. Through interoperability, analytics, and user experience designing, startups are able to develop a platform that is both flexible

and robust, which allows it to penetrate new geographic and demographic markets with very little friction (Boudreau and Lakhani, 2013).

Besides, the framework emphasizes the role of dynamic learning and constant adaptation. Business people have an opportunity to incorporate the feedback features into the platform and track the user activity, evaluate ecosystem contributions, and detect gaps in capabilities, which will lead to an iterative process of improvement. This solution is comparable to agile practices, which are becoming more important in the digital domain marked by fast technological changes and competitive instability (Rigby, Sutherland, and Takeuchi, 2016).

7.2 Implications for Platform Managers and Product Strategists

The product strategists and platform managers are located at the intersection of the design of technical components, customer experience and ecosystem coordination. According to the framework, successful expansion does not only depend on technical sophistication but a coordination of complementary capabilities to strengthen value creation. As an example, ecosystem partner integration contributes to platform success, and analytics-informed insights will be used to set priorities and monetization plans (Tiwana, 2014).

The network growth effects should also be noted by product strategists as reinforcing effects. As the number of platform participants grows (both users and complementors) the platforms attain positive feedback loops, which enhance adoption, trusting, and engagement. The managers are therefore recommended to come up with organized strategies to enable co-creation, innovation and knowledge transfer throughout the platform ecosystem so that the market growth becomes sustainable and dynamic.

7.3 Implications for Investors, Incubators, and Accelerators

The framework provides investors, incubators, and accelerators with key tips to consider platform-based ventures. The success of digital platforms is determined by the capability orchestration, strategic learning, and ecosystem management, which cannot be determined by traditional financial metrics. The ability of startups to be interoperable, utilize analytics, and integrate into

an ecosystem should also be evaluated by investors as a measure of their scalability and ability to withstand over time (Gawer and Cusumano, 2014).

Incubators and accelerators may use the framework to create specific support programs that would increase the digital competencies, steer performance tracking, and support alliances. These organizations can enhance the efficiency of startups in converting the platform capabilities into the result of market expansion by creating learning-oriented environments.

7.4 Strategic Guidelines for Platform-Driven Market Expansion

The theoretical framework is transformed into the four strategic platform-based market development principles:

1. **Capability Alignment:** Incorporate technical, managerial and ecosystem capabilities so as to achieve synergies.
2. **Feedback-driven Learning:** Introduce active feedback and guidance to optimize the features of the platform and interaction within the ecosystem.
3. **Ecosystem Leverage:** Use complementors, users and partners to increase network effects and reach more markets.
4. **Scalable Monetization:** Build scalable and sustainable monetization structures that can convert platform consumption to economic feasibility.

These principles offer a consistent roadmap to the entrepreneurial stakeholders, and they emphasize the fact that multidimensional capabilities of platforms can be coordinated to provide a scalable, sustainable and resilient expansion of market in digital economies.

8. Recommendations

On the basis of the long digital platform capability framework, there are a number of practical recommendations to the entrepreneurial venture, policy makers and ecosystem facilitators. These are recommendations aimed at directing strategic decision making, capability orchestration and platform-based market expansion.

1. **Invest in Multidimensional Capabilities:** Startups and SMEs ought to actively build and harmonize each of the five dimensions of digital platform capability including interoperability, data analytics, user

experience design, ecosystem integration and monetization architecture. Development of integrated capabilities helps to make expansion efforts scalable and resilient and enables ventures to adjust to the changes in the dynamic market environment without losing their competitive edge (Adner, 2017; Tiwana, 2014).

2. **Leverage Ecosystem Partnerships Strategically:** Cooperation with complementary companies, developers, and end users adds to the creation of platform value and increases its penetration into the market. The mechanisms of adaptive governance are suggested to formalize strategic alliances, ensuring flexibility, promoting co-innovation, and minimizing possible conflicts within the ecosystem (Gawer, 2021). Ecosystem leverage can also allow ventures to grow fast without growing internal resource needs at a commensurate rate, especially with resource-constrained startups.
3. **Implement Feedback-Oriented Learning Loops:** Platforms should integrate continuous monitoring tools capable of tracking user behavior, complementor activity, and market trends. These lessons must become the foundation of improvement cycles of platform design, capabilities, and monetization strategies. This type of feedback-based learning enhances the ability to adapt, enabling ventures to act proactively to shifts in customer preferences, market competition and technological shocks (Chesbrough and Appleyard, 2007; Zheng, Xu, and Klammer, 2020).
4. **Encourage Entrepreneurial Experimentation:** Following the agile and lean philosophy, resource-constrained ventures would best embrace experimental business methods to experiment on new markets, features, and price models before going fully operational. This will reduce the exposure to risk as well as allow quick learning and development of capabilities needed in the platform, which will result in more efficient utilization of limited resources (Eisenhardt and Tabrizi, 1995).

5. **Support Policy and Regulatory Awareness:** Policymakers and regulators of the industry can promote growth through platforms by offering straight forward advice on online operations, security protocols, and international trade agreements. Entrepreneurial activities must actively seek to interact with regulatory systems to promote compliance and find alternatives to utilize policy incentives and government-supported programs that facilitate innovation and market growth (Parker, Van Alstyne, and Choudary, 2016).
6. **Enhance Stakeholder Engagement and Knowledge Sharing:** Platforms enjoy strong knowledge flows between founders, managers, employees, investors, and users. Organizational capabilities of knowledge sharing, training, and co-creation can be reinforced through the overall platform architecture, and maintained over time by ensuring the continued competitiveness in the market (Aliyu, 2023; Lawal et al., 2023).

These suggestions combined will offer an effective road map of entrepreneurial stakeholders, which allows one to recognize how the multidimensional capabilities of platforms may be coordinated to ensure sustainable and scalable market growth.

9. Research Implications and Future Directions

9.1 Contributions to Digital Entrepreneurship Research

The theoretical construct has been useful to the discipline of digital entrepreneurship as it offers a solution to the gap between the development of capability and market expansion result. It shows that the development of the entrepreneurship is not influenced by the technical infrastructure only or the demand in the market but the active interaction of several capabilities of platforms and ecosystem conditions. This understanding builds on previous studies of the role of platform strategy in emphasizing the interaction between the orchestration of capabilities, network effects, and the learning processes (Cusumano, Gawer, and Yoffie, 2019).

9.2 Implications for Socio-Technical Systems Design

The framework emphasizes the need to perceive platforms as socio-technical systems whereby

technology, organizational processes and human actors rely on each other. Researchers are also invited to investigate platforms as the systems on the basis of which learning, adaptation, and stakeholder interactions can co-determine the performance outcomes. This approach may guide the development of flexible, adaptable, and robust electronic platforms, which can support the expansion of the market in highly dynamic settings (Leonardi, 2011; Boudreau and Lakhani, 2013).

9.3 Opportunities for Empirical Validation

Although it is a conceptual framework, it offers precise research paths of empirical studies. To test the impact of the five dimensions of platform capability, future research can operationalize platform capability and measure this effect on market expansion (growth in the number of customers, geographical reach, and ecosystem activity). Platform advantage could be maintained by feedback loops and learning over time, but longitudinal research would be useful in this area, whereas comparative analysis across industries (e.g., fintech and e-commerce and digital services) would help increase the generalizability (Nambisan, Zahra, and Luo, 2019).

9.4 Future Research Directions

Subsequent studies might extend to address a number of extensions:

- **Contextual Moderators:** It is possible that the relationship between capabilities and market expansion may be moderated by industry, firm size, regulatory environment and culture. Having these variables can enhance theoretical accuracy.
- **Platform Evolution and Lifecycle Effects:** Studies of how capabilities change across the various lifecycle phases of a platform may give information on scaling approaches and capability renewal.
- **Inter-Capability Synergies:** The empirical research would consider the nature of interactions between capabilities (e.g., interoperability and data analytics) and their synergistic impacts on market growth.
- **Ecosystem Co-evolution:** The ability to discover how the capabilities of complementary actors affect and are affected by platform growth can be used to deepen ecosystem theory studies in the entrepreneurship domain.

9.5 Limitations

Although the framework has made contributions, it has a constraint related to the fact that it is conceptualized, which restricts instant generalizability. To prove the propositions in various sectors, in various geographic markets, and in different regulatory environments, they must be empirically tested. However, the framework is a powerful theoretical basis of explanations of the multifaceted processes of the entrepreneurial market expansion based on the influence of digital platform capabilities.

10. Conclusion

10.1 Summary of Conceptual Contributions

The present paper has elaborated on the formation of an extensive conceptual framework, which relates multidimensional capability of digital platforms with growth in entrepreneurial market, and makes both theoretical and practical contributions to the research of digital entrepreneurship. Combining the findings of the dynamic capability's theory, resource-based theory, and platform ecosystem literature, the framework reveals that the development of entrepreneurial markets is not only due to the individual technological investments but as a consequence of coordinated orchestration of various interdependent capabilities (Helfat et al., 2007; Barney, 1991; Rochet and Tirole, 2003).

The paper determines five dimensions of platform capability that are considered critical including platform interoperability, data analytics, user experience design, ecosystem integration and monetization architecture and explains how their evolution can promote scalable, resilient and adaptive market expansion. Notably, the model highlights that such interactions as capability, network effects, and learning loops are the major processes according to which digital ventures can convert the platform capabilities into long-term market growth. The current conceptual contribution builds upon the existing studies by highlighting the dynamic and relational character of platform capabilities instead of considering them as a solitary or fixed resource (Tiwana, 2014; Cusumano, Gawer, and Yoffie, 2019).

10.2 Key Insights on Platform-Driven Market Expansion

A number of important lessons can be drawn out of the conceptual analysis. First, there must be

capability orchestration: strategies that can effectively coordinate a variety of capabilities of a platform outperform those that evenly invest or concentrate on single dimension. Second, engagement with ecosystems is compounding: the combination of complementary partners, developers, and users provides many times more access to the platform and more value (Gawer, 2021; Boudreau & Lakhani, 2013). Third, feedback learning cycles allow platforms to react dynamically to market changes, monetize more, and improve the user experience, leading to a long-term competitive and rapidly changing digital market (Chesbrough and Appleyard, 2007).

Moreover, the framework offers an insight into the contexts that are resource-restrained, and even startups that have limited internal resources can realize market expansion when they harness ecosystem resources, experimentation, and learning. This observation is especially pertinent to the businesses functioning in the developing economies or hyper-competitive segments when a scale and agility are the key to survival and development (Adner, 2017; Aliyu, 2023).

10.3 Implications for Theory, Practice, and Future Research

Theoretically, the framework can add to the literature on digital entrepreneurship by providing a multidimensional model of platform capability formation and its connection to market results, structured. It incorporates socio-technical views, the ecosystem theory, and dynamic capabilities, offering a more holistic insight into the ways the digital ventures can reach scalable growth (Leonardi, 2011; Nambisan, Zahra, and Luo, 2019).

In practice, the framework provides practical advice to the start-up founders, platform managers, investors, and the facilitators of the ecosystem. It highlights the necessity of strategic ability investment, partnership strategies in the ecosystem, adaptive learning modalities, and experimentation-based approaches to reduce risks and have maximum effects in the market. Moreover, the framework may inform the policy and regulatory intervention that encourages platform-based entrepreneurship by enabling innovation-perceptive policies, cybersecurity principles, and transnational operation guidelines (Parker, Van Alstyne, and Choudary, 2016).

Empirical validation of the five dimensions of capabilities in different sectors, time-varying studies of the impacts of platforms on their lifecycle, studying inter-capability synergies and co-evolution of ecosystems are all included in future research directions. The framework would be further refined by comparative research across sectors and geographies, whereas quantitative measures of capability orchestration and market results would enable more accurate validation (Zheng, Xu, and Klammer, 2020; Tiwana, 2014).

10.4 Final Remarks

To sum up, the paper concludes with a strong and integrative conceptual framework of revealing the influence of multidimensional digital platform capabilities on entrepreneurial market expansion. It highlights the dynamic, interactive and learning oriented capabilities of the platform and gives scholars and practitioners a consistent lens to study and manage the platform-based ventures. This research offers a benchmark of future empirical studies, strategic decision-making, and policy intervention on the fast-changing digital entrepreneurship environment by connecting the development of capabilities to quantifiable outcomes in the market. Finally, the framework highlights the fact that winning platform plays are not anchored using technology alone, but the strategic coordination of capabilities, ecosystem involvement, and lifelong learning, which are all components that achieve sustainable market expansion in the digital era.

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