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Entrepreneurial Ecosystems and Platform Scalability: A Multi-Case Analysis of Southeast Asian Startups

Lingyuan Kong, Oyyappan Duraipandi*

School of Business, Lincoln University College, 47301, Malaysia.

***Corresponding author:** Oyyappan Duraipandi, Oyyappan@lincoln.edu.my.

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Abstract: This research examines how entrepreneurial ecosystem characteristics influence platform scalability trajectories in rapidly digitalizing Southeast Asian markets. The study addresses a critical gap in understanding how contextual factors shape platform growth patterns in emerging economies. Employing a comparative case study methodology, the research analyzes 18 platform startups across Singapore, Bangkok, and Jakarta, selected through theoretical sampling to represent diverse sectors including e-commerce, fintech, and mobility services. Data collection involved 54 semi-structured interviews with founders and senior executives, complemented by archival analysis of funding records, user growth metrics, and regulatory documents spanning 2020-2024. Through systematic qualitative coding and cross-case pattern analysis, the study identifies five ecosystem dimensions critically affecting scalability: venture capital availability, regulatory flexibility, digital infrastructure quality, talent pools, and market readiness. Results reveal that startups in Singapore achieve approximately twice the user base expansion rate of Jakarta-based platforms, primarily attributed to superior ecosystem support across all dimensions. The study developed a configuration framework to demonstrate how different ecosystem combinations produce varying scaling outcomes. High-growth platforms leverage ecosystems in three different ways: through regulatory arbitrage, talent aggregation, and infrastructure efficiency. In contrast, during the early stages of the ecosystem, platforms rely on compensatory means, such as international cooperation and leapfrog development. Our findings

suggest that the ecosystem effect is a stronger driver of early-stage scaling, and we confirm access to VC and regulatory clarification as the two most important factors explaining variance in growth rate, according to our qualitative results. It contributes to entrepreneurial ecosystem theory by disclosing micro-level mechanisms that link properties of the ecosystem to firm-level outcomes, as well as gives practical guidance for entrepreneurs doing business in a diverse range of Southeast Asian markets and policymakers shaping startup-friendly ecosystems.

Keywords: entrepreneurial ecosystems; platform scalability; Southeast Asian startups; digital infrastructure, venture capital

1. Introduction

Despite broad similarities, differences in the scaling outcomes of countries such as Korea—which was able to establish an early lead and maintain its momentum—illustrate that the setting matters a lot in determining platform success. They are particularly dependent on environmental factors, such as rapid user acquisition, the formation of network effects, and the widespread emergence of sustainable competitive advantages (Audretsch et al.,2018). The dynamic legal environment, the stages of ecological project maturity, and differences in SOA national server capacity also make them ideal experimental platforms (case studies) for researching ecosystem interoperability or scalability, as well as the impacts of open sustainability beyond local dimensions. More recent studies suggest that entrepreneurial ecosystems located within different geographical settings are highly variable, complex networks of individuals, institutions, and practices which either enable or constrain the introduction and expansion of new ventures (Cenamor et al., 2019).

Platform businesses are particularly vulnerable to ecosystem environments because they depend on network effects as well as cross-side externality and therefore have to achieve critical mass before competitor businesses can capture or move in and exploit. They have a rapid-expansion imperative that creates special dynamics in the ecosystem that are particularly important in new market environments where institutional voids abound, little infrastructure exists, and different degrees of

digitalization present particular challenges as well as opportunities (Chaudhary et al., 2024).

2. Theoretical Background

2.1. Entrepreneurial Ecosystem Dimensions

The entrepreneurial ecosystem framework has evolved from static component inventories to dynamic configurational paradigms since net ecosystem performance is determined by inter-element complementarities, which dominate componential strength (Google et al., 2023). The current ecosystem literature, heavily drawing on intellectual sources such as economic geography, innovation systems thinking, and industrial clustering literature, describes the ways that constellations of certain types of ecosystem features help determine what spillover or leverage opportunities organizations will be provided within those settings.

It is well aware that different ecological configurations may achieve similar results. Recognizing that their scale is mainly defined by gaining a competitive edge proving exceptionally successful as they launch into other businesses and markets, platform companies are naturally more prone to weaknesses in the context of their ecological environments. Platforms do best that come to market earliest; value-growth loop mechanisms fully penetrate as industry forces as well as network economics require such for reinforcement.

At the ecosystem level organizational learning processes reveal dynamical properties that are triggered not just by direct shocks to resource availability but also by signaling effects that create path dependence as well as cyclical stability within markets. Furthermore, ecosystems can have an influence on a platform firm's scalability through a collection of mechanisms known as knowledge spillovers that denote tacitly known information that is produced within their boundaries and could be transferred to additional firms through networks or mobility of labor.

Proximity is most important to informal and uncodified interactions that are necessary to cope with regional market and regulatory distinctiveness. Such location-based credibility premiums will have an impact on your ability to build relations as well as customer acquisition cost. These are created by ecosystem reputation effects.

Platform scalability and the ecosystem features are linked with bidirectional causation in theory, as platform development paths both influence and are influenced by the evolution of ecosystems. Succeeding platforms energize ecosystems by building essential trade-facilitating infrastructure that all ecosystem players profit from, upskilling as employees gain useful skills, and through demonstration effects encouraging entrepreneurs to try their luck. The broader systemic negative impacts of high-profile collapses can discourage the flow of talent and capital into platform initiatives from a deep sense of ecosystem vulnerability, but they may also seed learning about platform failure through systematic post-mortem analysis and response.

2.2. Platform Scalability Mechanisms

Platform scalability and the ecosystem features are linked with bidirectional causation in theory, as platform development paths both influence and are influenced by the evolution of ecosystems (Stam, 2015). Succeeding platforms energize ecosystems by building essential trade-facilitating infrastructure that all ecosystem players profit from, upskilling as employees gain useful skills, and through demonstration effects encouraging entrepreneurs to try their luck. More generally, systemic adverse externalities of high-profile failures create barriers to the flow of talent and capital toward platform initiatives as a result of increased ecosystem risk aversion. On the other hand, they may help us learn why systems fail by weathering a set of unexpected failures and responding systematically in their wake.

Paradoxically, however, ecosystems plagued by high-profile disasters never quite cast off their disgrace while the basics improve. This path-dependent development generates a series of self-fulfilling prophecies, reinforcing early successes and failures and continuing across multiple generations of enterprises.

The intermediaries between ecosystem resources and the capacity of platforms encompass institutional depth, alongside the quantity and quality of supportive entities such as industry associations, providers of business services, accelerators, and incubators (StartupBlink, 2024). A densely populated institutional environment facilitates swift mobilization of resources and dissemination of knowledge, creating a reservoir of specialized expertise that platforms may leverage throughout their developmental trajectory. The outcomes associated with scaling are not solely dependent on the alignment of the developmental stage of the platform with the

temporal aspects of the ecosystem evolution cycle; rather, they also depend on the willingness of other stakeholders to engage in this process. An analysis of the dynamics within ecosystems across Southeast Asian markets is illustrated in **Table 1**.

Table 1

Ecosystem Dimensions Across Three Markets

Ecosystem Dimension	Singapore	Bangkok	Jakarta
Venture Capital Density (deals/million population)	42.8	15.3	8.7
Regulatory Clarity Index (0-10 scale)	8.5	6.2	5.4
Digital Infrastructure Score (0-100)	87.3	68.5	61.2
Technical Talent Availability (per 1000 workers)	156	89	72
Market Readiness Score (0-100)	92.5	74.3	65.8
Average Time to Market Entry (months)	3.2	5.8	7.4

Note: **Table 1** synthesizes ecosystem metrics collected through interviews and archival analysis. Venture capital density represents completed deals per million population annually. Regulatory clarity and digital infrastructure scores derive from composite indices incorporating multiple sub-indicators. Technical talent availability measures software developers and IT professionals per thousand workers. Market readiness score reflects digital adoption rates, consumer purchasing power, and e-commerce penetration.

3. Methodology

In order to capture ecosystem variance while preserving analytical comparability, the research uses a comparative case study methodology, looking at 18 platform startups that are evenly distributed among Singapore, Bangkok, and Jakarta. Platforms that attained minimal feasible scale with sizable user bases, functioned long enough to detect scaling patterns, and competed in industries that allowed cross-market comparison were given priority in the case selection process, which was based on theoretical sampling assumptions. In order to ensure representation of a variety of business models within each ecosystem, the platforms that were chosen included marketplace models that linked buyers and sellers, service platforms that enabled

on-demand transactions, and content platforms that allowed for digital creation and dissemination.

47 possible examples were first screened as part of the platform selection process, and then each case was carefully assessed in relation to inclusion criteria such as operational transparency, data accessibility, and founder availability for in-depth interviews. With early-stage enterprises (less than two years), growth-stage platforms (two to four years), and mature platforms (more than four years) evenly divided among ecosystems, the final sample achieved balanced representation across platform age.

Archival examination of funding records, user growth metrics, and regulatory documents were paired with semi-structured interviews with founders and senior executives to examine scaling decisions and ecosystem interactions. Through open-ended questions that encouraged narrative answers, interview protocols examined significant incidents in platform development, resource acquisition tactics, regulatory obstacles, and adaptation mechanisms used to meet ecosystem restrictions. Analytical processes included iterative cycles of cross-case comparison to find trends across ecological contexts and within-case analysis to comprehend the trajectories of individual platforms. Axial coding created connections between ecosystem features and scaling results, while initial coding recorded ecosystem touchpoints where platforms engaged with ecosystem elements. Configuration analysis looked at how various combinations of ecosystem elements produced varied results, whereas pattern matching approaches compared observed scaling trajectories with theoretical assumptions about ecosystem influences. Instead of focusing on straightforward correlational links, the analytical process aimed to find processes that connect ecosystem traits to platform outcomes.

4. Empirical Findings

4.1. Ecosystem Influence Patterns

Singaporean platforms have earlier and closer access to growth capital on better terms compared to their Bangkok and Jakarta-based champions, which allows them to raise lots of money, spend exorbitantly on acquiring users, multiply quickly, and expand geographically at pace (Xie et al., 2022). This is the main thing that

distinguishes ecosystems. In more established ecosystems, this is where the benefits of advanced investor networks come in, including industry contacts, signals of credibility, and strategic direction on top of funding availability - helping reach good initial hires and early partnership deals to move things forward faster. In the long term, early resource advantages will translate into a deeper market vision and higher confidence from various stakeholders, thereby bringing competitive advantages. Different ecosystems have different financing mechanisms based on investor models: for example, investors in Singapore focus more on profitability standards rather than scale, with extended investment cycles; whereas investors in neighboring countries are willing to take on more risks. This mindset is also reflected in different growth paths. In Singapore, platforms priorities capturing the largest market share, paying little attention to unit economics. In contrast, registered enterprises in Bangkok and Jakarta focus on developing their economic circles from the outset.

When we examine the basic infrastructure of the internet, the issue is not just whether we can get online or what commercially viable connection speeds are; it also involves whether there is a financial system capable of supporting the survival of individual entrepreneurs. Infrastructure enables emerging platforms to bring higher-value products to market without handling all the underlying operations. In underdeveloped ecosystems, platforms require some moderate development, such as offline service points and cash on delivery, to build infrastructure and meet their needs. Therefore, these changes demand significant resources, which often flow to initiatives that are guided randomly rather than following the original linear approach—more iterations, higher unit costs, and broader and more complex operations.

4.2. Strategic Adaptation Mechanisms

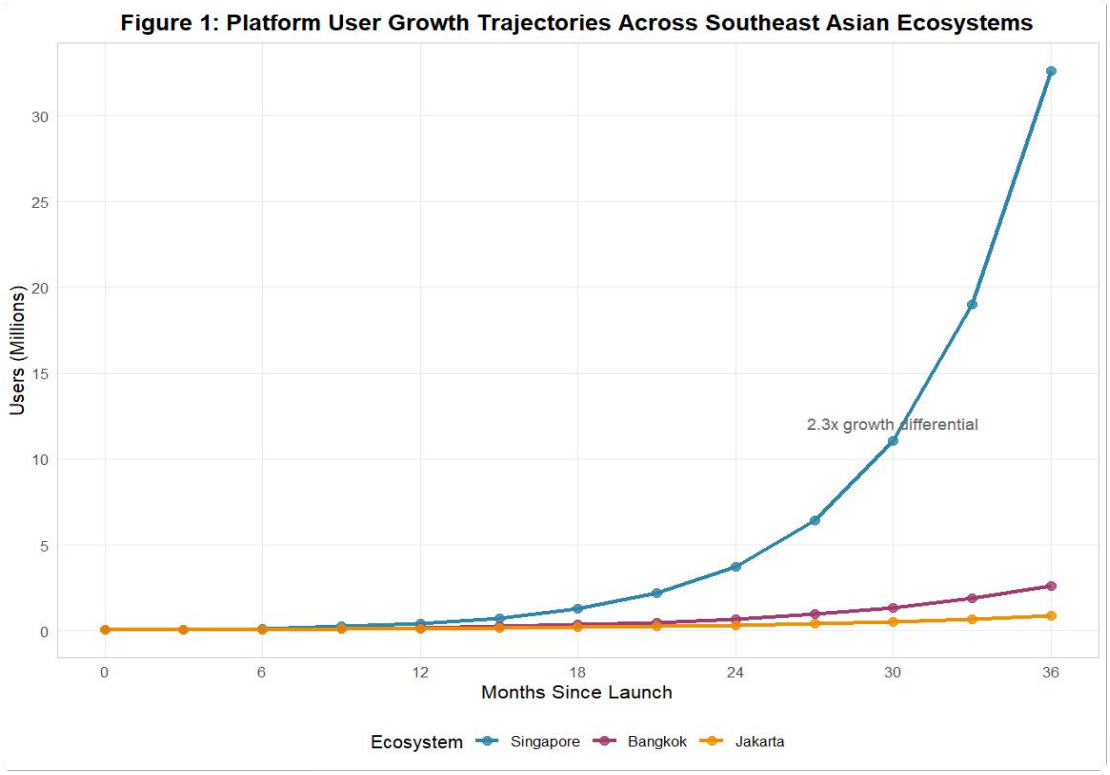
When it comes to a bit of imagination, any local disadvantage may eventually, or at the very least, be a thing of the past in certain cases. Therefore, computer ecosystems are able to be a source for competitive advantage. A well-known response has been to ensure access to international cooperation. By doing this, it interacts with both local and international partners who provide new technology, skills, or money for rewarding talent. At the same time, it continues to investigate technocratic self-organizing algorithms, since it does so through strategic investments in large-scale and domain-specific investments.

Tech companies hoping to survive in a low-cost environment must utilise the media adaptation process. Once a new format is created, innovation begins due to some very clever technical work carried out under market constraints: small and cheap, yet significant.

AI scripts are already available that provide 100% operational support for tasks. Frugal innovation refers to copying established organizational models, but only where the copy is self-adaptable and can provide essential services quickly at minimal cost. They do not copy simply what sells in the high-end market. Economically speaking, such businesses are often in a better position—particularly on a unit basis—than those of an environment pressured by evolution. Resource constraints may drive innovation and indeed contribute to sustainable competitive advantage. **Figure 1** shows the development of three kinds of habitat.

Figure 1

Platform User Growth Trajectories Across Southeast Asian Ecosystems



Note: **Figure 1** demonstrates exponential growth patterns across three ecosystem contexts, with Singapore-based platforms achieving significantly steeper trajectories. The divergence becomes particularly pronounced after month 12, suggesting ecosystem effects compound over time.

4.3. Temporal Dynamics of Ecosystem Effects

Ecosystem effects show non-linear patterns with influence changing over platform lifecycle stages, according to the temporal dimension of ecosystem-platform interactions. While mature platforms become more resilient to ecosystem inadequacies through acquired resources and established market positions, early-stage platforms exhibit increased sensitivity to ecosystem support, particularly with relation to seed financing access and regulatory clarity. According to the data, there are crucial turning points at which ecosystem support is necessary to advance to later phases of development. Platforms that are unable to obtain resources in a timely manner suffer from protracted stagnation or market exit (Xu and Dobson., 2019).

According to the threshold analysis, platforms need minimum ecosystem support levels in several dimensions at once rather than exceptional support in just one. This suggests that balanced ecosystem development yields better results than concentrated excellence in discrete areas.

Feedback loops are produced by ecosystem maturation processes, whereby successful platform exits produce seasoned businesspeople and workers who support follow-up endeavors, increased investor confidence results in more capital being available, and supporting infrastructure is reinforced as service providers gain platform-specific knowledge (Zhai et al., 2023). These feedback loops work together to create different ecosystem trajectories, with emerging ecosystems finding it difficult to reach a critical mass of entrepreneurial activity while established ecosystems accelerate their development advantage.

5. Discussion

The first confirms that certain entrepreneurial ecosystem features influence platform scalability through two underlying configurational achieving mechanisms, which involve the design of a particular mix of different configurations as opposed to a high-standard workshop. Critically, firms in resource-constrained ecosystems build compensating processes that may yield competitive advantages even where traditional assumptions would suggest optimal entrepreneurship is not possible. So, the reciprocal ecosystem-platform relationship establishes virtuous cycles; platform

success requires more ecosystems and better development. Both of these results imply that entrepreneurs should design ecosystem-level strategies based on compensatory mechanisms, and policymakers should work through the basic building blocks (e.g., digital infrastructure, regulatory certainty) before getting to more forward-looking components.

6. Conclusion

This study clarifies the complex relationships between platform scalability and entrepreneurial ecosystems in Southeast Asian countries by carefully analyzing 18 platform projects in three distinct ecosystem situations. The discovery of five key ecosystem components and their configurational implications on platform growth trajectories allows for theoretical advancement in understanding how contextual factors impact entrepreneurial outcomes in emerging economies. While ecosystem support makes platform scaling easier, entrepreneurial agency allows for some mitigation of ecosystem limits through strategic innovation and creative resource mobilization, as seen by the recording of adaptive strategies and compensatory mechanisms.

By clarifying the micro-level mechanisms that connect ecosystem characteristics to firm-level outcomes and providing useful advice for entrepreneurs and policymakers navigating various market environments, the study advances the theory of entrepreneurial ecosystems. Future studies should use longitudinal designs that follow ecosystem-platform co-evolution over long periods of time and expand the analytical methodology to other emerging market scenarios. Understanding the complex links between ecosystem features and platform scalability is crucial for both academic development and real-world applications in promoting entrepreneurial success, as platform business models increasingly drive economic transformation in emerging nations.

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