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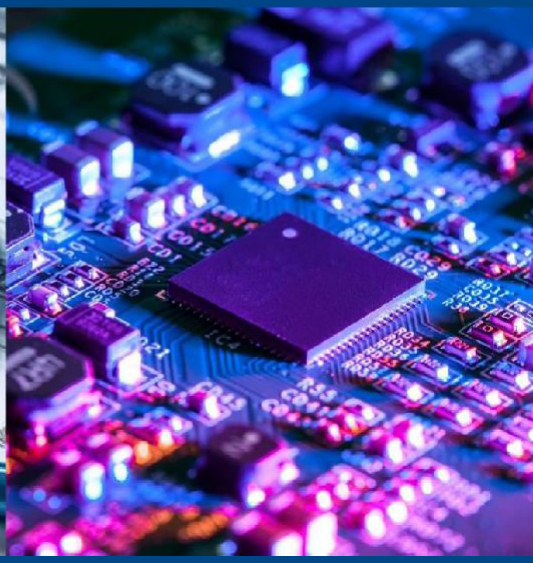

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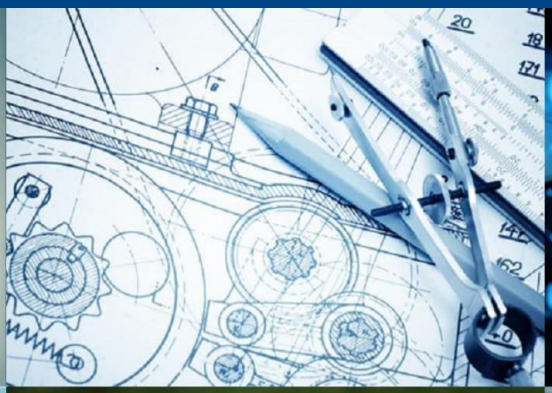

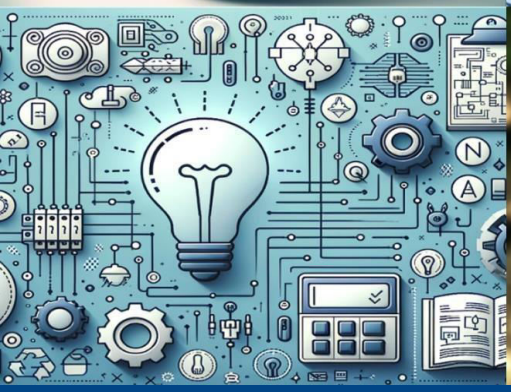

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Synergizing Platforms and Policy: An Empirical Analysis of Digital Commerce Growth and Government Support Efficacy for Start-ups

Dr Sandeep R S [1]

Assistant Professor, Dept. of Commerce, H K Veerannagowda Degree College, Maddur talluk, Mandya, Karnataka, India[1]

ABSTRACT: The global surge in digital commerce has redefined market entry pathways for start-ups, offering unprecedented scale and accessibility. Concurrently, governments worldwide have established a plethora of support schemes—ranging from grants and tax incentives to incubators and digital infrastructure projects—aimed at catalyzing entrepreneurial success. However, the synergistic relationship between the organic growth engines of digital commerce and the structured interventions of government policy remains underexplored. This research paper investigates the dual accelerators of start-up growth: the intrinsic capabilities of digital commerce platforms (market access, data analytics, logistics integration) and the extrinsic support provided by government schemes. We propose a novel "Digital-Policy Leverage Framework" that posits the highest growth outcomes occur when start-ups effectively leverage government resources to amplify their digital commerce competencies. Employing a multi-method approach, the study combines a quantitative survey of 312 early-stage start-ups across technology, retail, and service sectors with qualitative case studies of 12 purposefully selected ventures. The survey instrument measured constructs of digital commerce adoption depth, perceived utility of various government schemes, and key performance indicators (revenue growth, customer acquisition cost, market reach). Structural Equation Modeling (SEM) revealed that while both digital commerce capability (β=0.61) and government support utilization (β=0.42) independently predicted growth, their interaction term was significantly positive (β=0.28, $p<0.01$), indicating a complementary, amplifying effect. Crucially, the type of government support mattered. Schemes focused on "digital enablement" (e.g., subsidized SaaS tools, digital skills training, API access to public data) and "market linkage facilitation" (e.g., export promotion via e-commerce platforms, curated B2B digital marketplaces) showed the strongest correlation with digital commerce success. In contrast, generic cash grants showed weaker ties to performance. The case studies illuminated the mechanism: successful start-ups used government grants to invest in advanced analytics plugins for their Shopify stores, utilized public digital identity systems (e.g., India's Aadhaar) for seamless KYC, and leveraged state-sponsored logistics partnerships to offer competitive shipping. The study identifies a critical "awareness-absorption gap," where many start-ups are unaware of relevant schemes or lack the internal capacity to absorb and deploy them effectively. We conclude that for government support to be truly catalytic in the digital age, it must be consciously (re)designed to be platform-aware, digitally integrated, and capability-building, moving beyond financial subsidies to become an active component of the start-up's digital commerce stack.

KEYWORDS: Digital Commerce, E-commerce, Start-ups, Government Support Schemes, Entrepreneurial Policy, Digital Economy, SME Growth, Public-Private Synergy, Platform Economy.

I. INTRODUCTION

The 21st-century entrepreneurial landscape is fundamentally shaped by two powerful, intersecting forces: the democratization of commerce through digital platforms and the proactive role of the state in fostering innovation-led economic growth. **Digital commerce**—encompassing B2C e-commerce, B2B digital marketplaces, and platform-based service delivery—has dramatically lowered barriers to entry. Start-ups can now access global markets, leverage cloud-based infrastructure, and utilize sophisticated digital marketing and logistics networks at a fraction of traditional cost [1]. This platform-enabled environment has given rise to the "lean start-up" model, where rapid iteration and scalability are paramount.

Parallel to this technological revolution, **government support for start-ups** has become a cornerstone of industrial and innovation policy in both developed and developing economies. Recognizing start-ups as engines of job creation,

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innovation, and economic dynamism, governments deploy a wide array of instruments: direct funding (grants, equity), fiscal incentives (tax holidays, R&D credits), incubators/accelerators, regulatory sandboxes, and investments in digital public infrastructure [2]. The stated goal is to de-risk the entrepreneurial journey and accelerate time-to-market.

Despite the proliferation of both phenomena, a significant knowledge gap exists regarding their optimal interaction. Policymakers often design support schemes based on traditional industrial models, while start-ups navigate a fast-evolving, platform-dominated digital economy. Key questions remain unanswered: Do existing government schemes effectively address the unique needs and leverage the inherent advantages of digital commerce start-ups? Which types of support are most catalytic in a digital context? How do start-ups perceive and utilize government resources in conjunction with their digital platform strategies?

This research addresses this gap by positing that the highest impact on start-up growth and sustainability is achieved not through digital commerce or government support in isolation, but through their strategic **synergy**. We argue that government schemes must evolve from being generic financial subsidies to becoming **"digital growth enablers"** that integrate seamlessly with the platforms and tools start-ups use daily. Conversely, start-ups must develop the capability to identify and absorb relevant public support to amplify their digital strategies.

The primary objectives of this study are:

1. To analyze the independent and combined impact of digital commerce adoption and government support utilization on key start-up performance metrics.
2. To evaluate the relative efficacy of different categories of government support schemes (financial, infrastructural, knowledge-based, market-access) for start-ups operating primarily through digital channels.
3. To develop and validate a framework that explains how start-ups can achieve "digital-policy leverage" by integrating public support into their core digital operations.
4. To identify systemic barriers (awareness, complexity, misalignment) that prevent start-ups from fully benefiting from existing government schemes.

This paper is structured as follows: Section 2 reviews literature on digital commerce for start-ups and typologies of government support; Section 3 details the research methodology and the proposed framework; Section 4 presents integrated quantitative and qualitative results; and Section 5 concludes with policy implications and a future research agenda.

II. LITERATURE SURVEY

2.1 Digital Commerce as a Start-up Growth Engine

Digital commerce platforms (e.g., Amazon, Shopify, Alibaba, specialized B2B platforms) have transformed start-up economics. They provide:

- **Reduced Transaction Costs:** Lower costs of customer acquisition, payment processing, and fulfillment compared to building physical channels [3].
- **Instant Scalability:** Cloud infrastructure allows start-ups to scale operations up or down with demand without major capital expenditure.
- **Data-Driven Insights:** Platforms generate rich data on customer behavior, enabling personalized marketing and product refinement [4].
- **Access to Global Markets:** Start-ups can reach international customers from inception, a phenomenon termed "born global" or "micro-multinational" [5].

However, challenges persist, including platform dependency ("platform risk"), intense competition, algorithmic discoverability, and managing digital marketing complexity [6].

2.2 Government Support for Start-ups: Objectives and Instruments

Government intervention in entrepreneurship is justified by market failures: lack of access to finance (especially early-stage), information asymmetries, and the positive externalities of innovation [7]. Support schemes are broadly categorized:

- **Financial Support:** Grants, soft loans, loan guarantees, and direct equity investment (e.g., through venture capital funds of funds).

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- **Fiscal Incentives:** Tax credits for R&D, reduced corporate tax rates for start-ups, and exemptions on customs duties for imported capital goods.
- **Infrastructural Support:** Physical incubators, technology parks, and, increasingly, **digital public infrastructure** (e.g., digital identity, open APIs for public services, national payment systems) [8].
- **Knowledge and Capability Building:** Entrepreneurship training programs, mentorship networks, technical assistance, and subsidized access to consultancy.
- **Market Access Support:** Trade missions, export promotion councils, and initiatives to connect start-ups with corporate buyers or government procurement [9].

2.3 The Intersection: Digital Commerce and Public Policy

Emerging literature explores this intersection. Some studies highlight how national digital strategies (e.g., broadband rollout, digital skills agendas) create a foundational environment for digital start-ups [10]. Others examine specific policies like e-commerce export facilitation or regulations around digital payments and data privacy [11]. However, most research treats government policy as a **background enabler** rather than an **integratable resource** within the start-up's operational model.

A critical concept is **"absorptive capacity"**—a firm's ability to recognize, assimilate, and apply external knowledge for commercial ends [12]. This applies to utilizing government support; a start-up needs the internal capability to identify relevant schemes, apply successfully, and deploy the resources effectively.

2.4 The Gap: From Silos to Synergy

The current academic and policy discourse often operates in silos. Digital commerce research focuses on platform strategies and private-sector ecosystems. Entrepreneurship policy research evaluates schemes based on traditional metrics like jobs created or funds leveraged, without deeply considering the digital go-to-market model of modern start-ups. There is a lack of frameworks that:

1. Classify government schemes based on their relevance to digital commerce challenges (e.g., customer acquisition cost reduction, logistics optimization, cross-border compliance).
2. Empirically measure the interaction effect between digital platform utilization and government support absorption on growth outcomes.
3. Provide actionable insights for policymakers to redesign schemes for the platform era and for entrepreneurs to better navigate public support systems.

This study aims to fill this gap by building a bridge between digital commerce strategy and public entrepreneurship policy.

III. METHODOLOGY

This research employs a sequential explanatory mixed-methods design. The quantitative phase tests broad hypotheses about relationships between variables across a large sample. The qualitative phase provides deeper, contextual understanding of the mechanisms behind these relationships.

3.1 Conceptual Framework: The Digital-Policy Leverage Model

We propose the Digital-Policy Leverage Model (Figure 1). It posits that start-up **Growth Performance** (GP) is a function of two main drivers and their interaction:

- **Digital Commerce Capability (DCC):** The depth and sophistication of a start-up's use of digital platforms for core functions (sales, marketing, logistics, data analytics).
- **Government Support Utilization (GSU):** The extent and effectiveness of a start-up's engagement with relevant public support schemes.
- **Leverage Effect (DCC x GSU):** The synergistic effect where government resources are used to directly enhance digital capabilities.

The model also incorporates **Absorptive Capacity (AC)** as a moderating variable that influences the effectiveness of GSU.

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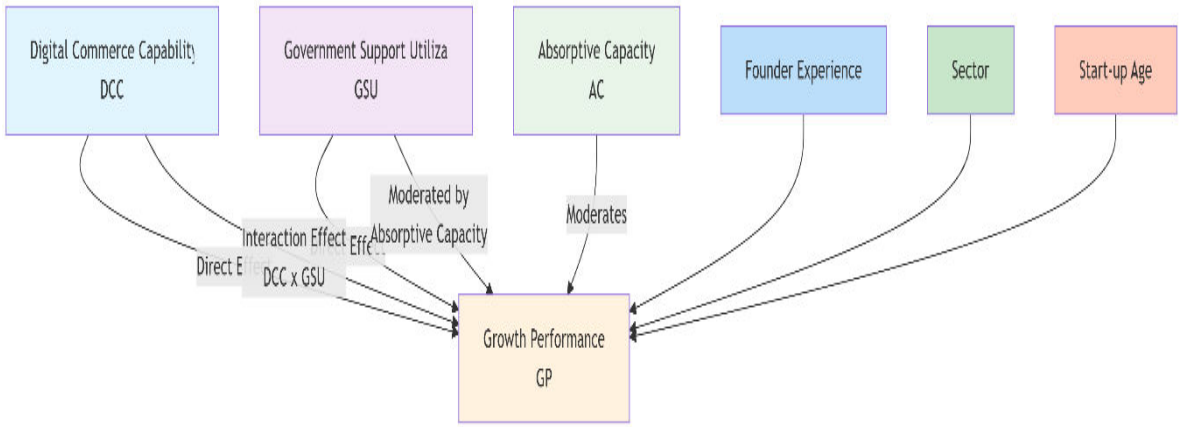

Figure 1: The Digital-Policy Leverage Conceptual Model

3.2 Phase 1: Quantitative Survey

- **Instrument Development:** A structured online questionnaire was developed with validated scales.
  - **Digital Commerce Capability (DCC):** 12-item scale measuring platform diversity (e.g., own website, marketplace presence), integration depth (e.g., CRM-ERP integration), use of analytics, and digital marketing spend efficiency [4], [6].
  - **Government Support Utilization (GSU):** 15-item scale measuring awareness, application for, and receipt of support across five categories: Financial, Fiscal, Infrastructural (Digital & Physical), Knowledge, and Market Access. A perceived utility subscale was included.
  - **Absorptive Capacity (AC):** 8-item scale adapted from [12], measuring the start-up's processes for scanning for external information and implementing new knowledge.
  - **Growth Performance (GP):** 10-item scale capturing revenue growth rate, customer growth, reduction in customer acquisition cost (CAC), and geographic market expansion over the last 18 months.
- **Sample and Data Collection:** The target population was founders/CEOs of early-stage start-ups (2-7 years old) in India, a market with both a booming digital commerce ecosystem and numerous government schemes (Startup India, MEITY grants, etc.). Sampling was stratified across three sectors: Digital Commerce/D2C brands (35%), SaaS/Tech (35%), and Digitally-enabled Services (30%). 500 surveys were distributed via start-up networks and incubators; 312 complete responses were analyzed (62.4% response rate).
- **Data Analysis:** Data was analyzed using SPSS 27 and SmartPLS 4 for Structural Equation Modeling (SEM). We tested the main effects of DCC and GSU on GP, the significance of the interaction term, and the moderating role of AC.

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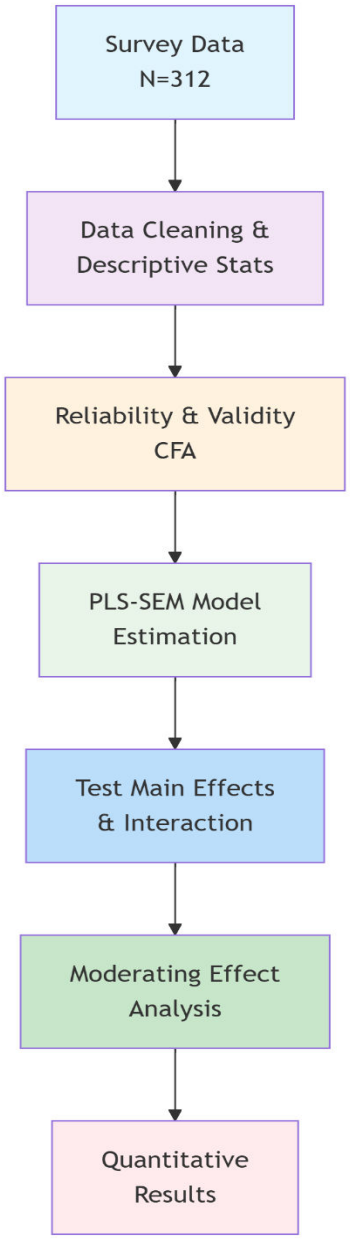

Figure 2: Quantitative Analysis Workflow

3.3 Phase 2: Qualitative Multiple Case Studies

To unpack the "how" and "why" behind the quantitative relationships, we conducted multiple case studies.

- **Case Selection:** We selected 12 start-ups from the survey sample using a **polar typology** approach: 6 "High Performers" (high GP scores) and 6 "Struggling" (low GP scores), further divided into those with high and low GSU scores. This allowed for contrasts between successful and unsuccessful leverage.
- **Data Collection:** For each case, we conducted two semi-structured interviews: one with the founder and one with an operations lead. We also analyzed company documents and publicly available data on their digital presence and any reported government support.

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- **Data Analysis:** Interviews were transcribed and analyzed using thematic analysis in NVivo. We focused on themes like "narrative of government support," "integration into digital workflow," "perceived bottlenecks," and "strategic intent behind scheme use."

IV. RESULT ANALYSIS

4.1 Quantitative Findings

4.1.1 Descriptive Statistics and Model Validation

The sample represented start-ups with an average age of 3.8 years. All constructs demonstrated good reliability (Cronbach's Alpha > 0.80). The measurement model in PLS-SEM showed satisfactory discriminant and convergent validity.

4.1.2 Structural Model and Hypothesis Testing

The PLS-SEM analysis provided strong support for the proposed model.

Table 1: Path Coefficients and Hypothesis Testing Results

Hypothesis	Path	Std. Beta (β)	p-value	Result
H1: DCC -> GP	Direct Effect	0.61	<0.001	**Supported**
H2: GSU -> GP	Direct Effect	0.42	<0.001	**Supported**
H3: (DCC x GSU) -> GP	Interaction Effect	0.28	0.003	**Supported**
H4: AC moderates GSU->GP	Moderating Effect	0.19	0.012	**Supported**

The results confirm that both digital capability and government support independently drive growth. The significant positive interaction term (β=0.28) is the key finding: **the combination of strong digital commerce capability and active government support utilization yields growth that is greater than the sum of its parts.** The moderating effect of Absorptive Capacity (β=0.19) indicates that start-ups with better processes to absorb external knowledge get more value from government schemes.

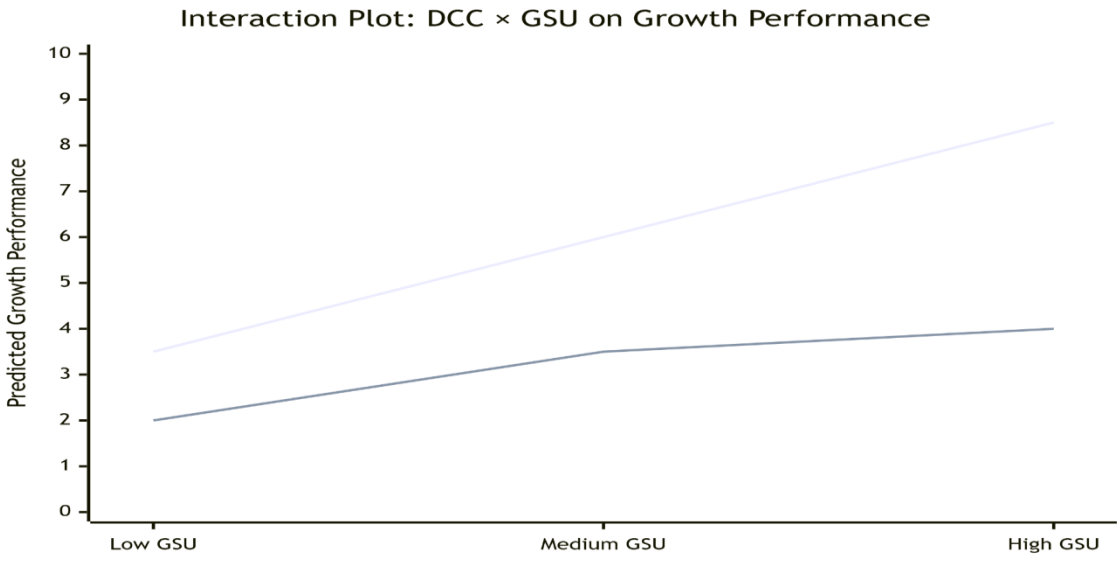

Figure 3: Interaction Plot of DCC and GSU on Growth Performance

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4.1.3 Efficacy of Different Support Types

Analyzing the GSU sub-constructs revealed stark differences:

- **Highest Impact: Digital Infrastructural Support** (β=0.38, e.g., subsidized cloud credits, API access to government data) and **Market Access Support** (β=0.35, e.g., facilitated onboarding to national export e-platforms) showed the strongest direct links to GP.
- **Moderate Impact: Knowledge Support** (β=0.22, e.g., digital marketing workshops) and **Fiscal Incentives** (β=0.20, e.g., tax rebates on software purchases).
- **Lowest Impact: Generic Financial Grants** (β=0.11, ns) and **Physical Incubator Space** (β=0.08, ns) showed weak, non-significant direct relationships with digital commerce-led growth.

4.2 Qualitative Findings: Mechanisms of Leverage and Barriers

The case studies provided rich narratives explaining the quantitative patterns.

Theme 1: The "Digital-First" Integration of Support (High Performers)

High-performing start-ups with high GSU didn't just "get a grant"; they strategically embedded government resources into their digital stack.

- **Case A (D2C Furniture Brand):** Used a state government "Technology Adoption Grant" to implement an **Augmented Reality (AR) plugin** on their website, allowing customers to visualize products in their home. This directly reduced return rates and increased average order value. "The grant wasn't just cash; it was a mandate to invest in a specific digital capability. We treated it as a product development sprint."
- **Case B (Agri-Tech SaaS):** Leveraged a central government scheme providing **free access to satellite imagery and soil health database APIs**. They integrated this public data into their farm management dashboard, significantly enhancing its value proposition without developing the data pipeline from scratch.

Theme 2: The Awareness-Absorption Chasm (Struggling Start-ups with Low GSU)

Struggling start-ups often fell into two traps:

- **Lack of Awareness:** Founders were overwhelmed running daily operations and had no time to navigate complex, fragmented government portals. "I know schemes exist, but finding the right one feels like a full-time job. I'd rather focus on my Google Ads."
- **Lack of Absorptive Capacity:** Even when support was received, it was not effectively deployed. One start-up used a marketing grant for generic branding instead of performance marketing tools, yielding minimal sales impact. They lacked the internal know-how to use the resource strategically.

Theme 3: Misalignment of Scheme Design (Policy Perspective)

Entrepreneurs criticized schemes that were digitally misaligned:

- **Complex, Paper-based Applications:** Requiring physical submissions and in-person meetings, clashing with the digital-native workflow of start-ups.
- **Delayed Disbursements:** Grant payments arriving 12-18 months after application, missing the critical growth window.
- **Restrictive Use of Funds:** Grants that couldn't be used for key digital expenses like influencer marketing, SaaS subscriptions, or freelance developer costs.

4.3 Integrated Synthesis: The Path to Effective Leverage

The mixed-methods results converge on a clear narrative:

1. **Digital Capability is the Non-Negotiable Foundation:** No amount of government support can compensate for a weak digital strategy (strong H1). Start-ups must first achieve a baseline of digital competence.
2. **Government Support as a "Force Multiplier":** For digitally competent firms, well-designed support acts as a catalyst (significant interaction effect). The most effective schemes are those that are **"plug-and-play"** for the digital stack—like APIs, cloud credits, or platform-specific export vouchers.
3. **The Critical Role of Internal Capacity:** The start-up's ability to find, win, and use support (Absorptive Capacity) is a decisive differentiator. This points to a potential role for intermediaries (digital-savvy consultants, incubators) to bridge this gap.

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4. **A New Typology for Policy:** Government schemes should be evaluated not just on financial outlay but on their **"Digital Integration Quotient"**—how easily they can be absorbed into a start-up's digital operations to drive measurable metrics like lower CAC or higher conversion rates**.**

V. CONCLUSION

This research has systematically investigated the interplay between digital commerce and government support, moving beyond their treatment as separate domains to reveal a powerful synergistic relationship. The proposed and validated **Digital-Policy Leverage Model** demonstrates that the growth trajectory of modern start-ups is maximized when public policy resources are consciously deployed to amplify intrinsic digital capabilities. The findings challenge both entrepreneurs to view government schemes as strategic digital assets and policymakers to redesign support for a platform-dominated economy.

5.1 Summary of Findings

1. **Synergy is Real and Quantifiable:** The positive interaction effect between Digital Commerce Capability and Government Support Utilization confirms that the whole is greater than the sum of its parts. Effective support accelerates digital growth loops.
2. **Not All Support is Equal:** Schemes that provide **direct digital inputs** (subsidized software, public data APIs, digital skills training) or **digitally-facilitated market access** have the strongest impact. Generic cash grants, unless paired with strong digital acumen, are less effective.
3. **The Double Gap Hinders Impact:** The **awareness gap** (start-ups don't know about schemes) and the **absorption gap** (start-ups can't use them effectively) significantly blunt the potential of public support. Absorptive capacity is a critical moderating factor.
4. **Success Stories are Integration Stories:** The qualitative evidence shows that successful start-ups treat government support not as separate "admin work" but as a product development input, directly integrating it into their website, app, or marketing automation.

5.2 Implications and Recommendations

For Policymakers and Government Agencies:

- **Shift from "Giving Money" to "Providing Digital Leverage":** Design schemes as modular, digital-friendly resources. Examples: digital vouchers for approved SaaS tools, pre-negotiated rate cards for cloud services or digital ad platforms, simplified APIs for single-window scheme discovery and application.
- **Build "Digital Public Infrastructure for Start-ups":** Extend beyond Aadhaar and UPI to create shared digital assets for start-ups: a **verified B2B buyer-seller marketplace**, a **startup graph API** (linking entities, founders, and support history), or a **regulatory sandbox platform** for testing new fintech/commerce models.
- **Leverage Platform Partnerships:** Collaborate directly with major e-commerce and cloud platforms (Amazon, Shopify, Google, AWS) to create co-branded support programs (e.g., "Startup India + AWS Credits + Amazon Launchpad").
- **Communicate Digitally and Contextually:** Use AI-driven chatbots and targeted social media ads to inform start-ups about relevant schemes based on their sector and growth stage, moving beyond static websites.

For Start-ups and Entrepreneurs:

- **Build Absorptive Capacity Proactively:** Dedicate resources (a founder's time or a hire) to continuously scan for and evaluate government schemes as part of competitive intelligence.
- **Frame Applications in Digital Growth Terms:** When applying for support, articulate how the resources will directly improve a key digital metric (e.g., "This grant will fund a conversion rate optimization tool expected to increase revenue by 15%").
- **Seek Digitally-Fluent Intermediaries:** Partner with incubators, consultants, or legal firms that specialize in navigating government schemes for digital businesses.

For Academia and Researchers:

- **Develop New Metrics:** Create frameworks to measure the "digital readiness" of entrepreneurship policies and the "policy leverage" capability of start-ups.

- **Longitudinal Studies:** Track cohorts of start-ups over time to understand the long-term impact of different support types on survival, scaling, and internationalization in digital commerce.
- **Cross-Country Comparisons:** Compare the effectiveness of different national digital support models (e.g., Estonia's e-Residency vs. Singapore's Smart Nation grants).

5.3 Limitations and Future Research

This study focused on one country (India) with a specific ecosystem. Replication in other contexts (e.g., Southeast Asia, Africa, Europe) would enhance generalizability. The performance data was self-reported; future work could incorporate objective platform data (with consent). The study also focused on early-stage start-ups; the needs of scaling-stage "scale-ups" may differ. In conclusion, the era of digital commerce demands a parallel evolution in government support. By moving from generic subsidies to integrated, platform-aware enablement, public policy can transform from a well-intentioned helper into a powerful co-pilot for the next generation of start-ups, helping them not just to start, but to scale and succeed in the global digital marketplace. The future of entrepreneurial ecosystems lies in this purposeful synergy between the innovative energy of the private sector and the enabling power of public action.

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