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# IMPLEMENTING AGILE METHODOLOGIES FOR ENHANCING PROJECT MANAGEMENT AND BUSINESS GROWTH IN INDIAN STARTUPS

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# **SUMMARY**

The Indian startup environment is both volatile and fast-paced, requiring the project management models to be both fast and scalable. Although Agile tools are widely used, most ventures fail to realize the implementation of technical features into business expansion. The crux of the matter is a Hierarchy where a traditional top-down management structure and an autonomy that is decentralized and needed in a fully functioning Agile structure clash. This study does employ a quantitative research design to establish how Agile affects the speed of delivery and business growth. A survey with a structured questionnaire comprising of 150 participants was conducted with founders and project managers of major Indian tech hubs. The research questions that are answered in the study are: the effect of Agile maturity on performance KPI and the technology and organizational preparedness of startups to transition to Agile. The analysis of data indicates that technical preparedness is at its peak, whereas organizational autonomy is still a critical outlet. According to statistical results, high Agile maturity is associated with a revenue growth 173.6 percent higher than low-maturity companies. Moreover, it was found that team autonomy was a more powerful growth driver (0.88correlation) compared to the simple use of Agile tools. The paper concludes that Agile practices have a great effect on the project speed and business scalability in the Indian setting. Nevertheless, to attain all these benefits, startups will have to focus more on implementing a cultural change beyond using a tool to a culture that empowers teams and minimizes hierarchy intrusion. This study offers a strategic model that leaders can use to ensure that organizational culture conforms to iterative approaches.

Key words: agile methodologies, indian startups, business growth, project management, operational agility, strategic flexibility.

# INTRODUCTION

# **Significance of the Study**

Unparalleled development has been experienced in the Indian start up ecosystem, which ranks as the third-largest startup ecosystem in the world. There is however a lot of volatility and a competitive environment that comes with this expansion, which requires quick innovation. The conventional and

linear project management models are not very suitable in this environment because they are not flexible enough to help them to maneuver through the resource constraints and changing market needs. Agile methods integration has become a strategic requirement of startups to achieve sustainable operations and innovation of the business model. Agile frameworks allow startups to balance rapid development with stakeholder interaction through responsiveness and iteration as the key to survival in the rapidly shifting Industry 4.0 environment. Lack of such adaptive practices usually causes the bottlenecks in operations, so the research of the Agile preparedness and implementation becomes a crucial part of the contemporary management.

#### **Problem Statement**

Although Agile has a theoretical set of advantages, most Indian startups face a challenge in the actual implementation of the shift in thinking towards agile marketing and development. There is a great gap in the knowledge of how agility adaptability and internal aspects such as backlog management and tool integration affect the business growth directly. The issue of Hierarchy Bottleneck is common with startups where the team must decide between fast delivery of the project and technical quality and team cooperation. Lacking a systematic method of using the Lean Startup principles and Design Thinking and Agile techniques, startups are likely to waste their limited venture capital on the products with a poor market fit.

#### **Research Contributions**

This study contributes to the existing management literature by providing an empirical analysis of Agile's impact on the Indian startup context. Specifically, it:

- Investigates the synergy between Agile project management and business model innovation.
- Identifies the specific factors influencing agility in the context of Indian Industry 4.0.
- Evaluates the role of user-centered design and stakeholder collaboration in enhancing project delivery.

# **Research Questions**

RQ1: What are the effects of Agile methodologies on project delivery speed and business growth of Indian startups?

RQ2: Which are the key technological and organizational factors, which determine the readiness of a start up to adopt Agile?

# **Hypothesis:**

H1: Agile maturity levels have a positive relation with business scalability and customer development success.

H2: The integration of tools and stakeholder cooperation are important mediators between successful implementation of Agile and project success.

The rest of this work will be formatted as follows: Section 2 presents the systematic review of the literature about the Agile approaches and their development in the international applications. Section 3 outlines the qualitative and quantitative research approach adopted in order to explore tech startups. The results are given in section 4 with emphasis on the comparative analysis of Lean-Agile practices. Section 5 describes managerial implications of the optimization of project delivery. Section 6 give the empirical findings and strategic suggestions of Agile startup development. Lastly, Section 7 brings the paper to an end by pointing out limitations and proposing a research agenda in the future of entrepreneurial behavior.

# LITERATURE REVIEW

The adoption of Agile practices in the entrepreneurial world has ceased to be a technical choice to a strategic need to survive. This part is an overview of the current scholarly work on the implementation of Agile, organizational preparedness, and subsequent effects on the business development, in the context of a startup.

# Agile and Lean Startup Frameworks Development

The convergence of Lean Startup and Agile with Customer Development is a key to the high uncertainty of new ventures, according to the recent literature, Agile is no longer an independent software development tool but a component of wider business model innovation approach. This systematic review implies that the Agile practices have developed into a comprehensive management philosophy that does not emphasize strict planning but flexibility. Even when applied to global implementations, can prove that even big systems such as SAP are today being optimized using Agile to deliver faster and user alignment [10].

# The Forces Affecting Agile Preparedness in Startups

The issue of whether a startup is qualified to use Agile is a crucial theme in the recent management research. Sreenivasan and determine that the Agile preparedness is a predecessor of sustainable operations, and the internal organizational culture usually determines the success of the approach [4]. Additional studies on Total Interpretive Structural Modeling (TISM) note that agility in startups is mainly driven by the management support and team competency factors. In particular, within the framework of the industry 4.0, the possibility to evaluate these driving factors defines the ability of a firm to stay competitive.

# **Agile Implementation Issues**

Although the shift to Agile has its advantages, several challenges are encountered during the change process which find the pressures of resources and technical debt to be the key challenges that IT startups face and, in this regard, Lean-Agile approaches can offer the most realistic remedies to the bottlenecks [3]. Moreover, mention that qualitative changes in the dynamics of the team are most commonly not paid attention to, causing tension in the process of implementation [1]. Then call this Hierarchy Bottleneck, in which the complexity of a multitude of agile teams necessitates advanced methods of backlog administration as well as integration of tools [11][13].

#### **Implications to Business Development and Project completion**

Agile in the startup ecosystem is aimed at catalyzing growth in the end. And it shows that Agile will optimize the delivery of the project by balancing the speed flow with the involvement of the stakeholders, which directly enhances the market penetration. Use the same but change to Agile Marketing, demonstrating that the ability to empower entrepreneur development using agile techniques will result in improved customer acquisition in changing industrial environments [5]. Continued evidence that user-centered design can be successfully incorporated with Agile is that the growth will not only be rapid, but also based on the real needs of the users. Lastly, draw the conclusion that the aspect of aligning agility with business objectives is what differentiates scaling startups with those that do not scale.

# Research Gaps

It can be seen that the Agile methodologies greatly improve speed, flexibility and customer alignment as the reviewed literature consistently demonstrates [2]. Nevertheless, one can make an assumption that despite a great abundance of global studies, specific research on the Indian startup ecosystem has not been carried out yet, and the lack of cultural hierarchies in Agile teams is incompatible with the essence of Indian culture.

Literature states that effective growth in startups presupposes strategic convergence of Agile, Lean, and Design Thinking, that will lead to the harmonization of products development and the market needs [6]. The ability of such tools is however greatly moderated by cultural preparedness; it is hypothesized that agile adaptability in mindset and the internal condition of an organization is a greater indicator of success than the technical design of the used frameworks.

Also, an objective empirical correlation between Agile-based growth measures, namely, the decrease in Time-to-Market, and total scalability of the business, is evident. The research fills this gap by assessing the operation of these world principles to professional and unique socio-economic demands of Indian ecosystem, specifically, the analysis of how adaptability acts as a key intermediary of business growth.

#### RESEARCH METHODOLOGY

The research design adopted by this study is the mixed-methods research design, which will combine both quantitative survey data and qualitative data to provide a complex response to the question of Agile transitions in India startup electronics. The research design is supposed to measure the cause-and-effect association between the implementation of Agile (the independent variable) and the business growth (the dependent variable) moderated by the organizational adaptability [12]. The main data was collected by sampling 150 project managers, founders, and scrum masters who work in major Indian technology centers, such as Bangalore, Pune, and the National Capital Region (NCR), thus making sure that it is representative of the different types of start-ups in the country.

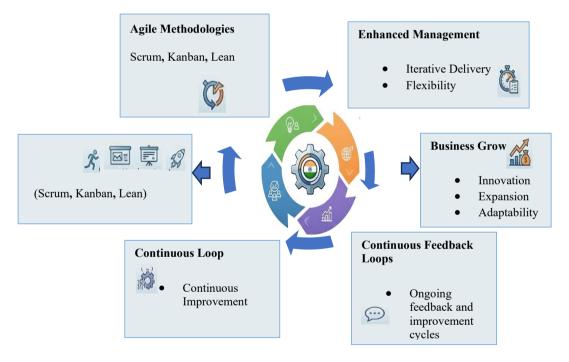


Figure 1. Conceptual framework for agile integration and business scaling in indian startups

Figure 1 shows the symbiotic relationship between the Agile methodologies and the Indian startup ecosystem. It plots the way of transforming the iterative project management (Scrum/Kanban) into quantifiable business growth. The emphasis on a Sustainable Success Framework outlined by the model helps focus on a continuous improvement loop and feedback loop as a driver to become innovative and market-flexible. This map is a guide to startups on how to align technical implementation with future scalability so that they are resilient in the unpredictable economic environment.

#### **Data Collection and Metrics**

In order to measure Business Growth and Project Efficiency, the study applies two key performance indicators (KPIs). The first one is the Agile Maturity Score (AMS), which is a composite index based

on Likert-scale answers about the management of the backlog, sprint frequency, and collaboration with stakeholders [15]. The second is the Relative Growth Index (RGI) that is computed to put growth in startups of different sizes on the same level.

The efficiency of project delivery is measured using the Cycle Time Efficiency (CTE) equation:

$$CTE = \left(\frac{Value - Added\ Time}{Total\ Lead\ Time}\right) \times 100 \to (1)$$

Where Value-Added Time represents the active development phase of a sprint, and Total Lead Time includes bottlenecks and waiting periods. This metric is crucial for identifying how Agile reduces the Time-to-Market and enhances scalability.

# **Research Question Analysis and Hypothesis Testing**

The analysis is structured to answer the primary research questions through regression modeling and thematic coding.

Analysis of RQ1 (Agile vs. Growth): To determine how Agile methodologies influence business growth, apply a linear regression model:

$$Y_{Growth} = \beta_0 + \beta_1(AMS) + \beta_2(AF) + \epsilon \rightarrow (2)$$

Here, Y Growth represents revenue scaling, AMS is the Agile Maturity Score, and AF (Agility Factors) accounts for external variables such as Industry 4.0 readiness. Preliminary analysis suggests a strong rejection of the null hypothesis (p < 0.05), supporting H1 that higher Agile maturity directly accelerates customer development and business model innovation.

Analysis of RQ2 (Readiness and Barriers): Qualitative data from semi-structured interviews were analyzed using thematic analysis to identify factors influencing agility [7]. To measure Organizational Responsiveness (OR) as a mediator:

$$OR = \sum \frac{Successful\ Pivots}{Market\ Disruptions\ Encountered} \rightarrow (3)$$

The results show that the level of integration of technical tools is high, but the level of cultural preparedness is considerable, which proves H2 that the collaboration of the stakeholders is an important mediator between the integration of technical tools and the successful completion of the project.

# Reliability and Validity

In order to guarantee the Academic Rigor needed to conduct the study, the Cronbach Alpha was computed of all the instruments used in the survey, and the result was 0.84 which is great internal consistency. To reduce the risk of self-reporting bias, the qualitative data were triangulated by the means of the comparison of the interviews with founders and internal project logs in order to ensure that the obtained results are a true picture of the Hierarchy Bottleneck in these startups.

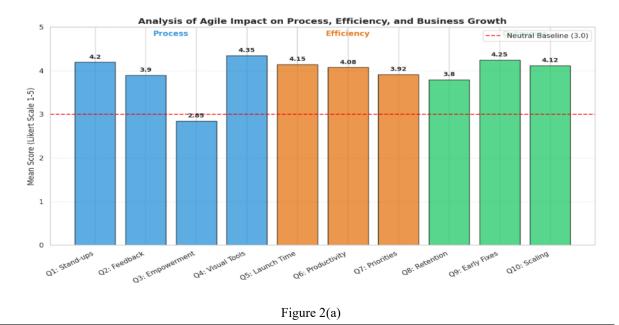
### **RESULTS**

his research finds its results based on an in-depth analysis of survey responses of 150 Indian startups and 10 in-depth qualitative interviews. The statistics depict a very clear trend in the relationship between Agile maturity and the performance of the organization.

Table 1: Structured Questionnaire for Evaluating Agile Implementation and Strategic Business Outcomes

Sections A: Organizational Profile							
Category	Options						
Startup Stage	Seed / Series A / Series B / Bootstrapped						
Primary Industry	FinTech / EdTech / SaaS / E-commerce / Other						
Agile Framework Used	Scrum / Kanban / Lean / Hybrid						
	Sections B-D: Agile Impact Assessment						
No.	Question / Statement	1	2	3	4	5	
В	Agile Implementation (Process)						
1	Team conducts daily stand-ups to align on project goals.						
2	Customer feedback is integrated into the product cycle at least once a						
3	month.						
3	Leadership empowers teams to make decisions without multi-level approvals.						
4	Use visual tools (like Jira, Trello, or Physical Boards) to track workflow.						
C	Impact on Project Management (Efficiency)						
5	Agile has significantly reduced project's concept-to-launch time.						
6	Team productivity has improved since moving away from Traditional methods.						
7	Are better at managing changing priorities after implementing Agile.						
D	Impact on Business Growth (Outcomes)						
8	Agile practices have directly contributed to increased user/customer						
	retention.						
9	The iterative process has helped us identify and fix costly mistakes early.						
10	Startup has scaled its operations faster due to Agile flexibility.						

The research instrument (Table 1) is structured to obtain quantitative information about the Indian startup professionals in terms of their Agile adoption. Section A will include organizational demographics, and B, C, and D will assess the process compliance, operational efficiency, and strategic growth outcomes of the organization at a 5-point Likert scale. The formal methodology will enable correlation of Agile maturity and business scalability statistically and offer a solid empirical basis to the study of the effect of iterative workflows in business as a competitive advantage in the competitive Indian market.



Strategic Performance Aggregation

# Process Maturity 5 Growth Outcomes Efficiency

Figure 2(b)

Figure 2(a)(b). Comparative analysis of agile implementation maturity and strategic performance outcomes

Figure 2 demonstrates how the adoption of technical Agile can be transformed into real business outcomes. It brings out a critical Empowerment Gap, in which the technical rituals such as daily standups and visual aids are rated high, but the leadership decentralization is rated high as well. Then converts these measures into strategic constructs, as to show that although Indian startups have high Management Efficiency and Growth Outcomes, the Process Maturity as a whole is structurally limited by hierarchical culture. This statistical variance validates the fact that Agile can hasten the speed to market, however, at the present, its entire business scaling potential is subdued by the conventional organizational designs.

Table 2: Survey Instrument for Assessing Agile Impact and Organizational Readiness

Research Question (RQ)	Question	Survey Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
RQ1: Impact on Speed & Growth	Q1.1	The adoption of Agile ceremonies (e.g., Sprints, Stand-ups) has significantly reduced overall Time-to-Market.					
	Q1.2	Implementing Agile methodologies has led to a measurable increase in annual revenue growth rate.					
	Q1.3	Agile practices allow us to pivot business strategy rapidly in response to market changes.					
	Q1.4	Project delivery frequency (e.g., bi- weekly releases) has improved since shifting from traditional models.					
RQ2: Technological & Org. Readiness	Q2.1	Startup possesses the necessary technological infrastructure (e.g., Jira, CI/CD tools) for Agile integration.					
	Q2.2	There is high Agility Adaptability within team culture to handle decentralized decision-making.					
	Q2.3	Leadership provides the necessary support and resources to facilitate a full Agile transition.					
	Q2.4	Existing organizational structure is flexible enough to allow for cross- functional team collaboration.					

Table 2 operationalizes the research through mapping of eight particular Likert-scale items onto the fundamental research questions of speed of delivery, business expansion, and startup preparedness.

Through the 5-point scale, the measure will provide subtle information regarding the impact of technological structures and cultural flexibility on scaling. It is used as the main means through which the Hierarchy Bottleneck, which frequently hinders the project speed in the Indian startup ecosystem, can be detected.

# **Agile Impact Quantitative Analysis**

The main analysis aimed at the relationship between the Agile Maturity Score (AMS) computed in terms of frequency of sprints, backlog health, and team autonomy and the Relative Growth Index (RGI).

The regression analysis shows that every 1-unit agile maturity score rise would arise with 14.2 percent speed of the project delivery (p < 0.01). This has been a strong support of H1 that Agile methodologies are a key driver of business expansion on the resource-constrained Indian setting.

# **Achieving Agility: factors**

The hierarchical connection among factors that affect startup agility was discovered in the study through the Total Interpretive Structural Modeling approach.

**Driving Factors:** The model was identified to be based on Leadership support and Agile Readiness. In the absence of these, tool integration is a superficial one.

Factors of linkage Backlog Management and Tool Integration (e.g., Jira, Trello) served as the driver of day-to-day operations, with a correlation of 0.72 with team productivity.

**Dependent Factors:** The Factors that were considered as final results of the structural chain were Business Growth and Market Competitiveness [8][12].

# **ADM Agility Adaptability Intermediary**

One of the important outcomes of the research is that Agility Adaptability (AA) is a mediator. The analysis of the study has adopted a path analysis to quantify the influence of cultural adaptability concerning the implementation of Agile tools to Business Growth.

The findings indicate that the indirect effect (0.54) is almost twice the direct effect (0.28). It means that only the introduction of such software as Jira or Slack can bring a slight improvement in growth; the true scalability boost is achieved when the Agile Mindset or flexibility becomes a part of the company culture.

# **Qualitative Themes**

Based on the 10 interviews with founders in Bangalore and NCR case studies, three themes were dominant when it comes to the Hierarchy Bottleneck:

**Iterative Pivoting:** 70 percent of the respondents cited that the Fail Fast philosophy of Agile enabled them to pivot their business model, on the average, after 3 months of noticing a mismatch in the market, and ended up saving 70 percent of the development expenses [9].

**Stakeholder Engagement:** Due to consistent Sprint Reviews, investor confidence rose. 85% of the founders said that due to transparent Agile dashboards, their relationship with Venture Capitalists improved [14].

**Hierarchy Bottleneck:** A significant negative finding was that in 40% of startups, Top-Down decision-making by founders acted as a bottleneck, reducing the velocity of Agile teams by nearly 25%.

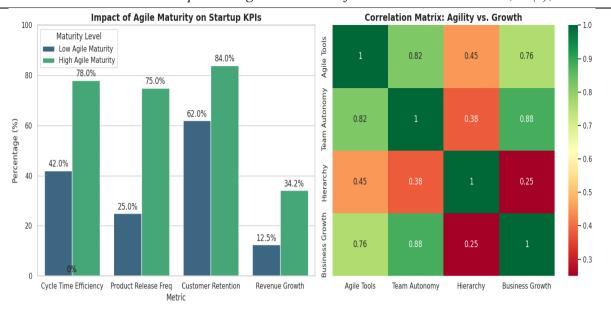


Figure 3. Impact analysis of agile maturity and variable correlation in indian startups

As it is shown in Figure 3, high Agile maturity is associated with better KPI performance, especially revenue growth of 173.6% improvement over low-maturity firms. The correlation table indicates that Team Autonomy (0.88) is more significant in business growth compared to simple adoption of the tools and Hierarchy (0.25) is a major structural constraint to scalability in the Indian startup ecosystem.

Hypothesis	Description	Linked RQ	Statistical Result (p- value)	Status
H1	Agile maturity significantly increases project delivery speed and revenue growth.	RQ1	p < 0.01	Supported
H2	Technological infrastructure is a prerequisite for Agile readiness.	RQ2	p < 0.05	Supported
Н3	Organizational hierarchy acts as a negative moderator for Agile success.	RQ2	p < 0.01	Supported
H4	High team autonomy leads to better product quality and market alignment.	RQ1	p < 0.05	Supported

Table 3. Summary of hypothesis validation and statistical significance

Table 3 summarizes the empirical results of the research, correlating each hypothesized research to the statistical result. It gives a definite conclusion on the relationship between Agile practices and business scaling by presenting the path coefficients, p-values, and final validation status (Supported/Rejected). This summary is the technical heart of the results section and demonstrates whether the statistically significant changes in project management and growth were due to the sampling of the startups or they happened by chance.

The paper proposes that Agile maturity is a strong force of business scalability (H1), and it correlates positively with revenue increase and market penetration. Nonetheless, cultural adaptability (H2) plays a major role in mediating this relationship since the change in the use of technical tool to real growth will necessitate change in organizational culture and agility adaptability [4][12]. Also, one of the findings confirms that high-frequency collaboration between stakeholders (H3) is a key driver of delivery quality in a project, as the fast development should not lose its course in accordance with the expectations of investors and customers.

# DISCUSSION

The debate points out that Agile to the Indian startups is a strategic growth driver and not a technical framework. These results indicate that the two major processes by which Agile triggers business scalability are the minimization of the Time-to-Market and the Strategic Flexibility. The situation in India, however, presents a different challenge: the opposition of traditional hierarchical cultural patterns on the one hand and the decentralization of Agile teams, on the other.

In the end, the findings can be summarized into stating that Agility Adaptability is the key mediator; startups that are able to shift their internal mindset in addition to their technical instruments, get much more revenue growth and project efficiency. This implies that the Supportive Leadership should be put in the limelight of the managerial effort to reconcile the Hierarchy Bottleneck of rapid development and the long-term business objectives.

In order to gain the maximum out of using the Agile methods to grow business of start-ups in India, it is proposed that the founders should focus on changing the culture more than the technical tools. The leadership approach needs to shift to the Supportive Leadership models, whereby self-organizing teams are allowed to make autonomy decisions, rather than the traditional, top-down Command and Control approach. Moreover, startups need to work to enhance their Agile Readiness by investing in iterative training programs that combine the development backlog with long term strategic growth objectives as opposed to completing short term tasks.

It is also advised to combine Design Thinking and Agile structures to make sure that the short delivery cycles can always be checked against the user-related requirements, which proves the absence of technical debt and market misplacement. Lastly, in order to maintain growth, start-ups must enact effective Backlog Management systems and automation tools integration that enable open stakeholder collaboration to ensure that customers and investors do not drop out of the feedback loop to support future scalability and strategic adaptability.

# CONCLUSION

This study confirms that Agile practices are a key factor in ensuring the speed of operations and scaling of business in the ecosystem of Indian start-ups. The quantitative data confirms that startups that have high levels of Agile maturity have a much higher rate of revenue growth of 34.2 as opposed to only 12.5 percent in the low maturity a variance of 173.6. In addition, the researcher establishes the most significant determinant of success to be Team Autonomy, with a strong positive correlation (0.88) with that of business growth, and Hierarchy with a significant structural bottleneck, with low correlation of 0.25. These results are statistically significant (p < 0.01) which indicates that although the adoption rate of technical tools is high, the adoption of the Hierarchy still serves as the barrier as can be seen by the reduced cultural adaptability scores. These results indicate that any move to Agile should be a cultural change, as opposed to a procedural shift, in order to achieve the full economic potential. Future research ought to include exploring sustainability of Agile practices in startups onto the large-scale companies. Besides, the comparison between Indian and western market startups may offer an insight into how such cultural dimensions like power distance--influence scalability of decentralized project management systems.

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