

Entrepreneurial Innovation in the Digital Era: Mapping Foundational Principles to Modern Execution Through Case Study

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Abstract

The framework of *the Seven Sources of Innovation* by Peter Drucker has served as a foundation for organizational transformation. However, the growth of digital innovation and technological advancements including AI (Artificial intelligence), blockchain, IoT (Internet of Things), etc. has made the execution of these principles changed over the years. This paper conducted a strategic review of Drucker's framework by mapping it's foundational principles to modern execution techniques from the lens of global and Indian companies. The study highlights the changes adopted by companies due to technological disruptions in the form of case studies. The case study showed that although the fundamental principles remain valid, the execution has now pivoted requiring the need for integration of modern principles with big corporations implementing strategic changes for transformative growth and smaller companies following its pattern.

Keywords: Innovation, Entrepreneurship, Drucker, Digital Economy, Startup

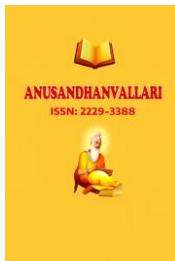
1. Introduction

Innovation is a strategic practice by an individual or an entrepreneur in an attempt to search for opportunities in a dynamic environment. Early theories talked about innovation as a work of genius but it seldom mentions how it was implemented or what are the tools required (Schumpeter, 1934). However other foundationsl theory such as (*Innovation and Entrepreneurship Practice - Peter Drucker*, n.d.) provided a practical framework by identifying the sources of innovation. Today's digital economy has changed the way it does it's businesses. There are advanced technologies with different business models with integration of artificial intelligence. There is a paradigm shift in the use of traditional advantages due to the rapid growth of AI, chip systems, and blockchains (Nambisan et al., 2019). Global companies such as Tesla Gigafactories, CRISPR and startups such as Obviously.ai, Pecan.ai and H2O.ai showed the implementation of structured innovation. At the same time, many other existing corporations are still trying to adapt to the changing ecosystem by exploring new ideas (O'Reilly & Tushman, 2008). Thus the need to add new perspectives in the existing foundational principles is evident.

This paper highlights that the original framework of innovation proposed by Drucker which emerged at the time of industrialization remained relevant in this digital era. However, the execution have changed. Drucker mentioned in his study the need for analysing the structures of the industry and its networks as one innovative move in business growth. Amazon implemented this idea not for the internal company but for the growth of its customer base (Autio & Thomas, 2022). The idea of building prototypes in was proposed by Drucker in the form of market testing which enabled the companies to first check its product's viability (Bocken & Snihur, 2020; Ries, 2011). This process is now considered as one of the most fundamental step in building innovation for many tech startups (Foss & Saebi, 2018).

1.1 Research Objectives

The study focuses on two objectives.



- To map the seven sources of innovation with modern execution principles in the digital context.
- To provide a comparative case study from the global and Indian markets.

The following section of the paper presented the review of literature. Then, it is followed by an analysis of the seven sources of innovation and their execution in the digital context. Case studies of companies across various sectors globally and in the Indian emerging markets are presented. Finally, the paper concludes with implications for various stakeholders, including startup owners, big companies, researchers, and policymakers.

2. Literature Review

Drucker, in his book (*Innovation and Entrepreneurship Practice* - Peter Drucker, n.d.) defined innovation as a discipline, and highlighted that ideas are generated from analyzing market trends and the needs of consumers. The seven sources of innovation proposed by him provided a structured network of methods that can be used by entrepreneurs, startup owners, and big corporation leaders to identify opportunities and turn them into profitable gains.

The rapid shift in technology advancements, realisation of the importance of big data, and leveraging the interconnected markets around the world is the core structure of businesses in today's digital era. This digital innovation allows companies to exploit the maximum opportunities available in the business environment (Nambisan et al., 2019). Innovation in all type of sectors are evident around with prominent examples in adoption of AI and IoT to solve the issues in supply chains giving rise to smart logistics (Bican & Brem, 2020). The need for human intervention in service sectors which required heavy continuous task activities have reduced comparatively with the emergence of the implementation of AI-driven process needs (Davenport, 2018).

The use of AI is seen in the financial sector with introduction of blockchain. This has led to redefining the way financial markets work (Tapscott, 2016). Many companies are now shifting their retail business model into incorporating e-commerce as the new generations are preferring quick digital services (Dimock, 2019; Haenlein & Kaplan, 2021) which also created a new opportunity for sustainable business trend.

3. Discussions and Implications

3.1 Systematic Innovation

There are seven systematic sources of innovation which was first identified by Drucker.

These are classified into two groups:

1. *The Internal sources*,

The internal sources included the unexpected, incongruities, process need and industry and market structures within the enterprises and industries.

2. *The External sources*

The external sources included the demographics, changes in perceptions and the new technology outside the enterprises and industries.

The seven sources including both the external and internal sources are interconnected. *Figure 1* graphically represented the interconnected process using the seven-segment circular diagram (Eppler & Burkhard, 2007) and

Table 1 represented the case study for integration of the Seven Sources of Innovation by global and Indian companies for successful execution of their business model.

The dynamic nature of the business environment made the big corporations adopt strategic changes continuously. The principles of innovation are used by these big companies to drive transformative growth. These innovation patterns are further imitated by smaller companies in developing nations like India, leading them to follow the path of innovative developments (Patel et al., 2024; van Es, 2023). The principle of systematic innovation and its applications enabled digital transformation thereby building sustainable operations (Kumar et al., 2023).

**Drucker's Seven Sources of Innovation
(Global and Indian Examples)**

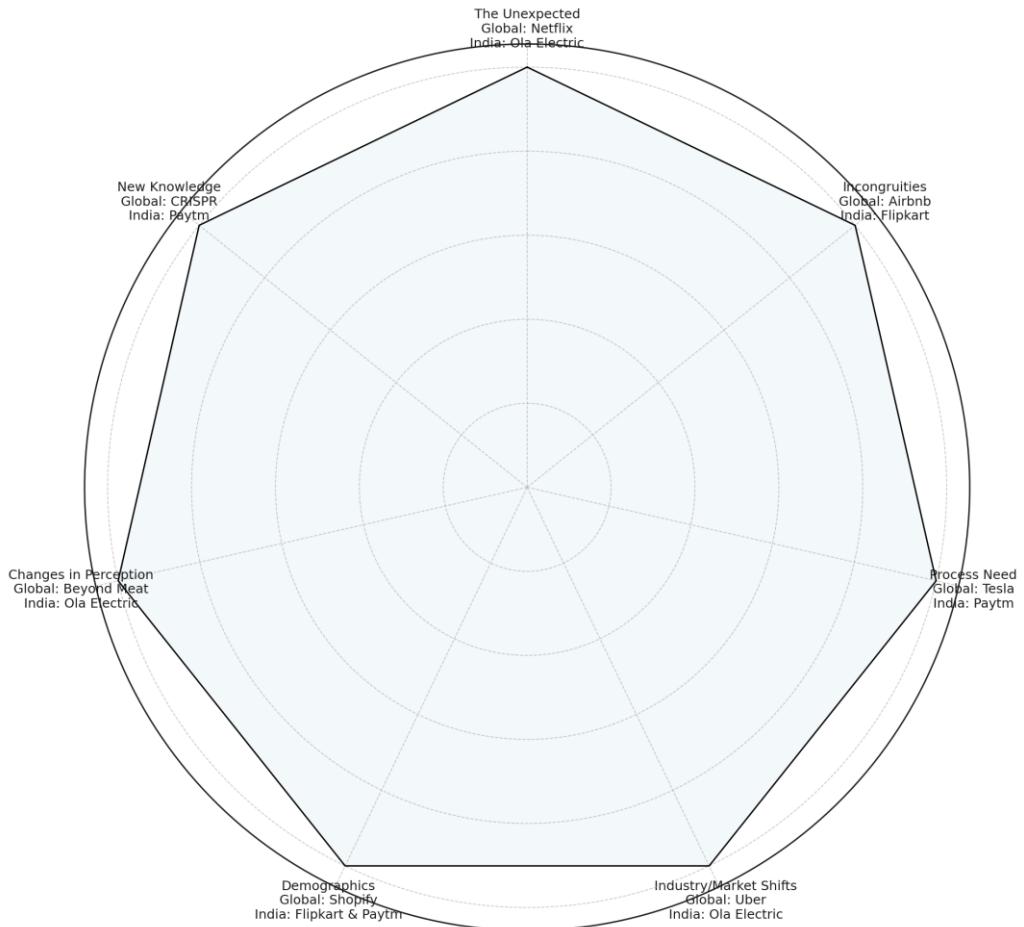


Figure. 1 Drucker's Seven Sources of Innovation

Table 1 Case study for global and Indian companies

Seven Sources of Innovation	Global Example	Indian Example	Indication	
1	The Unexpected	Netflix changed from DVD rentals to streaming.	Ola Electric launched EV-scooter after policy incentives.	New opportunities are revealed by consumer behaviors in an unplanned market.
2	Incongruities	Airbnb created a competition for expensive hotels by utilizing unused homes.	Flipkart introduced Cash on Delivery to cater to local payment habits.	Market gaps can give rise to disruptive solutions.
3	Process Need	Tesla built Gigafactories for battery supply.	Paytm created the unified payment systems, making it a seamless digital wallet.	Solutions are customized according to the existing inefficiencies.
4	Industry/Market Shifts	Uber used smartphone adoption in urban transport to create app driven booking.	Ola Electric focused on policy-driven EV adoption	Any changes in the industry or market transitions can create entry points.
5	Demographics	Shopify aligned entrepreneurial trends in e-commerce by enabling small business entries.	Flipkart & Paytm are the pioneers to tap India's mobile-first consumer base.	Demand patterns can change with changing population.
6	Changes in Perception	Beyond Meat introduced a plant-based diet that is eco-friendly.	Ola Electric showed that EVs can be a sustainable mobility choice.	The changes in societal values can generate new markets.
7	New Knowledge	CRISPR enabled new ventures in biotech through gene-editing breakthroughs.	Paytm leveraged UPI and mobile tech to scale financial services.	The importance of scientific and technical knowledge combined with market awareness leads to breakthrough innovations.

3.2 Executing the Principles of Innovation

The execution of the seven sources of innovation is critical in both established and startup environments. However, in today's digital era, these seven principles cannot be implemented in its raw form, but rather modern principles of innovation such as Design thinking, Agile execution, and Lean startup are incorporated for successful execution as studies highlighted that this adoption increases the success rate of the companies to 40% (Ghezzi & Cavallo, 2020).

The mapping of these fundamental principles with modern principles is represented in *Figure. 2*. The seven sources of innovation is reordered to connect with the modern execution principles logically.

1. The rise of Gen Z population with increase urbanization in India witnessed a sudden shift in the industrial landscape. Covid 19 pandemic also changed the structure of office work giving more focus on remote work norms. These changes created a friction between the new reality and the traditional way of business operations. Thus, industry leaders incorporated design thinking by continuously monitoring the changing environment which gave birth to new digital based innovations such as the use of UPI payment systems, Cash on deliveries which solved the problems of unbanked customer base and app-based taxi services which are user friendly.
2. The need to assemble a value network with all the stakeholders in business operating environment has become a new criterion in the digital era. These differs from sectors to sectors. For an Ecommerce company, a trusted collaboration among logistic partners, regulatory bodies, platform sellers and customers are important. However, unexpected occurrence such as the Covid 19 pandemic showed that a cross-sector ecosystem need to be assembled. Thus, the industry leaders today focused on building a network of partnerships rather than just treating innovation as a linear R&D process which contributed to systematic transformation.
3. Whenever an unexpected occurrence takes place, business operations either face a success or a failure. In order to ensure success, digital innovation targeted technical breakthroughs that aimed in building specific products and new process integrations to improve efficiency. However, to verify its viability in the mass market, a prototype is required to be tested to verify the feedbacks.

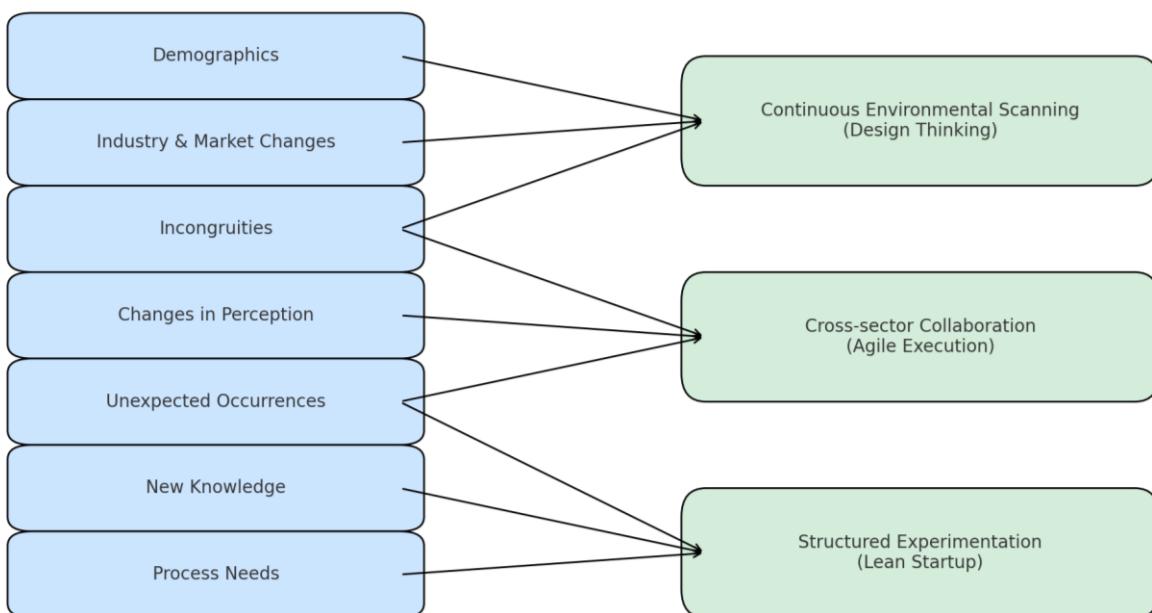


Fig. 2 Mapping Seven Sources of Innovation with Modern Execution Principles

The integration signifies that updated information from the changing demographics, market gaps, and needs should be identified through continuous scanning (Brown, 2008) and design thinking should be used as the practical primary execution principle. The discussions also highlighted that foundational innovative principles should not be executed as a linear process as technology spillovers can affect consumer preferences (Rigby, 2020). Thus, cross-sector collaboration should be initiated in a trusted and mutually beneficial ecosystem. Finally, the study implicated that in order to stay ahead of uncertainties, the idea of a new product should always go through the process to validate, test and confirm before moving out to the mass market (Ries, 2011).

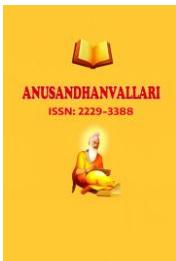
4. Conclusion and Recommendation

Today's AI Next world required the use of mix methods of innovation to ensure a successful growth. Traditional industries with huge marklet share are now pivoting their business models by collaborating with AI startups to stay ahead in this race (Bestsennyy, 2021), while smaller companies utilised the use of MVP testing tools to identify the gaps and build new sustainable businesses. The study recognised the foundamentional principles of innovation by Drucker by actively incorporating it to the changing digital business environment with modern execution techniques.

The study recommended that new curriculum on advance digital literacy such as AI/blockchain with training tools should be implemented from early on to align with the dynamic growth in the industrial environment.

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Anusandhanvallari

Vol 2024, No.1

December 2024

ISSN 2229-3388

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