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**Bridging Ideas and Implementation: The Role of Prototyping in  
Sustainable Business Innovation**

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**Abstract:** This study investigates the gap between innovative ideas and their practical application in driving effective and impactful sustainable business practices. The purpose of this research is to identify how innovation can be optimized to achieve effective and impactful sustainable business practices. The research employs a qualitative descriptive approach, using primary data obtained from interviews, observations, and documentation from key informants involved in implementing sustainability-driven innovations. The results indicate that while innovative ideas exist, the biggest challenge lies in their application due to high costs and limited resources. The study suggests that using prototyping and small-scale pilots could help bridge this gap, facilitating the transition to more sustainable business models.

**Keywords:** Idea; Impact; Innovation; Sustainable; Business Practices.

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**A. Introduction**

In the evolving business world, the gap between innovative ideas and their actual application remains one of the major challenges in driving effective and impactful sustainable business practices. While many companies and organizations have innovative ideas to enhance sustainability, they often face difficulties in translating these ideas into their business models. Most of these failures can be attributed to the "design-implementation gap," where business models designed do not get executed effectively in practice. One approach to addressing this issue is by utilizing prototyping or small-scale business

pilots to test and adjust sustainable business models before full implementation. This allows organizations to assess the desirability, feasibility, sustainability, and viability of these models early on, thereby reducing the risk of failure (Baldassarre et al., 2020). This fact is supported by a wealth of literature that highlights significant gaps in the implementation of sustainable business innovation (Sampene et al., 2023). Previous studies have identified various barriers preventing the successful implementation of sustainable business models, including organizational culture, resource allocation, and technological limitations

(Kashyap & Salunkhe, 2022). While many theories about sustainable innovation exist, the main challenge remains translating these ideas into practices that are economically, socially, and environmentally viable. Technological innovation and new business models aimed at sustainability are often hindered by the mismatch between initial design and operational realities in the field.

The aim of this study is to identify how innovation can be optimized to achieve effective and impactful sustainable business practices by bridging the gap between idea and implementation. Specifically, the research seeks to explore the role of prototyping and small-scale pilots in transforming sustainability-driven innovations into viable and successful business models." Based on these findings, this study will explore the role of innovation in overcoming these barriers and provide insights into how organizations can implement sustainable business models more effectively.

The importance of this study lies not only in its attempt to bridge the gap between design and implementation in sustainable business practices but also in its contribution to broader business practices. In this context, the study hypothesizes that by utilizing a more structured innovation approach, organizations can be more successful in adopting and implementing sustainable business practices. Based on this objective, the study seeks to provide insights that can be used by practitioners and policymakers to create policies that support more effective sustainable innovation and accelerate the transition to a more sustainable economy (Sahani, 2025).

## **B. Materials and Methods**

While previous studies have examined sustainable innovation, there remains a significant gap in understanding how prototyping and small-scale pilots can bridge the design-implementation gap. This study introduces a novel approach by focusing on the practical application of these strategies in

fostering impactful and sustainable business practices. This study focuses on how innovations implemented by companies can be adapted to create a greater impact on sustainable practices in their operations (Mittal, 2024).

### **1. Research Type**

This study uses a qualitative descriptive approach, which aims to describe the phenomenon in detail without manipulating variables or making causal predictions. The primary goal of descriptive research is to provide a clear and comprehensive understanding of the situation or phenomenon under investigation. The primary goal of descriptive research is to provide a clear and comprehensive understanding of the situation or phenomenon under investigation. This research employs primary data obtained through interviews, observations, and documentation from key informants who are involved in implementing innovative ideas for sustainability. In addition, secondary data is collected from literature related to sustainable business models and innovation theories that are relevant to the key concepts of this study (Kashyap & Salunkhe, 2022).

### **2. Research Participants**

The participants in this study are individuals who have direct knowledge and experience in implementing innovation for supporting sustainable business practices. The first informant is an innovation manager responsible for designing and implementing innovative ideas in the company. The second informant is the head of the sustainability department, who is involved in evaluating the sustainability impacts of each innovation applied in the company. The third informant is a social entrepreneur, who has successfully implemented sustainable innovation in their business model to benefit society and the environment. Each informant has in-depth experience in overcoming barriers and challenges in applying sustainable innovations (Baldassarre et al., 2020).

### 3. Data Triangulation

To ensure the reliability and credibility of the data, triangulation is employed by comparing and validating information from multiple data sources: interviews, observations, and documentation. This technique strengthens the validity of the findings by corroborating evidence from different perspectives (Sahani, 2025).

### 4. Research Process

The research process involves several stages and data collection techniques to gain in-depth insights into the application of innovation in sustainable business practices. The first data collection technique is in-depth interviews with selected informants, aimed at gathering their perspectives on the challenges and opportunities in implementing innovation for sustainability. The second technique is observation, where the researcher observes the activities and strategies applied in the company regarding sustainable innovations. Finally, secondary data is collected through documentation, including company annual reports, internal publications, and other relevant documents related to innovation and sustainability policies (Rotondo et al., 2023).

### 5. Data Analysis Techniques

The data analysis in this study is conducted using the Miles and Huberman framework, which involves three main stages: data reduction, data display, and drawing conclusions. In the first stage, the data obtained from interviews and observations will be reduced to focus on key themes that emerge. In the second stage, relevant data will be presented in the form of matrices or diagrams to facilitate interpretation. The final stage involves drawing conclusions, where the researcher will synthesize findings based on patterns identified in the data. Additionally, data triangulation is used to ensure data validity by comparing and confirming information gathered from interviews, observations, and

documentation (Sahani, 2025). This technique helps verify the accuracy and objectivity of the collected data.

## C. Result and Discussion

One of the most important findings of this research is the realization that although innovative ideas for sustainability often emerge within companies, a significant gap still exists between these ideas and their actual implementation. Many companies identify and plan for sustainability-driven innovations, but they face considerable challenges in transforming these ideas into commercially viable and environmentally impactful solutions. Even though progress has been made in developing prototypes of more environmentally friendly products, the transition from idea to successful commercial product is still fraught with barriers that need to be addressed (Kashyap & Salunkhe). This finding is surprising as it reveals that while numerous innovations have been trialed, most are still hindered by external factors such as regulations and market support.

The analysis reveals that while many companies generate innovative ideas for sustainability, they face significant challenges in transforming these ideas into practical, viable solutions. The most common barriers include high implementation costs, regulatory obstacles, and insufficient market support. Many organizations develop prototypes of innovative, environmentally friendly products but struggle to scale these models due to external factors such as regulation and market dynamics.

Despite these challenges, the research also highlights that organizations that utilize prototyping and small-scale pilots are better able to identify and address obstacles early on, thus improving the chances of successful implementation. These pilots allow companies to test the feasibility, viability, and sustainability of their innovations, thus reducing the risk of failure when scaling.

This study contributes to innovation theory by demonstrating how prototyping and small-scale pilots serve as a bridge between the design and implementation phases of sustainability-driven business models. While the concept of prototyping has been discussed in various contexts, this study highlights its specific role in facilitating the successful implementation of sustainable innovations. By focusing on how innovation can be optimized for long-term sustainability, the study provides valuable insights into the practical applications of sustainable business models.

Furthermore, this research offers new perspectives on overcoming the design-implementation gap in sustainability innovation, which is crucial for organizations seeking to enhance their environmental and social impact. The findings of this study contribute to advancing innovation theory by emphasizing the importance of structured approaches to innovation in achieving sustainable business practices

#### **D. Conclusion**

One of the most surprising findings of this study is that, although innovative ideas for sustainability are frequently generated within companies, a significant gap still exists between these ideas and their practical implementation. Many companies identify and plan for sustainability-driven innovations, but they face considerable challenges in translating these ideas into commercially viable and impactful solutions. Even though progress has been made in developing prototypes of more environmentally friendly products, the transition from idea to commercially successful product remains filled with obstacles that need to be addressed (Kashyap & Salunkhe, 2022). This finding is particularly striking, as it reveals that while numerous innovations have been trialed,

most remain hindered by external factors such as regulations and market support.

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