

A “Tool –Set” in the Business of Commercialization and Innovation

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Abstract

The Concept Innovation Tool-Set (CITS) is an intervention designed to facilitate the introduction and implementation of innovation within an organization. CITS is based on a holistic approach that encompasses not only technical components, but also behavioral and cultural aspects of innovation. It focuses on the acquisition of skills, understanding of problems, and creating an environment for collaboration and creativity. Utilizing a diverse set of tools, users are able to walk through the process of advocating for and leading change initiatives. At the core, CITS relies on a framework of key activities to help organizations adapt to ever-changing business conditions and needs. These activities include: identifying opportunities for innovation, assembling a team of stakeholders, developing an innovation blueprint, developing strategies and tactics to facilitate change, and implementing the innovations. Additionally, CITS promotes collaboration among employees and encourages embracing of divergent ideas by leveraging a variety of gathering, evaluation, and sharing techniques. Furthermore, the system works to empower personnel to take ownership of their own creativity, as users are taught to develop a growth mindset and take a proactive stance in their own careers. The Concept Innovation Tool-Set has been widely used to successfully drive innovation and create lasting change within organizations. Evidence has been found of increased efficiency, creativity, and customer satisfaction. It is a proven tool-set designed to provide users with the guidance and resources needed to develop innovative solutions that improve the success of their organization.[1,2]

Keywords: Innovation, Scenario, Ideation

1.Introduction

The concept of innovation has become a priority for many companies around the world. Companies have come to realize that in order to gain a competitive advantage, it is essential to develop new ideas and processes that can help to provide better services for customers and better products that match their needs. This has resulted in an increased focus on introducing initiatives and tools to facilitate innovation within organizations. One common tool used to promote innovation within a company is the “tool-set.” A tool-set is a set of tools and processes that help to provide an environment for brainstorming, idea generation, and innovation within an organization. This tool-set usually consists of some kind of workshop that brings together the executives of a company to discuss and present ideas, a series of highly developed

analytical techniques to help evaluate potential ideas and processes, and most importantly, a plan of action to implement the ideas that best suit the company's objectives. The benefits of using a "tool-set" for innovation in a company include:

1. Improved creativity within the organization: By creating a culture of innovation, the organization can make better use of its talent to generate ideas and solutions.
2. Increased collaboration between different organizational units: With the use of a "tool-set," collaboration between different departments or teams can be made more efficient and effective.
3. Greater efficiency of the internal systems: By taking the time to analyze the current internal systems objectively and make targeted modifications to them to improve their efficiency, huge gains can be achieved in productivity.
4. Reduced costs and more efficient use of resources: With improved efficiency within the organization, costs can be reduced and resources better managed. This helps to improve profits and make the organization more competitive.

In conclusion, the introduction of a "tool-set" in a company is a strong way of promoting innovation in the organization. With the help of this tool-set, the organization can make better use of its resources, create a culture of creativity, and improve its internal processes and systems.

2. Proposed Study

Organizations can often become stagnant due to a lack of innovation within the workplace. A proven "tool-set" can be used as an intervention to bring innovation to a company. This tool-set includes a mix of activities such as brainstorming, goal-setting, prototyping, creative thinking, and networking. Brainstorming is a key component to innovation, allowing employees to work together and think up innovative ideas. During a brainstorming session, employees can come up with new ideas and discuss ways to make their ideas more feasible. Goal-setting is important for innovation, as it allows employees to plan and pursue their ideas. By setting attainable goals, employees are motivated to work towards a particular end. Prototyping is the process of taking an idea from conception to completion. Through this process, employees can test out their ideas and make adjustments as needed. Creative thinking is required for innovation, as it helps employees think outside of the box and come up with novel solutions to problems. Networking is essential for innovation, as it allows employees to connect and collaborate with other people in their organization, as well as external sources, in order to share resources and ideas. By using this "tool-set", organizations are able to make positive changes to their workplace, adding value to their employees and creating an innovative environment. This "tool-set" can help companies explore new avenues of innovation, allowing them to grow and become more competitive in their industry.

The "tool-set" can also be used to motivate employees and foster collaboration among them. Ultimately, this "tool-set" is a great way to foster innovation in the workplace and can help organizations improve their products and services. The proposed innovation model has the following fig.1

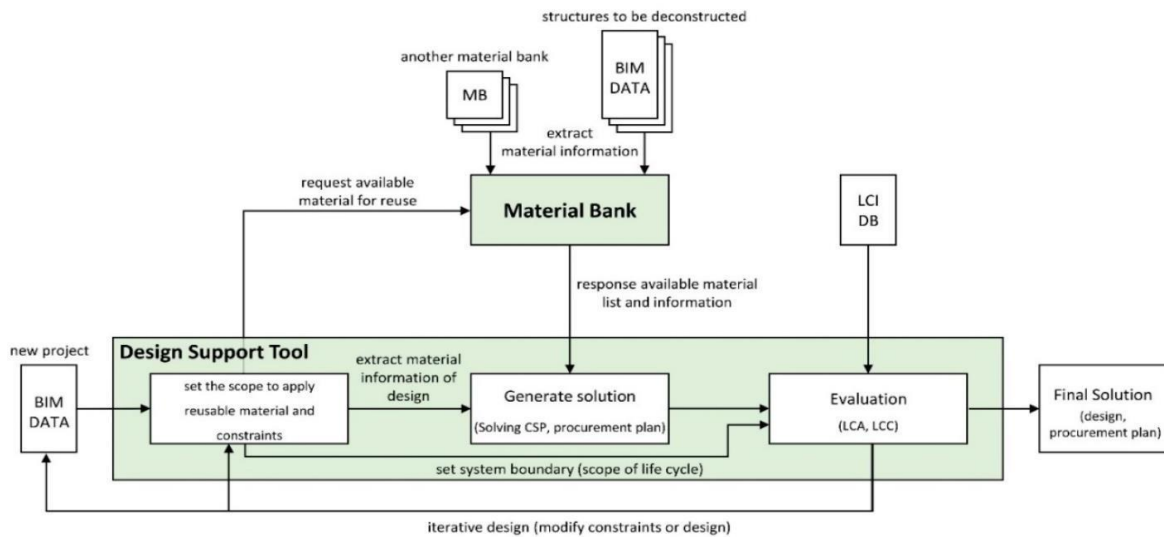


Fig 1: Proposed innovation model

Innovation is the lifeblood that provides a competitive advantage over rivals and delivers sustained success for businesses. Companies, therefore, need to develop the correct strategies, techniques and tools to help innovate and remain agile. One proven tool-set used as an intervention for driving innovation in the company is the 10-phase NPD (New Product Development) process with which companies can turn ideas into real products and services. The NPD process consists of ten phases that must be thoroughly and carefully evaluated in order to properly develop a product or service. This process begins with “ideation” where companies brainstorm ideas and evaluate the ideas’ potential for meeting the customer’s needs. After this, a business conducts market and competitive analysis to decide which idea to pursue, followed by concept development and validation. During “concept development” the company further develops the concept and determines the potential benefits and business value of a product or service. Validation testing helps to ensure that the product or service meets the company’s criteria and matches customer requirements. The next two phases, design and development and product team review, ensure that all activities related to product design, engineering design and process development are effectively tested, reviewed and approved and that suppliers meet required quality standards. Engineering validation, testing and simulations also need to be conducted to ensure proper functionality. The company then needs to focus on manufacturing or service delivery to ensure that the product or service is produced to the required specifications efficiently and cost-effectively. After production is completed, the company needs to focus on releasing and launching the product to the market, followed by marketing and sales activities. Finally, the company should focus on customer experience and service to ensure customer satisfaction and loyalty. At each step, the NPD process helps a company to ensure quality and validate the product or service. This helps the company to avoid any costly delays and errors that could deter innovation. Moreover, this process instils a sense of ownership among employees, encouraging them to think about ideas and solutions and create successful products and services. In sum, the 10-phase NPD process provides a structured and efficient methodology of developing products and services that meets customer requirements. This process provides clarity and accountability throughout the entire development process, allowing

companies to develop and innovate in an effective and sustainable manner. Put simply, the 10 - phase NPD process is a proven tool-set that will help companies keep ahead of the competition.

3. Summary and Conclusion

In this paper, we examine the impact of using a proven “Tool-Set” as an intervention for bringing innovation in the company. We also discuss the benefits of this intervention and the potential pitfalls that may be encountered during its implementation. A “Tool-Set” refers to a collection of tools, methods, and resources that aid in the process of promoting and managing innovation within an organization. This tool-set typically includes tools for data-driven analysis, process and system development, ideation and experimentation, and integration of existing tools and systems. The goal of using a toolset is to bring new perspectives and ideas to the business, facilitate the development of creative solutions, and foster greater collaboration and coordination between departments and external partners. The primary benefit of using a tool-set is that it can help to maximize the company’s return on investment through more efficient utilization of resources. By having a comprehensive approach to innovation, a company can more effectively leverage investment in research and development, and can quickly deploy proven tools and processes that help to develop and implement new ideas. It also reduces the amount of time and resources required to develop and implement ideas, as well as minimizing the risk of failure. In addition to these benefits, using a tool-set provides the opportunity to leverage the expertise of internal and external stakeholders. By working with a variety of stakeholders such as designers, technology experts, and business strategists, organizations can develop a meaningful and comprehensive framework for innovation success. This approach allows organizations to move quickly and with greater confidence that their efforts will produce meaningful results. Despite the significant advantages that using a tool-set can provide, it is important to note that there are also potential risks. The most significant risk is that organizations may encounter difficulties in properly identifying and utilizing the most effective tools for their particular context. This can lead to the development of sub-optimal solutions or the failure to implement the best tools and systems available. Additionally, there can be disconnects between the internal stakeholders on how best to apply the tools, and the risk that external stakeholders may lack buy-in or understanding of the tool-set’s value. In conclusion, using a proven tool-set as an intervention for bringing innovation in the company can provide numerous benefits. It allows for the more efficient utilization of resources, and can facilitate the development of creative solutions. Additionally, it provides the opportunity to leverage the expertise of internal and external stakeholders in the innovation process. However, organizations should be mindful of the potential risks associated with the use of a tool-set and take measures to ensure that the tool-set is properly identified and utilized. The performance optimization of a proven “toolset” used as an intervention for bringing innovation in the company is a critical component of staying successful and competitive. This paper will discuss strategies to utilize such a toolset to improve the overall business operations and increase the rate of innovation within a company. First, the toolset should be used to document through surveys, interviews, or other methods the existing organizational practices, workflows, and processes. This data can be used to identify areas which are overly inefficient or missing elements which could improve upon existing systems. With this data, recommendations can be made to streamline operations while offering a new perspective into the process. This could include utilizing technology such as automation or outsourcing certain services to allow staff to focus on more complex tasks and increased

collaboration. Second, the toolset should be used to facilitate agile teams. Agile teams often consist of cross-functional specialists who can quickly assess and determine solutions to challenges within the company. These teams can leverage the toolset to quickly identify and implement innovative approaches which can increase the speed of progress and output. Third, the toolset should be used to communicate knowledge and best practices gathered from previous projects and experiences. By sharing knowledge and data, staff can better understand the best ways to complete a task and to maximize potential outputs for each individual project. This information can then be used to build workflows and procedures for team members within the company. Finally, the toolset should be used to incentivize innovation. Too often, companies overlook creative solutions due to lack of recognition or financial support. Incentivizing innovation can help employees to feel more invested in the progress of the company, and increase feedback from their peers. This can be done through offering monetary prizes, recognition, or enhanced career opportunities to those who come up with the best ideas. The performance optimization of a proven “toolset” used as an intervention for bringing innovation can help companies to stay competitive and maximize efficiency. By documenting practices and processes, facilitation of agile teams, communicating knowledge and best practices, and incentivizing innovation, the company can create a culture which allows for growth and creativity. With these strategies, a company can be confident that it is continuing to progress and staying ahead of the competition.

4. References

1. H. Duin¹ , A. Geven, S. Dittenberger, M. Tscheligi , A. Hesmer, K.- D. Thoben, A Toolset to Support the Early Stage of Innovation, ERIMA European Research on Innovation and Management Alliance, 159 p. / ISSN 2100-0778, 2008. fhal-04122234f
2. Michael B. Koval, The Technologist’s Tool Set: A CIO’s Perspective, IEEE Xplore