

# Propel Metamorphosis of Design Thinking

PremaLatha V., KL University (Deemed), India\*

E. SriDevi, KL University (Deemed), India

 <https://orcid.org/0000-0002-1249-4357>

SivaKumar S., KL University (Deemed), India

Nikhat Parveen, KL University (Deemed), India

## ABSTRACT

To examine the opportunities on how to be and what to create for the outcomes which will benefit and satisfy the end user (the customer), design thinking applies logic, visualization, and a systematic cerebration. To innovate design thinking it uses principles of tactics in its design which can be applied in tactical way to meet the success rate of innovation. This can be improved intensely in terms of innovation. Designing is just more than products creation and its services which can be applied to systems, procedures, protocols, and experience from customers. One can design the way they want to lead, create, and innovate.

## KEYWORDS

Creation, Design Thinking, Innovation, Strategy

## 1. INTRODUCTION

Design thinking is effectively used to solve different business challenges and promote services offered that are innovated and product development that has a wide application for business throughout any organization. Design Ideas and Focusing on solutions but not on the problem is the process of Design thinking which critically retorts for the requirements of questions made by business. To gather ideas and information in an organised way for taking quick decision to create and to think in rubric critical. It aims for solutions to rapidly improve by gathering feedback continuously and act immediately.

As design thinking has been adopted by many organizations, its usage has expanded beyond its origins in product design. The root cause of particular problem can be identified by Design Thinking and it can be applied in a critical way to get an effective solution from the development.

The process can be put on speed and to inherent disruption for today's market of micro and macro, the address of equipped must be business segments that should be organised.

Every Organizations should accord for a diverse scope of complex issues related on a regular basis. Two essential things are to be considered either it is organization or issue. Primarily understanding an issue is needed, secondarily address of the issue need to be framed in optimal way.

Design Thinking achieves and produces improved outcomes for the problems faced by organizations as it simplifies and humanizes for problem ;1

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\*Corresponding Author

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Human needs to understand that the way people communicate to interact for product and for to solve the developments through all interactions mean as “human-centric” which is a gist for ‘Design-Thinking’. To concentrate on the needs of a human in basic approach, behaviours, technology, community data ‘immerse design thinking’ involves in problems that are to be figured out for concentrating on technology blending for the tools innovated to solve for the needs of human user.

A non-linear process that is collective is thoroughly human-centric, which allows for exploring of multiple outcomes for a single problem that are quick in effective way. It grants an entire crew but not only designers for questioning the approach and to ideate for possible solutions for wide range.

Adequate ‘design thinking’ mold’s how an organization creates to develop plans, courses, working and their productivity. A human-centred way of contact to innovate enables in an effective way of contact to solve the problem.

Design thinking helps organizations around the world to accomplish and to cultivate by making their tangled problems which were to be simplified into easy and issues that are understandable. Here it Focuses on the human users for creating and to keep in record at their focus in centre which will be understandable for the services that are made and they are anticipated that are to be used and to receive. Organizations shatter expectations and reflect everyone the new standards for what they are expected from others in Integrated Design Thinking. While we are in the process of design thinking we often catch upon the issues in real which is bring much further different over the original thinking. Until we understand where exactly core problem resides, we need to personally interact with customers and empathize with them. The design thinking process discovers deep in helping organizations what to define and where the real problem exists. And there is no doubt that there can be “challenges with design thinking”. Leaders need to agree that uncertainty and design may not attune to its estimates. Leadership have to hold up to the risk and allow people to explore while creating culture, even without completely understanding the problem logically. Here it creates a practice that doesn’t encourage deficiency, but realize that deficiency is the chunk of course and path to progress.

## 2. DESIGN THINKING

“According to Tim Brown, IDEO, design thinking is a human-centred approach” is to innovate designer’s toolkit to integrate people’s need and technology opportunities, and to satisfy needs to succeed for a business.

The way of approach is to help in considering to the problems that are complex in business, which leads to define the task which represents poorly in nature or even exotic. “By analysing the consumers requirements and stakeholders, this approach reassess issues in a human-centric manner by generating ideas in multiple ways through collaboration and sessions that can be brainstormed and collects feedback in collective way through a ‘quick rapid-prototyping’ and testing is done from direct feedback”.

“According to Hasso-Plattner Institute of Design at Stanford (d.school) design thinking includes 5 key stages. The five stages are Empathize, Define (the problem), Ideate, Prototype, and Test.

As many organizations have adopted design thinking, some have renamed or adjusted the phases to fit their organizations” ;2

‘The **Empathize** stage’ illustrates as the keystone stage in design thinking. Design thinking people understand the style of functioning of people needs within context of problem which they are making an attempt to solve in this segment. Mainly it focuses to follow up why people try to do things in a particular way, in their own precepts and in their emotional requirements and for the needs which matters to them.

To Focus on the problem the design thinkers go through the Empathize stage and try to start to learn from the beginning to understand the scenario. Every tiny bit of information is considered like quotes, personas, interviews and maps of empathy, journey and experience.

‘The **Define** stage’ illustrates as a condemnatory stage as things belong to determine the going on forward opinion which brings out the accuracy and centre to determine a significant “action-oriented problem statement”. Here in the segment, we can encounter a problem for which we have to find a solution that can be the exact one for initial started thinking step to which it can be solved. This may outcome can be in knowledge synthesizing and identifying the connectives and arrangements. A “well-defined point of view (POV)” has the following:

- Bestows the spotlights and structure the problem.
- Motivates upon to the team
- Evaluating competing ideas makes a benchmark which is intimidated.
- Decisions are made to Empower your team individually that are in parallel.
- Hearts and attention of the human you meet are to apprehended.
- Impossible task of developing concepts will be saved from all the things of all the human (i.e. the explanation of problem needs to be discrete and should not exists in broad).

A strongly extended, strongly defined POV makes it plain in transition to the ‘ideation phase’ in a very natural approach. Helping design thinkers determine “How Might We...” by using brainstorming form for entire problem using possible subsets, which allows to have attention on variant aspects of the challenges they are going through.

‘**Ideation**’ illustrates where design thinkers begin for taking transition from analysing the issue and to create the possible outcomes. The unit is motivated to begin from forcing the bounds of ideas and outcomes which can be achievable. Ideation is not about having single best solution but to have wide range of outcomes for that particular problem that can be enhanced for future development also. It creates ideas from all the team members point of views, discovers the unanticipated zones of exploration and solutions which goes outrange evident to discover new outcomes.

It will focus on many possible solutions as a team which works through ideation which can be extended forwarding for prototyping level. Moving ahead with many numbers of outcomes helps the group to speed up in creation and to verify the testing process for the best outcomes without missing any of the momentum.

‘The **Prototyping** stage’ illustrates giving life for our idea. A prototype is something like any user can interact with. A Prototype gives the user a real experience of it which can be a tool, prototype that is clickable or a depiction.

From a business perspective prototyping became so important that testing became a key to ensure cost reduction and development time and product introduction. It interacts with users and chances to validate the possibilities and breaks huge problem into chunks of piece’s for testability. This stage is a core to develop a MVP which makes for validating the market and enter soon into market and pre-empt the race.

‘The final phase is the **Testing**’ illustrating the prototypes seek the user’s feedback. This provides an opportunity for users and to analyse how they can connect with the productivity in real scenario of life. A great rule for prototyping is “always prototype as if you know you are right, but test as if you know you’re wrong -- testing is a chance to refine your solutions and make them better.”

Feedbacks are rapidly encouraged for the group to redefine the prototype, POV refinement and acquire things related to human users. Even if the prototype doesn’t achieve its goals with users, it doesn’t come to a conclusion that the idea may not be a failure. The team now rapidly learns from human users and cultivate the moves of product and tries to finalise to meet the requirements and try to accomplish the needs of the human-users.

It is not only essential to understand how a design thinking is done, and also consider what it should not be ;3

### 3. DESIGN- MYTHS AND DELUSIONS

#### 3.1 Design Thinking is Only for Designers

To clear up complex problems in the fields of technology and business which focuses to work in together for “Design thinking”. An acceptable designer will not have a flair approach which includes the whole and sole of their own kind. An essence of Good designers is to question everything before solving particular task. Designers endeavour in a habitat of collaborative to solve the problems with the help of others.

In the point of view for sales, commerce, IT, knowledge and all the other expertise people who are working together with the designers obtain a solely and creative solutions. Solutions that are obtained from many observations for the process to start and these observations leads to the outcomes which are whole and sole and creative in a systematic way to solve.

#### 3.2 Design Thinking is a Linear Gradual Process

“The model of design thinking follows a 5-stage process — Empathy, Define, Ideate, Prototype, Test — which looks linear and like a process, but really isn’t follow ;1”.

Design thinking process starts and organized from process to be made, ideas to innovate, issues, check points to verify and concern outlaid. Design thinkers allows groupings to view all possible scopes to issue and to address them. From this stage, design thinking becomes flexible and stages repeat one after the other to describe best outcome by making the attempts in several ways. It is not just ensuing from step 1 to step 5 and you are accomplished but it is a process which is iterative, where the arrangements are further something like:

*“Empathize/Define/Ideate, identify a spin off to new project for further Prototype/Define/Test/ Empathize/Test, identify a spin to new project for further Test/Prototype/Test/Define/Empathize/ Prototype/Test”;1*

This repetition procedure is done again and again to create various interactions that can reach the limitations of consumers expectations which can continue beyond. As ‘design thinking’ is not consecutive, it represents as a free-flowing method in a collaborative way for meeting the challenges in business for finding best solution for complex issues. Sharing different ideas in the groupings are able to made openly, in discussions they may communicate with similar languages, and have everyone will be on unique line whenever a challenge arises. The association and accuracy in this procedure leads and speeds up at every challenge that can be cross verified and concluded has a clear impact on the groupings.

#### 3.3 It’s Exactly an Aspect in the Process

In Design thinking methodology, the most prosperous groupings extend to be provided so that it doesn’t stop the feedback cycle and iteration. This is for people’s necessity being changed quicker than ever. Very often this can be different in tangible object where people can communicate as many are not up to the knowledge of using it or for what scenario it could be handled for.

Many enormous groups constantly stay along with their challengers by focusing on their views and implementations after every first stage. Continually innovating and getting along are the most important things needed for a company to stay along.

#### 3.4 It is a Fit of Codes

We are in a universe where process is considered as the king that defines plan of flow with specified steps and outlined pathway data. When we supposed to follow the codes then the process will be initiated to do the rest.

The procedure of problem-solving will not be the look alike in case of design thinking. An organization experience a positive outcome as results if they adapt the leading and utilizing the clients in design thinking.

Focusing on a particular set of steps to attain the desired results which can be true for client goals and as well as for organization goals. This process may be painful, costs longer and still may be results best provides to anyone.

#### **4. FUNCTION OF DESIGN THINKING**

Design thinking is a path to inventive analytic which is a methodology, a culture and a philosophy. Design should be well organized in functional way of purpose to meet business goals.

Three key perspectives of design viewed in the form of Venn diagram by the IDEO founder Tom Kelley. “Kelley noted that innovation happens through viability(business), feasibility(technology) and desirability(people)”. The viewpoint of business includes business in terms of domestic and non-domestic ranges and in dynamically working with industry.

The design thinking structure of process allows groupings to obtain huge asserts. For every type of organization, design thinking helps refining proper planning by classifying and inspecting the various effective problems raised by user or requirements that are needed to reduce risks which occurs in business and to upgrade the outcomes. Many organizations through the procedure to uncover proxy or wasteful procedures and are able to set them all into streamline to gain more efficiency while considering in multiple areas ;2 The cost is reduced, speed is improved to retail on upcoming products counting with redefining continuing products. This builds up an energetic environment for members of groupings to the pleasure of customers.

#### **5. DESIGN THINKING BENEFITS**

##### **5.1 Launch New Ideas for Risk Reduction**

Design Thinking concentrates on presenting models to sponsors purchasers early in very usually. This satisfies the upcoming designs that reside on a system which will exactly greet the wishes of user, while get ridding of the churn and worth of bad concepts. The final outcome is a brand that launches data in huge amount that are backed and ingrained with confidence in various areas.

##### **5.2 Contribution and Outcomes for Innovation**

Existing products and services are improved incrementally by creating ideas internally very often. Improvements that are incremental can be subtle but they can raise a risk in business which can be disrupted externally. Design thinking involves process through innovation that can be created to surface absolutely innovates concepts to further test it quickly. Outcomes can be given in greater source further.

##### **5.3 Learning of Faster Stride**

In Design Thinking process is designed in which it can get multiple people through multiple departments to generate ideas of high quantity. As prototype is everything, we can start and testing ideas in a quick manner, and allows them to further seek traction where you can handle and move to place where we don't need to. Results in Learning of Faster Stride. High rate of innovation can be advantages to companies for consistently introduce new solutions and to improve them with proprietary data. Design Thinking is a key tool in maintaining high rate of innovation.

##### **5.4 Contented Users**

When we actually communicate to users and give them input what you are designing then they are happier with the end result. Design Thinking seems to be one of the best tools for breaking down the

wall between company leaders and actual users. When there is no wall between them then they can emerge amazing innovations.

## 5.5 Further Returns and Revenue

Human-centred design approach is identified as significant in financial benefits as 32% in revenue and 56% in total returns. This study shows that there can be significant financial, measurable outcomes and ROI that can result from consistent design thinking approach to business.

## 5.6 Decision Matrix Analysis

A decision matrix is a table that evaluates a set of options for the given set of criteria. To give a clear structure it develops a quantitative score among all the based options and then communicates and will have a discussion on it. The decision matrix is used to make a decision or may be used as one of many decisions for analysing techniques to model a decision for decision makers. Let's consider one example for purchasing a House ; 5

## 5.7 House Purchase

A decision matrix may be used to consider as a personal decision such as house purchase. This may be counted by assigning an evaluating maximum score to each criterion.

## 5.8 Decision Matrix Analysis Application

The Decision-Making Analysis is characterised by using the factors and the alternative choices which are visually clear. The horizontal rows represent the potential options and vertical columns the different factors ;3 Weights are added to these factors where the most deciding factor for the organisation is the highest figure. It determines in advance to count as 1 for least important and increases up to 5 in gradation that will be considered as meaningful. The following steps makes the process clear:

### Step- 1: Matrix Drawing

“On a Whiteboard or on a large paper of sheet, draw a matrix with an x row numbers and x column numbers. Placing all criteria/factors into rows and checks for if any 4 then there will be arranging 4 dedicated rows. All choices/options are then visualized for columns if there exist 3 choices/options then there are 3 columns”.

### Step- 2: Allocate Score to each option

“Each factor whether each option is examined in which well scored factors will allocate 5 here and if bad scored factor, then it will allocate 1”.

### Step- 3: To Determine Weight

“All the different factors are individually assigned with some weights. If ‘duration of deal’ is important to organisation then it will take a 5. If ‘duration of deal’ is less decisive to organisation then it will take a 1”.

### Step- 4: To Calculate Weights of the scores

“The weights from step- 3 are then further multiplied by the entered digits for the matrix in step- 2 which results in a score of weighted”.

### Step -5: Final scores are Calculated.

“Finally, all the scores of weighted are counted in step 4 which are joined to basement of each column. The decision which has the score of highest wins. If same final score is available for two decision, then the organisation will re-examine the factors in various ways and reassign new weights. Then the matrix will be re-entered with the options continuing only ; 4 ”

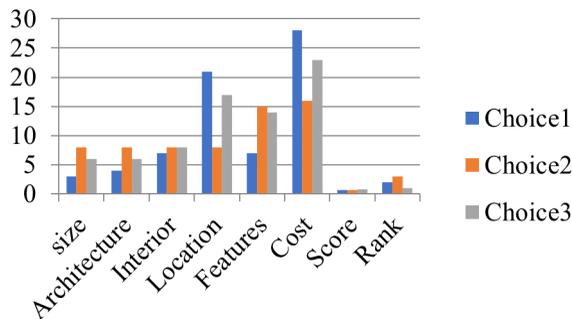
Decision Matrix Analysis guides us to take decision between the options available for us in which we need to focus on the different factors into account (table 1 and figure 1). Decision matrix

Table 1. Decision matrix: house purchase

	Max	Choice1	Choice2	Choice3
Size	10	3	8	6
Architecture	10	4	8	6
Interior	10	7	8	8
Location	25	21	8	17
Features	15	7	15	14
Cost	30	28	16	23
Totals	100	70	63	73
Score		70%	63%	74%
Rank		2	3	1

NOTE. Max=Maximum, Choices are considered as the parameters of Size, Architecture, Interior, Location, Features, Cost and Totals of each are Calculated and Scores are Evaluated and Ranks are given. Based on the Ranks the selection is taken as executed.

Figure 1.



not only helps you in selecting the action of course that is best of but it can also prioritize the given tasks, problem-solving and crafting arguments to defend the decision that is made. Using a decision matrix, A situation of a logical viewpoint need to assess and we can obtain variables comparable to weigh that are enough.

## 6. CONCLUSION

Design thinking may not solve for all organization’s problems but well works for innovation of imagining the future and by helping people who are in organizations to cut down the “complexity of problem-solving”. Design thinking is very effective in numerous addressing issues, but in a challenge of business it might not have a key tool. By changing the behaviours and laying sustainable changes for foundation, Design thinking will help in facilitate culture change ;4 Opportunities of unique creation to humanize technology and emotionally connect to services of products with people for whom they are created are enabled for organizations by design thinking. To streamline processes to make the employees in efficient in individual roles and ultimately effective within the organization, design thinking helps in discovering problem areas previously that are unknown. Creation of an excited culture of innovation and to empower the thinking of employee out of box is allowed by Design Thinking. “As design thinking is empathetic, more human approach is driven to its business”. A new culture of workplace is created where people want to be and their usage of products and service want to be.

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*Prema Latha Velagapalli received her B.Tech degree in Computer Science and Engineering from P.V.P.Siddhartha Institute of Science and Technology(JNTU-H) A.P. She Completed her Postgraduation M.Tech degree in Computer Science and Engineering from Karunya University, Coimbatore, T.N. She is working as an Assistant Professor in Dept of C.S.E,K.L.E.F, Vaddeswaram, Guntur, A.P. She is a Phd Scholar in KL UNIVERSITY, Vaddeaswaram, Guntur, A.P. She is an author of seven research papers in International Journal's .Her area of Interest is in "Software Agent's in Internet of Things."*