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## Understanding the domain

Change me.

— Chinese Proverb

## Introduction

### The domain of international trade

In many countries, international trade represents a significant portion of the gross domestic product (GDP)—making an exchange of capital, goods, and services between untrusted parties spread across the globe a necessity. While economic organizations such as the World Trade Organization (WTO) were formed specifically to ease and facilitate this process, differences in factors such as economic policy, trade laws, currency, etc. ensure that carrying out trade internationally can be a complex process with several entities involved across countries. Letter of Credit exist to simplify this process. Let's take a look at how they work.

### Understanding letters of credit

Documentary Letter of Credit (LC) is a financial instrument issued by the banks as a contract between the importer (or buyer) and the exporter (or seller). This contract specifies terms and conditions of the transaction under which importer promises to pay the exporter in exchange for the goods or services provided by the exporter. Letter of Credit transaction typically involves multiple parties. A simplified summary of the parties involved is described below:

1. **Importer:** The buyer of the goods or services.
2. **Exporter:** The seller of the goods or services.
3. **Freight Forwarder:** The agency that handles shipment of goods on behalf of the exporter. This is only applicable in cases there is an exchange of physical goods.

4. **Issuing Bank:** The bank that the importer requests to issue the LC application. Usually the importer has a pre-existing relationship with this bank.
5. **Advising Bank:** The bank that informs the exporter about the issuance of the LC. This is usually a bank that is native to the exporter's country.
6. **Negotiating Bank:** The bank that the exporter submits documents for the shipment of goods, or the services provided. Usually the exporter has a pre-existing relationship with this bank.
7. **Reimbursement Bank:** The bank that reimburses the funds to the negotiating bank, at the request of the issuing bank.



It is important to note that the same bank can play more than one role for a given transaction. In the most complex cases, there can be four distinct banks involved for a transaction (sometimes even more, but we will skip those cases for brevity).

## International trade at KP Bank

Kosmo Primo (KP) Bank has been in business for the last several years and has been focusing on providing a variety of banking solutions such as retail, corporate, securities and other products. They have been steadily expanding operations to other countries and continents. This has allowed them to expand their international trade business significantly in the last decade or so. While they have been among the leaders in this space, the recent onset of new digital-native competitors has started to eat into their business and impacting their top-line adversely. Customers are complaining that the process is too cumbersome, time-consuming and lately unreliable. In addition, due to a very inefficient, manual process that is currently in place, KP Bank has been finding it very hard to keep a check on costs. Just in the last three years, they have had to increase transaction processing costs by around fifty percent! Not surprisingly, this has coincided with plummeting customer satisfaction — which is evidenced by the fact that the number of customers serviced has remained flat over the intervening time.

The CIO has recognized that there is a need to look at this problem afresh and come up with a strategy that sets KP Bank up for sustained success for the next several years and re-establish them as one of the leaders in the international trade business.

## Understanding international trade strategy at KP Bank

To arrive at an optimal solution, it is important to have a strong appreciation of the business goals and their alignment to support the needs of the users of the solution. We introduce a set of tools and techniques we have found to be useful.



It is pertinent to note that these tools were conceived independently, but when practiced in conjunction with other DDD techniques can accentuate the effectiveness of the overall process and solution. The use of these should be considered to be complementary in your DDD journey.

Let's look at some of the most populars techniques we have employed to quickly gain understanding of the business problem and propose solutions.

## Business model canvas

As we have mentioned several times, it is important to make sure that we are solving the right problem before attempting to solving it right. The business model canvas, originally conceived by Swiss consultant Alexander Osterwalder as part of his PhD thesis, is a quick and easy way to establish that we are solving a valuable problem in a single visual that captures nine elements of your business namely:

- *Value propositions*: what do you do?
- *Key activities*: how do you do it?
- *Key resources*: what do you need?
- *Key partners*: who will help you?
- *Cost structure*: what will it cost?
- *Revenue streams*: how much will you make?
- *Customer segments*: who are you creating value for?
- *Customer relationships*: who do you interact with?
- *Channels*: How do you reach your customers?

The business model canvas helps establish a shared understanding of the big picture among a varied set of groups including business stakeholders, domain experts, product owners, architects and developers. We have found it very useful when embarking on both greenfield and brownfield engagements alike. Here is an attempt we made to create the business model canvas for the international trade business at KP Bank:

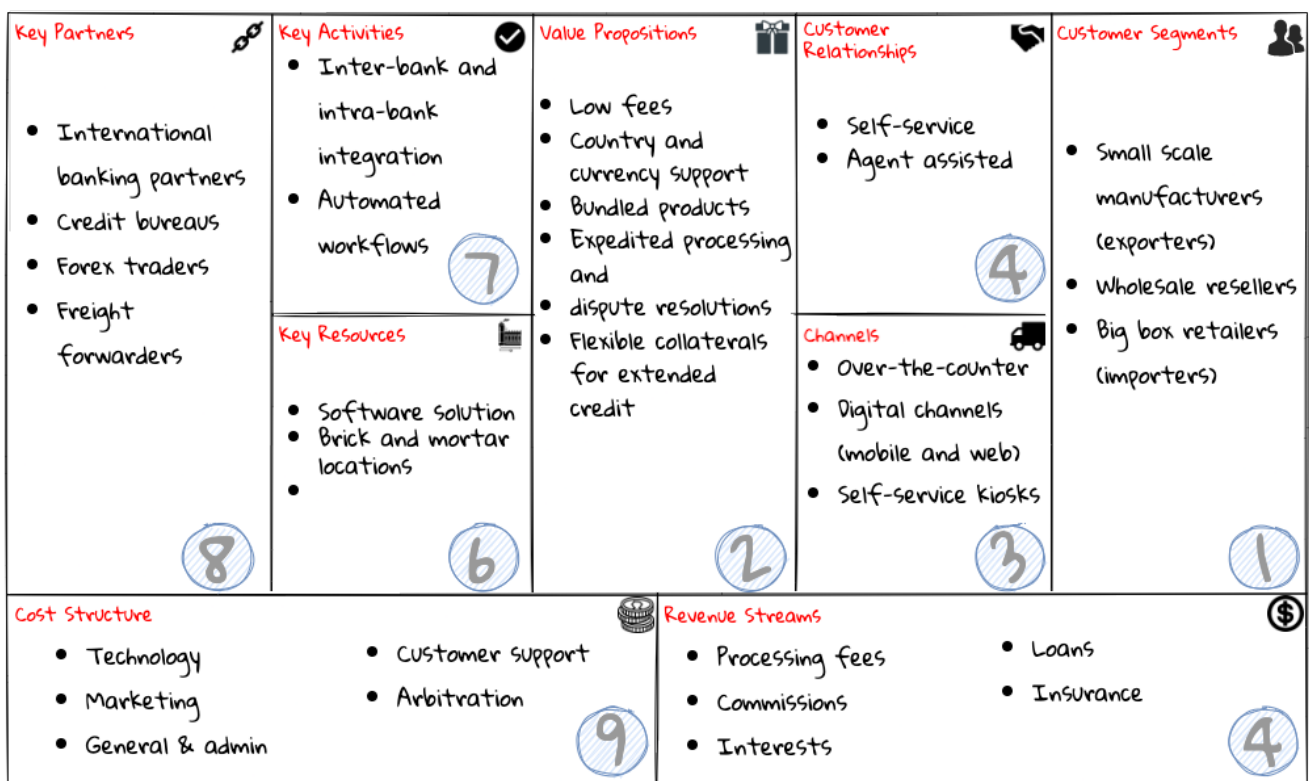


Figure 1. Business model canvas for the international trade business at KP Bank

Using this canvas leads to insights about the customers we intend to serve at the bank, what value propositions are offered through what channels, and how we make money. When developing a business model canvas, it is recommended that we follow the numbered sequence depicted above in order to gain a better understanding of the:

1. Desirability of the business (who our customers are what they want).
2. Feasibility of the business (how we can operationalize and deliver it).
3. Economic viability of the business (how we can identify costs and capture profits).

Creating the business model canvas can prove challenging if you do not have an existing product already—which is usually true in case of startups or existing enterprises expanding into new business areas. In such cases, a variation in the form of the lean canvas is worth exploring.

## Lean canvas

A variation of the business model canvas, called the *lean canvas* was conceived by Ash Maurya for lean startups. In contrast to the business model canvas, the main emphasis here is to first and foremost elaborate on the problem that needs to be solved and explore potential solutions. In his own words: “My approach to making the canvas actionable was capturing that which was most uncertain, or more accurately, that which was most risky.” This is pertinent for businesses operating under high uncertainty (which is usually true for startups). Similar to DDD, it encourages focusing on the problem as the starting point for building a business.

Structurally, it is similar to the business model canvas, with the following differences:

1. *Problem* instead of *Key Partners*: because it is common for businesses to fail due to misunderstanding the problem they are solving. The rationale for replacing the *Key Partners* block is that when you are an unknown entity looking to establish an unproven product, pursuing key partnerships may be too premature.
2. *Solutions* instead of *Key Activities*: because it is important to try more than one solution iteratively and respond to feedback. *Key Activities* is removed because they are usually a by-product of the solution.
3. *Key Metrics* instead of *Key Resources*: because it is very important to know that we are progressing in the right direction. It is advisable to focus on a small number of **key metrics** to enable pivoting quickly if needed. *Key Resources* is removed because developing new products may not be as resource-intensive in the current climate. Furthermore, they may appear in the *Unfair Advantage* box, which we discuss next.
4. *Unfair Advantage* instead of *Customer Relationships*: because it clearly establishes our differentiators that are hard to replicate. This is closely aligned to the idea of the [core subdomain](#) we discussed in chapter 1 and gives us a clear picture of what we need to focus our energies on at the outset.

We have shown the result of a lean canvas workshop we ran for KP Bank here:

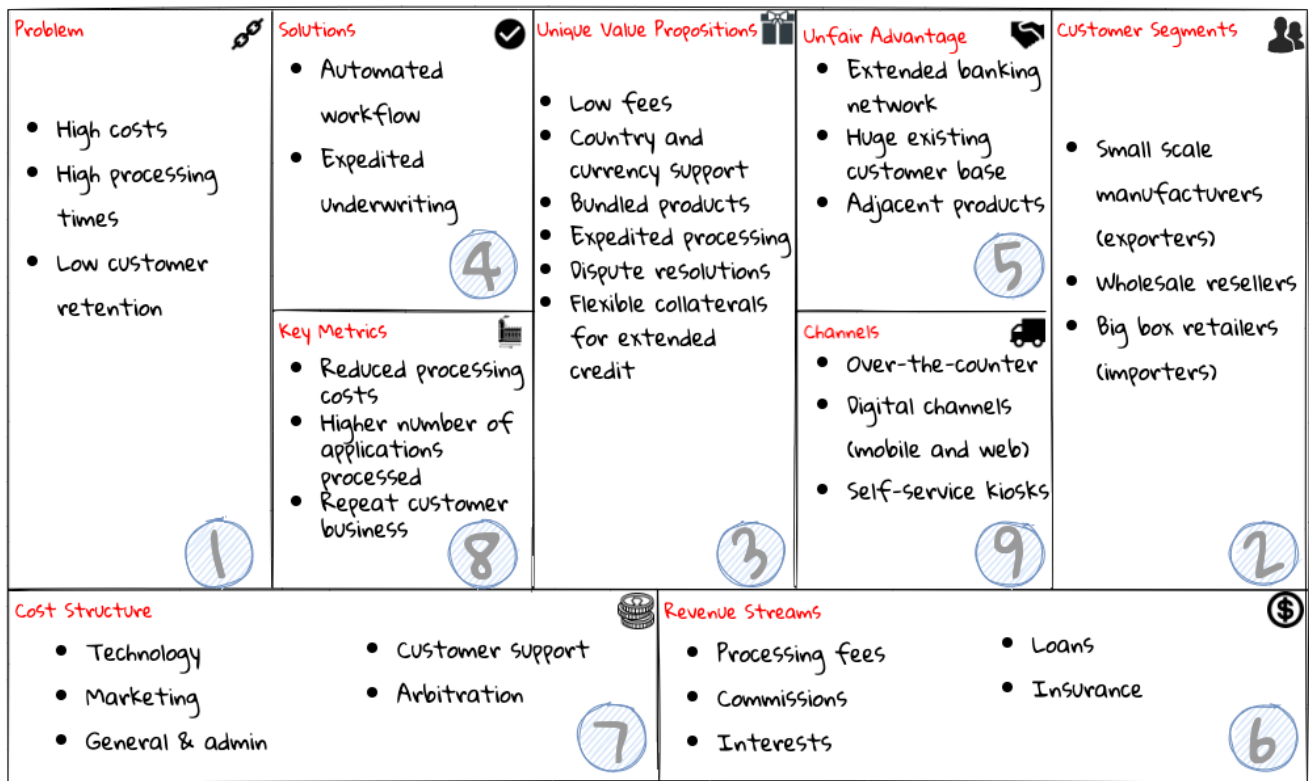


Figure 2. Lean canvas for the international trade business at KP Bank

The exact sequence in which to fill out the lean canvas varies. Ash Maurya himself suggests that there may not be a prescriptive run order to do this exercise on his [blog<sup>\[1\]</sup>](#). We like starting from elaborating on the problem before moving on to other aspects of the canvas.

## Wardley maps

The business model canvas can help establish clarity of purpose at a high level. The Wardley map is another tool to help build a business strategy. It provides a sketch of the people that the system is built for, followed by the benefits the system offers them and a chain of needs required to provide those benefits (called the *value chain*). Next the value chain is plotted along an evolution axis which ranges from something that is uncharted and uncertain to something that is highly standardized.

Here is a sample Wardley map for a bank that is looking to provide a suite of next generation credit card products:

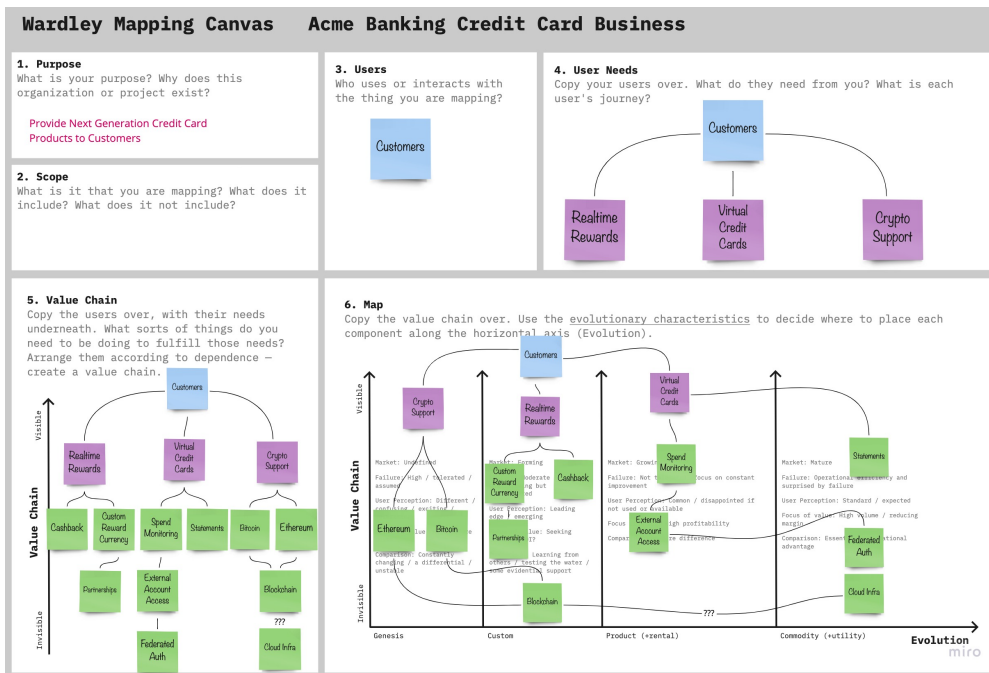


Figure 3. Value chain to a Wardley map

The Wardley map makes it easy to understand the capabilities provided by our solution, their dependencies and how value is derived. It also helps depict how these capabilities play out in comparison to those offered by competitors, allowing you to prioritize attention appropriately and make build versus buy decisions.

## Impact maps

An impact map is a visualisation of scope and underlying assumptions, created collaboratively by senior technical and business people. It is a mind-map grown during a discussion facilitated by considering the following four aspects:

- **Goals: Why** are we doing this?
- **Actors: Who** are the consumers or users of our product?. In other words, who will be impacted by it.
- **Impacts: How** can the consumers' change in behavior help achieve our goals? In other words, the impacts that we're trying to create.
- **Deliverables: What** we can do, as an organisation or a delivery team, to support the required impacts? In other words, the software features or process changes required to be realized as part of the solution.

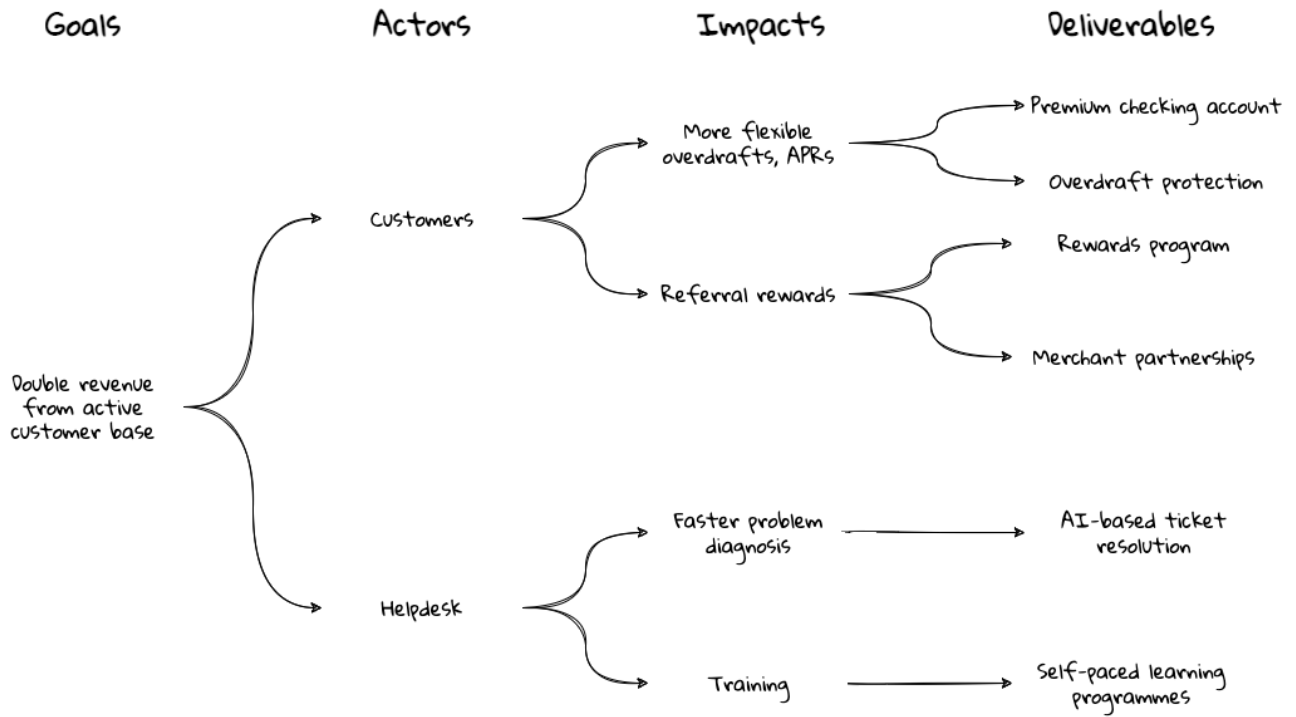


Figure 4. A simple impact map for a retail bank

Impact mapping provides an easy to understand visual representation of the relationship between the goals, the users and the impacts to the deliverables.

[1] <https://blog.leanstack.com/what-is-the-right-fill-order-for-a-lean-canvas/>