Arion Bank Digital Future Accelerator

Designing the Digital Journey of a Bank

2018

White Paper
Prior to 2016, Arion Bank’s IT workflow was somewhat traditional. The project selection process took time and the project outcome did not necessarily meet business demands. To some extent, IT and business were not speaking the same language, at least not fully understanding each other. In such a scenario, blame-gaming can easily accelerate. The business side felt that IT did not understand how to fulfill the needs of the customers while IT felt that the business side did not understand the technical side of the business. In many circumstances, the culture may have made the IT department feel isolated. Plainly put, IT was IT and the business side of the Bank was just that, the business side. The two divisions were in many instances not part of the same company metaphorically. This translates into the Bank being unable to capture the business value intended with its IT projects.

New forces emerge

New ideas and thinking within the financial industry emerged in 2012-2014, such as technological advancements, the planned implementation of new EU legislation and a discussion on Open Banking. New business models emerged with FinTech startups and venture capital’s substantial investment in those companies. Combined with an ever increasing focus on cost of (IT) operations, the financial industry, Arion Bank included, became more aware of a need to adapt faster and look at problem solving differently. Arion Bank also had an insight into the Lean Startup methodology that startups use in their product development process [see White Paper: “Arion Bank and Innovation”]. Looking outward from Iceland, rapid changes in international discussion, business literature and technological advancements, all of the above factors combined called for a fresh approach on how to better deliver financial services to the Bank’s clients and reducing cost of operations at the same time. By early 2016, Arion Bank had decided to change the Bank’s IT processes and the IT organizational structure.

The premise for changes was:
- focus on customer journeys
- more productive and reliable product delivery
- the Bank is one team
- reduced cost over time
- Increased revenue when applicable

Introducing structural changes to an organization is a huge undertaking from a management and financial perspective. Top management buy-in and support for such a decision is a prerequisite. Secondly, the importance of approaching and managing employees’ expectations cannot be underestimated. Both issues were carefully considered, planned and managed from the outset.
The Guiding Principles of Arion Bank’s Digital Future Accelerator

1) **End-to-end customer journey**
   - A given premise, the only way to achieve such a large improvement is through a zero-based redesign of the complete customer journey. A good example of such a project is a customer’s credit rating journey, a prerequisite for mortgages for retail bank clients. The previous process took on average 10 days where the customers themselves had to gather various documents (e.g. last year’s tax return, salary slips, outstanding loans) and submit them to the bank. The bank then performed extensive manual work in entering this information into different systems to reach the customer’s credit score. The new automated process at Arion Bank takes three minutes where the customer only needs to enter the email address and phone number associated with their electronic ID. Based on this information, Arion Bank automatically collects all the relevant information through APIs from external partners with the customer’s consent.

2) **Team and co-operation**
   - The focus of each project, the team is 100% focused on that single project. Team members hand over their normal day-to-day tasks to colleagues with out-of-office messages on their email and phones. They are solely members of the Digital Future project. The team is composed of a business cell and an IT cell, each comprising 6-8 employees. A project manager, scrum master and a change agent lead the IT team. They are co-located 5 days a week in a team room shielded off as necessary for increased productivity. The business cell is composed of front and back office personnel, designers and specialists such as from the Bank’s risk management, marketing and legal divisions. The business cell participates fully for the entire duration of the project, not just during the analysis and design phases. The IT cell has full-stack capabilities and is self-sufficient throughout the project. The composition of the team varies and depends on the nature of the customer journey being worked on. The team members are hand-picked and candidates are generally visionary, demonstrate out-of-the-box thinking, are positive and ambitious, pragmatic and solution oriented, have strong problem-solving skills and are not afraid to get their hands dirty. The participant selection is evidently also based on core expertise. This new approach to working need not suit everyone - high velocity, unconventional organization, hard deadlines and some uncertainty are part of the deal. Some employees handle these challenges better than others. But the right candidates flourish in the environment. When the temporary members return to their daily jobs, they bring the experience with them. Over time, more and more employees of the Bank will learn the new principles and share them with their colleagues, making the whole organization more flexible.

3) **Startup mentality and Customer approach**
   - In essence, Digital Future projects function like a startup company within an established organization. Each project is fully financed with venture capital and resources. The team is trusted to make the most of the investment. As within a startup company, each project is considered a business driven entity with an IT component rather than a pure IT project. The selection process is in the hands of the Bank’s executive board, which prioritizes the E2E customer journeys that are handed to Digital Future based on the expected value to the customer, the Bank and its employees – in that order. At initiation, the single known or given thing which is particular customer journey is being redesigned. All further detailing awaits the first workshop in which the whole team and key stakeholders participate. The first day in Digital Future is about mapping the current process. On the second day, the team creates a vision of a friction free and intuitive customer journey. Based on that work, the team determines the Minimal Viable Product of the project, keeping in mind that a bank serves various and different customer segments. Thus, the team is constantly at the forefront and team members are aware and reminded that the solutions created need to be actively used by the customers. Already on the third day, the team starts testing mock-ups of the new process with real life customers. Designers are vital in making the new process come to life in order to effectively communicate and test it with customers. The customer journey is then iterated throughout the project lifetime with customer testing conducted almost every week until final delivery. In the startup world, this process is commonly referred to as the Lean Startup methodology.

4) **Time frame of 16 weeks**
   - Each Digital Future project is limited to 16 weeks. A fixed time-period and fixed budget means that the scope of the project varies between projects. Besides focusing the team and forcing it to prioritize, the fixed time frame also serves as a risk management technique – if a project doesn’t create the anticipated value, the losses are cut at the end of week 16. The team is empowered to make all but the most critical decisions themselves with the assurance that the team never needs to wait for anyone. Quick decision making is ensured with at least a weekly decision meeting with 3-4 C-suite executives, whose responsibility is to remove obstacles and ensure that the team can maintain speed throughout the project.

5) **No roadblocks**
   - A tight timeframe demands discipline and a rigid structure. Experience has shown that all projects meet hurdles and obstacles on the way. Managing these roadblocks is the responsibility of the Head of Digital Future. Managing and keeping up the development and production pace without disruption is challenging and time consuming. The team is encouraged to be solution oriented, to strongly believe in its capability nothing or no one can impede the team in achieving its goals. In a larger organization like a bank, such mentality cannot be taken for granted. It is a matter of training. In Arion Bank’s experience, the mentality of no-roadblocks is infectious; where the Digital Future team has demonstrated admirable problem-solving skills with tough deadlines on behalf of its external partners, e.g. Iceland Tax Authorities and key IT vendors.

6) **Commitment throughout the organization**
   - As stated above, the Bank as whole with the Executive Committee in the lead is highly committed to the Digital Future process. The CEO and three Managing Directors take part in weekly decision meetings only concerned with Digital Future. The financial commitment is secured, since the Digital Future projects are fully financed for the next 4-5 years in the Bank’s business plan. The Board of Directors regularly requests and discusses updates and strategy surrounding Digital Future. Top and middle management also see the benefit, since they compete for their projects being accepted into the next cycle and therefore show full commitment in supplying the full-time employees which Digital Future demands.
The first outcome was that the Bank adopted a two-speed IT organization where standard operations mostly remained in a similar structure and work processes as before while digital customer journeys for the Bank were completely redesigned in a whole new structure within the IT department. Arion Bank internally refers to the team and structure as the Arion Bank's Digital Future Accelerator. In essence, it is an internal business accelerator where diverse teams from various divisions of the Bank redesign specific customer journeys and digitize them.

“In a given time period, it is better to have delivered ten products that solve 80% of the problems than two products that solve 99% of them”  
Rakel Ottarsdottir - CTO

The Sell and the Buy-In

The process of establishing an operational entity with a strategic digital focus was a gradual, intentional and painstaking one. While uncertain at the outset, the decision making and management commitment required stamina on behalf of the key employees involved.

The Bank’s digital journey started with a think tank of 25 people from various departments. The purpose was to create a general vision of how and why to become digital and creating a sense of urgency in addition to aligning people’s expectations. This group met a few times during the course of a few months. An external party was brought to the table to advise on how the key elements could be structured and implemented. Questions were answered in detail on how Arion Bank could accomplish its vision (accelerator), what should be targeted (E2E customer journeys) and notwithstanding understanding the urgency (why). Convincing both the revenue generating divisions of the Bank and the CFO, responsible for the costs, was a key component in getting air under the wings of the whole concept. The time from the think tank until the accelerator’s first day of operations was around 12 months. However, this linear process does not tell the whole story.

A new CTO was hired internally in early 2016 who had a managerial background from Marketing and Business Development as well as from IT. Other changes in top management of the Bank resulted in the fact that the CTO became part of the Executive Committee. IT had previously been under the COO. With a CTO at the executive table, the digital journey was lifted on the Bank’s agenda.

The IT organization was changed substantially. One of the largest changes took place in 2016 when IT operations were outsourced completely to a third party, reducing the IT team by 20%. The change provided scope for more focus on business and software development through Digital Future and Project Office. In Arion Bank’s experience, the success of the initiation of Digital Future can be assigned to a strong will of top management to implement a disruptive process and organizational changes. In other words, favourable human interaction in conjunction with structural changes and a strong commitment to the digital journey that trickled down the organization to all levels.

Arion Bank committed itself from the outset to funding the entire project for at least five years, a large undertaking in every aspect for a company of its size.

The Pilot Project

Parallel to adopting and developing the methodology the first project was designed.

Working with external advisors in the preparation phase turned out to be vital. Yet, the awareness of not becoming dependent on such external resources after a pilot project was critical. The foundations for project managers and middle management becoming confident and fully sustainable was laid by giving them autonomy and responsibility early on. This decision turned out to be a good one from two perspectives – structural approach to organization learning and professional development of middle management.

The advisors brought in a relatively standardized and well-known two-speed IT project approach. The thinking behind a two-speed IT is that it helps companies develop their customer-facing capabilities at high speed while decoupling legacy systems for which release cycles of new functionality trickled down the organization to all levels.

“The ambition is a 10X impact rather than a marginal 10-20% improvement in any given Digital Future project”  
Höskuldur H. Ólafsson – CEO of Arion Bank
stay at a slower pace. Arion Bank has since made adaptations to this approach to align it to the Bank’s organization, capabilities and strategy. For instance, the Bank has added a professional development dimension into the project approach to ensure that employees lent to the projects are all trained in the same way of working.

The Outcome
Changing the structure and workflow proved to be highly successful. Arion Bank’s Digital Future Accelerator has delivered fourteen projects in the first seventeen months and many more are in the pipeline. What would have taken years to deliver in the older structure only took one year. See White Papers on some of the first projects in the Further reading section below. The pictures below depict some changes in customers’ behavior and impact of the delivered solutions.

Key Learnings
The transformation of digital product development and delivery was successful for Arion Bank. The key learnings for Arion Bank were amongst others:

Predefined workflow saves time
The composition of each project team has specific roles and the workflow is always the same. Hence, it streamlines the project organization saving huge amounts of time. It helps the team focus on the “what” rather than the “how”. Any project manager understands the dilemma. Over time, the core team gains better skills and understanding of the
fundamental methodology and can apply solutions to particular problems systematically.

*Continuous feedback creates wanted culture and ethic*

Managing a new team every 16 weeks is a challenge for the Accelerator’s middle management team. It is compensated by regular feedback to every team member during the project’s lifetime. The feedback loop is clearly defined from the outset and ensures coordinated methods and procedures both within each team and between teams that run projects in parallel.

Despite definite results in development and product releases, it is a challenge informing and educating customers and employees on the innovations. Guiding customers through a new flow in service is a challenge. Employees need knowledge of these products and processes to be able to answer customers’ questions. Additionally, the new processes shift the workload within the Bank, e.g. less load on branch employees, shifting it to the Call Center or Back Office. New internal processes may even arise to complement the new digital offering.

Managing the Bank’s organization as a whole is an everlasting challenge, both in terms of adaptation capability and employee know-how. The speed of product releases requires the organization to be adept and alert.

Investing in change is a risk. In Arion Bank’s case the risk-taking has already paid off as the result in numbers show. Subsequently, it is important to maintain a high positive profile on the Digital Future Accelerator internally within the Bank to secure and preserve the commitment to the digital transformation. This commitment is a key factor in the Accelerator’s success. Yet, delivering a product that “only” solves 80-90% of the problem calls for possible internal friction, e.g. if manual labor was created somewhere else in the organization. Still, in a given time period, it is better to have delivered ten products that solve 80% of the problems than two products that solve 99% of them. Managing these expectations remains a challenge.

*APIs will be a deciding factor*

A key component in the success of Arion Bank’s Digital Future Accelerator has been the use of internal and external APIs. Communicating with e.g. tax authorities in order to collect tax returns and obtaining credit ratings from credit scoring companies help the Bank to get a holistic view of a customer’s financial health and add value to the services Arion Bank offers its customers. The importance of data has never been greater. The companies that responsibly and respectfully use data or services through APIs to serve their customers will be in a winning position. Business models of financial institutions are currently challenged. APIs will play a bigger role in the development of not only new services but new business models.

All in all, Arion Bank’s Digital Future is here to stay and has had a wider impact on the Bank’s IT organization and structure than originally anticipated.
Contact information
Haraldur Gudni Eidsson – Head of Communications – haraldur.eidsson@arionbanki.is – Tel: +354 444 7000
Rakel Ottarsdottir – CTO – rakel.ottarsdottir@arionbanki.is – Tel: +354 444 7000

Disclaimer
The content in these white papers is solely for general information purposes, and is provided with the understanding that the authors and publishers are not hereby providing professional advice or services. All views expressed herein are those of the Bank at the time of writing and may be subject to change without notice.

The content in these white papers was posted diligently. However, it is possible that some information in these white papers is incomplete, incorrect, or inapplicable in particular circumstances. Neither the bank nor its employees will accept liability for any losses resulting from using, relying or acting upon information in these white papers.
About Arion Bank

Arion Bank is a leading Icelandic bank offering universal financial services to companies, institutional investors and individuals. These services include corporate and retail banking, investment banking, capital markets services, treasury services, asset management and comprehensive wealth management for private banking clients.

Arion Bank’s balance sheet was more than 1,100 ISK billion (€8.9 billion) in 2017. Arion Bank only has operations in Iceland.

Read more about Arion Bank.

About Iceland

Situated in the North Atlantic Ocean between Europe and the United States, Iceland is a European country with 330,000 inhabitants. The capital and largest city is Reykjavik. Two thirds of the country’s population live in the Greater Reykjavik area. Iceland, as other Nordic countries, ranks high in economic, political and social stability and equality.

Icelandic citizens are early adopters when it comes to technology and technical infrastructure is good where 97% of residential have access to internet.

Iceland ranked number six globally in terms of GDP per capita in 2016 according the International Monetary Fund.

About Iceland on Iceland.is

Further reading

- Arion Bank and Innovation: blog, pdf version
- Customer Onboarding: blog, pdf version
- Credit Card and Overdraft Limits: blog, pdf version