



# Digital Future of Microfinance: A Realistic Path towards Big Dreams

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June 6<sup>th</sup>, 2023



# Agenda

## Part I

**9:00**

Welcome and introductions  
(Isabelle Barrès)

**9:10**

Opening remarks (Xavier Faz)

**9:20**

CGAP MFI Digitization project:  
What did we learn? What did we  
do? (Ivo Jeník, Mark Flaming)

**10:05 – 10:30**

Q & A and closing (Isabelle Barrès  
and Ivo Jeník)

## Part II

**10:30**

Welcome and introductions (Isabelle Barrès)

**10:40**

Voices from pilots:

- Thomas Carrié, Peter Okordion
- Khin Moet Moet (Kay) Nyein, Imran Ahmed

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Q & A (Isabelle Barrès)

**11:15 – 12:00**

- Breakout session 1: Credit renewal automation
- Breakout session 2: Business Intelligence





# PART I

# Speakers



**Xavier Faz**

Lead Financial Sector  
Specialist



**Ivo Jeník**

Senior Financial Sector  
Specialist



**Mark Flaming**

Technical Lead



**Isabelle Barrès**

Community of Practice  
Lead (Moderator)



# Opening Remarks



# CGAP Digitization Project



# Among MFIs, digitalization has proven potential to create value for customers and for the business



**Amret** (Cambodia) Business strategy transformed a group-loan MFI into a full-service financial institution with 500,000 customers and US\$1.4 billion assets.



**Bancamía** (Colombia) improved efficiency by digitizing workflows, creating a mini-branch model and a mobility strategy, digitalizing credit officer operations, and customer interactions through app.

MICROFUND FOR WOMEN  
Empowering Every Ambitious Woman



**MFW** (Jordan) digitized the loan application process and integrated with popular payments solutions (36% of customers receive loans to their e-wallets).



**AL-KURAIMI ISLAMIC MICROFINANCE BANK** (Yemen) adopted omnichannel strategy to achieve greater scale and to operate in a difficult environment.



**FINCA** group developed behavioral score based on customer repayment history to automate credit decisioning.

- **27% increase** in loan officers' productivity (*Bancamía mobile app*)
- **50% decrease** in loan processing time (*Bancamía mobile app*)
- **176% annual increase** in use of digital channels by women (*Bancamía*)
- **227% annual increase** in transactions made by women (*Bancamía*)
- **30-50% of renewals** streamlined (*FINCA Impact Finance score*)
- **US\$22 million in savings** mobilized (*Amret mobile savings officers*)
- **45% of transactions** performed through alternative channels (*Al Kuraimi Islamic Microfinance Bank*)



# Five principles of successful digital product development

**MFIs who can show value for their investments in digitization follow in general these principles:**

- ➔ 1. Resource and empower the product development team
- ➔ 2. Define and measure the value you aspire to create
- ➔ 3. Prioritize product features that create value
- ➔ 4. Test prototypes with simple technology
- ➔ 5. Create a good user experience for everyone

# What CGAP was testing

## How to implement value-based approach?

First cohort: Digitizing credit renewals

- 5 MFIs already with digital customer relationships
- High TA provided by CGAP

## Can MFIs digitalize on their own, following guide?

2nd cohort: Implementing Business Intelligence Dashboards

- 23 MFIs without previous digitization
- Document-based Guidance
- Low-touch TA provided by CGAP





# The Product Roadmap for implementation of the 5 principles



Tony Karumba, 2020 C4D



# Project Set up



**Resource and empower the product development team**



# Hypothesis



**Define and measure the value you aspire to create:**

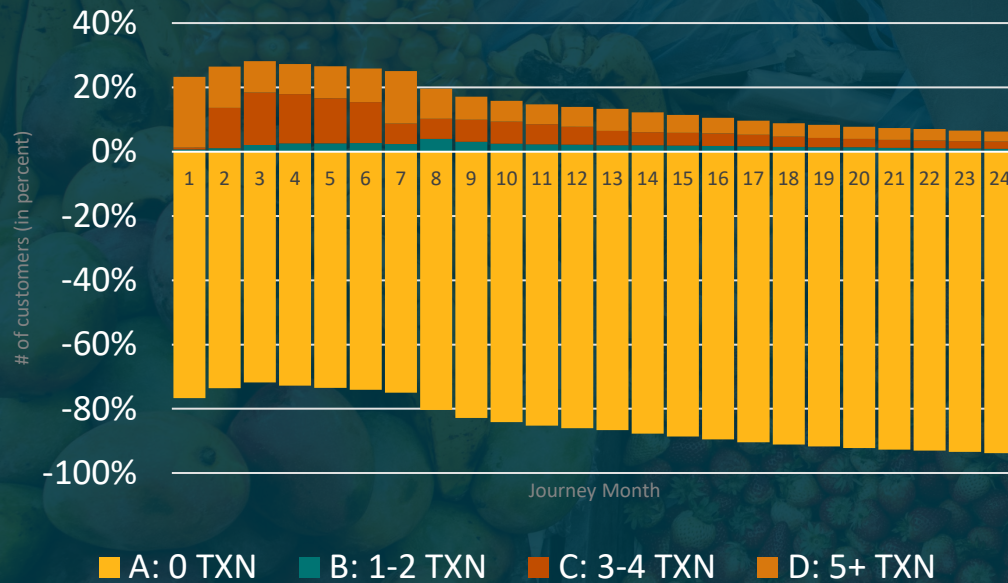
- How will customer behavior change when you are creating customer value?
- How will you create business value?



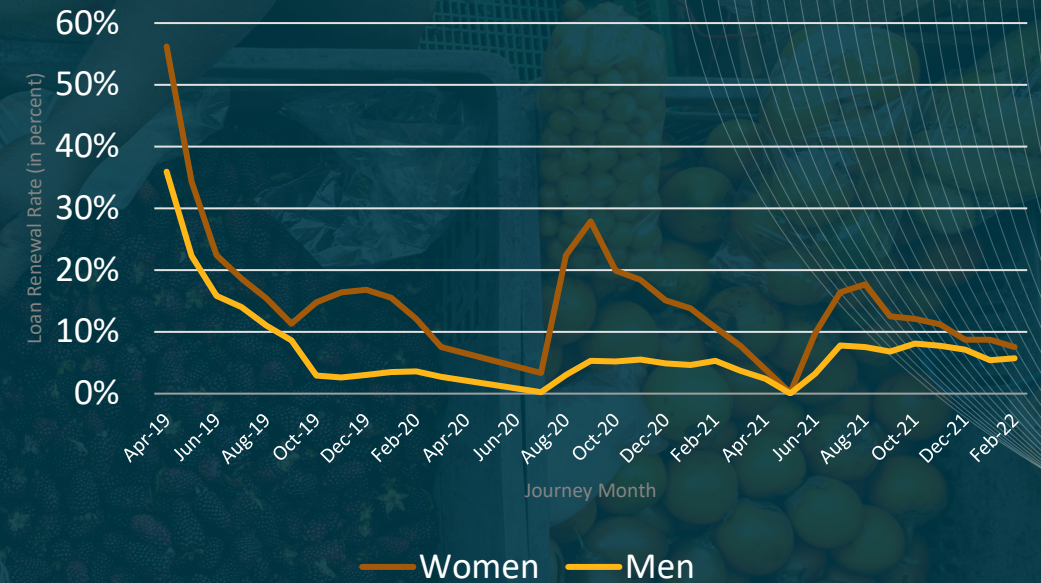
# Business Intelligence Build-Out



Transaction behavior by Journey Month



Loan Renewal Rate





# Business Intelligence Build-Out



	Traditional	Automation	Automation + first loan growth	Automation + follow up loan growth
<b>Monthly loan disbursements/LO</b>				
First loans	5	5	8.2	5
Follow loans	10	5	5	5
Automated follow up loans	0	5	5	25
<b>TOTAL</b>	15	15	18.2	35
<b>% of FTE used</b>	86%	64%	86%	86%
<b>% automation of follow up loans</b>		50%	50%	83%
<b>loan disbursement growth</b>		0%	21%	133%
<b>Steady State Results</b>				
Outstanding loans	165	165	193.8	405
Outstanding portfolio	\$247,500	\$247,500	\$279,180	\$643,500
Portfolio growth		0%	13%	160%
<b>LO Expense/Income Ration (EIR)</b>	20%	20%	18%	8%



# Product Design



- **Prioritize product features that create value**
- **Create a good user experience for everyone**



# MVP Build-Out



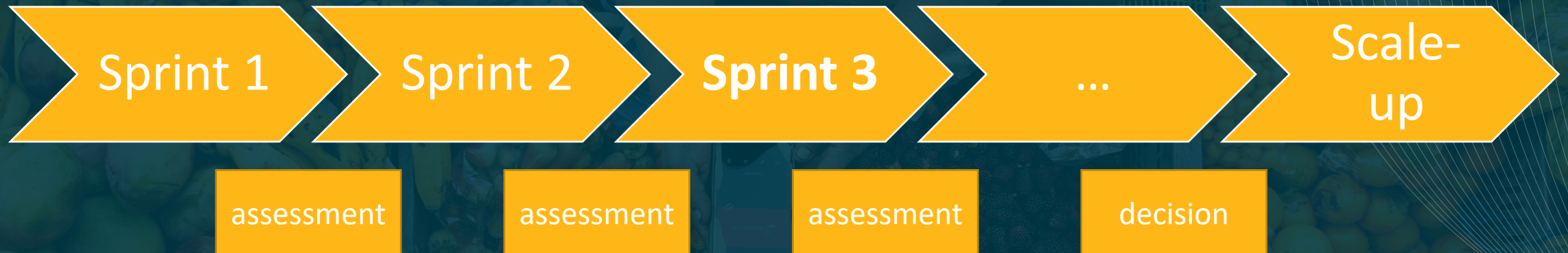
**Test prototypes with simple technology:**

- MVP with a SaaS solution
- 12-month proof of concept timeframe



# Sprint 1

- Definition of Done + KPIs
- Results collected and evaluated
- Decision about next steps



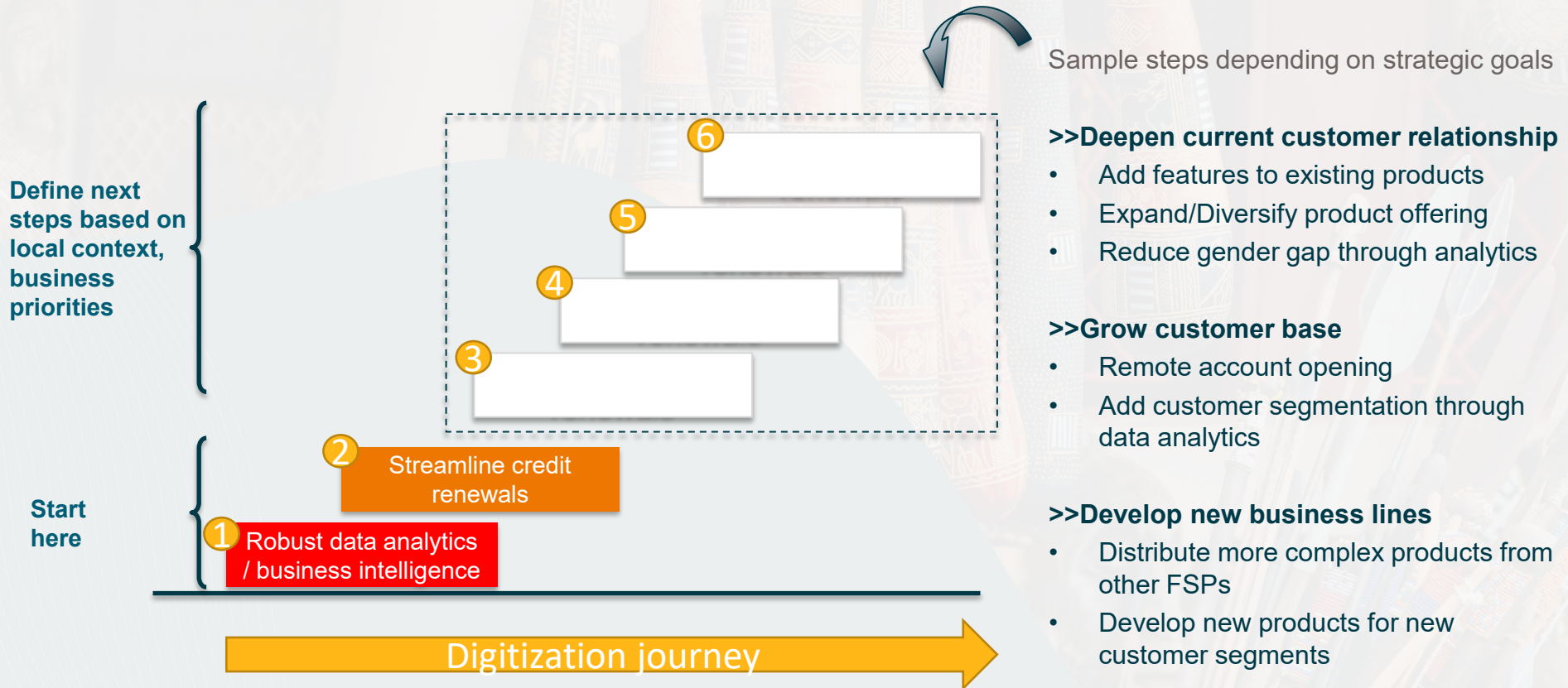
*(This is an agile, iterative process where Sprint 1 is followed by other sprints testing other MVP aspects before the final decision about scale-up is made.)*



**Q & A**

# Closing Part I

# Building blocks of value-driven digitization





# Longer-Term Strategic Choices

***Incremental digitization of the existing operation:*** Continued improvements (e.g., expanding the dashboard library, introducing dynamic pricing) and expanding digitization

***Shift to a new business model:*** Focus exclusively on a certain segment of customers (e.g., embedded finance focused on customers with strong digital data trails)

***Exploration of new partnerships in modularized financial markets:*** Using the newly acquired digital capabilities to form new partnerships (e.g., with finetchs, e-commerce platforms)





# A vision for the future of microfinance

Microfinance is part of a **competitive market** that comprises a **range of providers**, from **digitized incumbents** to **scaled innovators**, responsibly addressing the needs of **all underserved segments** with efficient and effective offerings.

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[www.cgap.org/microfinance](http://www.cgap.org/microfinance)





# PART II

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- Breakout session 2: Business Intelligence



# Speakers



**Thomas Carrié**  
Co-Founder, Rubyx



**Peter Okordion**  
Head of Project  
Management Office,  
AMFB Nigeria



**Khin Moet  
Moet (Kay) Nyein**  
Data Analyst, CGAP



**Imran Ahmed**  
Deputy Executive Director,  
Shakti Foundation for  
Disadvantaged Women



# CGAP Credit Automation Project: Data analysis, scoring and automated renewal

June 2023



# We build and grow loan portfolios

How we provide our partners' customers with fast and fair access to working capital



## 1. Score customers

We collect customer data from our partners and run our behavioural analysis based scoring algorithms.



## 2. Offer loans

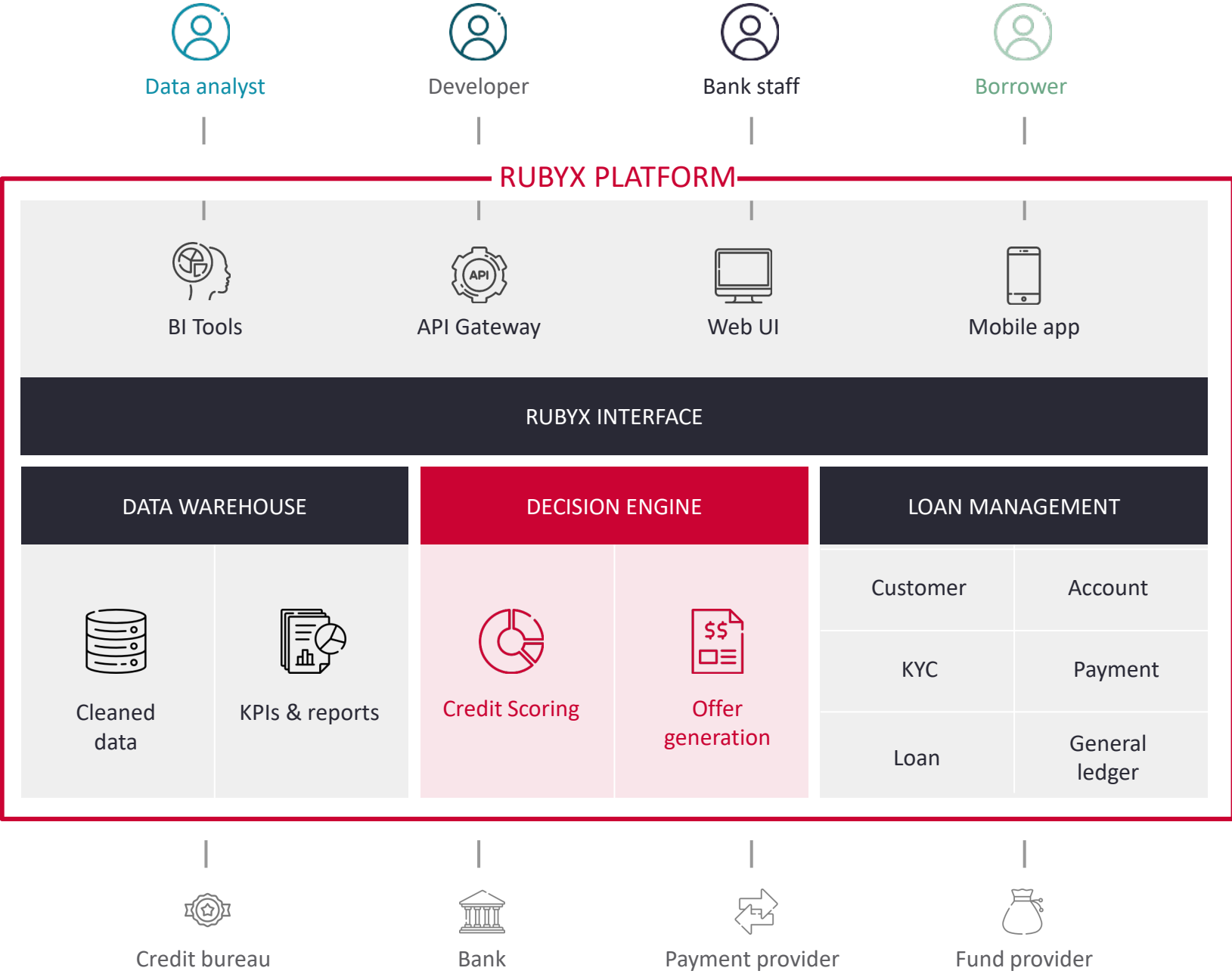
Our partners receive a list of prequalified customers and a recommended loan renewal amount and conditions to offer to their customers.



## 3. Optimise strategy

We help our partners run a profitable lending business through continuous monitoring and control of scoring strategies.

# Platform overview



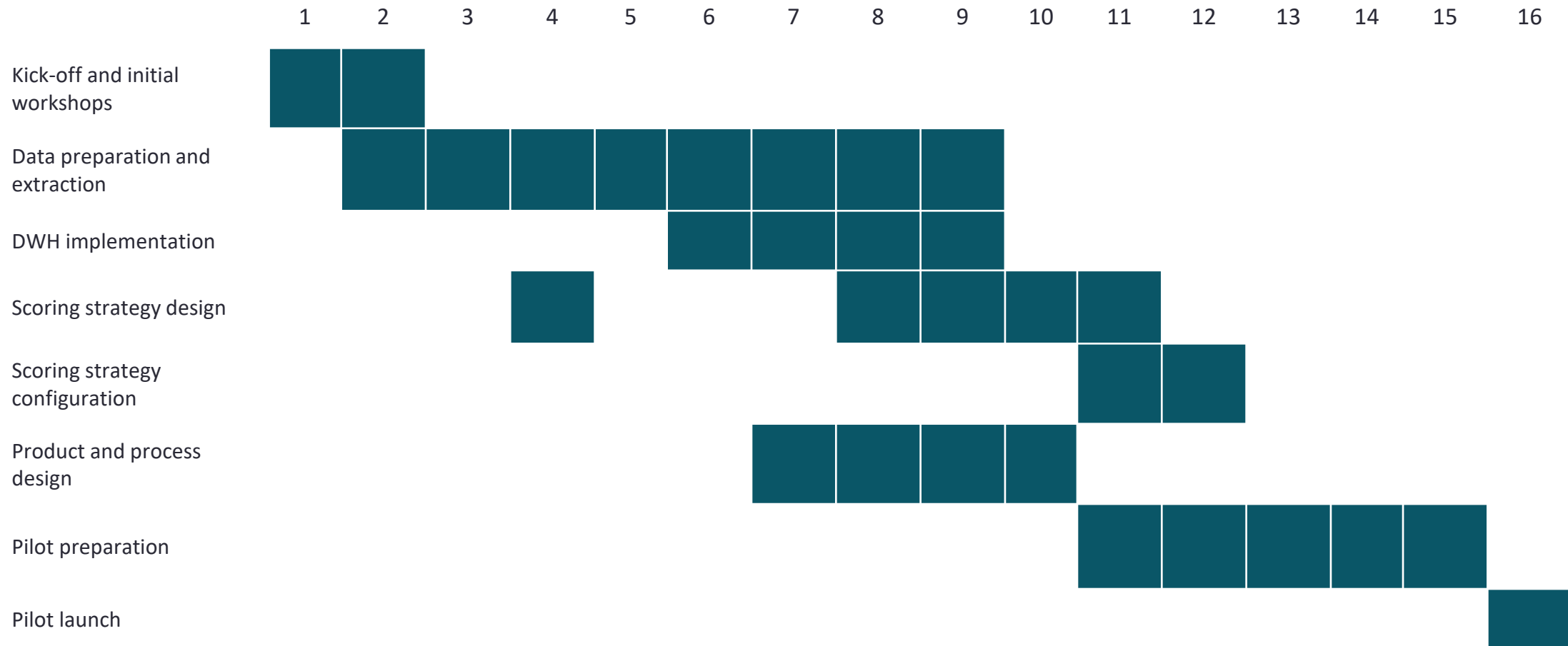


# Our proposition

**Score** all customers **daily** and provide **loan renewal offers** to be disbursed **without analysis** to the **best customers**.

- › Anticipate renewals and improve retention of the best customers by proactively offering them renewal opportunities.
- › Accelerate decision-making for loan renewal of customers who prove their capacity and willingness to repay their loan
- › Remove tasks with low added value in the renewal process of the best customers, liberating time for loan officers to improve their productivity
- › Encourage good repayment behavior by increasing customer satisfaction and loyalty through an innovative customer experience.

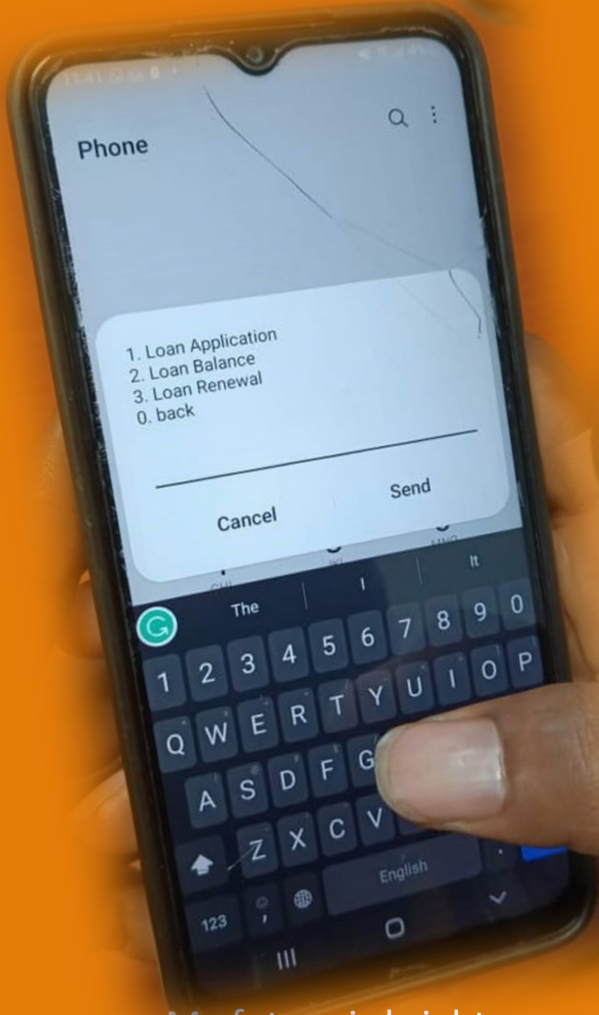
# Implementation planning





# Credit renewal automation pilot

Accion MfB's Summary Report



My future is bright



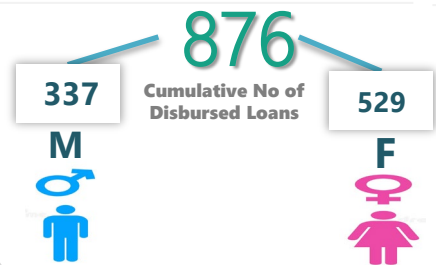
# Executive Summary

## Brief Background

- The CGAP Digitization Project kicked off January 2022.
- The Auto-Renewal Loans Pilot commenced August 5, 2022. Was planned to run for 6 months but extended to March 31
- The auto-renewal loans initiative is currently being piloted **Bankwide** but with only **My Own Loan** only (Working Capital Product).
- The auto-renewal loan is accessed via the **572 USSD**
- Minimum loan amount of **N50k** and maximum of **N2m**

Auto-Renewal Loans Pilot Performance between Aug 2022 – May 11, 2023

### Total No of Loans Disbursed



### Sum Disbursed Value

N682.9m



### Avg. TAT to Process E2E

3Hrs



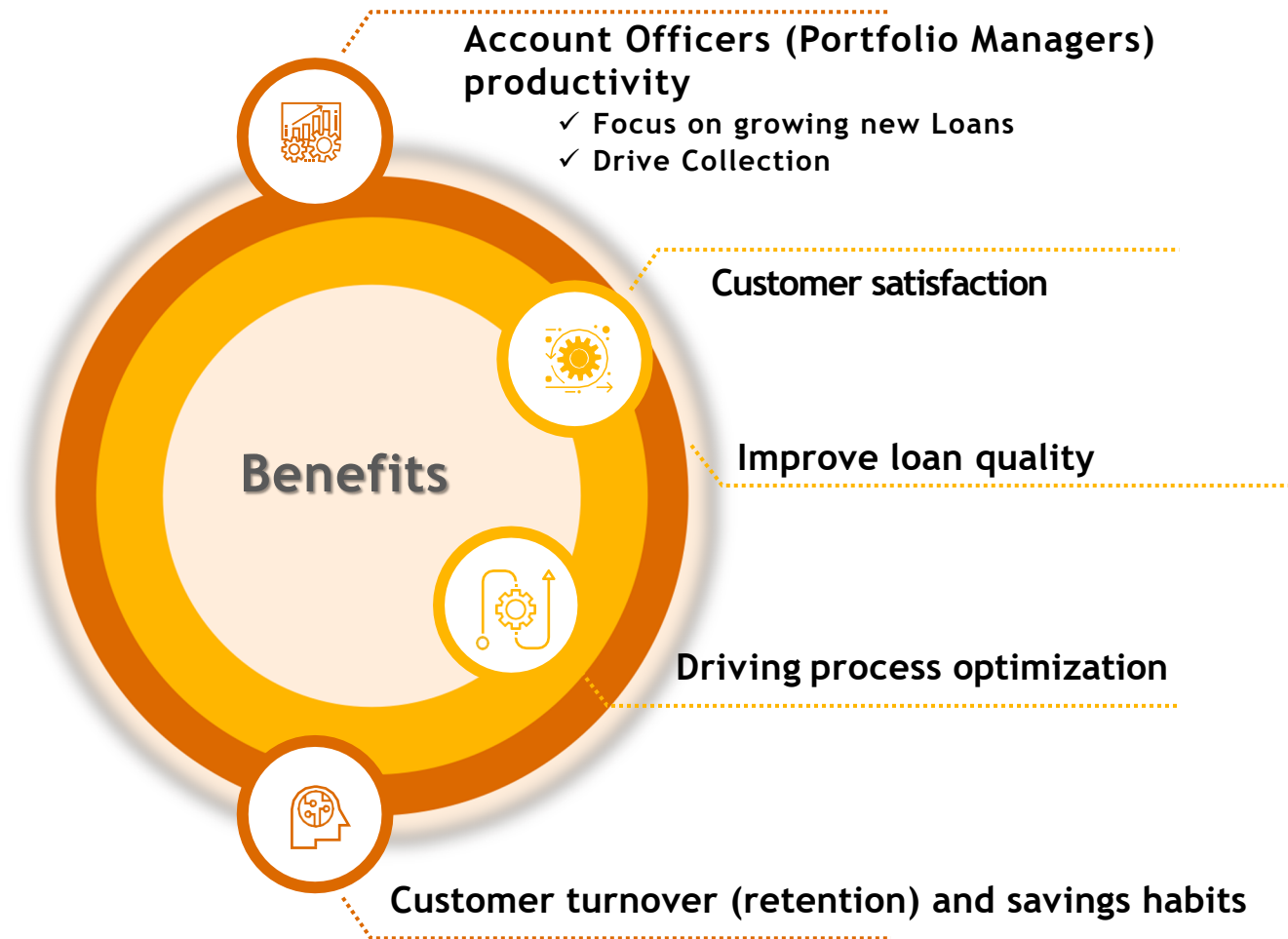
## Benefits/Objective of the Initiative

- **Process Improvement:** The initiative has improved loan process. TAT for processing loans disbursed reduced from **2 days (48Hrs)** to **3hrs**.
- Quality of Loans disbursed via the auto-renewal has improved.

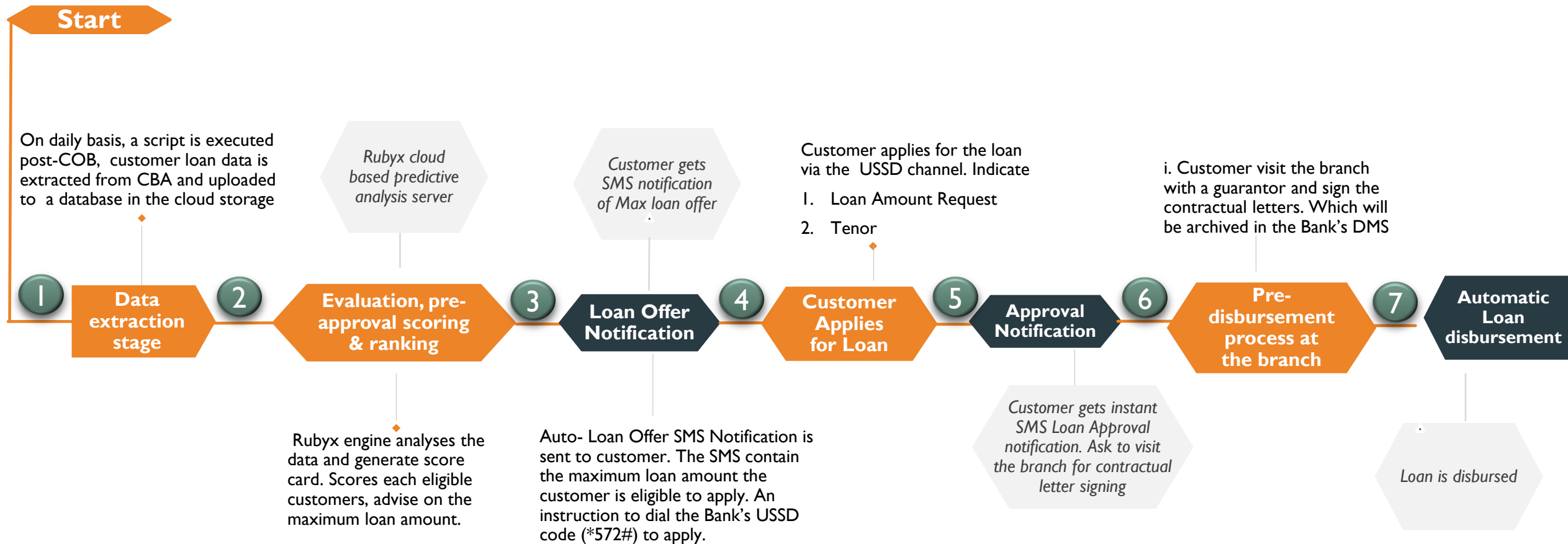




# Expected Benefits from the Initiative after full rollout



# HIGH-LEVEL WORKFLOW OF THE REPEAT LOANS AUTOMATION PROCESS





# Next Steps

01

- **Review the impact for improved Business decision and customer experience**

02

- **Full Launch:** Roll out the Auto-Renewal loans initiative to more identified Loan products (we currently piloted only one (1) production; My Own Loan.)

03

- **Drive adoption and grow the numbers** – Review KPIs of Portfolio Managers to put more emphasis on new loan

04

- **Explore more value proposition to derive from the Rubyx platform**

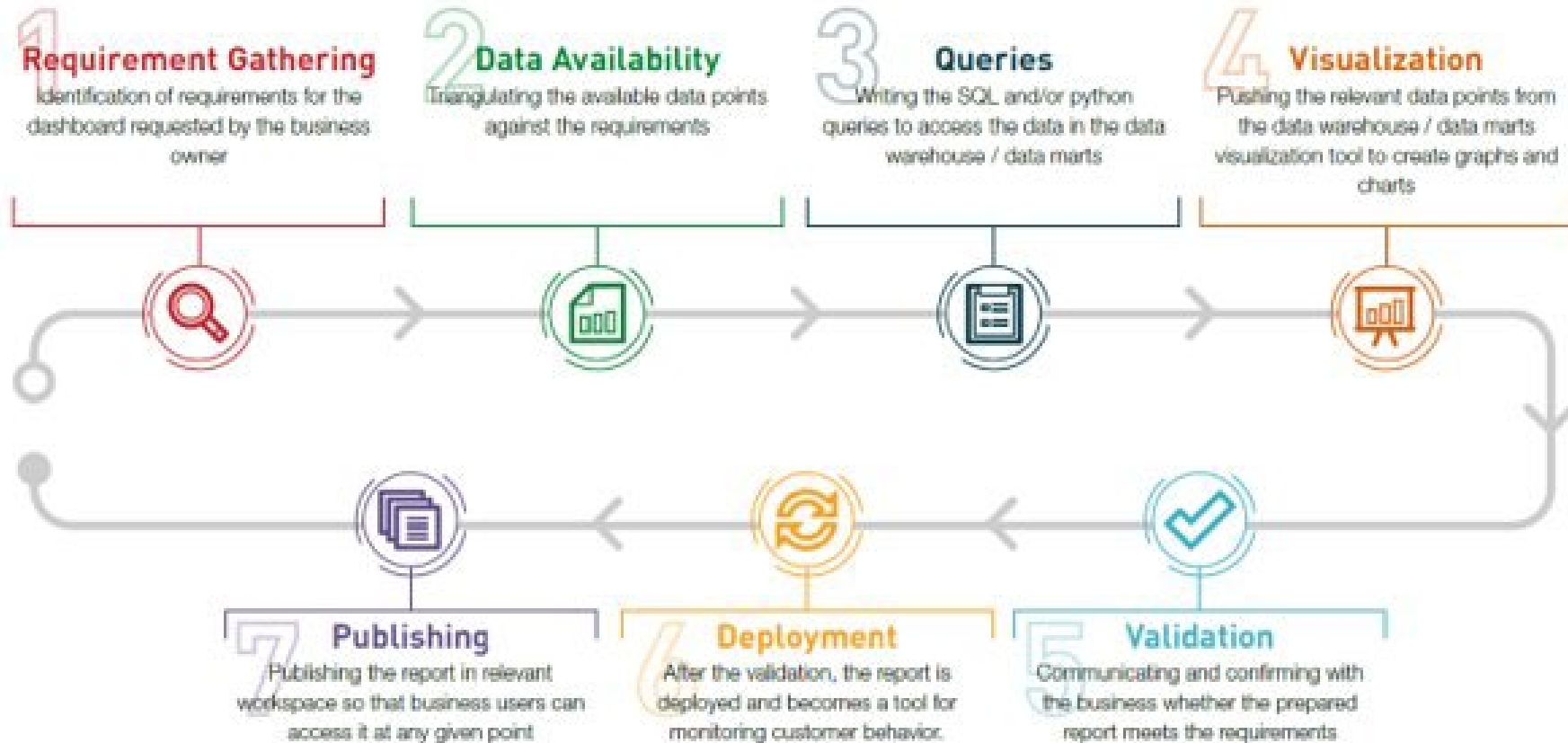


# THANK YOU





# Data Analytics Journey



# Data Bootcamp Sequence

	Session 1: Segmentation	Session 2: Query	Session 3: Visualization	Session 4: Communication and publishing
Covered in the session	Walk through the dashboards. Define who's digital and who's traditional customers in terms of the data points available.	Use the segmentation logic produced in session 1, walk-through query preparation for 5 dashboards.	Preparing visualizations using charts and graphs.	Preparing to get feedback on dashboards from the business teams and senior management.
Expected output	1/ Produce the definition of digital and traditional customers 2/ Prepare query that separates digital vs traditional customers 3/ Put output in temporary table / excel extract.	Produce output table for each dashboard will be produced (refer to "sample output table" in Annex)	Produce final draft dashboards	1/ Get confirmation from key stakeholders that visualization is directionally accurate 2/ Finalize dashboards



# **Shakti Foundation for Disadvantaged Women, Bangladesh**

**Imran Ahmed**

Q & A



# Instructions for breakout sessions

We invite you to join a Breakout Session...

- For **Breakout Session 1: Credit Renewal Automation**, stay in this room
- For **Breakout Session 2: Business Intelligence**, click on the link in the Chat <https://bit.ly/Busint606>

# Breakout Session 1:

## Credit Renewal Automation



# CGAP Members



BILL & MELINDA  
GATES foundation



UDENRIGSMINISTERIET  
MINISTRY OF FOREIGN AFFAIRS OF DENMARK



Global Affairs  
Canada





# Thank you

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To learn more, please visit [cgap.org/microfinance](https://cgap.org/microfinance)

Connect with us on these social channels:

