

Analytics-driven distinction : Future adaptive

ANALYST DAY 2023

November 23, 2023




Analytics continue to contribute significantly to Bank's GPS agenda ...



Personal loans via database programs

Disbursal value

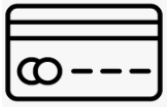


x	1.3x	1.8x
FY22	FY23	FY24

64% of the business via analytical database programs

Cards portfolio exposure via database programs

Portfolio exposure




x	1.8x	3.5x
FY22	FY23	FY24

100% of the business via analytical database programs

Individual TDs via database programs

Term deposits booked




NA	x	1.6x
FY22	FY23	FY24

16% of the TD booked via personalization framework

CBG business via data driven market mapping

% business contribution

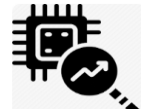


NA	x	1.7x
FY22	FY23	FY24

15% of the business via analytical database programs

Lending via in-house scorecards

applications scored




x	2.3x	2.8x
FY22	FY23	FY24

84% applications scored via proprietary scorecards

Fraud prevention via robust alerts framework

Fraud prevention



x	1.6x	2x
FY22	FY23	FY24

65% fraud captured via analytical rules

... keeping sharp focus on 3 key distinctive initiatives helping Bank get future ready



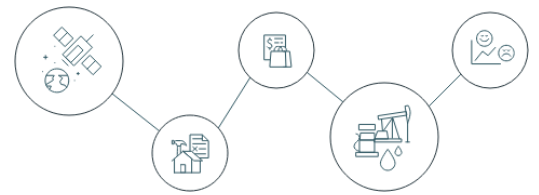
Personalization



Combination of Data Science + Behavioral Science + Technology

Build best in-class personalization engine which caters to all customers with personalized offers at a segment of 1

Partnership and digital public infra led lending growth



Lending decisions backed by alternate data and curated database programs

Leverage alternate data and bespoke credit risk scorecards to assess one's creditworthiness

Modern data and tech infrastructure



Strong data and tech foundation for engineering excellence

Deliver and keep up with the growing data demands via modern tool stack and "data as a product" principles

What does it take to build a best-in-class personalization framework?

6 foundational elements



Customer Data

Granular understanding of the customer

Utilizing customer data which ranges from demographic info, transaction history, browsing behavior to preferences



Nudge library

Enriched nudge library providing one-stop view for all base actions

Serves as a reservoir of communications which can range from cross-sell, engagement nudges to service/regulatory



Prioritization

Optimizing channels and products with AI precision

Advanced ML models act as the brain to understand the right channel & the right product for a customer



Mar-tech orchestration

Seamless multi-channel integration for batch and real-time connectivity

Invest in mar-tech capabilities as it allows an omni-channel experience for the customer with flexibility of real-time alerts



Control tower

Harnessing customer feedback for continuous improvement

Customer responses act as invaluable insights which can fuel or communication strategies & manage customer expectations



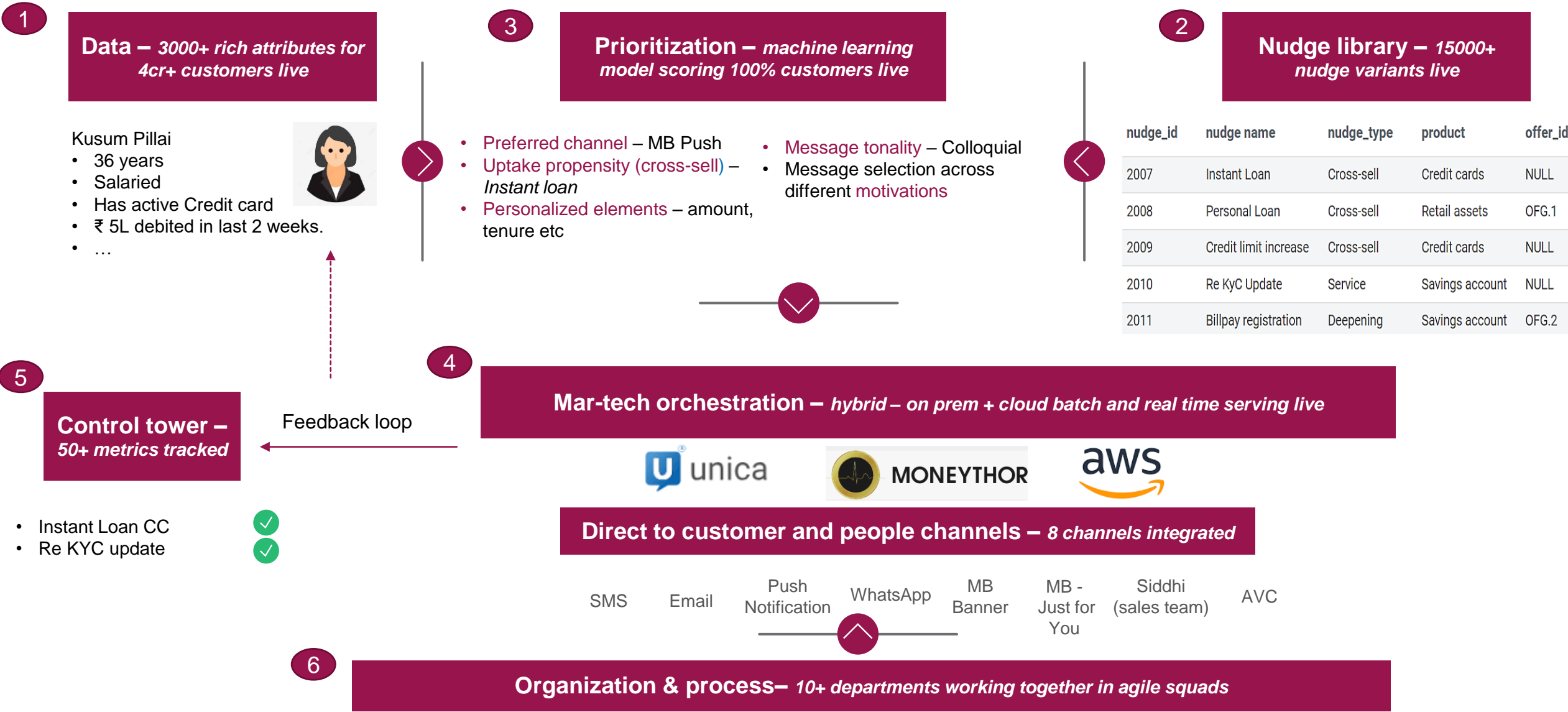
Agile squads

Collaboration for customer-centric excellence

At the heart of the framework is a cross-functional squad that works towards the common business goal



Personalization engine live since last 18 months and is being scaled up every day



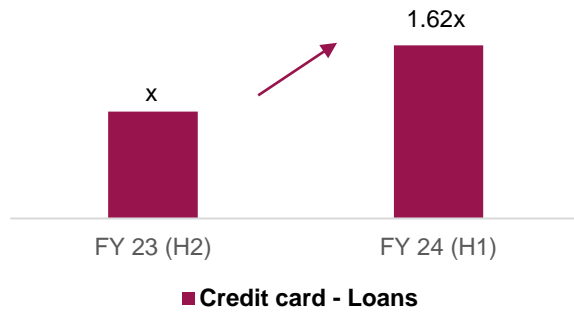


Personalization is helping get significant lifts across all businesses

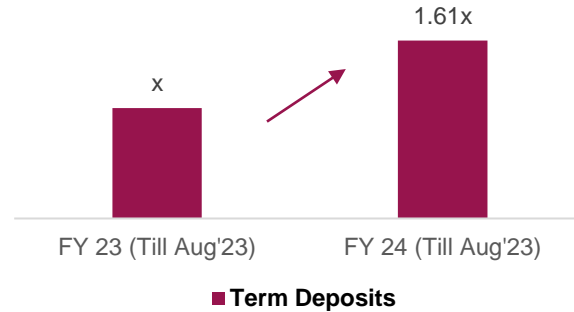
Scaled to all retail businesses with coverage to all product lifecycles ...

Cross sell

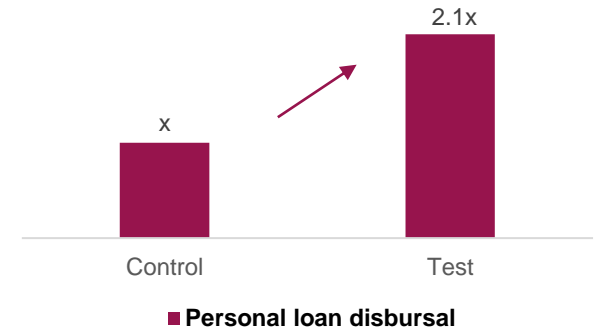
62% increase in Insta Loan booked via nudges



61% increase in Term Deposits business booked via nudges

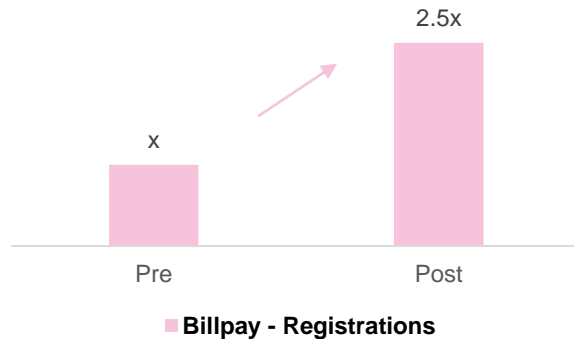


2.1x lift in PL campaign efficacy



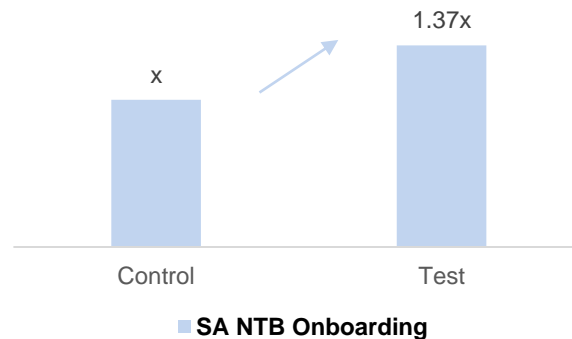
Deepening

2.5x relative lift in campaign efficacy



Engagement

37% increase in average debit txn. per customer



Service

10% increase in digital adoption post E-statement nudge

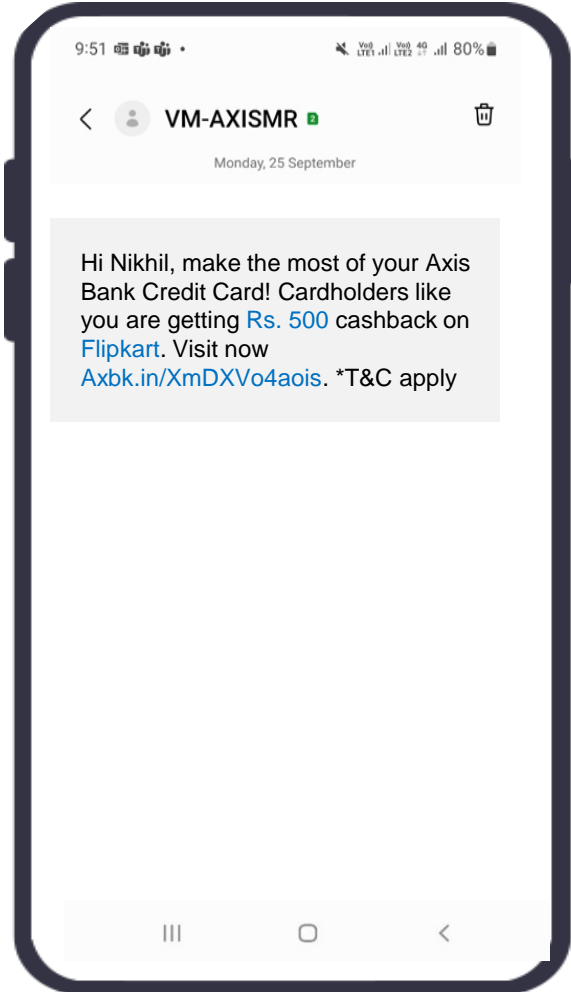




Personalization now integrated with critical channels fostering an omni-channel experience – *direct to customer push*

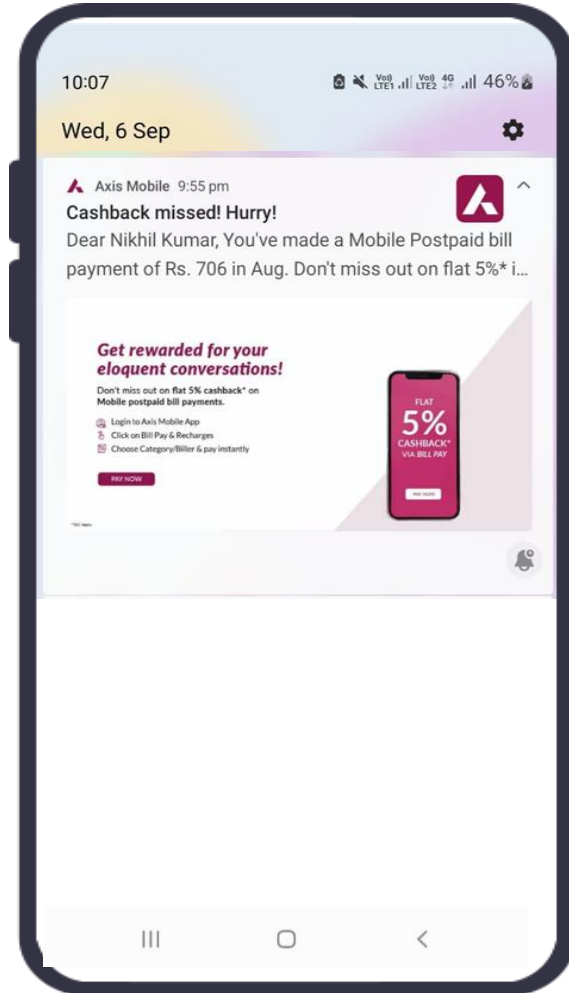
SMS

Engagement via offers on credit-card spends



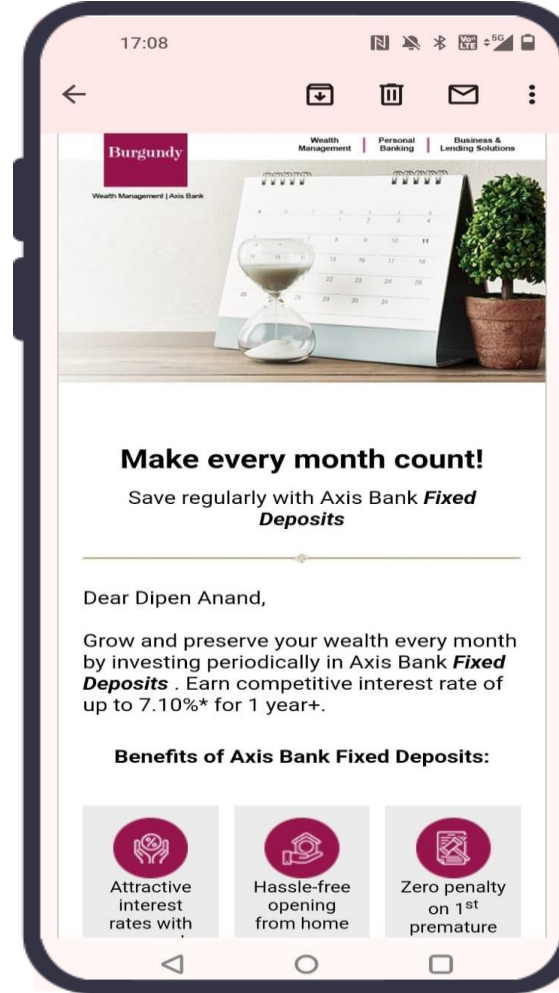
MB Push

Deepening via Bill pay service benefits



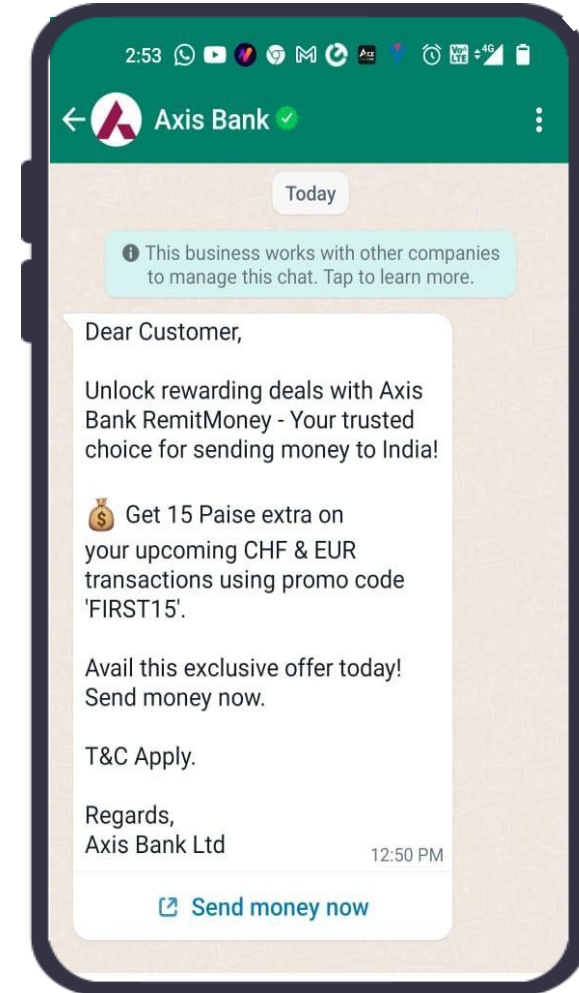
Email

Cross-sell Fixed deposits to customers



WhatsApp

Ask NRI customers to utilize Remit Money

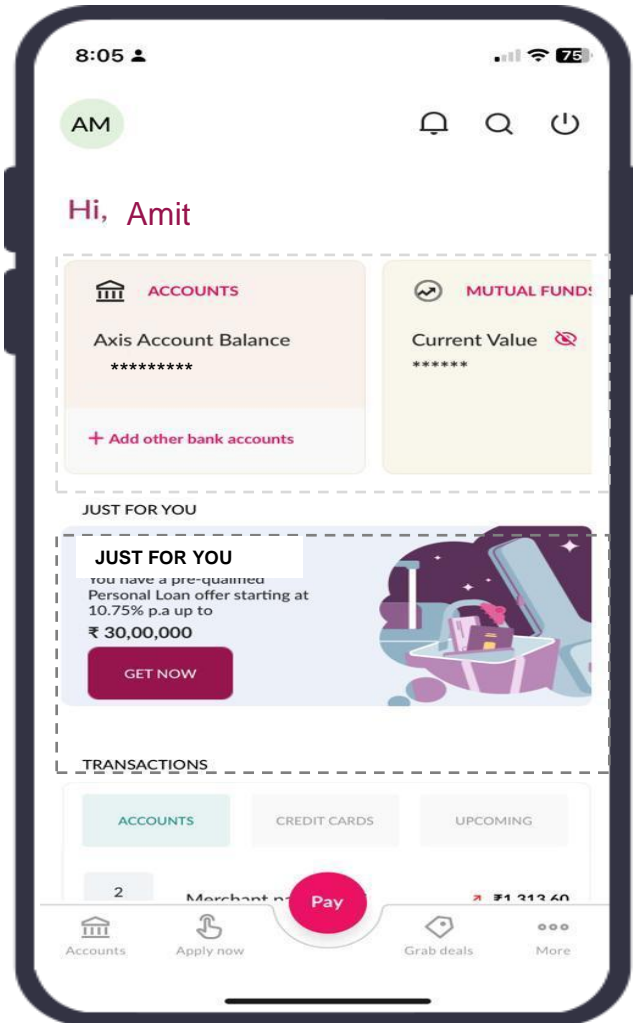


Personalization now integrated with critical channels fostering an omni-channel experience – *in App*



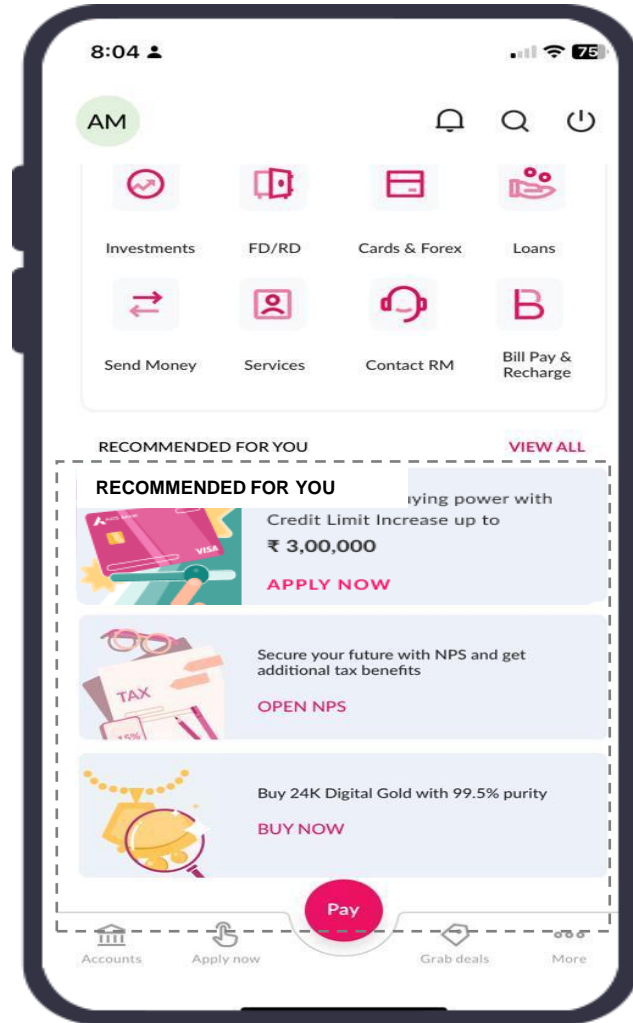
Just for you

Cross-sell Personal loan based on priority



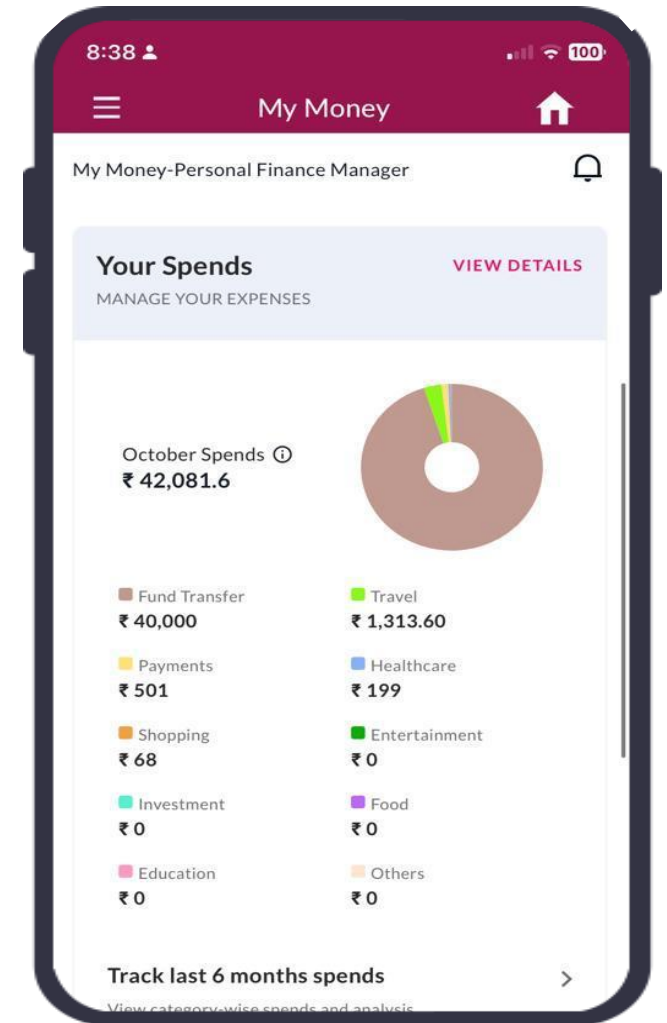
Recommended for you

List of recommendations available with the customer



Personal finance manager

One-stop view exhibiting customer's personal finance





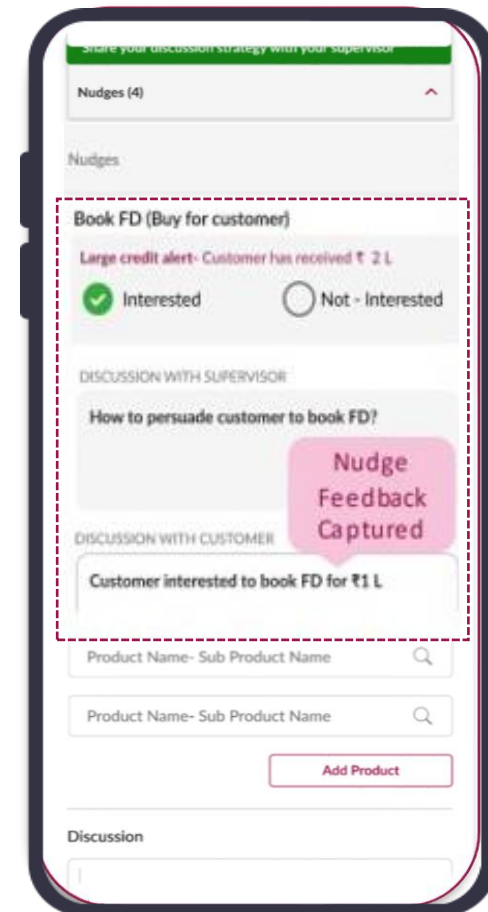
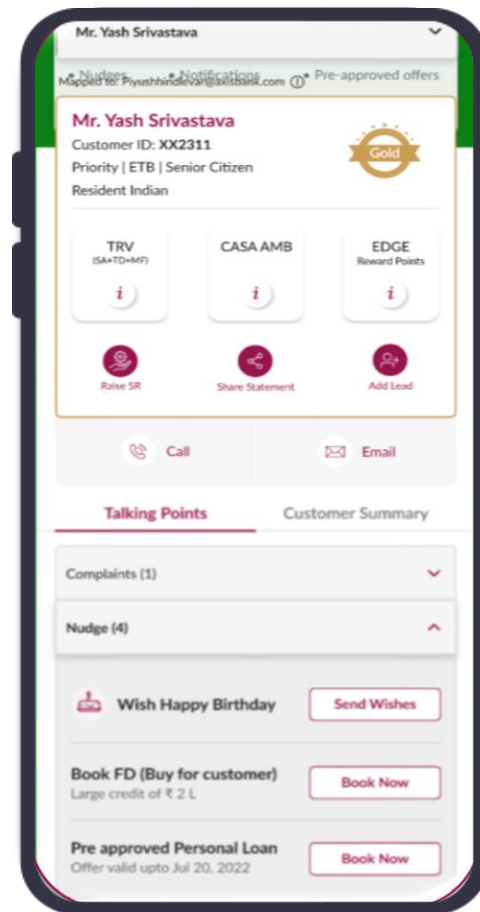
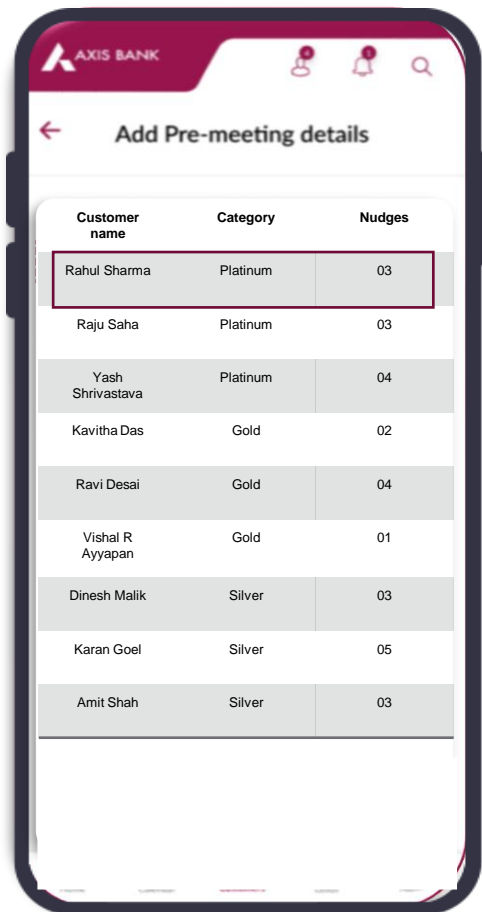
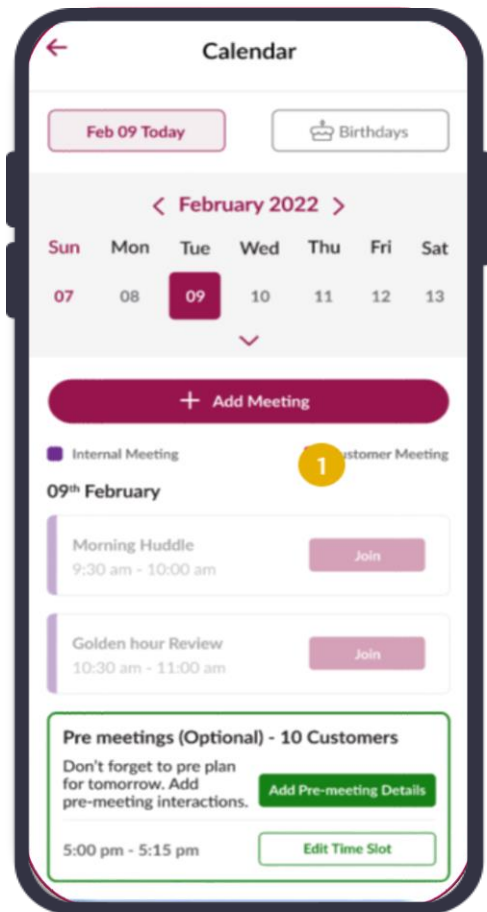
Personalization now integrated with critical channels fostering an omni-channel experience – *relationship manager via Siddhi app*

Empowering RMs to become smart customer advisor

Customers mapped to RMs before the interaction

Nudges available to the customer

Feedback captured

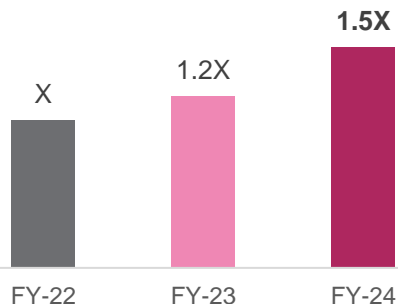


2.5X growth in ETB + KTB cross-sell offers, leveraging analytical toolkits like personalization, risk-based pricing & digital journeys

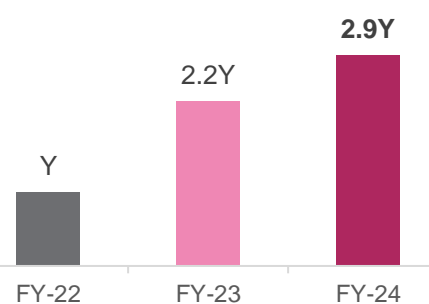
Enablers towards cross-sell growth

- ✓ ML based risk scorecards coverage improved by 15% ▲
- ✓ Income estimation model coverage improved by 28% ▲
- ✓ Enhanced cross-sell framework based on risk, pricing and tenor
- ✓ New products launched and journeys enablement

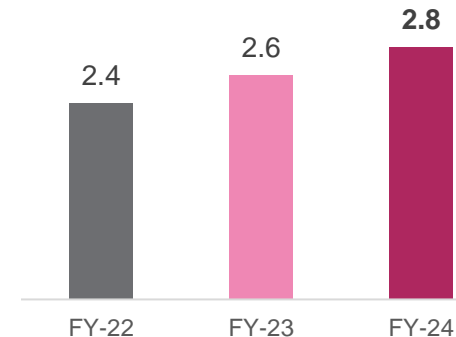
ETB customers qualified for cross-sell programs



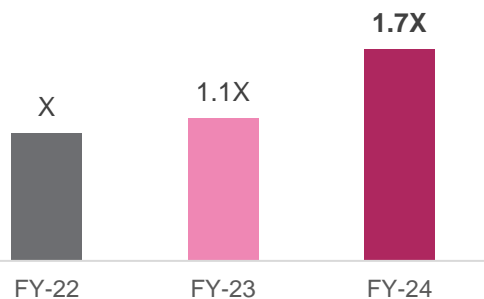
KTB customers qualified for cross-sell programs



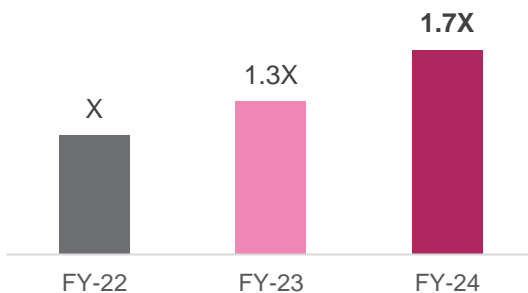
Average #Offers per customer **



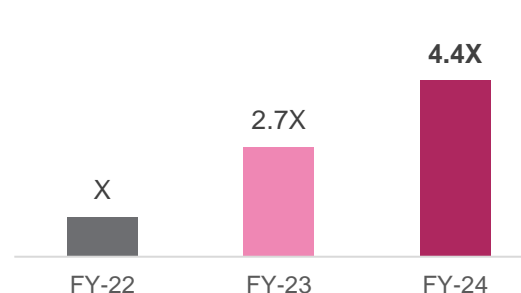
YoY growth in Retail Lending disbursements (Cr.)



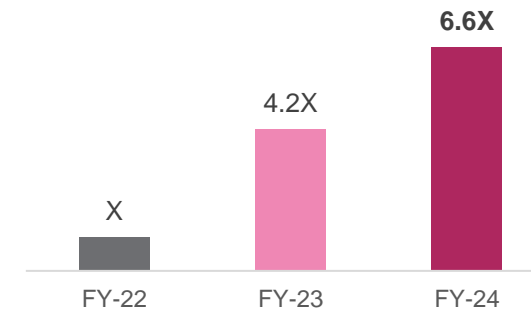
YoY growth in Credit Card acquisitions (Lac)



YoY growth in incremental Card Limits (Cr.)



YoY growth in Gold Loan disbursements (Cr.)



*H1YTD

** ETB offers per customer

Leveraging alternate data via digital public infra, partnerships and enhanced internal capabilities to fuel lending growth

Digital public infra



AA Bank Statement : ITR

Leveraging as orthogonal information in various lending processes



UPI / Bill Payment

Developed model leveraging UPI data to monetize 10cr + KTB customers



GST

Leveraging GST information in various lending decisions

Partnership Data



Partnerships

Continued focus on newer partnership to increase KTB footprints every fiscal



Satellite Farmland

Used in rural credit-underwriting journeys



Telecom

Live in Free Charge BNPL Journey

Internal Capability



Location intelligence

Supporting best in class income estimation models using geo location data



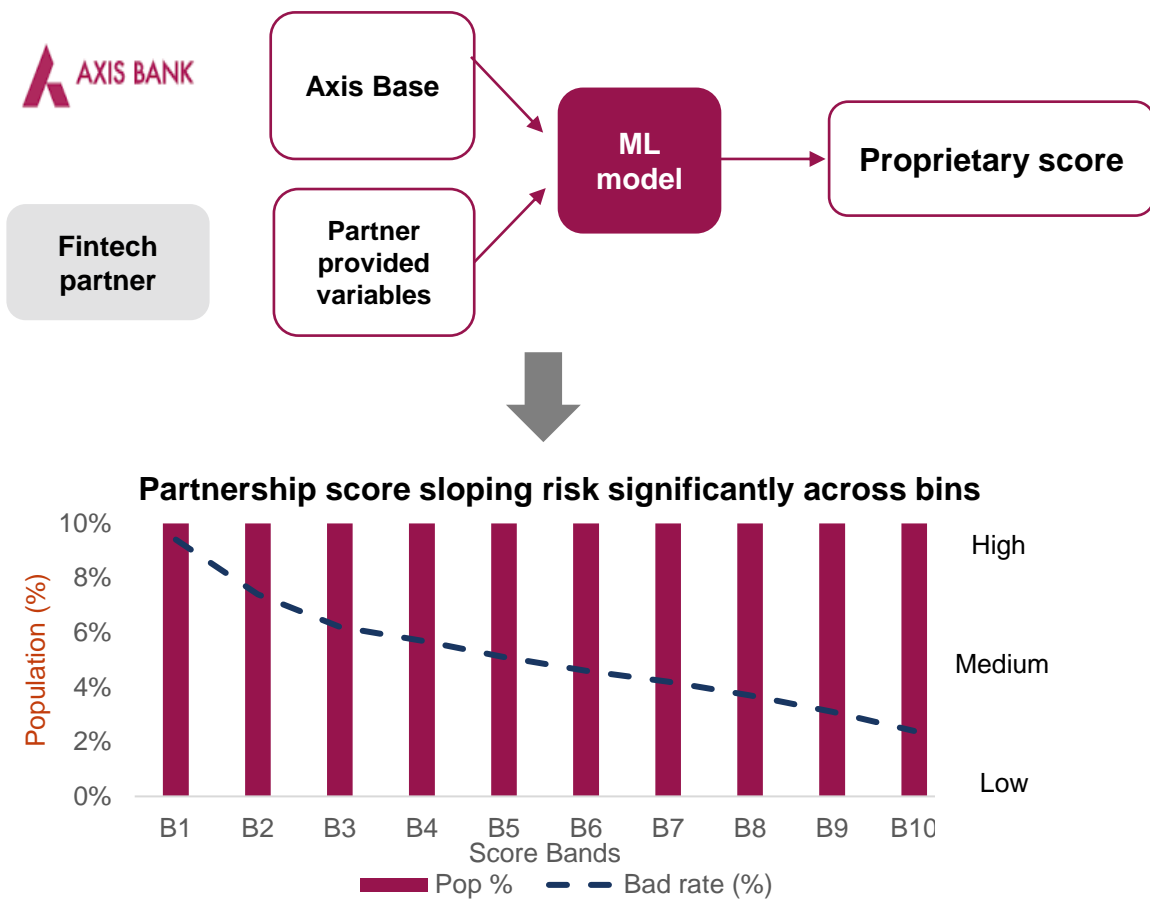
Company data asset

Leveraging MCA data for risk categorization



Building proprietary capabilities using combination of alternate data and modern data stack to drive business outcome

Example 1 - Recent partnership score to help source incremental cards & PL significantly



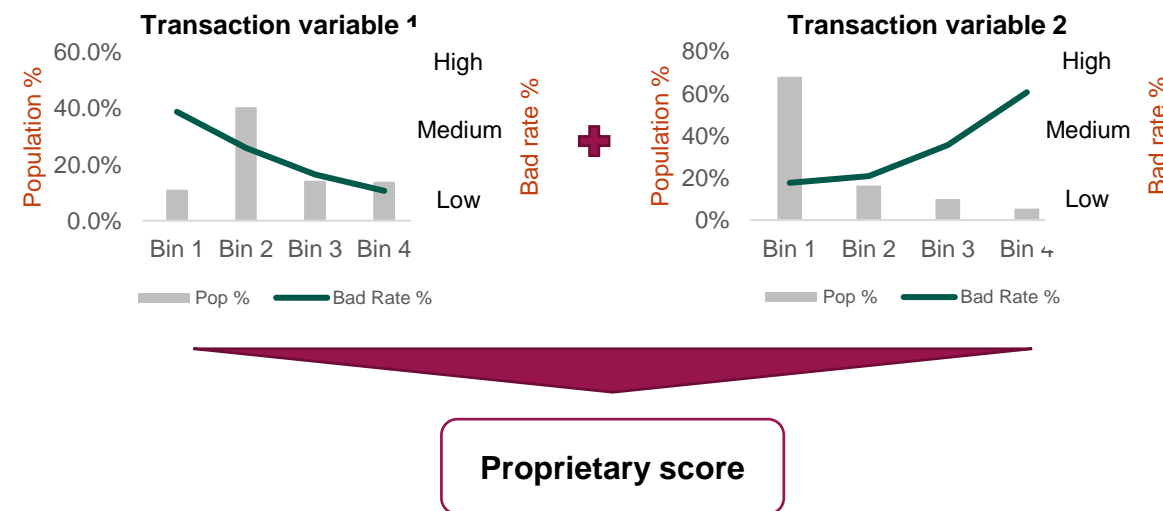
Model deployed in partner's ecosystem to run in a batch mode

Example 2 - Incremental sourcing in PL expected via account aggregator info

Developed & deploy in-house risk scorecard using account aggregator data, which includes features like –

Transaction history	Salary statement	Account details
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Multiple transaction features splitting risk



Seam-less digital journey build to leverage account-aggregator in real-time for credit decisioning

What defines the modern data stack – *key components and capabilities*

1



Data ingestion batch & real-time

Extraction and loading of raw data from core systems / applications to a central data lake

2



Data quality and discovery

Framework to clean the data, profile and organize the data for better discovery

3



Data engineering workloads

Ability to transform and model the data for target processes / applications to consume

4



Data as a service *Self-service BI*

Serving insights and business metrics via BI tools and APIs

5



Models and decision as a service

Business, policy logics and model decisions served for scalable decision management



We have built modern data stack enabling 1000+ use cases go-live and continue to invest in enhancing the same

1

Data ingestion- batch & real-time

30 Cr +

records ingested daily

200+

real-time events



2

Data quality and discovery

40+

products covered

5000 +

DQ rules configured



3

Data engineering workloads

6000 +

ETL & data science jobs

100 TB+

curated data marts



4

Data as a service

3800 +

self service BI

15000 +

nudge variants served



5

Models and decision as a service

6 L +

API hits per day

5000 +

business rules live



We continue to benchmark ourselves with a view to become best in class globally; good progress for personalization and alternate data initiatives

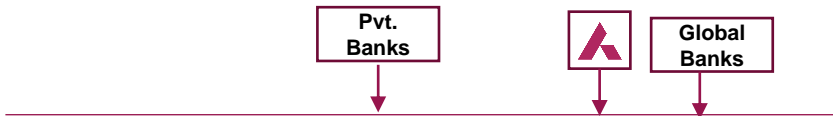


How are we doing as compared to our peers?

How have we done wrt last year?

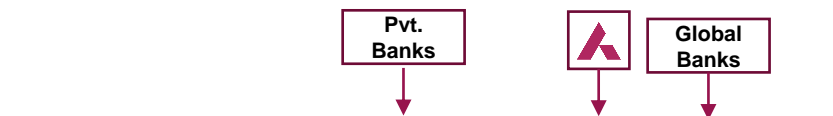


Personalization



Metrics	FY23	FY24 (YTD)
# nudge variants	10,000	15,000+
# customer rich attributes	2,500	3,000+
# channels integrated	6	8

Alternate data and database programs



# Scorecards live	30+	35+
Offers per customer*	2.6	2.8
Disbursals via DB programs*	X	1.5 X

Modern data stack



# self-service dashboards	2500+	3,800+
# engineering workloads	3,000+	6,000+
# business strategies	3,000+	5,000+

Agile operating model



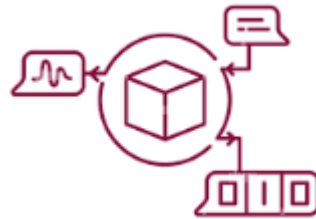
# Active pods	25+	30+
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*ETB Metrics

Benchmarking done by internal and independent industry consultants

Basis internal and external factors, we have added 2 new initiatives in our distinctive journey

Monetizing Generative AI & LLM



- Monetize GenAI for employee knowledge management and customer services
- PoCs in various business domains and experiment on varying datasets – *monitoring and guardrails for continuous learning*

Revenue uplift via balance sheet optimisation



- Pricing optimisation
 - Risk-based granular pricing for assets and LTV based for fee products
 - Tenure based LCR optimised pricing for term deposits
 - Pricing as an API
- LCR optimisation
- Asset liability repricing tenure optimisation

Thank you

