Banking on Data

Analyst Day 2022

November 24th, 2022



Analytics at Axis Bank – 100+ use cases deployed in 10+ business domains ...



Vertical analytics teams aligned to multiple business units

Diverse set of use cases* deployed

Credit Cards & Payments

Retail Lending

Deposits

Digital Banking

CBG

Wholesale Banking

Ops and Corporate Centre

Bharat Banking

Self Service MIS

Customer digital journey monitoring

Productivity tracking

Risk & Portfolio metrics

Txn and spends tracking

...

Customer Experience

Personalized nudges

Next Best Action

Omni channel orchestration

Offer Prioritization

Risk Management

Real-time underwriting decision
Early Warning Systems
Anti-Money Laundering Alerts
Customer Risk Segmentation
Potential fraud detection

...

Operational Excellence

Branch Network Optimization
HR Attrition Program
Process Automation
Cash Optimizations of ATM and Branches

...

Product & Pricing

Product design

Price leakage reduction Sensitivity based pricing

...

Analyst Day 2022

... helping significantly, contribute to our GPS agenda





66% of personal loans happen via database programs



79% of the new cards sourcing & 100% of portfolio exposure increase via data driven strategy



30% of term deposits happens via campaigns backed by analytics



10% CBG business comes via data driven market mapping



80% of the lending happens via in-house scorecards, 1.5x more predictive than CIBIL scores



50cr+ YTD savings in fraud via robust alerts framework



Personalization – 10k+ nudge variants live to become best customer experience app in the world



100+ Alternate

Data features powering 50+
distinctive models



Data Stack 3.0 to stay on top of data tsunami



Agile operating model

100+ business initiatives & 10+ capabilities helping get bank future ready; 2 digital initiatives & 3 capabilities focus for today

How are we doing as compared to our peers?

Distinctiveness

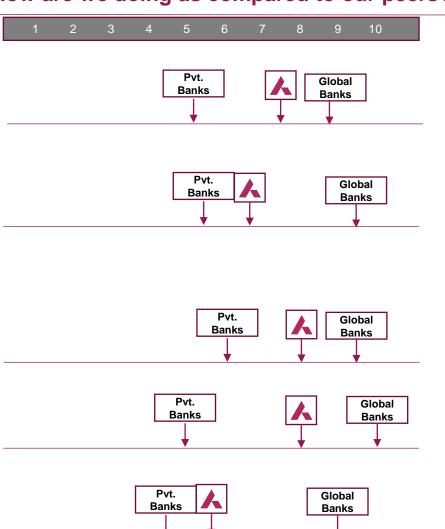
Personalization¹

Universal Underwriting²

Alternate Data²

Data Stack 3.0²

Agile operating model²



- 10,000+ hyper personalised nudge across
 2,500+ customer features for the world's No. 1
 rated mobile banking app
- Ready loan 10 Cr+ offers for 5cr+ 'customers'
 both existing and new
- 30+ risk scorecards loan at right price
- Data for Bharat leveraging satellite data
- Data for partners partner data-based analytics to deliver best offer for you
- Best in industry income estimation models
- 3 Petabytes of data
- 100+ nodes big data cluster
- Dedicated Kafka cluster: 50+ real time cases
- 150+ engineering workloads on cloud
- 25+ agile pods functional with agile operating rhythm delivering 2x time to market
- 10+ departments working together

Personalization - Let's take a closer look





Building capability across 6 key areas

Data 2500+ customer features

- Customer DNA
- Persona
- **Propensity**
- Value to bank

Nudge library 10,000+ nudge variants Offer, reward variants Channel variants

Message variants

Prioritization Engine ML based model

Nudge qualification engine

Nudge optimization engine

Experimentation engine

MarTech 6+ channels integrated MB

SMS Email Push

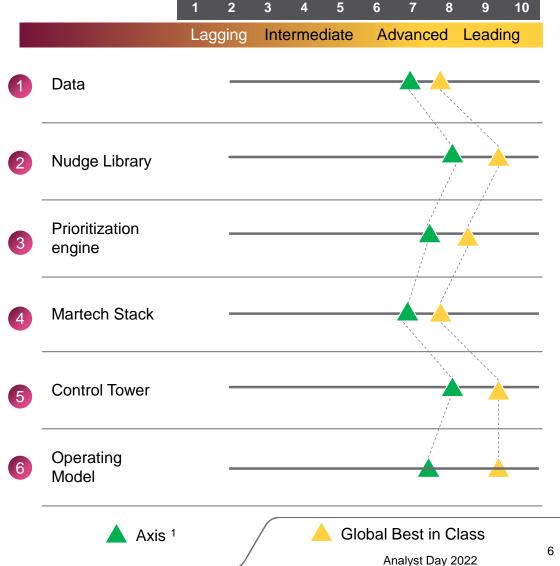
Whats R4U Banner App

Control Tower Near real time performance monitoring

Operating model

10+ departments working together

Where are we in the journey?



Built best-in-class personalization capability helping to be the leading customer centric bank (contd...)



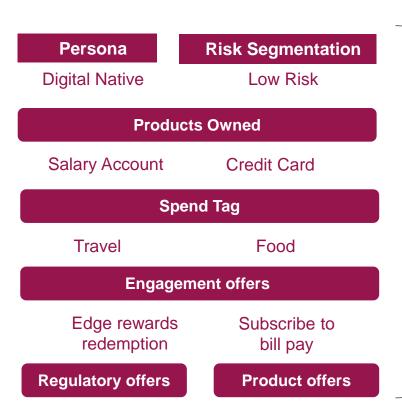


ReKYC due

Name: Amit Mulchandani

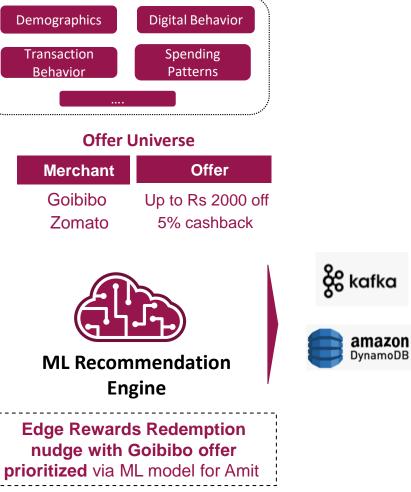
Location: Delhi

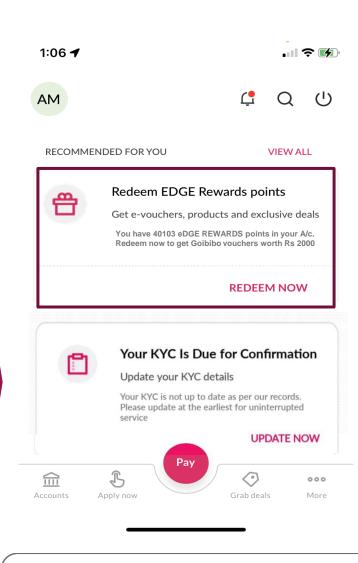
Age: **27**



PL - Preapproved



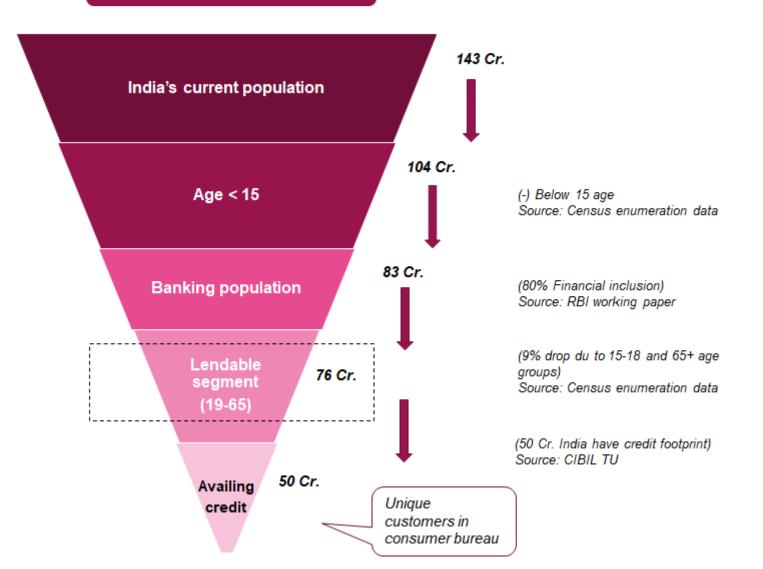


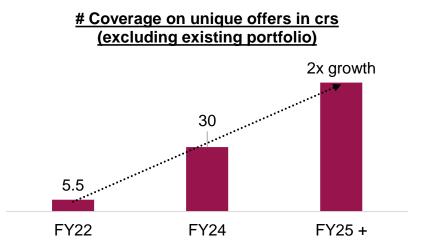


Data for good enabling credit access for every eligible Indian AXIS BANK

Huge potential to increase offers from current 5.5 Cr. to 70+ Cr.

FY2023 (estimated at 1% annual growth)





Universal underwriting- Let's take a closer look





Work initiated across all work streams to scale up universal underwriting

AXIS BANK

ETB

Using information from bureau, bank statements, tax info for on-us customers

Data science

Alternate Data

 Using pre-approved scorecards for expanding database programs

Tech

 Deploying non-linear models in-house on Big data platform for scoring via MLOps

KTB

- Leveraging data such as spends, deliveries, etc. from partners like Flipkart, other online store partners
- Building best-in-class risk scores via data room exercises and deploy at partner's ecosystem

NTB

- Alternate scores like Telcom, UPI, Satellite farmland info, Geocoding etc. for real-time customers
- Developed and deployed inhouse model on cloud for real time income estimation model

Deploying scores & offers as a service for external partners, which can be easily integrated

Test learn scale - Creation of test programs leveraging enhanced analytical toolkits

Marketing strategy – offer right product at right price and tenure

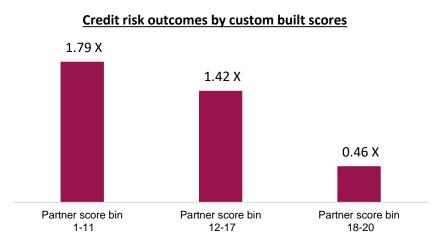
Boosting universal underwriting initiatives via KTB lending

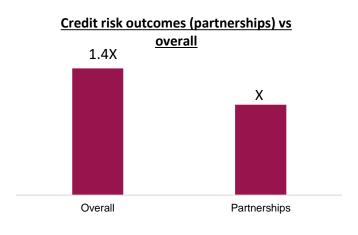
AXIS BANK

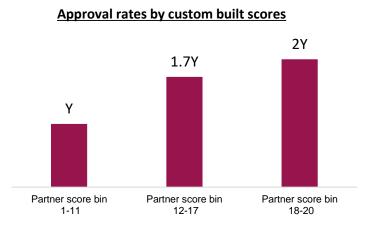
Custom built scorecards based on Partners data to enable targeting wider range of KTB customers with controlled risk outcomes



30%+ cards sourced per month via partnerships







We are making crucial efforts to expand partnership lending ...







Retail Online Store 1 Retail Online Store 2

Leveraging alternate data to build best-in-industry standard models to scale up our use cases

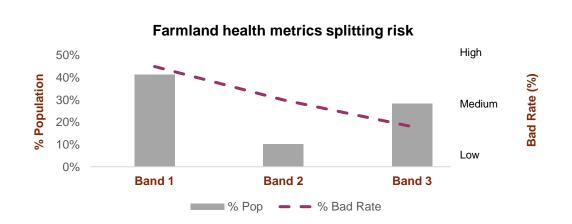
Data for Bharat Banking

First bank to develop & deploy in-house rural lending scorecards for LoBs –

- Agri KCC
- Farm Equipment
- OD Loan
- Tractor finance



Satellite data-based farmland health metrics



Data for new to credit & thin bureau

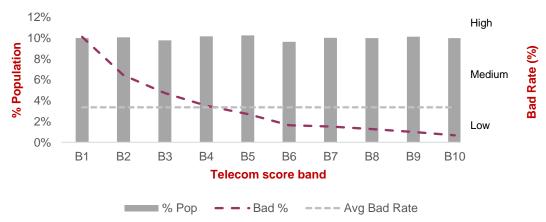
Using Third party Telecom score to drive use cases for

- New to credit
- New to bank customers



Telecom usage data

Telco score shows significant split over avg risk



1.85x

FY23 (Till date)

Significant growth via campaigns



Analyst Day 2022

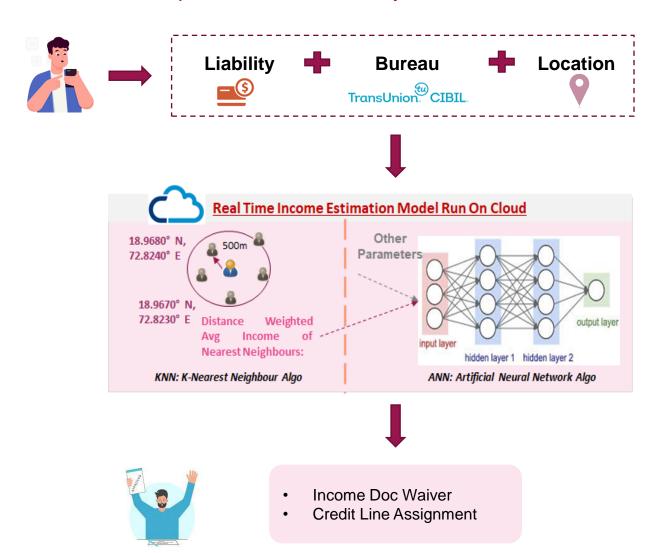
FY22

12

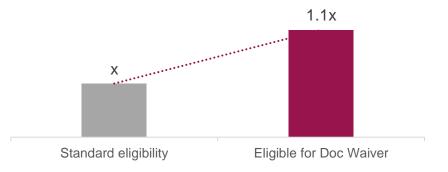
Leveraging alternate data to build best-in-industry standard models to scale up our use cases (contd...)



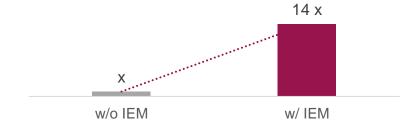
Developed first-of-its-kind, fully secure, cloud-native Income estimation for both On-us and Off-us Customers



10% increase in eligibility for PL



Significant increase in Flipkart CC Income doc waiver applications via IEM model



1000+ dashboards

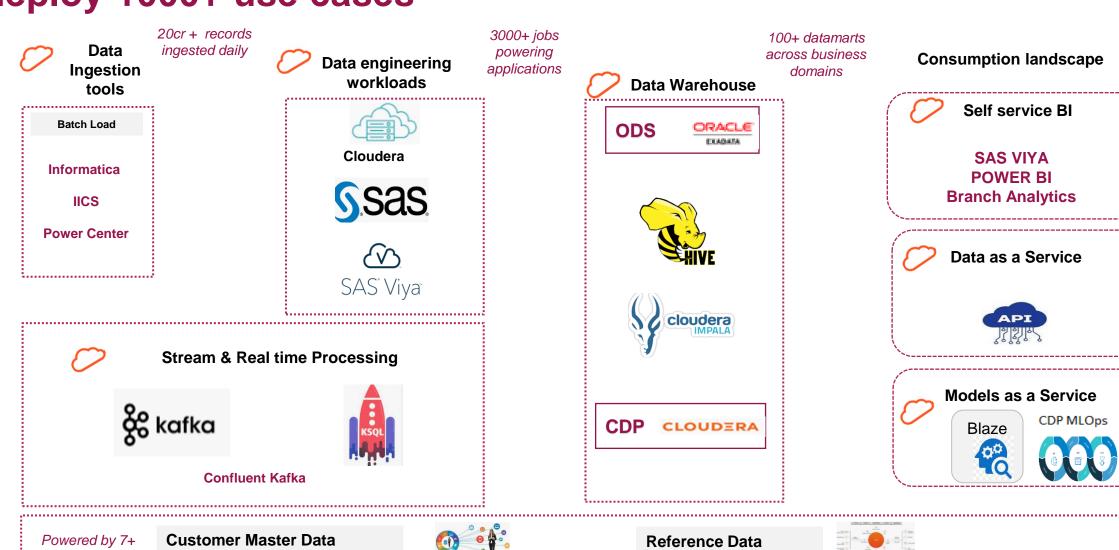
10000+

personalized

offers & nudges

1 lac+ daily hits

Data stack 3.0 is the modern and scalable architecture helps AXIS BANK deploy 1000+ use cases



Enterprise Data Catalogue

source systems

Data Quality

50+ DQ corecards live

Multiple teams working together to achieve the business outcome



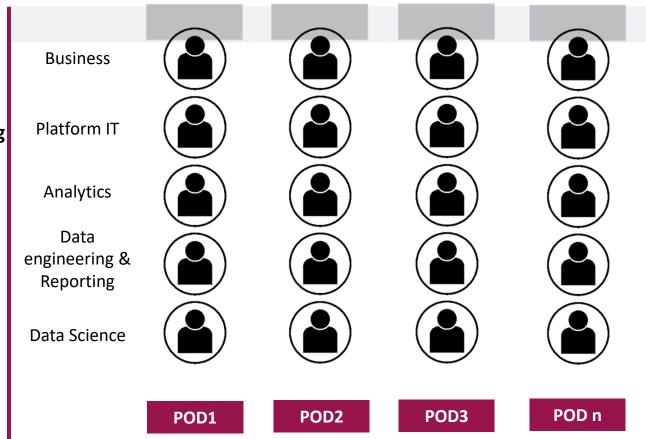
We have Product aligned PODs with different teams with complementary skills

Illustrative

Product aligned PODs

Covering products across Liabilities and CA --- SA -- MB IB --- PL -- AL,HL --- Assets

PODs comprising people from different teams with complimentary skills



With POD Governance to drive business outcomes

- Book of work driven prioritization with Owner tagging
- Weekly Scrum for review
- Jira Ticketing system
- Virtual room created for each POD to effectively collaborate

Thank You

