



PAYOJANA

"Together We Grow, Fee-Free."





Finance

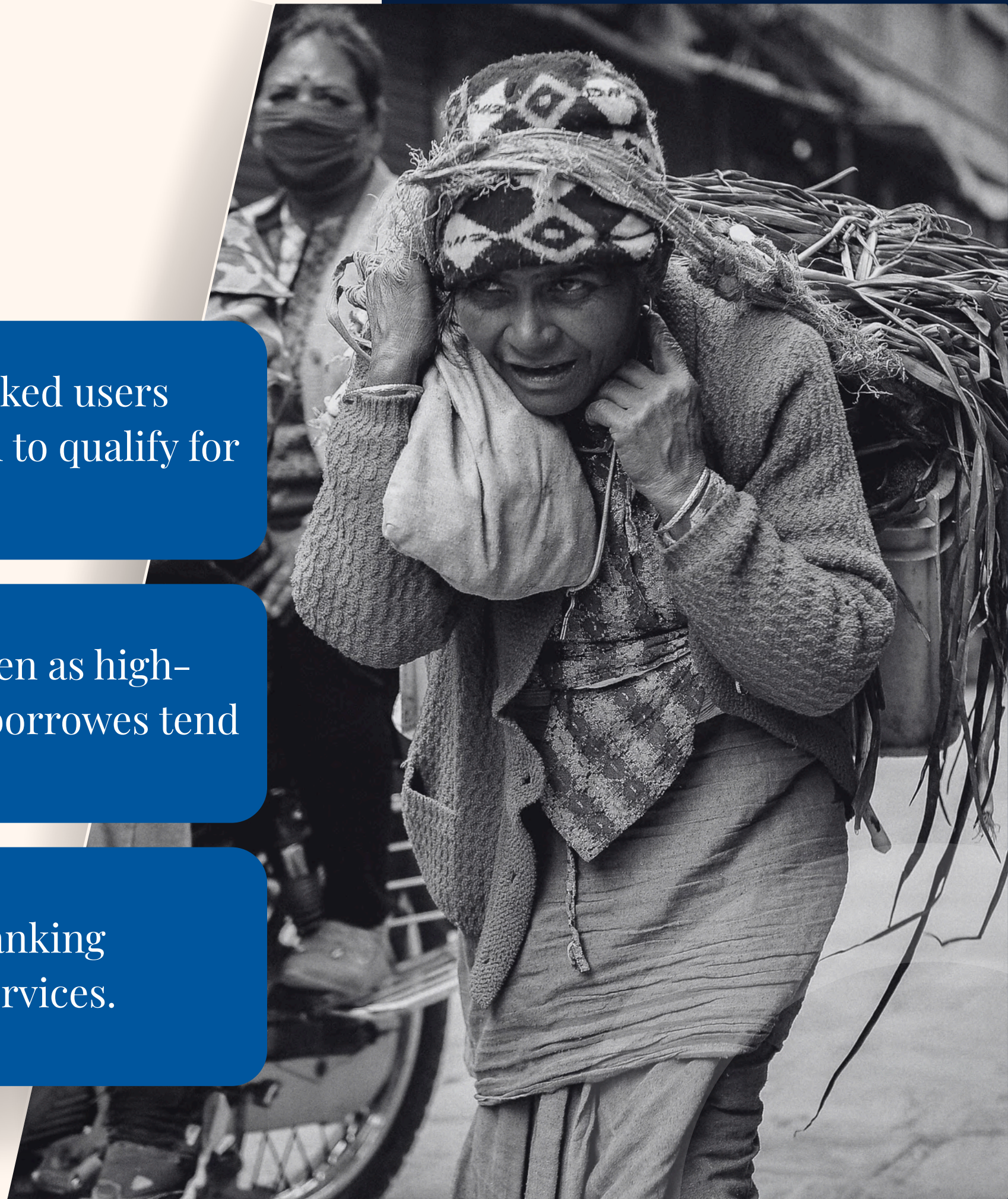
How can fintech innovations improve financial accessibility for underbanked communities, enhancing credit access, reducing transaction costs, and making banking services more inclusive?

Problems

Lack of Credit History & Traditional Credit Scores: Most underbanked users lack formal banking history or credit scores, making it hard for them to qualify for loans.

Exploitation of underbanked borrowers : Unbanked borrowers are seen as high-risk due to lack of data, making loans either unavailable. Desperate borrowers tend to take loans with high interest

Low Accessibility and poor infrastructure: Rural users face poor banking infrastructure, high service fees, and difficulty accessing financial services.



Case Problem

580 M UNDERBANKED
IN INDIA

190 M UNBANKED

11200 SUICIDES OVER
THE DECADE

borrow from local landlords or
informal moneylenders who
charge exploitative interest
rates of 36–60% annually,
often compounded.

mostly small and marginal farmers (over
86% of India's farming population)

particularly in states like Maharashtra,
Telangana, and Punjab.



Our Solution

Payojana – a fintech solution to the rural credit crisis by enabling group-based microloans for any communities without formal credit histories by analysing risk signals through machine learning and AI

01

Payojana will initially launch as a loss-making zero-fee utility bill payment platform, providing rural users with an easy, accessible way to pay for essential services like electricity, water, and mobile recharges.

To scale its reach, Payojana will partner with Aajeevika Yojana (NRLM), leveraging their grassroots trust to offer accessible digital banking, cut agent dependence, and promote financial inclusion



02

Once SHG and government partnerships are secured, Payojana will expand hyperlocally with its zero-fee, multilingual bill payment platform. Supporting regional languages, IVR help, and low-data use, it enables easy access. Habitual adoption will be driven by local panchayat tie-ups, referral rewards, cashback, and timely SMS/WhatsApp reminders.

This phase is essential for embedding Payojana into daily rural financial behaviour and creating a foundation for long-term user engagement.

Our Solution

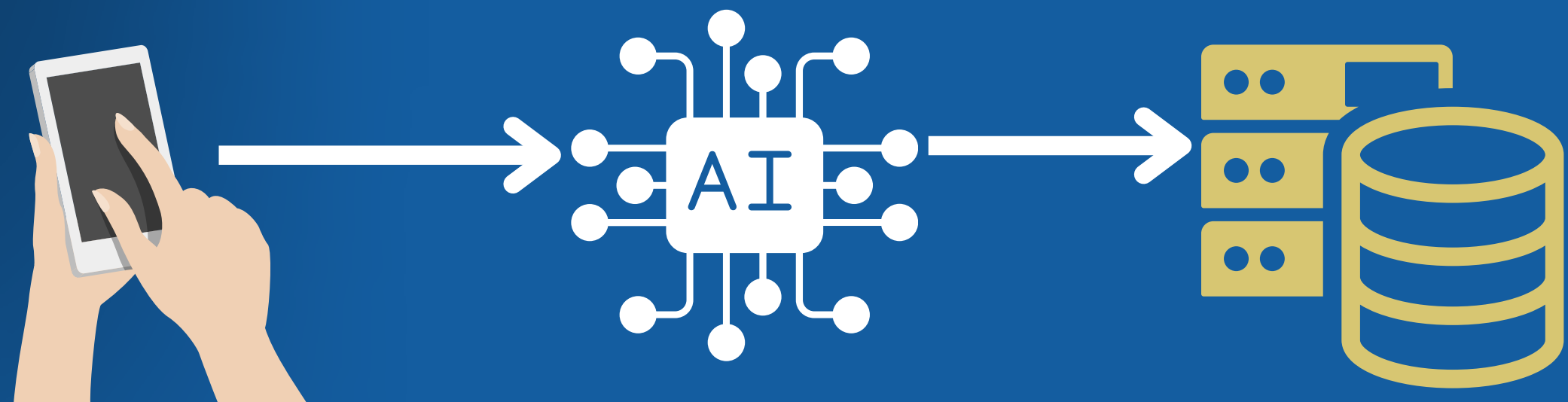
Risk Profiling Using AI

03

As Payojana transitions from payments to credit, it will construct individual risk profiles using Bayesian statistical modelling and AI. Each user's e-KYC data acts as a Bayesian prior, reflecting identity, demographics, and socio-economic signals.

As users make utility payments and interact with the platform, behavioural data updates the prior to a posterior probability of repayment. Loan decisions are modelled as Bernoulli variables to capture repayment uncertainty

These risk signals feed into supervised models—gradient boosting, TCNs, and transformers—that learn patterns in payment behaviour. This generates personalised, high-resolution risk vectors for data-driven, inclusive lending without needing credit scores.



Our Solution

Community based micro loans

04

With individual risk profiles built, Payojana will begin micro-lending to panchayat-level community clusters. Using a covariance matrix of repayment probabilities, it applies Mean-Variance Optimization to balance community risk and return for smarter capital allocation.

Loan amounts will typically range ₹5,000–₹25,000, with interest rates linked to community risk. Auto-repayment via Payojana's platform ensures frictionless collections, marking a shift from infrastructure to revenue through interest spreads, partnerships, and data monetisation.

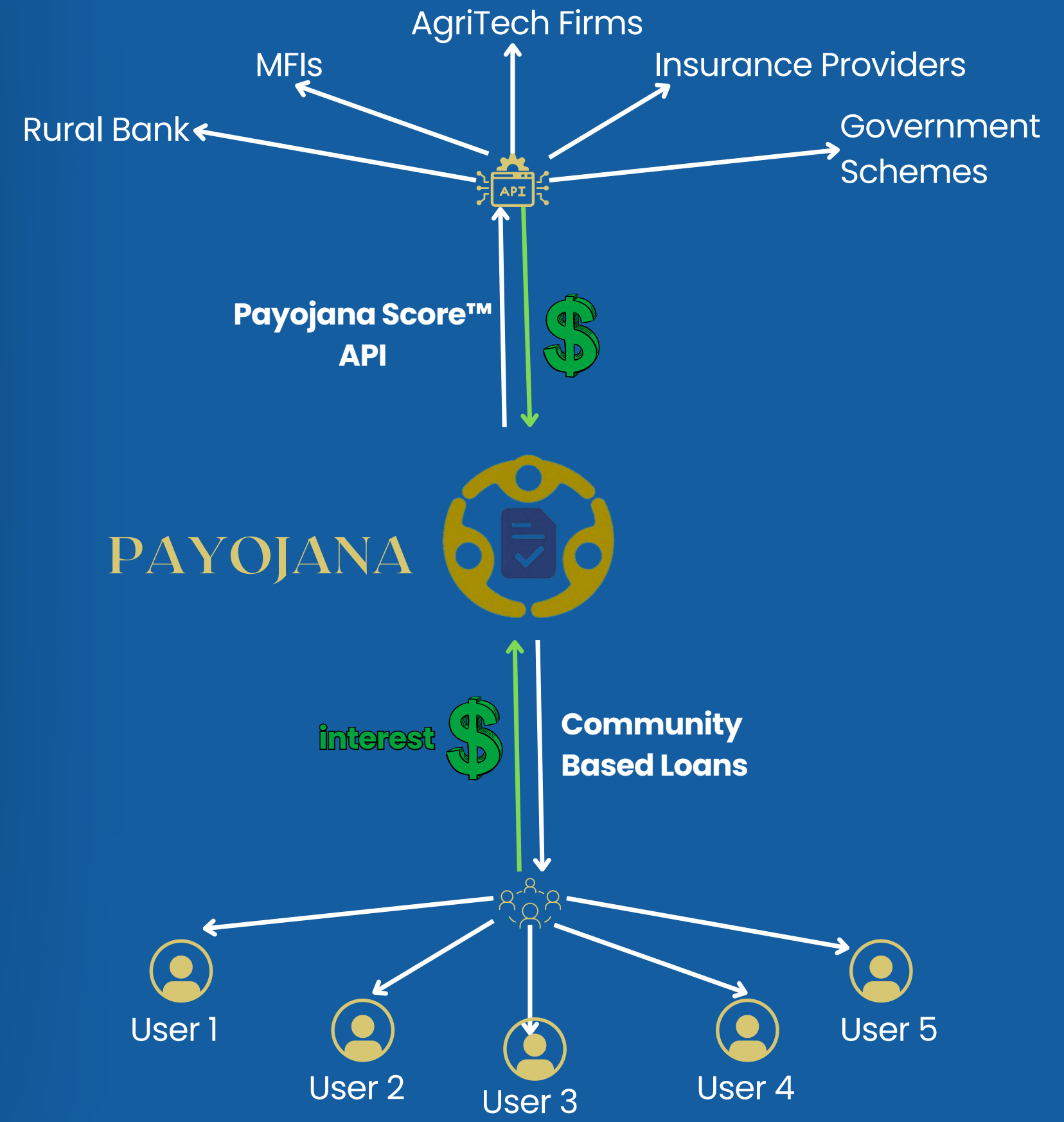
This stage marks the transition from utility infrastructure to **revenue generation**—through interest spreads, risk-sharing agreements, or data licensing models for institutional lenders.

Our Solution

Revenue Structure

05

Payojana generates revenue through community-based microloans and by licensing its behavioural credit scoring API to financial partners.



Business Model



Partner with existing community hubs to onboard users



Enable zero-fee digital utility payments for communities



Provide community-based loans through alternative credit scoring



Monetize user-generated data from utility bills and credit behavior



Measure of Success: Monthly active users of Payojana App

Market Size & Validation

India selected as initial launch market due to high underbanked population and smartphone access.

510

Million

Potential
Users

88% of underbanked households have internet and smartphone access

\$2.05

Trillion

Total Loan

Total loan market in India

\$45.2

Billion

Microfinance
Loan

Total microfinance loan market in India







\$22.6

Million

Targeted
Value

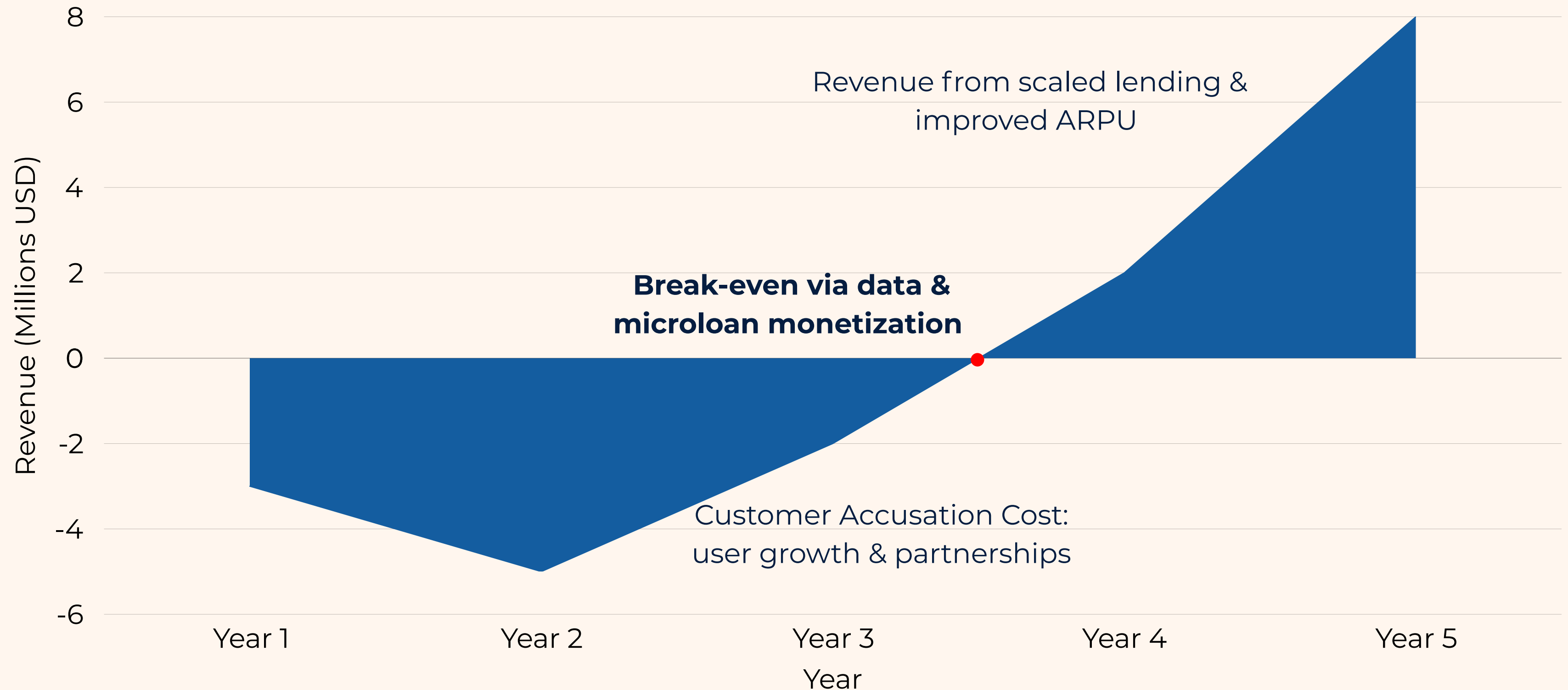
Based on 0.05% market share

Competitive Advantage

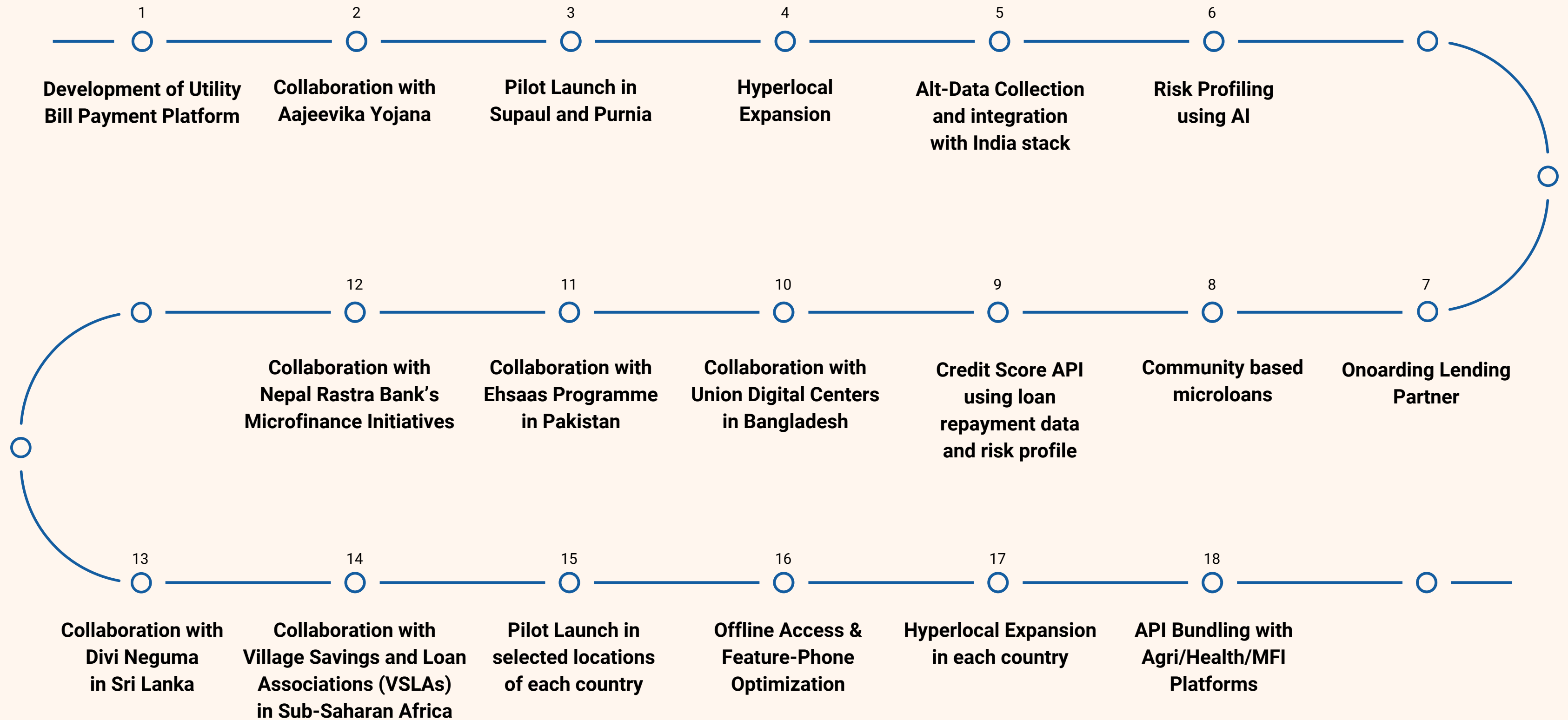
CATEGORY	Credit Assessment	Target Segment	Loan Structuring
TRADITIONAL	 MUDRA Loans – CIBIL-based, asset-linked	 Bandhan Bank – Focus on credit-worthy microloans	 SKS Microfinance – Fixed group lending models
PAYOJANA	Behavioural risk scoring using Bayesian inference & ML	Focused on high-friction, excluded rural underbanked	Dynamic loan terms based on individual repayment probabilities
CATEGORY	Technology Integration	Distribution Model	Revenue Streams
TRADITIONAL	 Grameen Koota – Partially digitised operations	 State Bank of India (Rural) – Branch & agent based	 Janalakshmi Bank – Interest-driven
PAYOJANA	End-to-end digital onboarding with UPI, eKYC, IVR, and regional language support	Distributed via SHGs, Panchayats, and DBT-linked community hubs	Interest, embedded credit partnerships, and API-based data monetisation

Projected Revenue

(First 5-Years)



Scaling



THANK YOU!



DESIGN OPTIMIZERS

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