



ALY6060 – Decision Support and Business Intelligence

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TALA: AI-DRIVEN FINANCIAL INCLUSION – A DATA ANALYTICS CASE STUDY

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Table of Contents

1 Introduction..... 2

2 The Global Financial Inclusion Problem 2

3 Tala's Data-Driven Organizational Culture 4

 3.1 Strategic Decision Making Through Comprehensive Analytics 4

 3.2 Revolutionary Credit Scoring Through Alternative Data Analytics..... 4

 3.3 Performance Metrics and Continuous Learning Infrastructure 5

4 Business Intelligence Enabling Strategic Decisions and Competitive Advantage 7

 4.1 Market Intelligence and Global Positioning Strategy 7

 4.2 AI-Powered Market Expansion and Real-Time Decision Making 7

 4.3 Investment Strategy and Capital Allocation Success..... 8

 4.4 Customer Impact Analytics and Product Development..... 9

5 Industry 4.0 Requirements for Maintaining Leadership 9

 5.1 Technological Evolution and Infrastructure Requirements 9

 5.2 Technology Evolution Foundation 9

 5.3 Regulatory Compliance and Ethical AI Implementation..... 10

 5.4 Competitive Landscape Evolution and Market Dynamics 10

6 Global Impact Assessment and Long-Term Success Potential..... 11

 6.1 Quantitative Impact Analysis and Market Opportunity..... 11

 6.2 Sustainability Assessment and Long-Term Viability 11

7 Conclusion 12

8 References..... 13

9 Appendix..... 14

1 Introduction

Traditional banks have a simple way of deciding who gets loans: they examine credit scores, review bank statements, request pay stubs, and require collateral such as houses or cars. If applicants lack these formal financial documents, they are systematically denied access to credit. This system works adequately for people who already possess money and documentation, but it completely excludes billions of people worldwide from the formal financial system.

However, alternative approaches to credit assessment demonstrate the potential for revolutionary change in financial services delivery. Advanced data analytics enables companies to analyze smartphone usage patterns and make lending decisions in under three seconds. Creditworthiness can be determined through bill payment behavior analysis, application usage patterns, and form completion habits rather than traditional documentation requirements. Tala exemplifies this transformation, demonstrating how data analytics and artificial intelligence can solve problems that traditional banking systems have been unable to address.

Tala represents a compelling case study of how organizations can leverage data analytics and AI to drive business decisions and create entirely new products for underserved clients. Since 2011, this company has used alternative data sources and machine learning to lend over \$6 billion to more than 10 million people who could not access loans anywhere else (PRWeb, 2024). Notably, these customers maintain a 95% repayment rate superior to many traditional banks serving similar populations (TechCabal, 2025).

This report examines how Tala has constructed a data-driven organizational culture, deploys AI to make strategic business decisions, leverages business intelligence for competitive advantage, and positions itself for Industry 4.0 leadership while addressing global financial inclusion challenges.

2 The Global Financial Inclusion Problem

To understand why Tala's approach represents a significant innovation, examination of how traditional banking creates massive systematic exclusion is necessary. Conventional banks follow standardized processes requiring customers to submit extensive paperwork, undergo credit bureau evaluations, provide employment verification through pay stubs, demonstrate collateral value, and wait 7-14 days for decisions.

This system contains a fundamental structural flaw: it exclusively serves people already integrated into the formal financial system. Globally, 1.4 billion adults have never possessed a bank account (World Bank

Global Findex, 2021). In countries where Tala operates, exclusion rates are staggering and represent enormous market opportunities.

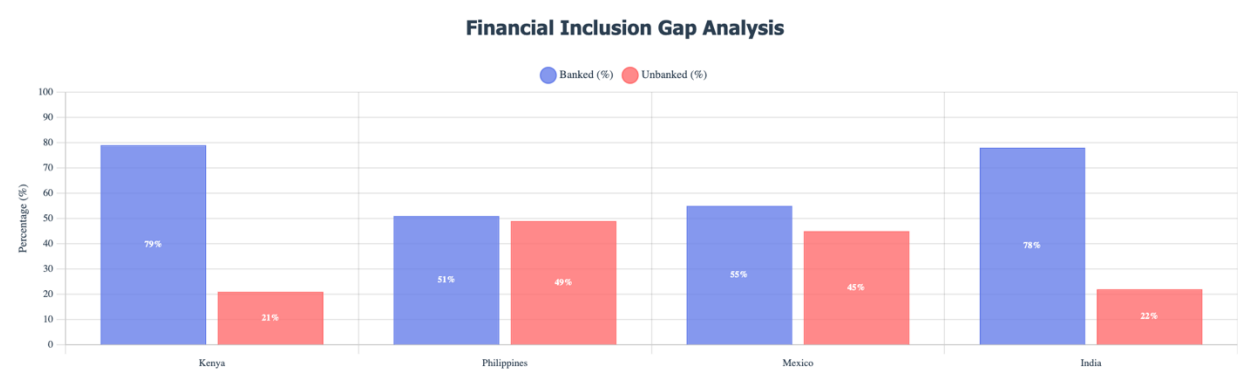


Figure 1: Financial Inclusion Gap Analysis Chart

Figure 1 illustrates the financial inclusion gap across Tala's target markets, revealing massive underserved populations (World Bank Global Findex, 2021; World Bank, 2025). Kenya demonstrates 79% account ownership with 21% remaining unbanked, representing 11.3 million adults. The Philippines shows 51% account ownership, leaving 49% unbanked approximately 53.4 million adults excluded from formal financial services. Mexico exhibits 55% account ownership with 45% unbanked, translating to 57.6 million adults. India, despite significant progress, still has 22% unbanked adults, representing 303.6 million people (World Bank, 2025; UNSGSA, 2024).

These statistics represent substantial barriers to economic opportunity and development. Without access to credit, people cannot start or expand small businesses, pay for education or medical emergencies, build assets or improve housing conditions, participate effectively in the digital economy, or establish financial histories for future opportunities.

A significant paradox emerges when examining the creditworthiness of unbanked populations. Many unbanked people demonstrate strong creditworthiness through their daily financial behaviors. They operate small businesses successfully, send money to family members reliably, and manage complex informal financial relationships with remarkable consistency. However, traditional banks cannot evaluate these positive behaviors because they only recognize formal financial documentation and credit bureau records.

3 Tala's Data-Driven Organizational Culture

3.1 Strategic Decision Making Through Comprehensive Analytics

One of Tala's most impressive characteristics is how they have constructed an organization where data drives every significant decision, from executive strategy to customer service operations. This represents more than technological capability it reflects fundamental cultural transformation where evidence-based thinking permeates all organizational levels.

When Tala decided to expand into Mexico, they avoided making decisions based on market trends or executive intuition. Instead, they conducted systematic analysis examining population demographics, mobile phone penetration rates, existing competition and market gaps, regulatory environments and government policies toward fintech innovation, economic indicators, currency stability factors, and customer acquisition costs within competitive dynamics.

This analytical approach delivered dramatic results. Mexico became Tala's largest market, serving over 3 million customers with more than \$500 million in loans disbursed in 2024 alone (Reuters, 2025).



Figure 2: Customer Growth & Loan Volume Chart

Figure 2 above demonstrates Tala's remarkable customer growth trajectory, showing expansion from 100,000 customers in 2014 to 10 million in 2025 representing 10,000% growth alongside 60,000% loan volume increase (PRWeb, 2024; Manila Times, 2025).

3.2 Revolutionary Credit Scoring Through Alternative Data Analytics

Tala's use of artificial intelligence extends far beyond operational efficiency to fundamentally reshape strategic decision-making and product innovation. Their credit scoring revolution demonstrates how AI can solve problems that traditional methods cannot address.

Tala's app uses a sophisticated scoring model based on 250 data points, analyzing everything from cellphone bill payments to online behavioral patterns (CNBC, 2020). The company determines weights of individual data points using state-of-the-art machine learning techniques, trained on historic user data from millions of loan applications (Tala Data Ethics, 2020).

The system processes multiple data categories simultaneously. Device and application data includes phone model and operating system analysis, installed applications assessment, and app usage pattern evaluation. Behavioral pattern analysis encompasses form completion methodology, communication pattern evaluation, location consistency analysis, and device maintenance habits. Financial behavior assessment includes mobile money usage examination, airtime purchase pattern analysis, and bill payment history evaluation covering utility payments and phone top-ups (CNBC, 2020; Tala Data Ethics, 2020).

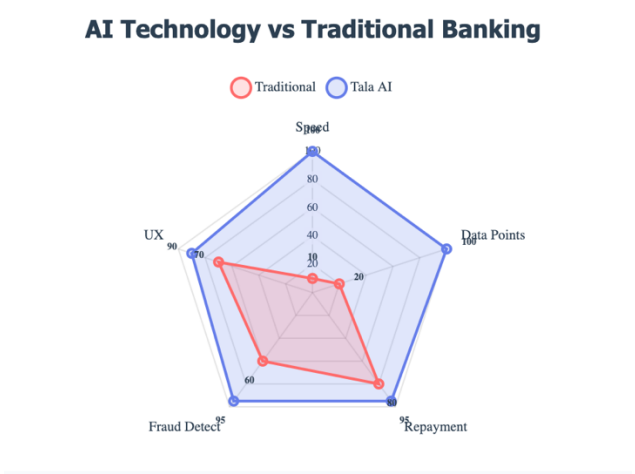


Figure 3: AI Technology vs Traditional Banking Comparison Chart

Figure 3 compares traditional banking technology against Tala's AI system across five critical dimensions: processing speed, data analysis capability, repayment rate performance, fraud detection effectiveness, and customer experience quality (CNBC, 2024; TechCabal, 2025; Tala, 2020).

3.3 Performance Metrics and Continuous Learning Infrastructure

The effectiveness of Tala's data-driven culture manifests clearly in measurable performance outcomes. Key performance indicators demonstrate how strong data analytics culture translates into tangible business success: \$6B+ total loans disbursed, 10M+ global customers served, 95% repayment rate achieved, 250+ AI data points analyzed per application, less than 3-second approval times, and \$522M total funding raised (PRWeb, 2024; TechCabal, 2025; Crunchbase, 2025; CNBC, 2024).

Table 1: Key Performance Indicators with Values and Benchmarks

Key Performance Indicator	Value	Comparison/Benchmark
Total Loans Disbursed	\$6B+	✓ Verified
Total Customers	10M+	↑ 2025
Repayment Rate	95%	vs 75% Traditional Banks
AI Data Points Analyzed	250+	vs 5-10 Traditional
Approval Time	<3s	vs 7-14 days Traditional
Total Funding Raised	\$522M	+\$150M in 2025

The 95% repayment rate deserves particular attention because it validates their entire analytical approach. Traditional banks serving similar populations typically achieve repayment rates between 75-85%. Tala's superior performance suggests their behavioral analysis identifies creditworthy customers more accurately than conventional credit scoring methods (TechCabal, 2025).

In 2024, they completely rebuilt their machine learning infrastructure to enable "continuous ML model delivery," allowing data scientists to deploy new algorithms within hours instead of months, test multiple models simultaneously across different markets, automatically adjust risk parameters based on emerging data patterns, and respond rapidly to changing economic conditions (CNBC, 2024). This organizational agility provides crucial competitive advantages in emerging markets where economic conditions change rapidly and unpredictably.

As of Q1 2025, Tala posted a record global annualized revenue run rate of \$300 million and added half a million customers representing an 80% increase compared to Q1 2024. By the end of 2024, Tala achieved a 35% year-on-year compound annual growth rate while serving 10 million customers and delivering over \$6 billion in loan originations globally (Manila Times, 2025).

4 Business Intelligence Enabling Strategic Decisions and Competitive Advantage

4.1 Market Intelligence and Global Positioning Strategy

Tala's business intelligence capabilities extend beyond individual customer analysis to encompass market-level insights informing strategic positioning and competitive strategy. Their systematic approach to market intelligence demonstrates how organizations can leverage data analytics for superior strategic decision-making.

Figure 4 illustrates Tala's strategic positioning in the fastest-growing global fintech markets (McKinsey, 2023; Market Data Forecast, 2025). Their analysis identified emerging markets as the highest-growth segment, with Latin America growing at 15% CAGR, Asia-Pacific at 27.5% CAGR, and Africa at 22% CAGR, compared to slower-growth markets like North America (8.5% CAGR) and Europe (12% CAGR).

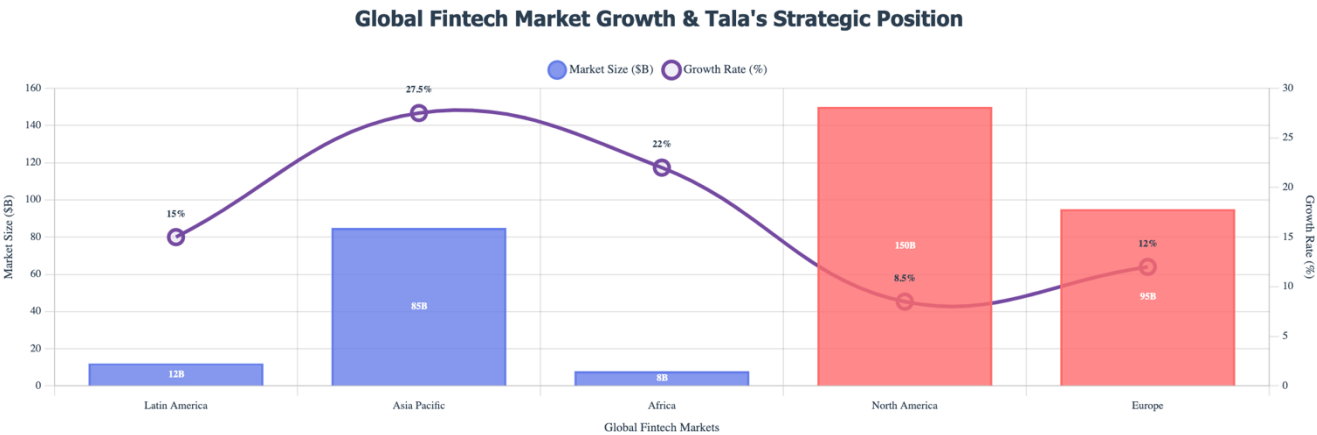


Figure 4: Global Fintech Market Growth & Tala's Strategic Position

Fintech revenues in Africa, Asia-Pacific (excluding China), Latin America, and the Middle East represented 15% of fintech's global revenues in 2022, estimated to increase to 29% in aggregate by 2028 (McKinsey, 2023). This market intelligence directly influenced Tala's strategic decision to concentrate resources in high-growth regions rather than pursuing opportunities in mature markets with lower growth potential.

4.2 AI-Powered Market Expansion and Real-Time Decision Making

Tala's expansion decisions demonstrate sophisticated predictive analytics and market modeling capabilities. Before entering any new market, their AI systems conduct comprehensive analysis including demographic modeling, competitive intelligence assessment, and risk evaluation covering currency

stability, political predictability, infrastructure reliability, and cultural factors affecting financial behavior. Tala has also leveraged AI to transform loan approval processes fundamentally. Their ability to make creditworthiness decisions in under three seconds represents one of the most sophisticated applications of real-time AI in consumer finance (CNBC, 2024). The technical architecture supporting this capability processes multiple data streams simultaneously through real-time data processing, machine learning models for credit risk assessment algorithms, fraud detection systems, pricing optimization, customer segmentation, and automated decision-making systems that deliver instant approvals.

Using an AI chatbot, Tala customers can identify and detect fraudulent loan offers and phishing scams in real time (CNBC, 2024). By analyzing patterns across millions of loan applications, Tala's AI systems identified subtle indicators of fraudulent behavior that human reviewers consistently missed, including unusual typing speeds, inconsistent location data, coordinated application patterns, and suspicious device characteristics.

4.3 Investment Strategy and Capital Allocation Success

Tala's ability to attract \$522 million in funding across multiple rounds demonstrates how robust business intelligence builds investor confidence and enables strategic capital allocation (Crunchbase, 2025). Their data-driven approach to demonstrating market opportunity, customer acquisition economics, and risk management has enabled them to secure funding from sophisticated institutional investors. The most recent \$150 million debt facility from Neuberger Berman, specifically earmarked for Mexico expansion, illustrates how business intelligence about specific market opportunities attracts targeted investment (Reuters, 2025).

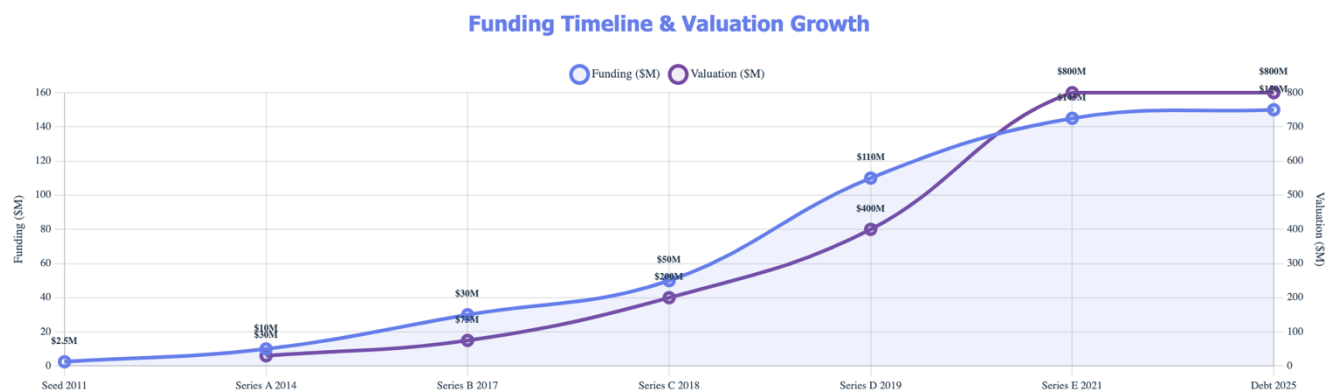


Figure 5: Funding Timeline & Valuation Growth

4.4 Customer Impact Analytics and Product Development

Tala's business intelligence enables sophisticated customer segmentation that transcends traditional demographic categories. By analyzing behavioral patterns, financial needs, and repayment histories, they create highly personalized product offerings that address specific customer requirements.

Research in the Philippines revealed important insights about customer impact and satisfaction levels. Studies showed that 42% of adults worry primarily about medical costs, 24% about monthly expenses, and 17% about securing funds for old age. Additionally, 68% of adults expressed serious concerns about facing severe financial hardship, particularly highlighted during the COVID-19 pandemic (UNSGSA, 2024). These insights, derived from systematic customer surveys and behavioral analysis, informed product modifications and marketing strategies emphasizing empowerment and economic mobility rather than simply providing financial access.

5 Industry 4.0 Requirements for Maintaining Leadership

5.1 Technological Evolution and Infrastructure Requirements

As the financial services industry evolves toward Industry 4.0 principles characterized by interconnected systems, real-time data processing, and automated decision-making, Tala faces both significant opportunities and critical requirements for maintaining competitive position.

Tala has begun positioning for this evolution through strategic initiatives including blockchain integration via partnership with the Stellar Development Foundation and launch of USDC digital wallet capabilities (Tala Series E, 2021). Advanced AI and machine learning capabilities require continuous advancement including natural language processing for customer service automation, computer vision for document verification processes, and predictive analytics for proactive financial management recommendations.

5.2 Technology Evolution Foundation

Tala's systematic technology progression from company founding (2011) to real-time AI fraud detection (2025) demonstrates Industry 4.0 readiness through interconnected system development. Industry 4.0 represents "the transition from a time when people worked with computers to a time when computers work without humans" (Machkour & Abriane, 2020, p. 268). Each milestone: AI credit scoring (2014), advanced ML infrastructure (2018), blockchain integration (2021), and continuous ML platforms (2024);

built upon previous achievements, creating compounding technological advantages essential for Industry 4.0 leadership.



Figure 6: Technology Evolution Timeline

This progressive innovation approach positions Tala advantageously as McKinsey Global Institute predicts Finance 4.0 will contribute \$3.7 trillion to emerging economies by 2025 (FinTech Weekly, 2023).

5.3 Regulatory Compliance and Ethical AI Implementation

Industry 4.0 financial services will operate under increasingly complex regulatory frameworks, particularly regarding data privacy protection, algorithmic fairness requirements, and cross-border transaction compliance. Tala's proactive approach to regulatory compliance provides advantages, but scaling across multiple jurisdictions requires ongoing investment in governance systems.

The company's commitment to ethical AI practices, including explicit efforts to avoid algorithmic bias in lending decisions, positions them favorably for stricter regulatory oversight (Tala Data Ethics, 2020). However, maintaining these standards while scaling operations will require continued investment in governance systems and compliance monitoring.

5.4 Competitive Landscape Evolution and Market Dynamics

Tala faces evolving competitive pressures from multiple directions simultaneously. Traditional banks are investing heavily in artificial intelligence and alternative data capabilities, potentially reducing Tala's technological advantages. New fintech entrants with substantial funding and advanced technology are entering emerging markets, creating competition for both customers and talent.

6 Global Impact Assessment and Long-Term Success Potential

6.1 Quantitative Impact Analysis and Market Opportunity

Tala's business model directly addresses one of the most significant global development challenges: systematic financial exclusion. Their approach demonstrates how data-driven business models can create both substantial economic value and meaningful social impact at unprecedented scale.

Direct service impact encompasses 10 million customers served globally, \$6 billion in credit disbursed to previously excluded populations, 95% repayment rate demonstrating sustainable service delivery, and average loan sizes of \$50-200 enabling micro-entrepreneurship development (PRWeb, 2024).

The scale of remaining market opportunity is enormous. With 434.9 million unbanked adults across target markets and current market penetration of only 0.6%, Tala has massive growth potential without requiring new market entry. This represents proven ability to scale operations while maintaining performance standards.

6.2 Sustainability Assessment and Long-Term Viability

Several factors suggest Tala's model can achieve sustainable long-term growth and meaningful impact. Technology scalability demonstrates their platform architecture's ability to grow from 100,000 to 10 million customers while maintaining operational efficiency and risk management standards.

Market demand validation through high customer retention rates and consistent growth across multiple markets indicates strong product-market fit and sustainable demand patterns. Financial performance shows the company's ability to maintain 95% repayment rates while serving previously "unbankable" populations, demonstrating the financial viability of their analytical approach.

Competitive advantages include Tala's "data moat" built through years of customer interactions and algorithm refinement that becomes stronger with scale, creating natural barriers to competitive entry and sustainable differentiation.

7 Conclusion

Tala's journey shows how data analytics and AI can drive meaningful transformation while tackling global challenges. By fostering a culture where decisions are guided by evidence not assumptions, they've served 10 million previously excluded individuals with an impressive 95% repayment rate, proving the flaw was never in the customers, but in traditional credit systems.

Their AI system processes over 250 behavioral data points to deliver credit decisions in under three seconds, fundamentally reimagining how risk is assessed. Strategic use of business intelligence has shaped market expansion and product development, fueling \$6 billion in loans disbursed and over \$522 million in funding secured.

Tala's readiness for Industry 4.0 evidenced by blockchain integration, continuous machine learning, and advanced analytics positions it for continued success. Yet, to stay ahead of rising fintech competition and evolving traditional banks, innovation must remain a priority.

With only 0.6% market penetration and nearly 435 million unbanked adults in their core markets, Tala's opportunity for growth and social impact is enormous. Their story offers a blueprint for other organizations: build a culture anchored in evidence, use AI to solve real problems, embed intelligence across all operations, and commit to continuous learning.

Tala proves that when used wisely, data can challenge outdated assumptions and unlock solutions to some of the world's most persistent problems.

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9 Appendix

View dashboard: <https://shill96.github.io/tala-fintech-case-study/>