

Impact of Implementing the Automated System Credit Conveyor on Operational Efficiency and Decision Speed in Microcredit

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Abstract: *The study offers a comparative analysis of how the implementation of automated systems of the credit conveyor type affects operational performance and the pace of decision making in the microcredit segment. The introduction substantiates the relevance of the topic in the context of the rapid expansion of the global microloan market and the pervasive digital transformation of the financial industry. The research objective is to identify key determinants of success, as well as the barriers and risks accompanying the deployment of such systems in contrasting economic environments: in technologically mature markets of the United States and the European Union and in the emerging market of Kyrgyzstan. The methodological basis relies on the principle of triangulation and combines a comparative analysis of regulatory and market configurations, a systematic review of academic publications and industry reports, and an in-depth examination of a practical case of implementing a credit conveyor in a microfinance organization in Kyrgyzstan. The findings demonstrate that although automation consistently improves key performance indicators (KPI)-including reducing application processing time and lowering operating costs-the magnitude of effects and the profile of associated risks critically depend on the maturity of the regulatory environment, the quality of available data, and the level of digital literacy of participants. The conclusions reached in the study verify the author's hypothesis: the direct transplantation of technological models from developed jurisdictions into developing contexts proves ineffective without deep adaptation to local conditions. The information presented in the article will be of interest to executives of microfinance organizations and to regulators, as well as to researchers focusing on financial technologies and inclusive economic development.*

Keywords: credit conveyor, microcredit, operational efficiency, decision making, FinTech, automation, comparative analysis, emerging markets, risk management, Kyrgyzstan

1. Introduction

The global microcredit segment has entered a phase of rapid quantitative expansion and deep technological restructuring. Forecast estimates record growth of the global market from 214,08 billion US dollars in 2024 to 386,36 billion by 2029, which corresponds to a compound annual growth rate of 12,6% (CAGR) [1]. The dynamics are supported by a pair of drivers: the global agenda of financial inclusion and the accelerated evolution of financial technologies, which is radically reshaping classical operating models [2]. The key node of transformation is automated credit assembly lines: the integration of AI, machine learning, and big data analytics makes it possible to build an end-to-end loop-from application intake to disbursement and post-monitoring-ensuring an unprecedented increase in operational efficiency and decision-making speed [3].

At the same time, the universality of technological trends does not eliminate the pronounced contextual variability of their practical implementation. In developed jurisdictions-the United States and the countries of the European Union-the diffusion of FinTech solutions is fueled by high competition and a mature digital infrastructure [4, 5], whereas in emerging markets, including the states of Central Asia, a set of structural constraints manifests itself: fragmentariness and a deficit of high-quality data, immaturity of regulatory regimes regarding AI, low digital literacy, and insufficient technological infrastructure [6, 7].

This asymmetry reveals a significant research profile. The existing academic agenda either focuses on the effects of lending automation in stable economies of developed countries [9], or describes in general terms the challenges of digitalization in the developing world [8]. There are almost no systematic comparative studies that analyze the results of deploying a standardized technology-such as a credit assembly line-in radically different institutional contexts. The present study addresses this gap through a direct comparison of the experiences of the United States, Europe, and Kyrgyzstan.

An additional acuity to the issue is provided by the dual nature of the accelerated growth of microcredit in developing economies. On the one hand, it expands access to finance and supports small business [11]. On the other hand-against the backdrop of weak supervisory institutions and high household indebtedness, as in Kyrgyzstan-it increases social vulnerability and stimulates the accumulation of precarious debt [12]. In this perspective, lending automation is not only an engineering task but also a matter of socio-economic responsibility: whether it will become a mechanism of fair and accessible finance or merely an accelerator for scaling predatory practices.

The aim of the study is to perform a comprehensive comparative analysis of the impact of automated credit assembly line systems on operational efficiency and decision-making speed in microcredit in the markets of the United States, Europe, and Kyrgyzstan, identifying key success factors and implementation barriers under differing economic conditions.

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The scientific novelty lies in the systematic comparison of regulatory, technological, and socio-economic determinants of the effectiveness of implementing a credit assembly line in developed and developing countries using Kyrgyzstan as an example.

The author's hypothesis is formulated as follows: the introduction of an automated credit assembly line system consistently increases operational efficiency and accelerates decision-making in the microcredit sector regardless of the stage of market development. However, the scale of the effect and the profile of associated risks critically depend on the maturity of the regulatory environment, the quality of available data, and the level of digital literacy, as a result of which the direct transplantation of models from developed jurisdictions to developing ones without deep adaptation proves ineffective.

2. Materials and Methods

To achieve the stated objective and ensure analytical depth and verifiability of the results, the study employs methodological triangulation. This approach makes it possible to examine the research problem from multiple angles by combining quantitative and qualitative procedures, thereby increasing the reliability of the conclusions.

Comparative analysis: the key research method aimed at the systematic comparison of three jurisdictions-the United States, the European Union, and Kyrgyzstan. The comparison is conducted across a set of anchor parameters: the configuration of the regulatory environment, the degree of technological maturity of the financial sector, the prevailing business models in the microcredit sphere, as well as the socioeconomic determinants of the implementation and operation of credit assembly lines. Such a design makes it possible to identify both recurring regularities and specific regional trajectories of technological modernization.

Systematic literature review: to build the theoretical foundation, a targeted analysis of relevant publications over the past five years in the peer-reviewed databases Scopus and Web of Science was conducted. The review covers research on the digital transformation of the financial sector, the impact of FinTech on banks' operational efficiency, AI scoring models, as well as the specific challenges of technology adoption in developing economies. This step made it possible to refine the conceptual apparatus, delineate the theoretical framework, and record existing knowledge gaps.

Case study: to empirically test the theoretical propositions and demonstrate the practice of implementing automated solutions in an emerging market context, the method of in-depth analysis of a specific case is used. The case examines the experience of developing and implementing in-house software, a credit assembly line, in one of the leading microfinance organizations in Bishkek, Kyrgyzstan. The analysis covers the entire project cycle-from the creation of a new mortgage product and an automated solvency

assessment system to the achievement of the planned indicators for the loan portfolio. This approach ensures a transition from abstract reasoning to concrete empirical data, showing how general challenges and opportunities are realized in real business practice.

The combination of the specified methods and sources ensures the integrity and objectivity of the study, organically linking theoretical analysis with practice-oriented examples and current market data.

3. Results and Discussion

Analysis of the markets of the United States and the European Union demonstrates two fundamentally different regimes of innovation and regulation in the field of microcredit. These divergences set specific conditions for the design and operation of automated credit pipelines, determining their goal setting, architectural choices, and market effects.

The American segment represents a highly competitive, technologically mature ecosystem in which fintech is tightly integrated into everyday user practices. As of 2024, 88% of U.S. residents actively use services of FinTech companies [6]. Here, the pace of updates is driven less by the regulator than by intense rivalry among traditional banks, neobanks, and numerous fintech startups.

A key distinguishing feature of the American approach is the primacy of advanced technologies, above all artificial intelligence and the analysis of alternative data (digital footprint, behavioral metrics) for assessing creditworthiness. This ensures both a drastic reduction in decision times and an expansion of access to services for groups that are weakly covered by traditional credit bureaus [5]. An additional impulse is created by the trend of embedded finance, in which credit products are incorporated directly into nonfinancial platforms (for example, marketplaces), increasing demand for flexible and high-speed automated credit pipelines. The regulatory environment, despite its multi-layered structure-a combination of federal norms (including, for example, the Truth in Lending Act) and state requirements-generally follows technological innovations rather than anticipating them [18]. As a result, the U.S. market is described as a technology-first model: innovations set the trajectory, and regulation adapts to the changed practices.

The European market, by contrast, is more fragmented and largely determined by regulatory frameworks. The foundational instrument is the EU Consumer Credit Directive (CCD), which harmonizes key elements of consumer protection across all Member States [18].

A key feature of the European configuration is the dominant role of nonbank microfinance institutions (MFIs), which act as the main providers of microloans and are often removed from full banking supervision [19]. Their activity is understood not only as commercial, but also as an instrument of public policy aimed at reducing poverty and supporting entrepreneurial activity. The European Union purposefully strengthens this segment

through specialized initiatives, such as InvestEU, which set formal parameters for microcredit (at present the upper loan limit is up to 50 000 euro) and emphasize the mandatory provision of nonfinancial support for borrowers-consulting and training [19].

Such an architecture generates a different logic for automation. The credit conveyor in the European context is intended not only to ensure speed and operational efficiency, but also to serve as an instrument of social inclusion, which imposes additional requirements on algorithms and business processes. Thus, the European

model appears as policy-oriented: social objectives and consumer protection structure the market and determine the trajectories of technological development.

This fundamental divergence is directly relevant for developing economies, including Kyrgyzstan. Regulators and market participants face a strategic dilemma: whether to follow the U.S. paradigm, which stimulates rapid innovation at the cost of heightened market volatility and increased social inequality, or to prefer the more structured European path, which may slow technological dynamics but provides a more robust system of social protection.

Table 1 presents a comparative characterization of approaches to microcredit in the United States and the EU.

Table 1: Comparative characteristics of approaches to microcredit in the United States and the European Union (compiled by the author based on [6])

Parameter	United States of America	European Union
Key driver	Market competition, technological innovation	Regulatory mandates, social policy objectives
Regulatory environment	Decentralized (federal laws + state laws), reactive	Harmonized (EU directives), proactive, with a focus on consumer protection
Dominant players	FinTech companies, neobanks, traditional banks	Nonbank MFIs, cooperative and savings banks
Technological focus	AI-based scoring, alternative data, embedded finance	Process automation, digital platforms for integrated services (credit + support)
Definition of microcredit	No clear formal definition; determined by the market	Formally defined (up to 50 000 euros), linked to support for micro-enterprises
Role of the state	Limited, primarily supervisory	Active, support through funds and programs (for example, InvestEU), standard-setting

The implementation of an automated credit conveyor system exerts a pronounced and quantitatively verifiable effect on the operational activities of financial institutions. The migration of predominantly manual procedures to a fully or partially automated digital flow leads to a substantial increase in key performance indicators without expanding the resource base.

The effectiveness of the credit conveyor is appropriately measured through a set of metrics commonly accepted in the lending business, reflecting processing speed, unit costs, and the quality of decisions made.

Average cycle time. This is the indicator most sensitive to automation, capturing the interval from application submission to loan disbursement. In the manual paradigm, the stages of document collection, data verification, and underwriting extend from several hours to several days; the automated conveyor reduces this horizon to minutes, dramatically improving the client experience and strengthening the institution's competitive position [20].

Unit processing cost. Automation reduces operating expenses by lowering the labor intensity of manual underwriting, verification procedures, and document workflow. The decline in this indicator is directly transmitted into growth in the margins of credit products [20].

Approval ratio. Calculated by the following formula:

$$\text{LAR} = (\text{Number of approved loans} / \text{Total number of applications}) \times 100\% \text{ (1);}$$

The impact of automation can be multidirectional: the standardization of rules and the improvement of scoring accuracy strengthen the filtering of weak applications and can potentially reduce LAR; at the same time, the use of alternative data sources expands coverage of previously underbanked segments and can increase LAR [21].

Default rate (LDR) / nonperforming loan ratio (NPL). The quality of risk assessment is critical. The use of AI models that analyze hundreds of features and identify nonlinear relationships provides a more accurate calibration of credit risk. This should reduce the frequency of defaults and strengthen the long-term resilience of MFOs. Formula:

$$\text{LDR} = (\text{Number of loans in default} / \text{Total number of loans issued}) \times 100\% \text{ (2);}$$

Operational efficiency ratio (OER). Defined as

$$\text{OER} = (\text{Operating expenses} / \text{Operating income}) \times 100\% \text{ (3);}$$

It serves as an integral measure of cost controllability. The launch of a credit conveyor directly contributes to a reduction in OER by automating repeatable operations [21].

Net interest margin (NIM).

$$\text{NIM} = (\text{Interest income} - \text{Interest expenses}) / \text{Average interest-earning assets} \text{ (4);}$$

A reduction in operating costs and a potential decrease in

credit losses due to higher-quality scoring have a positive effect on NIM, increasing the overall profitability of the organization [21].

Empirical studies confirm these theoretical expectations: despite initial capital investments, digital transformation

over the long horizon improves the operational performance and profitability of banking institutions [13].

To illustrate the effects of automation, it is appropriate to employ relevant visualizations (Figure1).

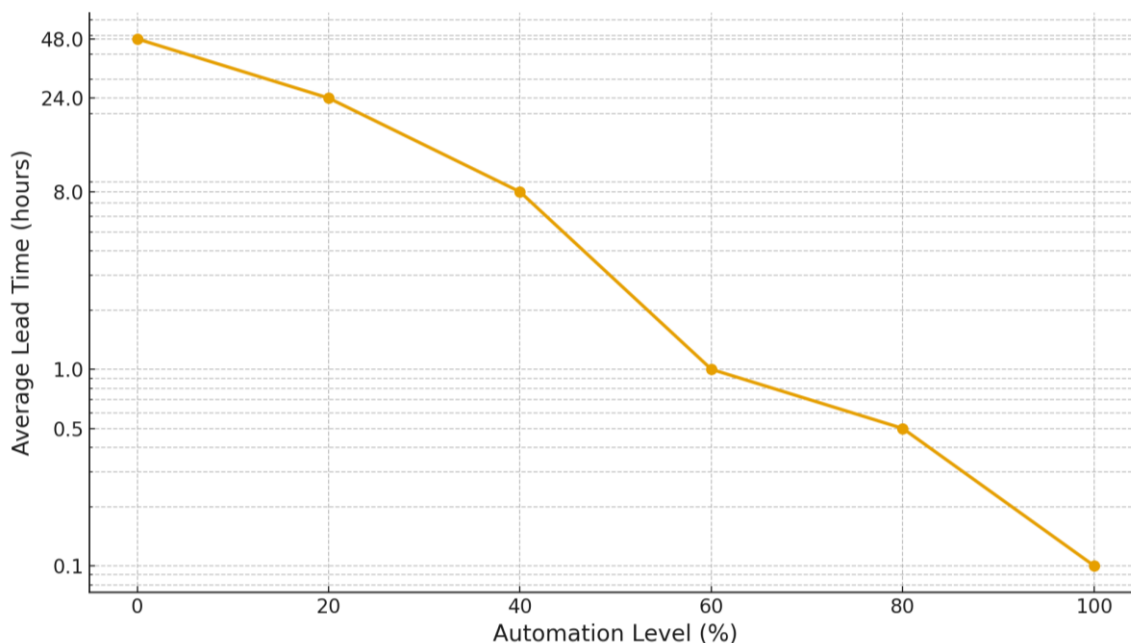


Figure 1: Modeling of the relationship between the level of automation and the decision-making time (compiled by the author based on [12-14; 22])

On the chart (Figure 1) a theoretical scheme is presented demonstrating the exponential decline in credit application processing time as the level of automation increases. The sequential transition from fully manual procedures to the use of basic scoring models, and then to an integrated AI-

based credit assembly line, leads to a radical compression of time costs-from tens of hours to mere minutes.

The diagram shown in Figure 2 demonstrates how, in MFOs, operating expenses are reallocated and reduced.

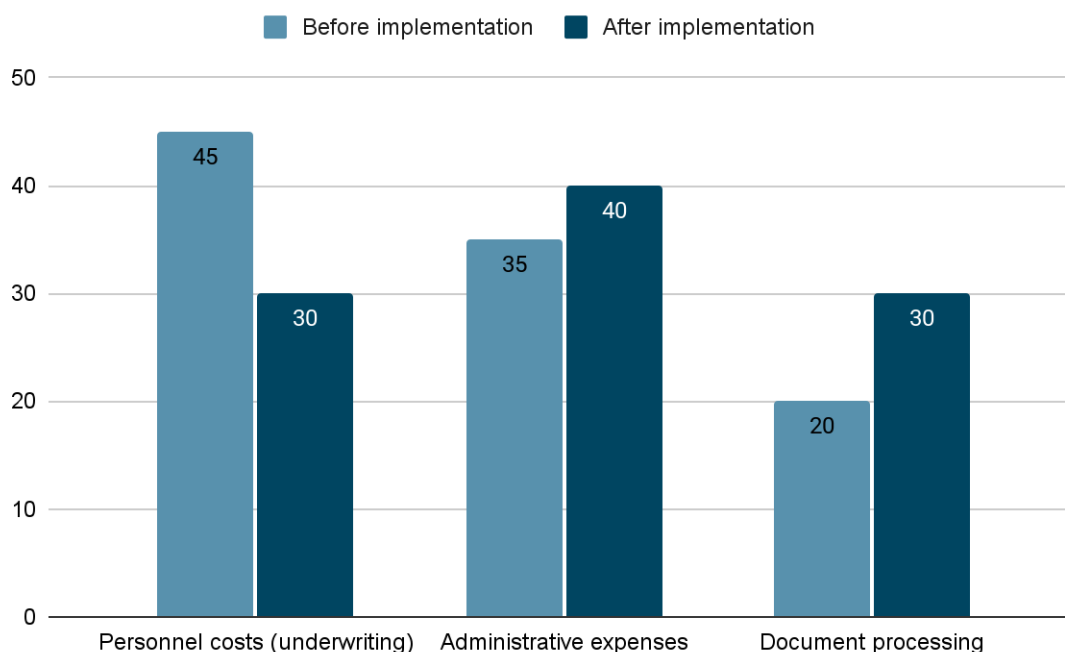


Figure 2: Comparative analysis of the structure of operating expenses before and after the introduction of the "credit pipeline" (compiled by the author based on [3]).

The most pronounced reduction pertains to the line item Personnel costs (underwriting and verification), because these operations are to a significant extent shifted to automated workflows. Administrative expenses are additionally reduced, due to the abandonment of paper-based document management.

The shift from analyzing mature markets to considering the Kyrgyz context requires carefully aligning conclusions with the features of the local macroeconomic configuration, technological infrastructure, and social fabric. Global trends provide a useful lens; however, in a developing economy their implementation encounters specific constraints while simultaneously illuminating alternative development trajectories.

The microcredit market in Kyrgyzstan is undergoing a phase of accelerated expansion. By the end of 2024, disbursements reached 65 billion soms, and the borrower base exceeded 1 million people, reflecting a 28.4% increase in volume and a one-and-a-half-fold expansion of the client base relative to 2023 [16]. The structure of demand shows the dominance of consumer lending (about 54%), with significant shares of financing in agriculture (19%) and trade (12%) [16]. This configuration-particularly the pronounced concentration in the mass consumer segment-objectively favors the introduction of technological solutions capable of swiftly and reliably processing large arrays of standardized applications.

Market dynamics are unfolding against the backdrop of an active government digital agenda. The approval of the Concept of Digital Transformation of the Kyrgyz Republic for 2024–2028 and the implementation of the Digital CASA project with the participation of the World Bank enshrine a strategic choice in favor of a digital state [17]. The stated targets-the digital first principle, integration of state information systems, and elimination of paper duplication-shape an institutional environment conducive to the scaling of FinTech tools, including the building of credit assembly lines.

At the same time, favorable trends coexist with heightened investment risk driven by vulnerabilities in public governance and limited predictability of law enforcement [15]. It is precisely this dual logic-rapid growth amid systemic institutional costs-that defines the framework conditions for the operations of local microfinance institutions and sets requirements for their technological and managerial strategies.

The deployment of highly complex AI solutions in the Kyrgyz context is associated with narrowly specific challenges that are either absent or manifest substantially more weakly in the mature markets of the United States and Europe.

A key vulnerability lies in the absence of a specialized regulatory framework addressing the use of AI in the financial sector. As a result, a legal vacuum emerges in the allocation of responsibility for algorithmic errors, in the prevention of discrimination stemming from algorithmic bias, and in ensuring the transparency (explainability) of

system decisions. Operating black boxes under indeterminate rules amplifies operational and reputational risks for MFIs [8].

The effectiveness of classical scoring models based on credit files in Kyrgyzstan is fundamentally constrained due to the scale of the informal economy [8]. A significant share of potential borrowers lacks a formal financial history. Although leveraging alternative data sources (mobile operator data, traces of transactional activity, etc.) appears promising, practical implementation is hindered by weak technological infrastructure, insufficient interoperability of information systems, and low levels of digital literacy among segments of the population [7].

As noted earlier, the accelerated expansion of microcredit in Kyrgyzstan is associated with the risk of excessive household debt burdens [12]. Under these conditions, the deployment of systems oriented toward maximizing the speed and volume of loan disbursement, without embedded ethical constraints and without mechanisms for assessing debt sustainability, may exacerbate existing social tensions.

An analysis of the implementation practice of a credit conveyor in one of Bishkek's MFIs shifts the discussion from a catalog of difficulties to a demonstration of feasible solutions. Within the case, a new loan product Mortgage was designed and brought to market, in-house credit-conveyor software was deployed, and an automated system for assessing client solvency was created. The key outcome was resilience: year after year, the company meets its planned benchmarks for the volume and quality of the loan portfolio.

This experience illustrates not a mechanical transfer of Western practices but their deep adaptation to the local institutional environment. Although systemic constraints-above all, the shortage of high-quality data-are objectively present, the successful implementation of the project demonstrates their surmountability. The proprietary automated solvency system served as a response to the limited applicability of standard scoring models: the emphasis shifted from searching for ideal data sets to developing algorithms that operate reliably on the available, albeit fragmentary, information.

The launch of a product as complex as mortgages on a new technological foundation serves as an indicator of its reliability and flexibility: the system is capable of processing both small consumer loans and large long-term liabilities with equal efficiency. The ultimate business effect-meeting planned targets-empirically confirms the effectiveness of the implementation, linking the hypothesized theoretical gains in operational efficiency to measurable business growth.

Therefore, the main lesson of the case is that in emerging markets what matters is not the degree of advancement of imported technologies but the quality of their adaptation and customization. The strategic priority should shift away from acquiring the most expensive foreign systems toward building internal expertise-training data analysts and IT

specialists capable of designing solutions relevant to the local context.

The presented diagram (Figure 3) depicts the architecture of the credit assembly line designed with the conditions of emerging markets in mind, above all data incompleteness

and fragmentation. Its central components are a module for aggregating alternative data sources and predefined threshold values at which borderline cases are subject to mandatory manual review, thereby minimizing the likelihood of erroneous automated verdicts.

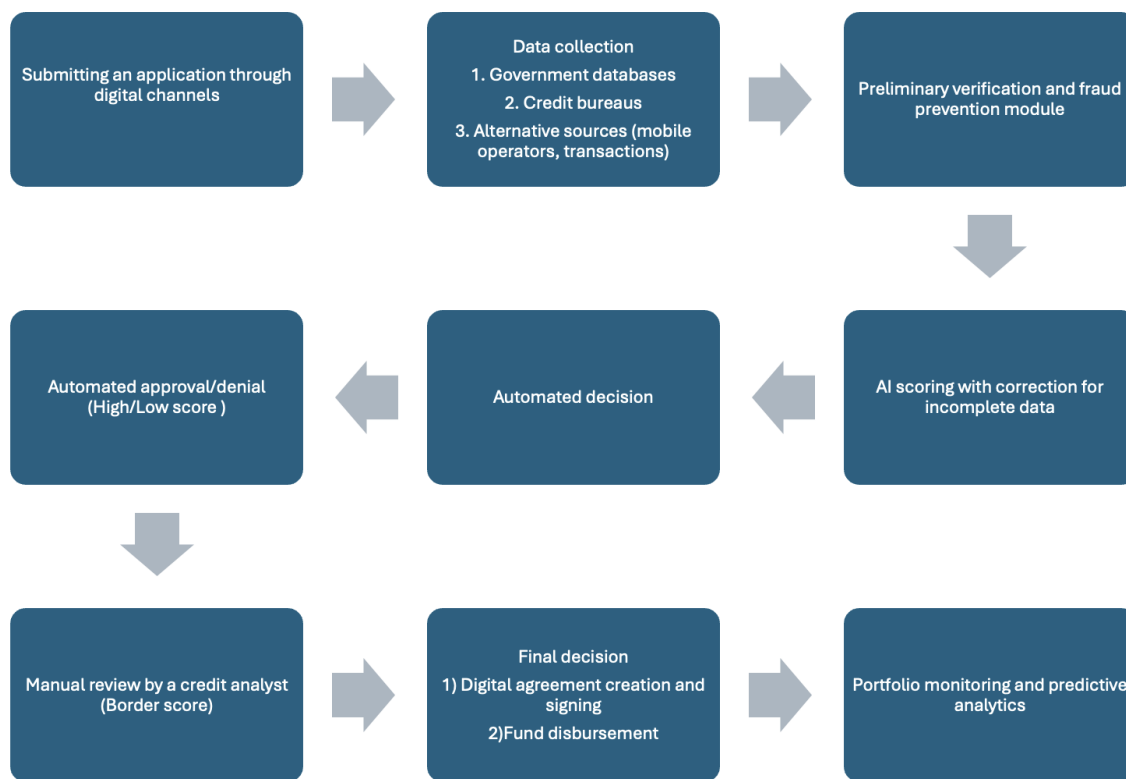


Figure 3: The conceptual model of the functioning of the "credit pipeline", adapted for emerging markets (compiled by the author based on [4, 10, 13]).

Further, Table 2 will present a matrix that serves as an instrument for structuring key risks and formulates applied

measures for their mitigation, effectively functioning as a roadmap for MFOs at the stage of planning automation.

Table 2: Risk matrix and mitigation strategies for the implementation of the credit conveyor in Central Asia (compiled by the author based on [7]).

Risk category	Risk description	Potential impact	Mitigation strategies
Technological	Insufficient reliability and quality of alternative data. Integration and interoperability issues across systems.	Malfunction of scoring models, increase in defaults. Operational disruptions, rising costs.	Use hybrid models (data + expert rules). Implement open APIs. Phased integration.
Regulatory	Lack of dedicated legislation on AI and data protection. Uncertainty regarding liability.	Legal risks, regulatory fines, reputational losses.	Proactive engagement with the regulator. Development of internal ethical codes and standards.
Ethical/Social	Algorithmic bias and discrimination against specific population groups. Risk of rising over-indebtedness.	Social tension, diminished trust in MFIs. Deterioration of loan portfolio quality in the long term.	Regular audits of models for bias. Adoption of explainable AI (XAI). Incorporation of the debt burden ratio (PTI) into scoring.
Operational	Shortage of qualified personnel (data scientists, IT specialists). Resistance to change among staff.	Errors during development and deployment. Sabotage of new processes, reduced productivity.	Investment in staff training and development. Awareness-raising, engaging employees in the transformation process.

Thus, the credit conveyor-not merely a technological module, but a complex sociotechnical system whose efficiency and safety are determined by its ability to integrate organically into the specific economic, regulatory, and social landscape.

4. Conclusion

The study conducted makes it possible to formulate a set of key propositions that refine and empirically support the proposed hypothesis, as well as indicate the applied value

of the results for various stakeholders in the financial market.

The introduction of automated credit assembly lines acts as a stable driver of growth in operational efficiency and acceleration of decision-making in microcredit. Regardless of country-specific and macroeconomic context, automation leads to statistically documented improvement in KPIs: the application processing cycle shortens, transactional and administrative costs decrease, and the quality of credit risk management improves.

While the basic advantages are general in nature, the trajectory of implementation, system architecture, and resulting socioeconomic effects are substantially determined by local conditions. Three distinct paradigms are identified:

- 1) US model: Dominance of technological competition and focus on innovative scoring practices with a priority on maximal speed.
- 2) EU model: Prevalence of regulatory-political logic, emphasis on consumer protection and the achievement of social inclusion objectives.
- 3) Kyrgyzstan model: High expansion potential amid systemic vulnerabilities; the key to success lies not in direct import of solutions but in deep adaptation of technologies to data scarcity and regulatory uncertainty.

Mechanical transfer of credit assembly lines from mature jurisdictions to developing economies proves both ineffective and risky. The result demonstrated in the Bishkek case study was achieved through the development of a custom methodology for assessing creditworthiness that is robust to data incompleteness and heterogeneity. This confirms that, for developing markets, investments in building in-house expertise and constructing adapted models are more of a priority than acquiring the most advanced off-the-shelf technologies.

The results fully confirm the author's hypothesis: the credit assembly line is a powerful instrument for improving efficiency. At the same time, it is established that the scale of the effect and the accompanying risks-ethical, regulatory, operational-directly depend on the maturity of the regulatory environment, the quality and availability of data, and the level of digital culture. Consequently, successful implementation in countries comparable to Kyrgyzstan requires not copying but creative redesign and adaptation of the technology.

The conclusions obtained have high practical significance:

- 1) For MFI executives: The presented conceptual model of an adapted credit assembly line (Figure 3) and the risk matrix (Table 2) serve as applied instruments for planning and managing automation projects. The key recommendation is to shift the focus from procuring ready-made platforms to developing internal competencies in data analytics and IT engineering.
- 2) For regulatory authorities: The results demonstrate the urgent need to establish a national regulatory framework

for the use of AI in finance. Regulators in developing countries should balance pro-innovation conditions with stringent requirements for algorithmic transparency, protection of personal data, and prevention of discrimination in the interests of the consumer.

- 3) For the academic community and international organizations: The work expands understanding of digital transformation in heterogeneous economic contexts and lays the foundation for subsequent research. Promising directions include analysis of the long-term impact of automation on household indebtedness dynamics and the development of audit procedures for AI models with respect to social fairness and ethics.

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