

SECURING A BROKEN LENDING SYSTEM

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CURRENT SCENARIO

The lack of participation of general people specially from people of marginal and underprivileged communities and the lack of accountability in the lending process leading to corruptions and inefficiencies are the barriers of building a strong sustainable financial system

86%

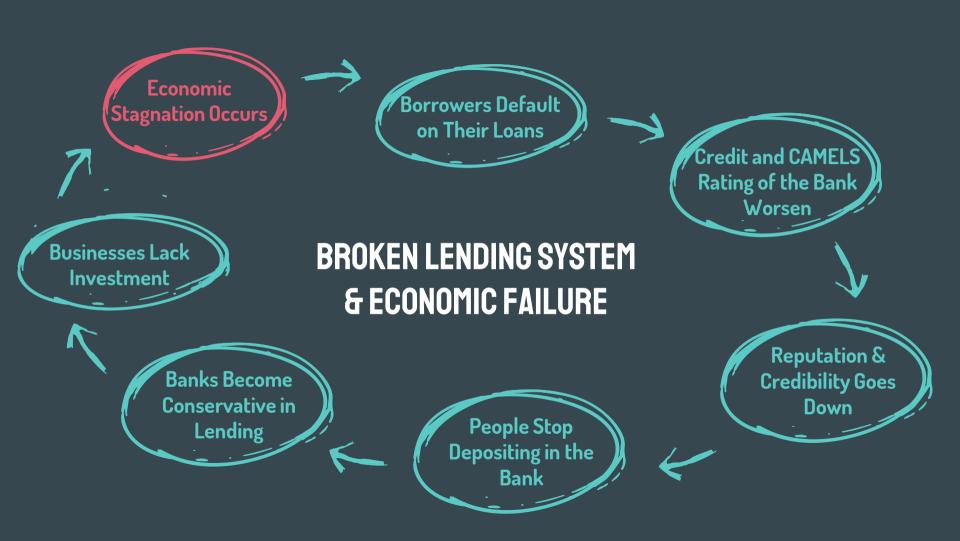
RURAL POPULATION WITHOUT ACCESS
TO FORMAL CREDIT SYSTEM

2401.67

BILLION BDT IN DEFAULT LOANS ACCORDING TO IMF

417%

GROWTH OF NON-PERFORMING LOANS IN LAST IO YEARS



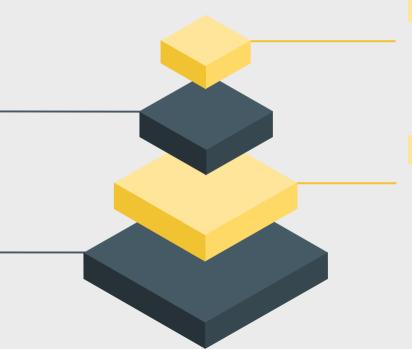
PROBLEMS

NO STANDARD EVALUATION SYSTEM

No standard way of determining the integrity of a borrower and likelihood of default

LACK OF COOPERATION

Banks have no trustworthy way to share data for mutual benefit without harm



BROKEN ASSET MANAGEMENT SYSTEM

Most assets are verified manually for irregularities which is very inefficient and error-prone

BAD GOVERNANCE AND CORRUPTION

No framework in place to detect and hold people accountable which leads to widespread corruption

STAKEHOLDERS



BORROWERS

Individuals or businesses who take loan showing some of their assets as collaterals



LENDERS

Banks who lend borrowers loans against those collaterals based on certain conditions



ISSUERS

Land Registry, National Board of Revenue and other offices who issue documents that verify the ownership of those collaterals,



REGULATORS

Government representatives like Bangladesh Banks who monitor the lending practices, quality of loans and likelihood of defaults



SOLUTIONS

ASSET DOCUMENTATION & VERIFICATION



Issuers can document assets and verify them at borrowers request

CREDIT HISTORY SHARING



Banks share credit history of borrowers to assess credit worthiness

BLOCKCHAIN



DATA IMMUTABILITY

Asset data can be signed and recorded by owner and registry and there after remain safe from external influence

DISTRIBUTED DATA SHARING

Banks can share credit history of borrowers with other banks to establish credit worthiness of borrowers

ENFORCE TRANSPARENCY

Regulators are able to monitor the banks and their lending practices and hold them accountable if they don't follow proper standards

Participate in the lending process using collaterals and return dues timely Issue digital documents against assets and let borrowers verify their ownership

Issue loans against collateralized assets, record loans and share credit history with banks and regulators

Responsible for monitoring banks and their lending practices, prevent defaults and hold participants accountable

NCENTIVES

BORROWER



ISSUER



BANK



REGULATOR

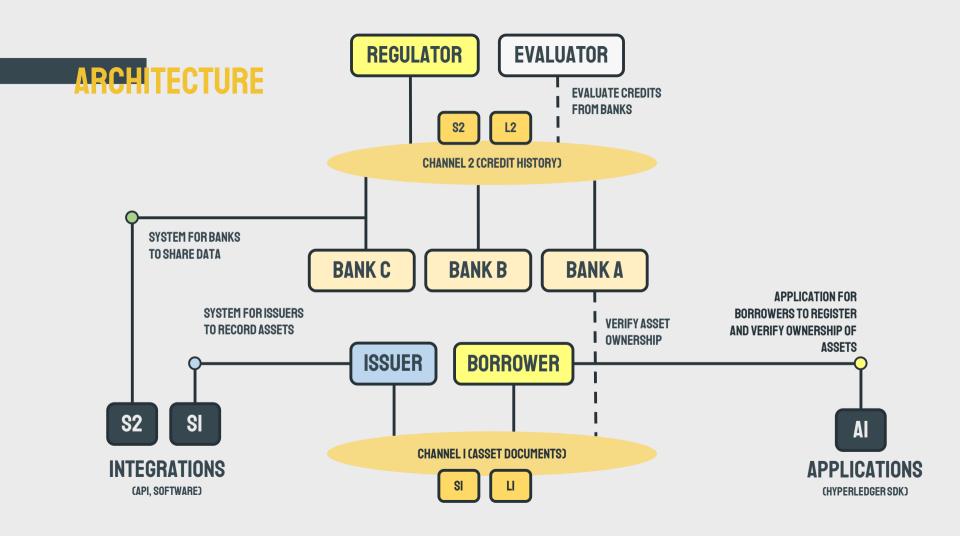


Get standard credit rating from the system and also verifiable immutable records of assets

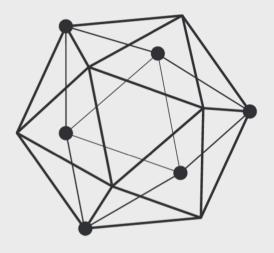
Digital immutable documents will reduce their operational costs significantly and also protect them from external influence

Reduce the number of nonperforming loans by issuing loans against credit-worthy borrowers following proper lending practices

Economic growth from reduction of defaults. restoring the reputation of banks and encouraging investors to invest again



HYPERLEDGER FABRIC



PERMISSIONED BLOCKCHAIN

Allow private data channels to ensure privacy and access control features to restrict some participants from changing sensitive data

MATURE ECOSYSTEM

Having a wide ecosystem of developers and backing of big tech companies and open source foundations like the Linux Foundation and IBM

CROSS-DOMAIN ENTERPRISE APPLICATIONS

Tried and tested for use cases like asset documentation-verification and enterprise data sharing among cross-domain entities

ASSET DOCUMENTATION

Issuer documents assets to establish ownership

D2 BORROWER APPLIES FOR LOAN

Borrower applies for loans against those collaterals

LENDING PROCESS

BANK VERIFIES COLLATERAL

Bank verifies collaterals via digital certificates

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VERIFY CREDIT WORTHINESS

Other banks can verify integrity of borrower from credit history

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BANK RECORDS
TRANSACTION

Bank records loans on the ledger and shares them with others

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REGULATOR MONITORING

Regulators monitor these loans and holds banks accountable

ACTION PLAN

List banks currently most vulnerable to corruption



Work with 3 registries to digitize their assets to certify ownerships



Evaluate the interactions between borrowers, issuers and lenders and improve governance structure





Conduct a survey into the common types of collaterals and their registries



Work with a bank to create a system to verify collaterals and track loans on the blockchain



Onboard new banks into our network to allow secure data sharing

BUSINESS ANALYSIS

STRENGTHS

Ability to work on improving efficiency and collaboration without major systemic or policy changes





WEAKNESSES

Lack of existing collaborative mindset between diverse organizations

Government initiatives to digitalize public services and emergence of new blockchain technologies





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Partners may face technical difficulties and may be unwilling to continue with the project

THREATS

VISION AND MISSION

PEOPLE

Individuals get the ability to verify ownership of their assets and get access to a standardized credit rating system



GOVERNMENT

Government will have a lot more oversight over the government banks and enforce secure lending practices which will make the system more accountable



Thank you!