Abstract

Growr is an open, fair and sustainable lending protocol on top of Bitcoin. Growr enables institutional and individual investors to fund lending pools according to their risk/reward appetite, and borrowers to apply for and receive unsecured or partially secured loans. It enables financial inclusion globally through **fair and instant unsecured loans**based on a **self-sovereign identity** and **decentralized risk management**.

Financial health metrics are combined with additional off-chain data and on-chain loan reputation to create a new type of decentralized identity that we call the Self-sovereign Financial Identity. It contains verifiable credentials from different sources and is presented in front of lending pools to assert creditworthiness. For its part, the lending part of the protocol operates on 2 levels. Global lending pools are funded by large investors who then delegate the actual lending activity to local guilds having their local lending ponds.

By building Growr, we are addressing significant global challenges such as access to financial services at fair conditions, gender inequality and bad financial health. Bringing true value to all protocol participants, Growr could be a catalyst for the next wave of exponential adoption of DeFi ecosystem and in particular RSK network.

Protocol Overview

Problem

Financial health is an important factor in our daily life. However, bad financial health is plaguing the world. More than half of the global population is living paycheck-to-paycheck without any savings (link). In addition, almost 2 billion adults in the world do not have access to financial services (link) or if they do, they fall prey to financial sharks and receive loans at a very high interest rate. Moreover, there are still 72 countries where women from specific social groups do not have the right to open a bank account or obtain credit (link).

At the same time, even people who have savings in cash or in a bank account are also impacted. On the one hand, macroeconomic events, such as high inflation, are literally "eating their money" and on the other hand, they are not able to acknowledge the disruptive change that is happening to the financial system.

Today, most financial service providers do not solve those problems. They are clueless about people's real-life problems, needs and aspirations. There's a complete disconnect between the person and the provider. Banks, and even more so non-banking lenders, have a negative image especially with younger generation, who, as a result, are more likely to go to the dentist than visit a bank.

Solution

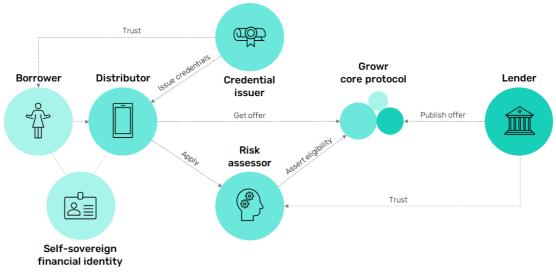
We propose the **Growr protocol** as a bridge to a new global financial environment. The Growr protocol combines instant unsecured loans, innovative credit assessment models, decentralized identity and financial health incentivization.

To addresses the problems stated above, the protocol implements at its core the following concepts:

- Borrowers collect credentials based on alternative data into their own self-sovereign financial record.
 This provides even unbanked and traditionally excluded population with access to loans with fair conditions.
- 2. **Lenders** use these borrowers' credentials to better assess creditworthiness. They are able to apply flexible local risk policies such as social vouching or savings discipline.
- 3. **Trusted parties** (financial providers, merchants, employers, NGOs) are incentivized to provide credentials for the borrowers.
- 4. **Global investors** provide funds to a global marketplace to generate yield on excess capital. They receive flexibility in defining their risk/reward preferences and end-to-end transparency in their capital allocation.

How it works

Below is a high-level overview of Growr protocol architecture:



The key components of the protocol are:

- **Growr core protocol** a decentralized smart contract ecosystem for funding and consuming loans on top of blockchain, with open access for everyone.
- **Self-sovereign financial identity (SSFI)** a digital identity, based on W3C's DID and VC standards, owned and managed by the user, and storing their credentials.
- Web and mobile applications for protocol access (often provided by Distributors) a simple and secure way for borrowers to easily apply and obtain fair loans.
- Credit risk assessment a framework for establishing trust including issuing of verifiable credentials, presenting those credentials to risk assessors for verification, and creation of verification record that asserts the borrower's eligibility.
- **Growr DAO** a future decentralized autonomous organization for protocol governance and fair compensation of trusted protocol contributors.

Key Concepts

Decentralized identity

DIDs

Growr protocol implements W3C's standard for decentralized identity (DID). DID is a new type of identifier that enables verifiable, decentralized digital identity. DIDs are URIs that associate a DID subject (e.g., a person, organization, thing, data model, abstract entity, etc.) with a DID document allowing trustable interactions associated with that subject. DIDs have been designed so that they may be decoupled from centralized registries, identity providers, and certificate authorities. Specifically, while other parties might be used to help enable the discovery of information related to a DID, the design enables only the controller of a DID to prove control over it without requiring permission from any other party.

VCs

Growr protocol implements W3C's standard for **Verifiable Credentials (VCs)**. Verifiable Credentials (VC) are global uniformed provable claims associated with the subject of the DID. They are cryptographically secure, privacy respecting, tamper-evident and machine verifiable. They can be used to build universally verifiable presentations, which can also be cryptographically-verified.

Verifiable credentials are provided by **Credential Issuers** – that is, centralized or decentralized third parties, asserting certain facts about the DID owner. Verifiable credentials are consumed by **Verifiers** using the concepts and data models for **presentation exchange**. Verifiers verify that:

- The credential presentation is signed with the subject's DID.
- The credential is signed by a trusted Issuer.
- The credential is not expired.
- · The credential is not revoked.

Growr's Self-sovereign financial identity

The Growr protocol relies on a new type of decentralized identity that we call the **Self-sovereign Financial Identity (SSFI)**. The SSFI is intended to represent user's unique global identity and to store various protocol-specific verifiable credentials, coming from various sources such as on-chain activity, trusted off-chain data, peer vouching, and others.

Verifiable credentials can be (but are not limited to):

- *KYC* credential. This credential proves successfully passed KYC process (including AML/CFT risk check) and can be issued by any last-mile provider or a third-party traditional identity verification service.
- *Financial Data* credential. This credential contains various financial data of a user (such as products and transaction history) and can be issued by any financial institution.
- Savings History credential. This credential proves that the user is making regular micro-payments to his
 saving account. It could be issued by any trusted financial institution (where the user has a saving
 account) or trusted financial data processing service (to which the user provides account statement
 information).
- *Financial Health* credential. This is a special credential issued by trusted services for successfully passed "financial health treatment" through education and/or mentoring.
- *Credit Score* credential. This is a "combined" credential, summarizing other atomic credentials, and representing the overall credit score of the Borrower.

- *Social Vouching* credential. This credential is received by endorsement from other protocol users, who have certain reputation level and/or are trusted by the protocol.
- Loan History credential. This is a credential, issued by the protocol itself and is earned through regular on-time repayments of past loans received by the protocol.

Decentralized lending

Lending protocols

Decentralized Finance (DeFi) have the potential to fundamentally reinvent the financial infrastructure enabling people to transact with each other globally, securely and permissionless. Important share in the DeFi ecosystem is taken by decentralized lending protocols and liquidity markets.

Decentralized lending protocols let users lend or borrow digital assets without going to a centralized intermediary. Users deposit digital assets into liquidity pools, which become funds that the protocol can lend out to other users. A specific characteristic of the most popular protocols is that they require a collateral. This means that onchain assets of the borrower are used to secure a loan. The borrower provides the asset to secure the loan, and if the borrower defaults on the loan, the lender can take possession of the asset and sell it to cover their loss. Moreover, they often require overcollateralization i.e. the amount of locked assets as collateral exceeds the loan amount.

Growr's Decentralized risk management

Growr protocol approaches lending differently. The protocol aims at providing instant insecure loans based on risk assessment instead of requiring an on-chain collateral. How it works? Borrowers collect credentials into their own private financial record, Lenders use these credentials to better assess creditworthiness, and Trusted parties are incentivized to provide the credentials.

Smart contracts are usually not technically capable and economically practical at executing credit risk assessment operations themselves, and they cannot call upon external risk assessment services beyond the constraints of their own chain. Therefore, the credit risk assessment, the exchange and verification of credentials are all executed off-chain and then confirmed on-chain in a way that no personal data is stored on-chain.

Growr protocol introduces an innovative approach for decentralized credit risk management, in which the responsibility is split between all protocol participants:

- Credential Issuers assert facts about the borrowers in the form of credentials.
- Credential Verifiers validates the credentials.
- Risk Assessors orchestrate the risk assessment activities and asserts borrower's eligibility to receive a
 loan.
- Trusted Registries validate that credentials are issued by trusted issuers and risk assessments are prepared by trusted risk assessors.
- *Smart Contracts* take decision based on the input from the above-mentioned risk management service providers.
- *Protocol Governance Board* decides which participants are trusted and excludes the ones that misbehave.

Each participant is incentivized by the protocol to fairly fulfil its duties, as follows:

- With positive behavior in terms of regularly repaid loans, Borrowers increase their credit risk score. And better risk score translates to better lending conditions - increased amount limit and decreased interest rate.
- Trusted parties (*Credential Issuers* and *Risk Assessors*) receive a fee for the services they provide. In case of poor execution of their risk management function, the respective participant is blacklisted from the protocol. In addition, risk management service providers might be required to stake protocol tokens as a guarantee for their fair participation.
- Lenders and Liquidity Providers distribute part of the profit with all participants to motivate them to
 properly execute their risk management functions in order to decrease their cost of default and
 respectively to increase their profit.

Growr's 2-level pooling

The Growr protocol is able to operate on 2 levels – global pools and local ponds. Global pools are funded by Liquidity Providers who then delegate the actual lending activity to local guilds with local lending ponds.

A lending pool can be created by any institutional investor with enough capital who specifies the initial pool parameters. Liquidity Providers can safely deposit funds into lending pools according to their preferences and based on automatic vetting using their own SSFI and Verifiable credentials, e.g., applicable AML/CFT checks, required by the pool creator.

Lending ponds are created by local lenders. Different lenders have varying levels of risk tolerance, depending on the laws and regulations in their jurisdictions, as well as on their profit goals. Therefore, each pond can have its own parameters (such as loan amount and duration), rates and eligibility criteria.

Local ponds apply for funds from the pool resulting in so called "contract-to-contract (C2C) lending". Based on the Pond utilization, a Pond smart contract can automatically apply to a Pool smart contract for a loan (up to the approved credit limit). Depending on the pond financing period, fund requirements, proposed risk model and eligibility criteria, the pool owner decides to approve (i.e., to whitelist the Pond address in the Pool smart contract) or not the funding to the pond. The Pond is required to regularly repay the interest fee to the Pool. Depending on the configured utilization threshold, the Pond can repay partially or fully the loan to the Pool smart contract.

Therefore, the protocol implements automatic pond liquidity management. Moreover, in some of the future protocol versions, we envision integration with lending pools of other liquidity protocols.

Financial health

Financial health dimensions

Dealing with money, especially borrowed from others, requires knowledge and high responsibility. That's why it is very important that everyone gets a financial health treatment for long-term improvement of their financial health. It's not about a single transaction, but achieving more throughout people's lives, and ultimately reaching a better lifestyle and financial independence.

Financial Health treatment includes building knowledge and proper habits in 4 financial dimensions:

- *Spending*. The Spending dimension is measuring how well people are balancing between the money they earn and the money they spend. Surprisingly, even people who earn a lot can spend their income without thinking too much. As a result, they live a paycheck-to-paycheck lifestyle, which prevents them to follow their dreams. Budgeting is a powerful tool!
- Savings. The Saving dimension shows how people are doing in terms of putting some money aside.

 Many people do not understand where to keep their money in order to protect it from inflation and other dangers that may prevent it to keep its value over time. Savings take people's financial life in their hands!
- Borrowing. The Borrow dimension demonstrates how well people are able to manage their debt. It
 assesses whether people are debt-free, whether they feel comfortable having a loan, and whether their
 debt is manageable or too much and leading to overdue payments. Debt is not always bad if people
 know how to use it!
- *Planning*. The Plan dimension is perhaps the most important indicator for people's ability to maintain financial health in the long run. Most people do not have a systematic approach to considering two key elements in financial planning potential risks and key life events in the future. Tomorrow starts today!

Growr's incentivization concept

The Growr protocol incentivizes good financial health – that is, improving financial literacy and behaviors.

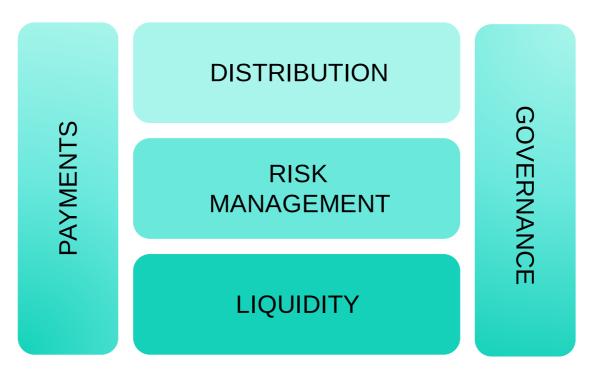
To promote improving financial literacy and behaviors, Growr protocol encourages the implementation and use of the following concepts:

- "Learn and earn"; that is, before applying for a loan, the user must go through education and mentoring program in order to collect credentials for financial health improvement.
- "Goal-based" financing; that is, before applying for a loan, the user must declare a specific goal related to his/her real-life need, and deposit initial savings towards it.
- "Savings discipline"; that is, before applying for a loan, the user must create a saving habit by executing regular micro-payments to his saving account.

Protocol Participants

Protocol Layers

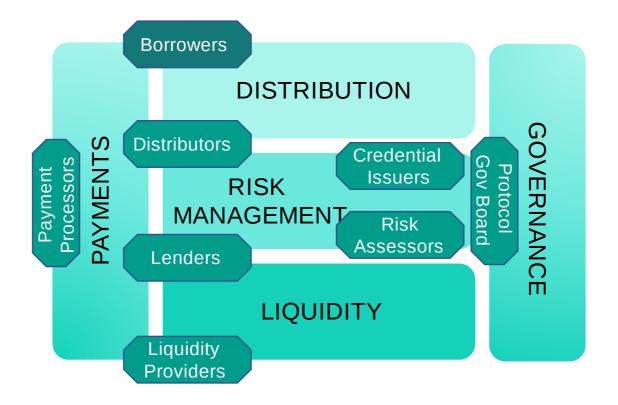
Before reviewing the participants in the protocol and their role, it is important to understand the abstract *layers* of the protocol:



Growr is a DeFi protocol operating on several layers:

- The processes in **Liquidity layer** are related to provisioning of the necessary funds for the protocol operation. Liquidity Providers and Lenders are collaborating on this layer.
- The **Risk Management layer** is the key layer of the protocol, it's the "magic" of the protocol. All processes related to risk scoring and assessment, as well as loan management are happening on this layer.
- The **Distribution** layer covers the processes of onboarding and providing Borrowers with access to the protocol.
- The **Payments** layer combines all payment processes that occurs across all layers.
- The processes for smart contract governance and fraud prevention are covered in the **Governance layer**.

There are different players operating on each protocol layer, as well as between layers. Overview of all participants is presented below:



Borrowers

Borrowers get easy access to fair loans. They apply for funds from ponds with matching risk requirements and repay the funds with added interest and/or fees. Borrowers gradually receive better conditions for positive behavior and improved financial health. They can receive "cash back"-style rewards based on their improved financial health (i.e., regular loan repayment and proof of financial learning), as well as for referral of other well-behaved Borrowers.

Borrowers can access the protocol via a Distributor in custodial model or via a decentralized App in non-custodial model.

Borrowers usually operate on the Distribution layer.

Distributors

Custodial Model

Distributors, or also called **Last-mile Providers** or **Custodial Wallet Providers**, intermediates access to the protocol to a specific group of Borrowers in a custodial model with a simple UX. Distributors can be regulated financial institutions/fintechs, merchants, employers, or others. We envision that some Distributors may even operate as decentralized entities (DAOs). The role of the Distributor is to onboard and vet the users into its own digital means (e.g, a mobile application) and then facilitate access to the protocol. In this model, the user will have their SSFI under the custody of the Distributor.

Distributors usually operate on the *Distribution* layer and interact with *Risk Management* layer. Often, the Distributor might be the same as the Lender. In some cases, they might also have a role in the *Payments* layer.

Non-Custodial Model

The end-user access to the protocol might be also provided in a fully decentralized non-custodial model. In this scenario, the user can access the protocol directly or through an agent wallet (i.e., decentralized web app with connected self-managed SSFI).

Lenders

Lenders facilitates the interaction with the protocol as they create and fund ponds using own funds or by borrowing from global pools. Lenders can be regulated financial service providers, local communities or even governments. They receive yield based on the pond profitability, and the pond yield tend to be higher than the pool yield, rewarding the skin-in-the-game participation of the Lender.

Lenders operate on *Risk Management* and *Liquidity* layers.

Liquidity Providers

Liquidity Providers (LPs) are global institutional investors and high-net-worth individuals (HNWIs) who provide funding to the lending pools in the protocol and then delegate the actual lending activity to the Lenders. Liquidity Providers allocate capital to lending pools and get rewarded with yield based on the pool profitability. Generally, the global pool yield will tend to be lower that the pond yield due to the wholesale lending nature of pools.

Some Liquidity Providers could play a role of **Guarantor** providing first-loss capital and cover for missing credentials certain specific borrower groups (e.g., women, employees, unemployed, community members, companies of a given chamber, etc. Guarantors deposit funds into a Safety Fund, from which certain ponds can claim money in case of payment incidents.

Liquidity Providers operate on Liquidity layer.

Credential Issuers

Credential Issuers serves an important risk management role in the protocol. They are centralized or decentralized third parties (financial providers, merchants, employers, NGOs) that provide **verifiable credentials (VCs)** to Borrowers and other protocol participants. Credential Issuers receive a fee for the credentials they are issuing.

Credential Issuers operate on Risk Management layer.

Risk Assessors

Credit risk assessment is a crucial component of the Growr protocol. Due to the decentralized nature of the protocol, we envision a decentralized credit risk assessment process with several participants in it. A key participant is the **Risk Assessor** who provides a verification result asserting that a given Borrower matches the eligibility criteria of a given pond. For the execution of its service, the Risk Assessor is rewarded with a fee according to its usage. The Risk Assessors could be "owned" by Lenders, Liquidity Providers or Distributors to ensure they can manage their own policies, or could be provided by third parties (even by TradFi players).

Risk Assessors operate on *Risk Management* layer. They are able to play one or several of the roles below.

Credential Verifier

Credential Verifiers consume credential presentations and verify that the credentials are valid i.e. the credentials are issued from trusted Issuer, they not expired and not revoked.

Credit Risk Scorer

In case of a more sophisticated pond eligibility requirements, Risk Assessor might implement a module for additional credit assessment/scoring techniques, including scorecards, ML models, and others. The result of this additional assessment is as a credit score, which is then matched with the pond's credit score requirements. The Credit Risk Scorer could also participate in the protocol as a standalone Credential Issuer.

Credit Risk Reviewer

Risk Reviewers are employed by a Risk Assessor (or the protocol itself) to review a loan application and interview the Borrower in order to generate additional confirmation or vouching credentials used to endorse her/him. The Credit Risk Reviewers could also participate in the protocol as a standalone Credential Issuer.

Payment Processor

Payment Processors facilitates the payment processes in the protocol by providing different off-chain payment services. On the one side, they can provide on-ramp and off-ramp services, and on the other side, they facilitate and settle fiat payments between:

- · Borrowers and Lenders
- Lenders and Liquidity Providers

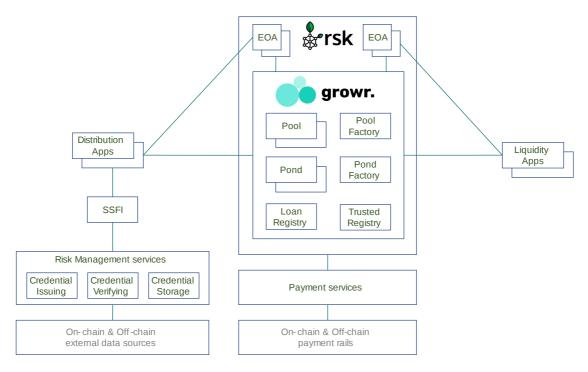
Payment Processors operate on Payments layer.

Protocol Governance Board

For the first version of the protocol, we envision to begin with a more centralized governance. At a later stage, decentralization will be implemented through a governance token that will be progressively airdropped to the most active contributors based on a predefined scheme. The protocol will ultimately be governed by a **DAO**, whose members will be all the protocol stakeholders. Each stakeholder will have voting rights based on their contribution to the protocol development and governance.

Naturally, Protocol Governance Board operates on *Governance* layer.

Protocol Components



Growr protocol ecosystem consists of the following components:

- **Core Protocol**. Growr protocol is a smart contract system for decentralized lending on top of blockchain. Initially, the protocol will be deployed on RSK mainnet (powered by the most secure network Bitcoin) but we envision future multi-chain implementation of the protocol. The Growr protocol consists of set of smart contracts:
 - Pool Factory smart contract. Enables creation of new lending pools.
 - Pool smart contracts. Support deposit & withdrawal operations from its owner, enable ponds to apply for credit lines.
 - *Pond Factory* smart contract. Enables creation of new lending ponds.
 - *Pond* smart contracts. Support deposit & withdrawal operations from its owner, provide loan offers and enable users to apply for loans.
 - Trusted Service Registry smart contract. Supports verification of risk assessment results.
 - Loan Registry smart contract. Registers privacy-preserving history of loan repayment commitments, supports issuing of on-chain verifiable credentials.
- **SSFI**. SSFI is a unique global decentralized identity storing various protocol-specific verifiable credentials. The SSFI is owned and managed by the user, and their data is cryptographically encrypted and stored in a secured storage.
- Protocol Apps. Custodial or non-custodial web and mobile applications, integrated with the protocol.
 Include:
 - Borrowing Apps. End-user web or mobile application for the Borrowers to onboard, collect credentials and apply for loans to the protocol. Such applications can be provided either by an independent last-mile financial service providers in a regulated custodial scenario, by local communities or as completely decentralized dApps providing the necessary access to the protocol.
 - Lending Apps. dApps for lending pools and pond management. Those applications include creation
 of pools/ponds, depositing and withdrawal of funds, and monitoring utilization and profitability
 performance.
 - Governance Apps. dApps for protocol monitoring, changes implementation and fraud prevention.
- Integration with Third-party services.

- Credential issuing services. Issue verifiable credentials asserting certain facts about the borrower.
- Credential verification services. Verify that presented credentials are trusted and valid, and owned by the subject.
- Risk assessment services. Perform credential verification, additional loan scoring and reviewing in order to assert borrowers' eligibility to receive a loan.
- Credential storage services. Securely store the credentials and the declarative details, part of borrower's SSFI.
- Payment services. Cover various on-ramp, off-ramp services, and fiat settlement services.

Protocol Processes

Processes

Growr protocol's operation is defined by a framework consisting of the following processes:

- Distribution & Identity
 - Onboarding
 - Credentials issuing
 - o Credentials verification
- · Risk Management
 - Loan Offering
 - Loan Approval
 - Loan Disbursement
 - Loan Repayment
 - Loan Collection
 - Loan History
- Liquidity
 - Pond Creation
 - Pond Funding
 - Pond Profitability
- Payments
 - o On-chain Payments
 - Off-chain Payments
- Governance
 - Protocol Governance

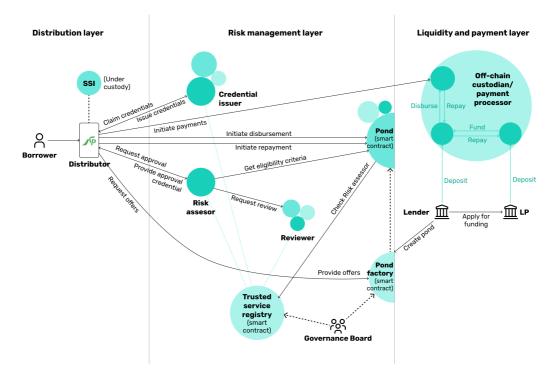
The Growr protocol aims at standardization of the above processes, and this is especially valid for the risk management processes. However, depending on the protocol participants and the tools and services they use, details about certain process implementation might vary. In general, we can summarize the implementation models in 2 categories - custodial and non-custodial.

Detailed description of the processes can be found in the Protocol Specification.

Custodial Model

In custodial model, the Borrowers access the protocol via Borrowing app, provided by regulated last-mile financial service providers. The self-sovereign financial profile is also under custody. Payments are managed by off-chain custodian (payment processor).

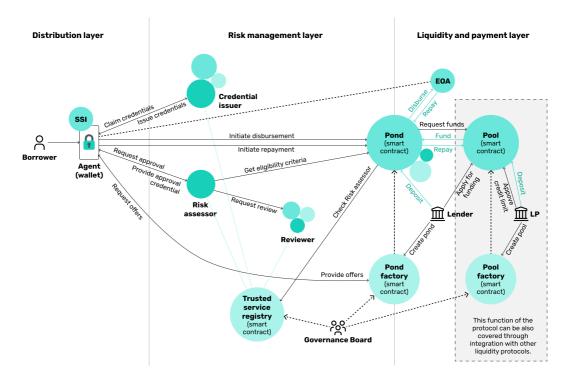
Below is a picture that illustrates the custodial model:



Non-Custodial Model

The non-custodial model allows full decentralization of the protocol. Borrowers access the protocol using a dApp having their wallet connected and all transactions are executed on-chain.

Below is a picture that illustrates the non-custodial model:



Use Cases

Consumer credit

Consumer credit in the developing world often suffers from unfair conditions provided to people from specific minority groups or those without credit history. Using alternative credit risk assessment data via an open protocol can democratize access to consumer credit at fair conditions.

Microfinance

The global microfinance market amounted to \$124B in 2018 (link). 139.9 million borrowers benefited from the services of microfinance institutions, compared to only 98 million in 2009. Of these 139.9 million borrowers, 80% are women and 65% are rural borrowers. The main regions of microfinance are Latin America with \$48.3B, South Asia with \$36.8B, East Asia and Pacific with \$21.5B, Africa with \$10.3B. Connecting this market to a global protocol will bring efficiency in capital allocation, fair conditions, and transparency of the impact.

Buy now pay later

The global buy now pay later market size is expected to reach USD 20.40 billion by 2028, registering a CAGR of 22.4% from 2021 to 2028 (link). However, this business model remains out of reach for micromerchants in the developing world. Enabling access to a global lending protocol at a local shop could prove transformational for the local communities.

Lending to vulnerable social groups

Vulnerable populations such as victims of violence, natural and man-made disasters, as well as micromerchants from poor communities are a prime beneficiary of the protocol. Such populations can rely on memberships within local associations, who can become both credential providers and funding donors.

Donation impact transparency

In addition to lending, donations can also benefit from a global and open protocol, giving the donors a complete transparency of the impact of each dollar they give.

Informal community savings groups

Over the last 25 years, development organizations have trained about 750,000 savings groups, with over 15M members, across 73 countries (link). Digitalizing such savings groups can bring about a global revolution in financial health as more communities get access to and begin to utilize this concept.

Crypto credit cards

While credit cards are a dominant consumer credit facility in the developed world, there are still no real "crypto" credit card products without collateral. Card schemes such as Visa and MasterCard are promoting themselves as being "crypto-friendly." Therefore, our proposed protocol combined with a credit card facility can be a great solution to leverage the existing card payment rails.

Crowdfunding

The crowdfunding business model continues to grow fast globally. In addition to the established platforms for investment in startups and product R&D, impact finance providers such as Kiva are helping micro-businesses with loans for as little as \$25. Crowdfunding transition to the blockchain is a matter of time, as the example of Kick-starter shows (link).

Challenges

Regulatory compliance

Lending services are regulated everywhere in the world. Crypto lending, in particular services provided by decentralized protocols, has succeeded in achieving regulatory arbitrage. The Growr protocol will aim to strike a balance between covering regulation at the "last mile" of consumer financing depending on the jurisdiction and the locally residing stakeholders through which the protocol services are delivered, and the supranational decentralized space outside of the reach of traditional regulators.

Credit risk assessment

While we plan to leverage verifiable credentials from traditional credit bureaus, we envision a future with more decentralized credit risk assessment based on alternative data sources. This is mostly uncharted territory and may lead to lower yield for investors or even losses due to incorrect calculation of the cost of risk.

Governance

While protocol governance is not novel, setting up a global DAO with complex roles and coordinating them poses still unknown challenges. We will continue to explore the best practices in the space and leverage DAO success stories.

User experience

Setting up Bitcoin and RSK wallets is still complicated for technically unsophisticated users. As part of the work on the Growr protocol, we will seek the most user-friendly implementations for accessing the protocol and interacting with its smart contracts, including facilitating access through custodial solutions.

Fraud

We expect that such a protocol will be a high-interest target of fraudsters. We will work on developing the right anti-fraud measures including permanent blacklisting of users from accessing the protocol services.

Technology maturity

Some of the technologies described in this whitepaper are new and unproven at such scale. We aim to leverage as much as possible the experience of other projects and avoid technology pitfalls.

Final Notes

ToDo

You are reading first version of Growr protocol documentation, intended to present the high-level design of the protocol for public feedback. It should not be considered complete or final. Future revisions will address incomplete elements and currently unforeseen aspects and issues.

The present Growr documentation version is 0.2.

Feedback

Our goal is to develop Growr as an open source protocol. Lending, and especially *decentralized uncollateralized lending*, is a very complex topic and there are many aspects that are yet to consider. We welcome your input on how to improve the protocol.

Please, submit an issue or pull request at Growr documentation repo in GitHub.

Contribution

Growr protocol is an open-source decentralized project and anyone can permissionlessly contribute to its development. Developing the protocol, the team abide to the following values:

- Freedom. Growr ensures equal starting point and free access to the protocol for everyone.
- Transparency. Growr provides services with fair conditions, end-to-end transparency in the process and visible impact.
- Contribution. Growr promotes open-source, community-driven, and safe environment.
- Empowerment. Growr delivers global life-first innovative financial services.

We truly hope that the mission and values we describe inspire teams across the world to join us and help contribute to the protocol.

Join us!

- Growr repos in GitHub
- · Growr protocol specification
- · Growr official web site
- Growr in Twitter