Dapp (Tapp) to delegate GRAMS to a Validator

Non-custodial, Customizable, Adjustable

Problem

- 1. Want to earn % from Staking with small amount of funds
- 2. We cannot collect all the funds in non-custodial way (we do not want to pay millions for licenses)
- 3. We want to have a strict rewards redistribution logic between nominators

Solution

Delegation smart contract, that will allow to:

- 1. Raise funds for specific elections
- 2. Be sure that Validator can only stake GRAMs to elector smart contract
- 3. Withdraw funds back if raising or elections will be failed
- 4. Withdraw rewards according to transparent rewards redistribution scheme
- 5. Punish Validator using Validator's safe deposit for bad behavior (optional)

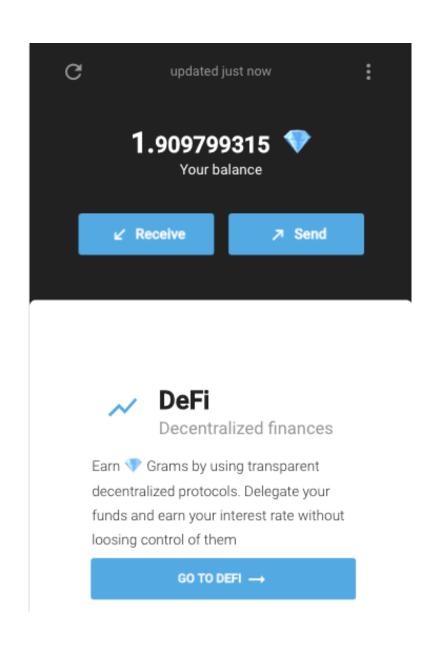
Reasons why it is valuable

Investment pools and delegation is:

- 1. One of the main ways how to earn interest from your funds on the launching of TON
- 2. Good UI / UX and low entry barrier
- 3. Important feature that allow to become a validator to anyone

What we did on contest





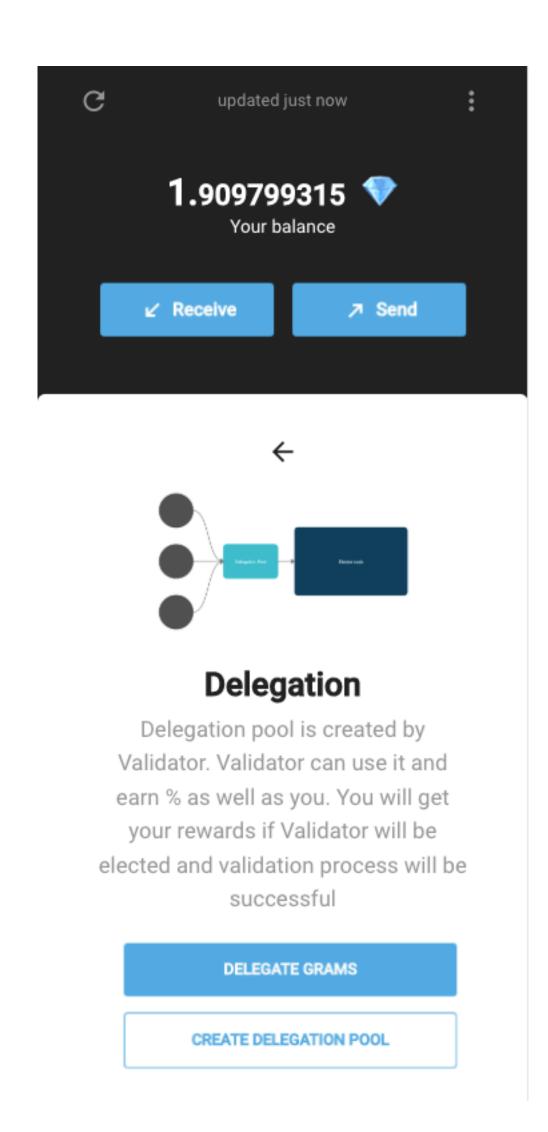


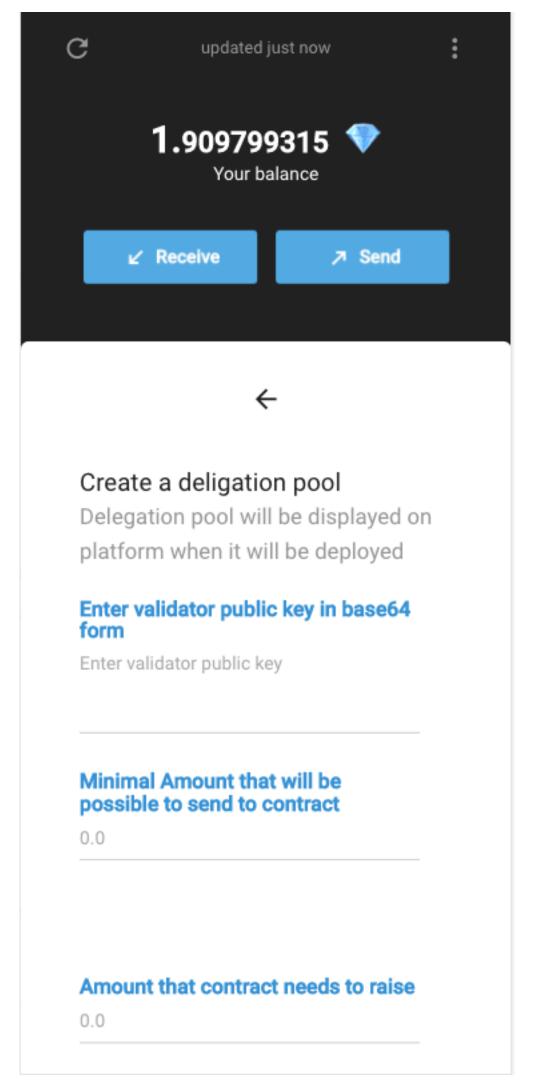
Delegation Pool smart contract

WEB based platform with JS wallet and UI for Delegation

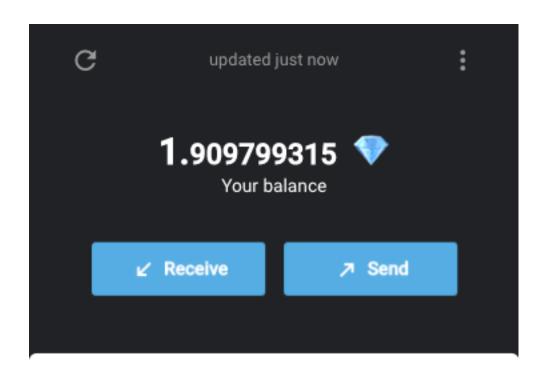
Some small non critical backend wrappers for platform

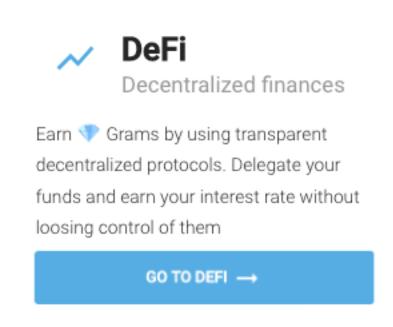
What we did on contest





What we did on contest





Our platform was developed from scratch specially for contest

It is cross-platform and will be available as website version and browser extension as well

It will be published under MIT license

We will bring 150 000 our BUTTON Wallet users on it soon



How it works

Events and actions of participants scheme:





Use Validators node to create and verify blocks as Validator

Successful elections period

Stake funds to elector*

Raising period —— Unsuccessful elections period

Delegate funds

Withdraw funds from Elector contract

Waiting for rewards with delegated sum period

Get Validator's reward

Funds redistributions without rewards period

Withdraw reward and staked sum

Funds redistributions without rewards period

Withdraw staked sum

Setup contract with elections time deadline

Setup period

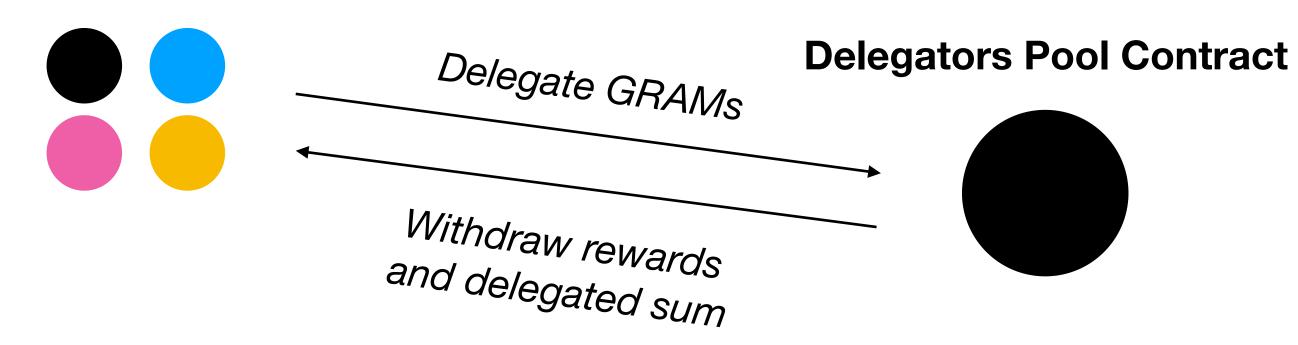
How it works

Validator's wallet

Withdraw rewards for running Validator's node

Use Pool Contract only to stake funds on elector without option to send assets to any other contract

Delegators wallets (different)



Using recv_internal to run

process_new_stake

and

recover_stake

Elector smart contract

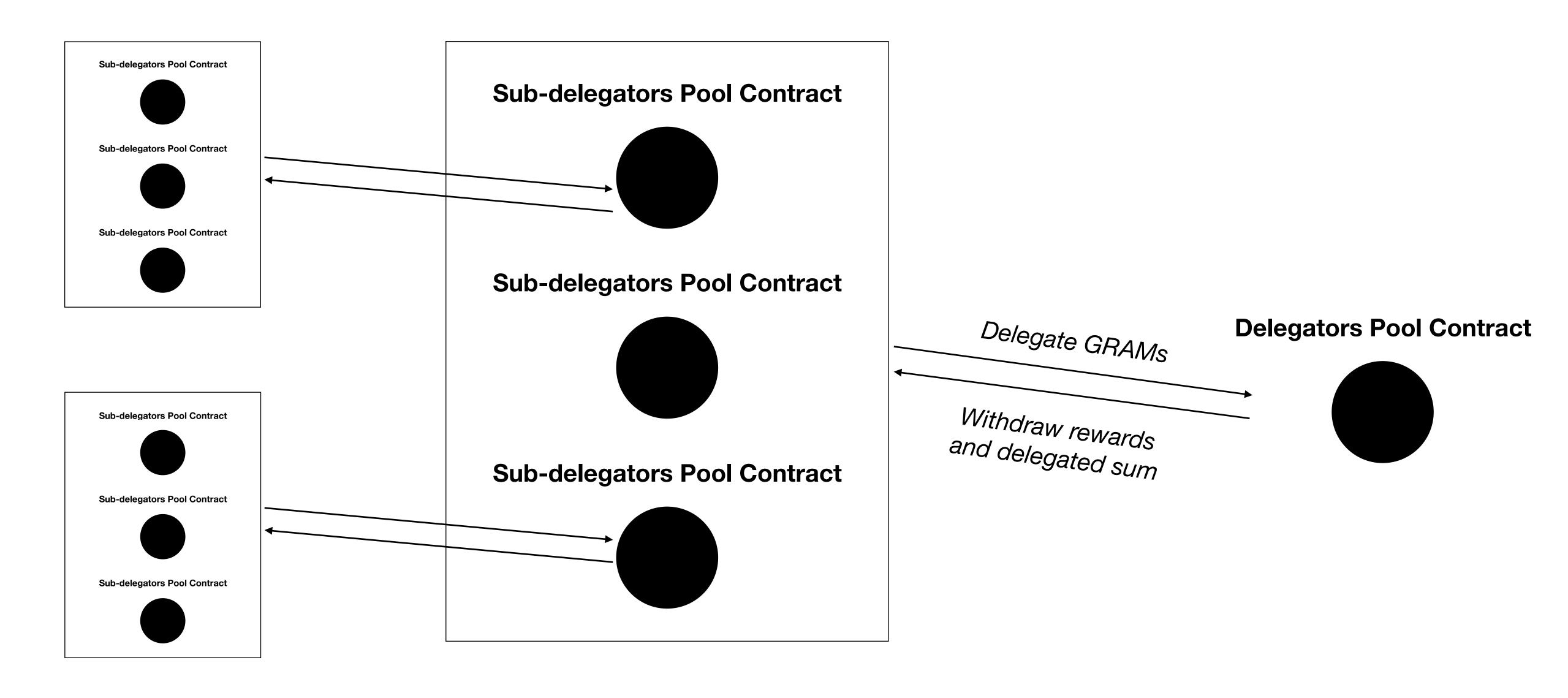
Advanced*

We can have sub-pools that will be collected by Operator, who will invest them to delegator pool

It works only if (Sub-pool APR% >= Non TON's DeFi APR%)

Small example on the next slide

Advanced*



ToDo:

1. Add sub delegation pools

2. Add Validators fee and security deposit options

3. ICO pool and Charity pools demo

4. Add ratings system on platform