

D E B O N D



# DECENTRALIZED BOND

1  
COLLATOLISED  
P2P LOAN AND  
DEBT  
OBLIGATIONS

2  
EACH BOND  
CORRESPONDS TO A  
SPECIFIC BOND  
CONTRACT

3  
TURN ANY DIGITAL  
ASSET AND INDEX  
INTO A BOND

4  
SPLIT AND BUNDLE  
BONDS FOR TRADING IN  
THE SECONDARY  
MARKET





# ERC3475 BOND AND DEBOND



## DeBond pioneer

Bonds are an important tool that stabilizes the economy. However, there has not been any real DeBond product in the Defi market yet. That is why we have created ERC-3475 to fill in the gap.



## Low access threshold

Traditional bonds & bond derivatives have extremely high entry requirements and are mostly available to governments and large-scale fund managers only. DeBond, in contrast, can be automatically generated by any type of digital asset and Index thus allowing any party to issue bond derivatives.



## No-hassle endorsement

We have a firm control over the collateralized assets through smart contract and decentralized capital (DeCapital). Unlike traditional bonds that rely on the credit endorsement of a single agency, we use the underlying assets controlled by the smart contract and the smart contract to ensure the fulfillment of the agreement..



## DeBond ecology

We provide DeBond DEX, wallet and other visualized bond & bond derivative creation tools that meet the ERC-3475 requirements. Institutions and individuals can design their own bonds and use them to raise fund with our visualized programming port.





# ERC-3475 BOND STANDARDS



## ERC-20

The existing Defi protocols typically offer ERC-20 LP tokens to liquidity providers as a mathematical proof of asset collateralization. Nevertheless, as a type of homogenized token, ERC-20 can hardly meet the sophisticated financial demands because all of the ERC-20 tokens use the same smart contract under a uniform algorithmic standard.



## ERC-3475

Meanwhile, ERC-3475 is a diverse redeemable bond standard with a more complex data structure. Each bond is assigned to a unique algorithm and does not require an additional smart contract. It is possible to create both traditional bonds and financial derivatives like futures and options under the ERC-3475 standard.



## ADVANTAGE

Each bond is equivalent to an independent contract that allows the users to customize execution conditions and interest rate.

Bonds can be listed and traded on the DeBond Exchange, or split up and bundled for trading in the secondary market as subordinated bonds.

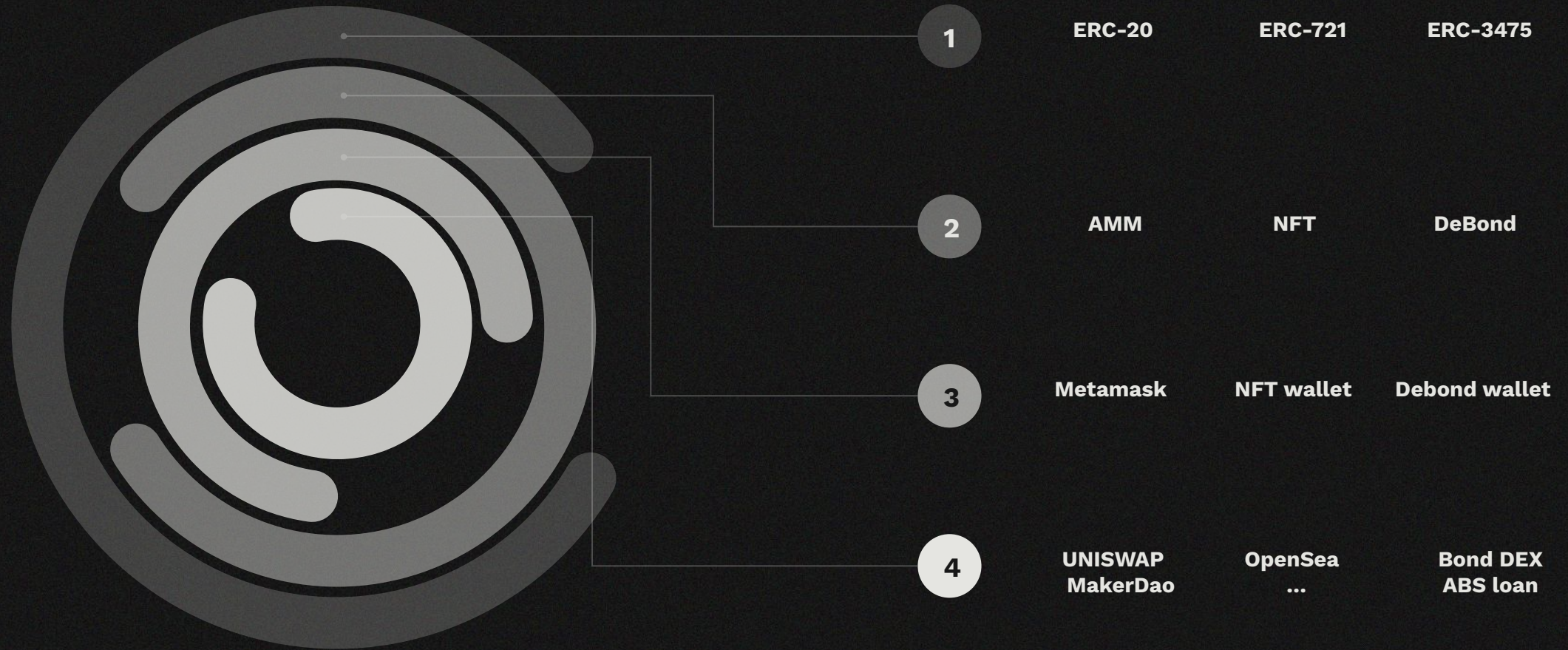
Both fungible tokens and non-fungible tokens (NFT) can be used as collaterals for bond based ERC-3475 derivatives .







# DEBOND ECOLOGY

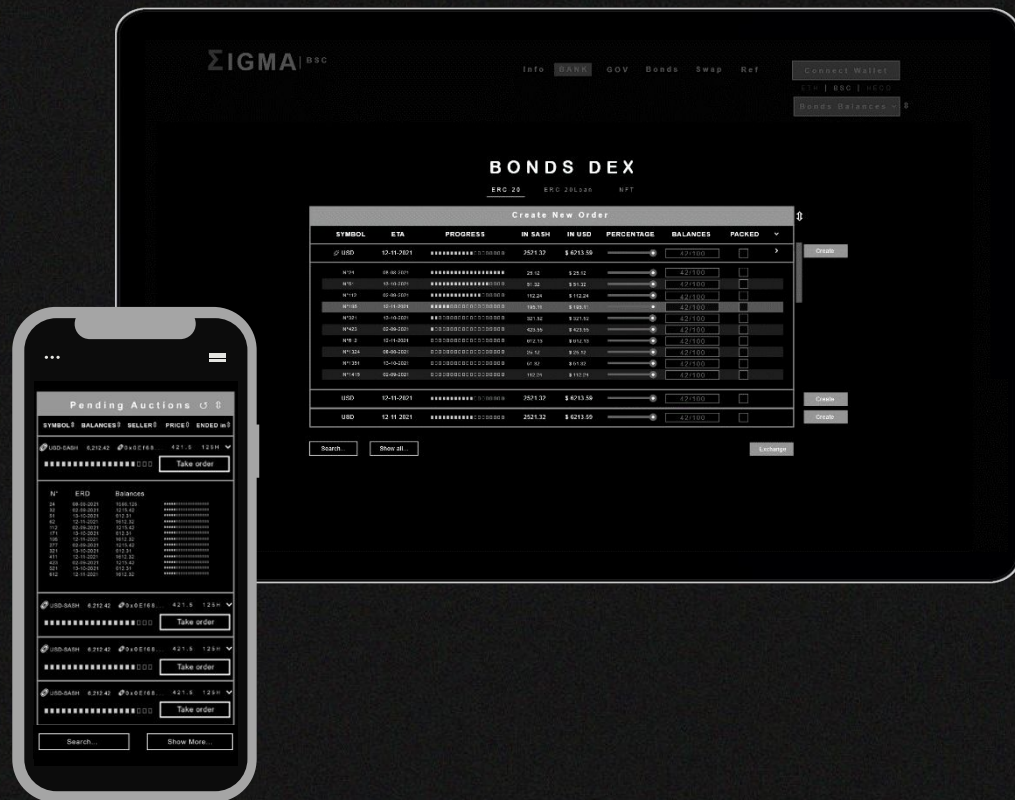






# DEBOND EXCHANGE

- Bonds and other derivatives can be sold on this market, using Dutch method.
- After a bond is put onto the market, its original price is reduced until somebody offers to buy it.
- The DeBond Exchange supports all auctions that comply with the ERC-3475 standards.







# DEBOND WALLET

- DeBond wallet is an extension to the regular ERC-20 wallet, allowing for the centralized display of all ERC-3475 assets of an user.
- There is no need for the users to download additional software or regenerate private keys. They can access their ERC-3475 bonds by linking their existing wallet via metamask.







## DEBOND APPLICATION SCENARIOS

01

FRB

Fixed-rate Bonds

02

LPB

LP Bonds

03

NFTB

NFT Bonds

04

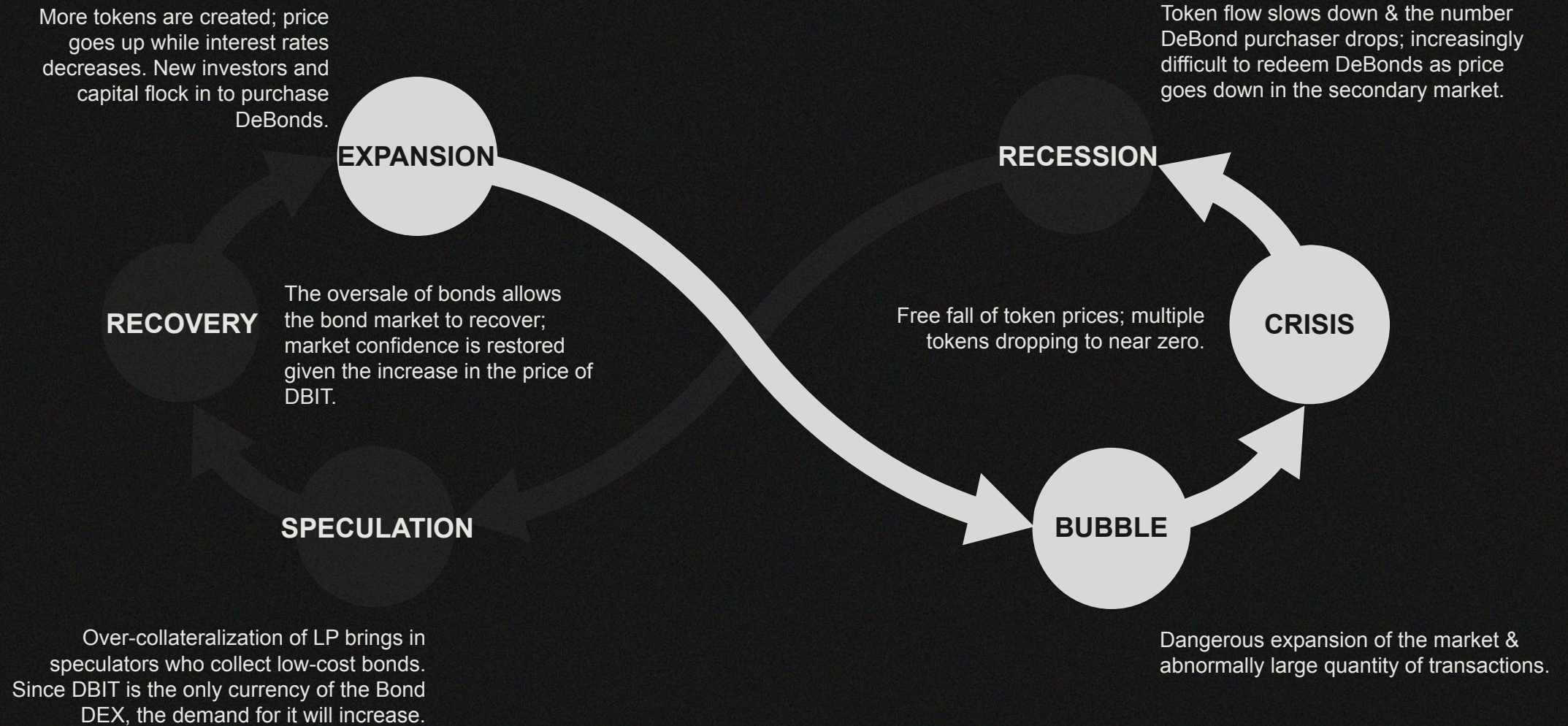
MB

Hybrid Bonds





# DEBOND CYCLE







## RISK ATTITUDE

**The paper interest rate can be modified by the governance contract.**

In terms of the interest calculation method, there are 2 classes of debond:

**01**

### FLOATING RATE BOND

- High risk
- High interest rate
- Subprime bond
- No fixed mature date
- Low priority for creditors
- May loss principal

**02**

### FIXED RATE BOND

- Low risk
- Low interest rate
- Prime bond
- Fixed mature date
- Predetermined interest rate
- High priority for creditors
- Principal is much safer





## BOND CLASSES

| Bonds type             | Number of nonces | Annual nominal paper IR* | Priority for creditors |
|------------------------|------------------|--------------------------|------------------------|
| Floating rate 0.5 year | 1,5              | Floating <16%            | 10th                   |
| Floating rate 1 year   | 1,6              | Floating <18%            | 8th                    |
| Floating rate 2 years  | 1,7              | Floating <20%            | 6th                    |
| Floating rate 3 years  | 1,8              | Floating <22%            | 4th                    |
| Floating rate 5 years  | 1,9              | Floating <26%            | 2nd                    |
| Fixed rate 0.5 year    | 1,5              | Fixed 0-8%               | 9th                    |
| Fixed rate 1 year      | 1,6              | Fixed 0-10%              | 7th                    |
| Fixed rate 2 years     | 1,7              | Fixed 0-12%              | 5th                    |
| Fixed rate 3 years     | 1,8              | Fixed 0-14%              | 3rd                    |
| Fixed rate 5 years     | 1,9              | Fixed 0-18%              | 1st                    |

*Any information about the interest rate listed here is only a presumption.. For more information please read our whitepaper, section 4.4.4 Interest Rate.*





## DEBOND'S FUTURE

- The ERC (BEP) 3475 standard and the Debond Exchange that we created have opened up a whole new market full of unlimited potential for investors and speculators.
- In 2020, USD-denominated bonds represent 132.5% of the country's nominal GDP (\$20.93 trillion) of December 2020. The total DEFI locked position is worth \$52.1 billion. Considering that the DEFI bond market is about 1.3 times larger than that of TVL.
- The DEFI bond market is expected to be USD 69 billion.







# DEBOND'S BARRIERS TO COMPETITION

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## LIQUIDITY BARRIERS

Prompted by high interest rates at the early stage, users can convert LP tokens directly into bonds redeemable at maturity. This means that we can absorb three-party liquidity to form a solid market base.

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## ROBUST INFRASTRUCTURE

beyond the ERC3475 bond standards, infrastructure such as DeBond Wallet, Exchange and ecology are fully open to everyone, thus no need to start from scratch for any institution wishing to enter the bond market.

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## ZERO TRANSACTION FEES

The profit of our bond ecology lies in the reuse of collateralized assets. We have implemented a no-fee policy for our bond exchange, which reduces arbitrage costs for speculators in the secondary market.



# DECENTRALIZED BOND INDEX TOKEN

1  
CONSTANTLY  
RISING INDEX WITH  
SHORT-TERM  
FLUCTUATION

2  
ERC20 TOKENS  
PEGGED TO THE  
BOND INDEX

3  
TOKENS CAN BE USED  
FOR BOND INTEREST  
PAYMENT AND  
SECONDARY MARKET  
TRANSACTION

4  
LOW PRICE  
FLUCTUATION





# DECENTRALIZED BOND INDEX TOKEN

- DBIT (Decentralized Bonds Index Token) is a type of ERC20 token pegged to the bond index. It is mainly used for bond interest payment and secondary market transaction. DBIT can also take part in the on-chain incubation projects, so as to obtain the project tokens to diversify the asset portfolios of the collateral pool.

15  
38

DBIT is a currency used for bond interest payment and secondary market transaction.

It is part of the index system that reflects the overall trend of the bond market.

The price of DBIT represents the confidence of investors over the current bond market.

The price of DBIT is guaranteed by all of the collaterals in the bond market.

The reserve of hybrid collaterals and the fact that the token is pegged to the index can guarantee the floor price of DBIT.

As an index token, the price of DBIT will continue to rise along with the development of DEFI.





# THE MINTING OF DBIT

- **TOKEN MINTING RULE**

Upon receiving the collaterals, the bank contract will mint DBITs for the LP contract, according to the Halvening Model and the price set by the oracle machine. The bond holders will receive the exact amount of DBITs when the bond is redeemed.

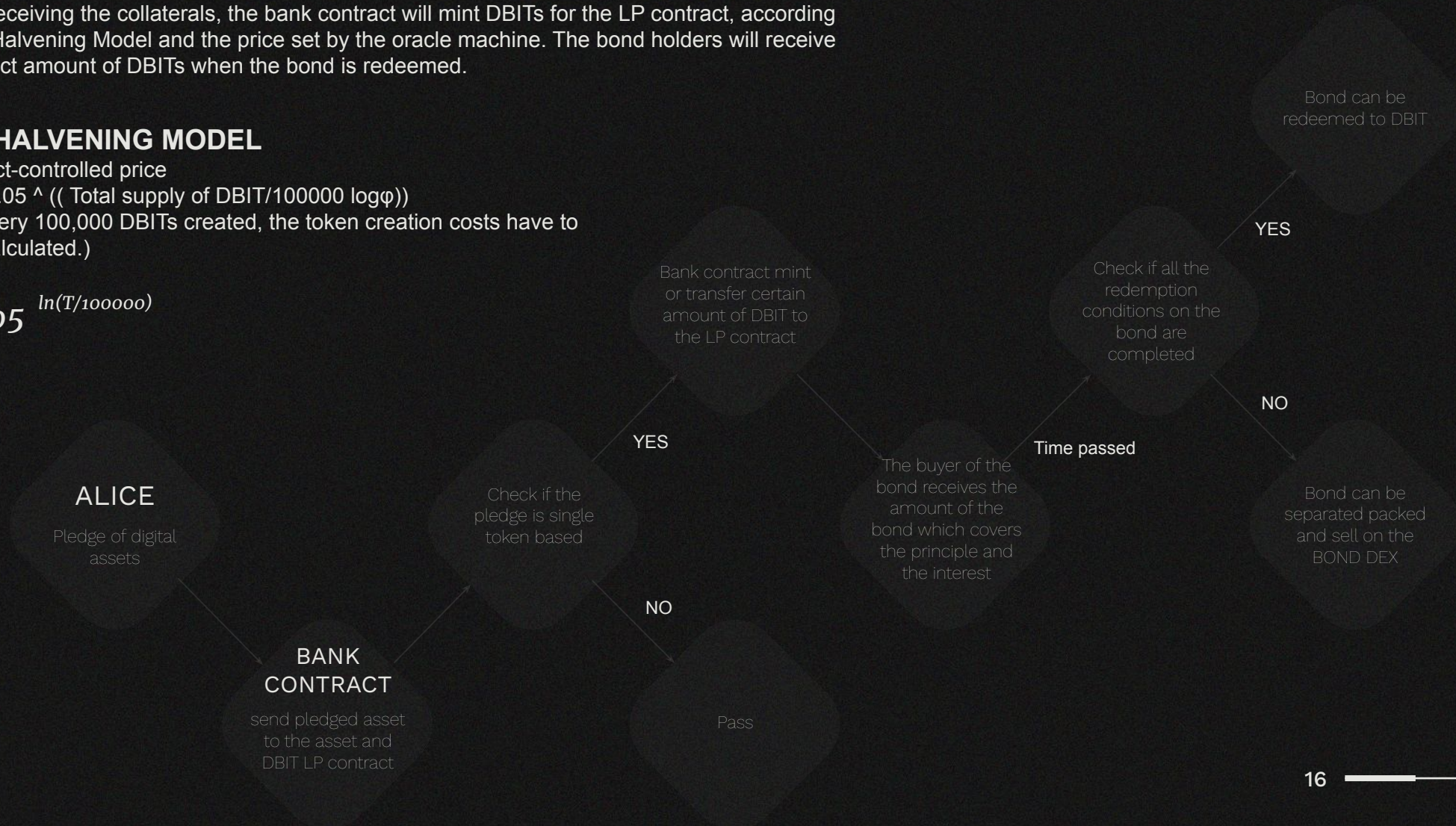
- **THE HALVENING MODEL**

Contract-controlled price

$(P) = 1.05^{((\text{Total supply of DBIT} / 100000) \log \phi)}$

(For every 100,000 DBITs created, the token creation costs have to be recalculated.)

- $P = 1.05^{\ln(T/100000)}$







## PERMANENT POOL OF LIQUIDITY



While engaging in a zero-sum game with other pools of funds, the DeBond pool will gradually absorb their liquidity.



The huge amount of permanent liquidity provided by DeBond not only guarantees the value of the DeBond products, but also constitutes effective barriers to competition.

- Users need to sign a contract to pledge their assets and obtain DeBond. The contract sets out the repayment time, conditions and rewards.
- The algorithm adopted by the contract can prevent free fall of liquidity. Therefore, the pool of funds will always be on the rise in the long term.



# SECURITISED P2P LOAN

PEER TO PEER  
LENDING  
PLATFORM

TRADABLE  
SECURITISED LOAN

USING SMART  
CONTRACT TO ENSURE  
REPAYMENT

ON-CHAIN AND  
OFF-CHAIN  
COLLATERALS

1

2

3

4





## SECURITISED P2P LENDING

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### LOW DEFAULT RISK

Using smart contracts and pledged digital assets. The loan itself has a lower default risk than traditional p2p lending. The loan with higher risk will have a higher interest rate and lower mortgage rate. Creditors can also sell some part of the securitised loan to willing buyers to minimise the default risk..

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### SPECULATABLE

Securitised loans can be divided and assigned to others in the form of bonds, turning the loan into a type of speculative investment. The fluctuation of the bond price in the secondary market can therefore create a new speculative market.

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### PLEDGED ASSET

Multiple on-chain and off-chain assets can be used as a collateral for a loan. In some cases, the securitised loan bond can be issued without any collateral. But in this case the actual usage of the loan will be strictly limited by a smart contract.





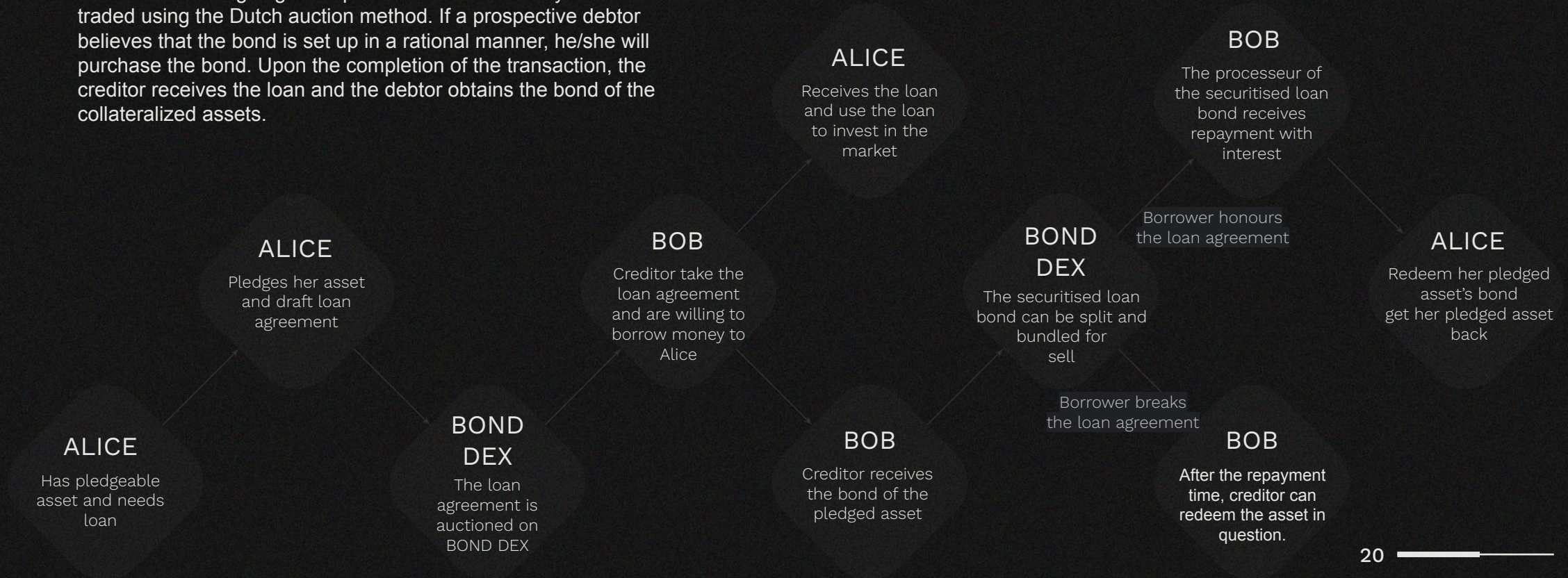
# SECURITISED P2P LOAN

- **PEER TO PEER LENDING**

The creditor of a securitized loan is no longer a smart contract, The debtor has to first pledge his/her digital assets (ERC-20, ERC-721, ERC-3475 etc.) to a smart contract, which then issues the loan bond representing the securitised loan. Based on the creditor's settings of the amount of the loan, repayment method, interest rate, due date, etc.

- **SECURITISED LOAN**

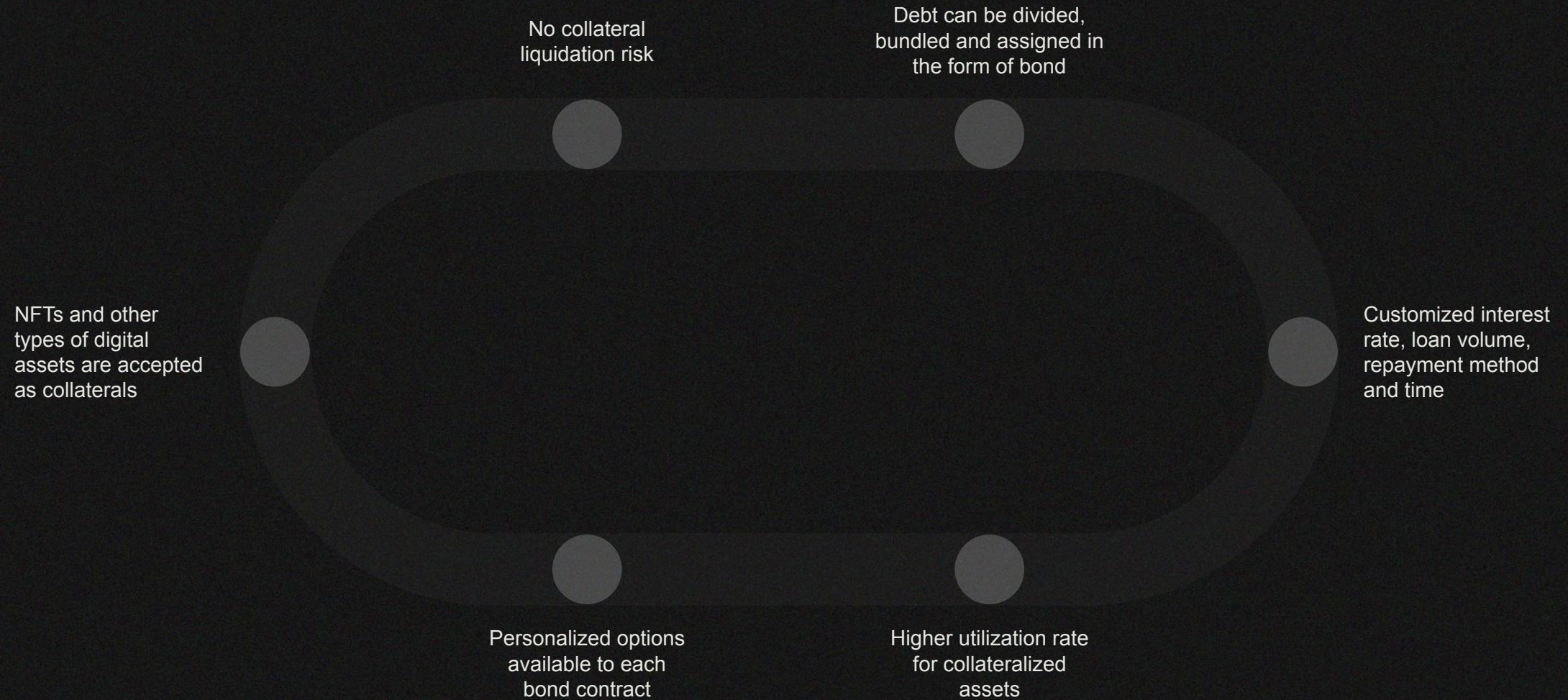
These bonds are going to be placed on the secondary market and traded using the Dutch auction method. If a prospective debtor believes that the bond is set up in a rational manner, he/she will purchase the bond. Upon the completion of the transaction, the creditor receives the loan and the debtor obtains the bond of the collateralized assets.



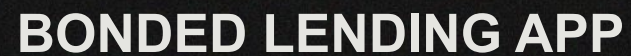




## BONDED LENDING







APC 214 215 

- 22  38



# OTHER DERIVATIVES

1  
OPEN SOURCE  
SYSTEM, ALLOWING  
ANY DEVELOPERS TO  
PARTICIPATE

2  
ENHANCING THE  
DIVERSITY OF  
DEBOND  
ECOSYSTEM

3  
HEDGING AGAINST  
INVESTMENT RISK.  
ON-CHAIN AND OFF-CHAIN  
DERIVATIVES

4  
CREATE OPTIONS  
BASED ON  
CONDITIONS OR  
EVENT





DEBOND DERIVATIVE TYPES

**FORWARDS**  
**FUTURES**  
**OPTIONS**  
**BINARY OPTIONS**  
**WARRANTS**  
**SWAPS**





# DERIVATIVES USE CASES

## HEDGING

Hedge or to mitigate investment risk, by entering into a derivative contract whose value moves in the opposite direction of their position and cancels part of the potential loss.

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## OPTION

Create options with the value of the derivative is linked to a predetermined condition or event (e.g., the underlying asset reaching a specific price level).

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## LEVERAGING

Provide leverage, such that a small movement in the underlying value can cause a large difference in the value of the derivative.

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## SPECULATION

Make profit from speculating the market movements. (e.g. moves in a given direction, stays in or out of a specified range, reaches a certain level)

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## ARBITRAGING

Allowing a riskless profit by simultaneously entering into transactions into two or more markets.

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# VISUALIZED DERIVATIVES GENERATOR

ERC-3475 provides node-based programming scripts, which enable people unfamiliar with the solidity code to create customized derivative products with a few clicks. By editing the parameters and nodes, everyone can create new derivatives or even new economic models with a few clicks.





# COMMUNITY GOVERNANCE

UPGRADED  
SNAPSHOT  
GOVERNANCE  
PLATFORM

PLATFORM-WIDE  
GOVERNANCE  
TOKEN - DBG T

GENUINE  
DECENTRALIZED  
GOVERNANCE

DAO-CONTROLLED  
DECENTRALIZED  
INVESTMENT FUND -  
DECAPITAL

1

2

3

4





# DBGT DECENTRALIZED GOVERNANCE PLATFORM

Unlike SnapShot, which only provides polling services, the DBGT platform offers all-round decentralized governance. When a proposal is created to bid on pledged assets or use the fund from DeCapital, it has to be converted into a smart contract. Any DeCapital revision, update and withdrawal has to be voted for by the community members and executed on the chain. The platform uses DBGT as the universal governance token.

### PROPOSALS

SGM BALANCE  
0.00 SGM

SIGMOID  
ETH | BRC20 | BSC

VOTE BOND \$  
0.00 VOTE

STACKING SGM  
APR: 25.17%  
+ NEW PROPOSAL

ALL | Active

|                                    |          |  |   |
|------------------------------------|----------|--|---|
| Proposal C1N15: Governance Upgrade |          |  |   |
| 1                                  | Defeated | Start Date: 8/1/2021   End Date: 8/4/2021   Quorum: 30%    | ✓ For: 7.5856K VOTE<br>✗ Against: 0 VOTE      |
| Proposal C2N12: Buying WBTC        |          |  |   |
| 7                                  | Executed | Start Date: 6/1/2021   End Date: 6/4/2021   Quorum: 100%   | ✓ For: 25.109K VOTE<br>✗ Against: 381.05 VOTE |
| Proposal C3N31: Salary for CM      |          |  |   |
| 4                                  | Executed | Start Date: 4/14/2021   End Date: 4/17/2021   Quorum: 100% | ✓ For: 29.01K VOTE<br>✗ Against: 1.0343K VOTE |





# DECAPITAL

In order to increase the utilization efficiency of the collaterals in the bond ecology, we allow the DBGT holders to discuss and determine the way the assets are used through decentralized governance

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## INCUBATION

Participate in the incubation of the projects on the chain and obtain the project tokens to enrich the asset portfolio of the collateral pool.

Provide liquidity to third-party capital pools for liquidity returns.

## COLLATERAL POOL

Allow the Estonia-registered physical company to invest in off-chain projects and link the profits and losses of the company to the collateral pool.

The use of DeCapital funds has to be voted for by the community members, thus achieving genuine decentralized governance.

## LIQUIDITY

## DECENTRALIZED GOVERNANCE





## FINANCING AND VALUATION

# Financing & Valuation

The original shares of the project are 1,000,000 DBGTs, which are sold in the Seed round, Private round A & B and public offering.

After the project is officially listed on the exchanges, investors can subscribe for additional DBGTs.

Despite the dilution of the original shares, the quantity of the tokens remains the same while the price increases.

Tokens from the seed and private rounds will be unlocked continuously as new tokens are issued.



### SEED & PRIVATE A ROUND

100,000 DBGTs for sale, which are expected to provide USD 1,700,000 in financing for project development and marketing.



### PRIVATE B ROUND & PUBLIC OFFERING

100,000 DBGTs released for Private B round and public offering. Pre-listing valuation estimated to be USD 30 million. All financing from these rounds will be used to increase liquidity.



### PROJECT LAUNCH, SERIES A

Upon listing, new governance tokens are to be purchased by pledging other digital assets. The cost of minting is USD 100 for each DBGT, which will increase along with the halvening of tokens.





## SEED ROUND FINANCING

Maximum supply\* of token : 1,000,000 DBGT    Initial supply of token at TGE : 20,000 DBGT  
Initial TGE market cap : \$600,000

| Round             | Token Number | Price  | Initial Shares Proportion | Financing Target | Token Unlocking Rule  |
|-------------------|--------------|--------|---------------------------|------------------|---|
| Seed Round (ICO)  | 40000        | \$12.5 | 4%                        | \$500,000        | Tokens are unlocked during the first 9 months after listing through TVL; the locked portion will be linearly released in the next 9 months. |
| • Private A (ICO) | 60000        | \$20   | 6%                        | \$1,200,000      | Tokens are unlocked during the first 9 months after listing through TVL; the locked portion will be linearly released in the next 6 months. |
| Private B (ICO)   | 130000       | \$35   | 13%                       | \$4,550,000      | Tokens are unlocked during the first 6 months after listing through TVL; the locked portion will be linearly released in the next 6 months. |
| Public Offering   | 20000        | TBA    | 2%                        | TBA              | Released upon listing   |

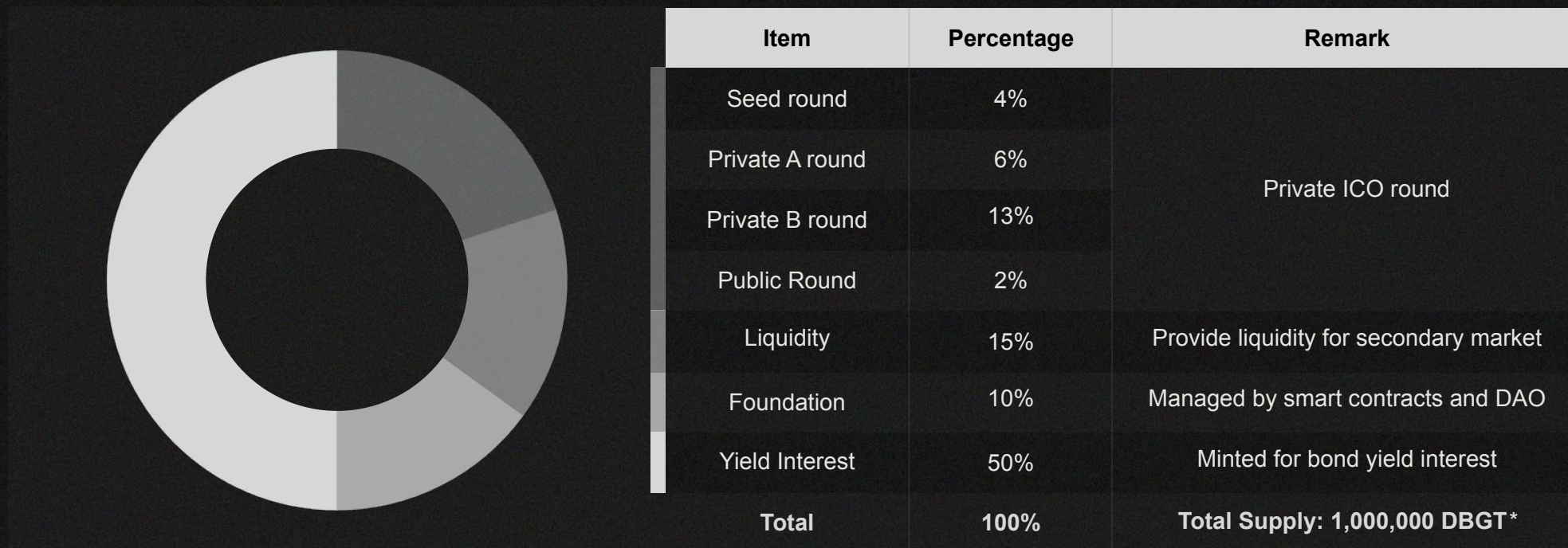
\*MaximumSupply can be revised if all the tokens are minted.

\*\*Traditional seed round consists of ICO seed round, ICO private A, ICO private B and public offering





## DISTRIBUTION OF TOKENS



*\*When the total supply is close to the limit. There will be a possibility to extend the limit through DAO*





# THE MINTING OF DBGT

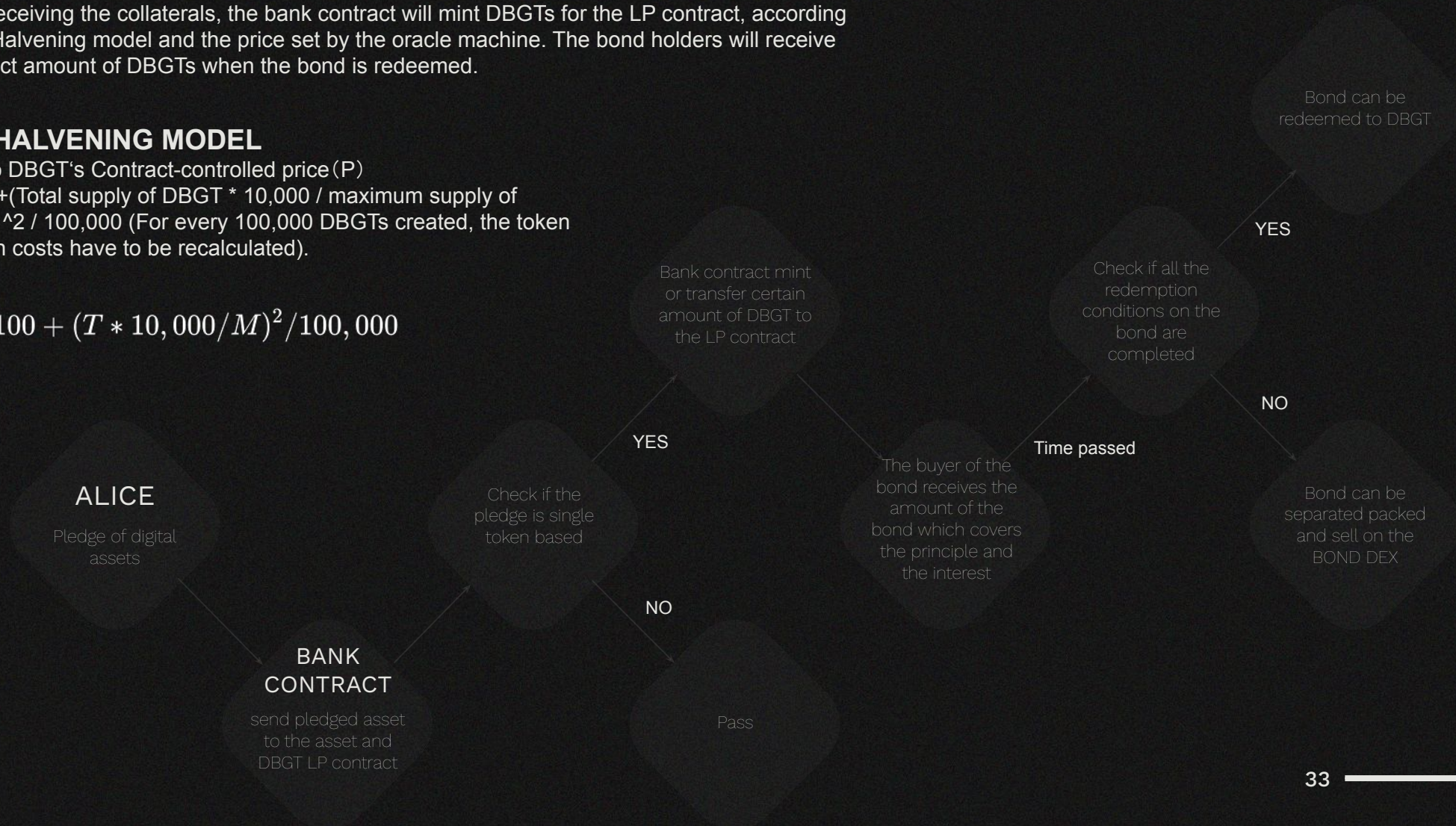
- **TOKEN MINTING RULE**

Upon receiving the collaterals, the bank contract will mint DBGTs for the LP contract, according to the Halvening model and the price set by the oracle machine. The bond holders will receive the exact amount of DBGTs when the bond is redeemed.

- **THE HALVENING MODEL**

DBIT to DBGT's Contract-controlled price (P)  
=  $100 + (\text{Total supply of DBGT} * 10,000 / \text{maximum supply of DBGT})^2 / 100,000$  (For every 100,000 DBGTs created, the token creation costs have to be recalculated).

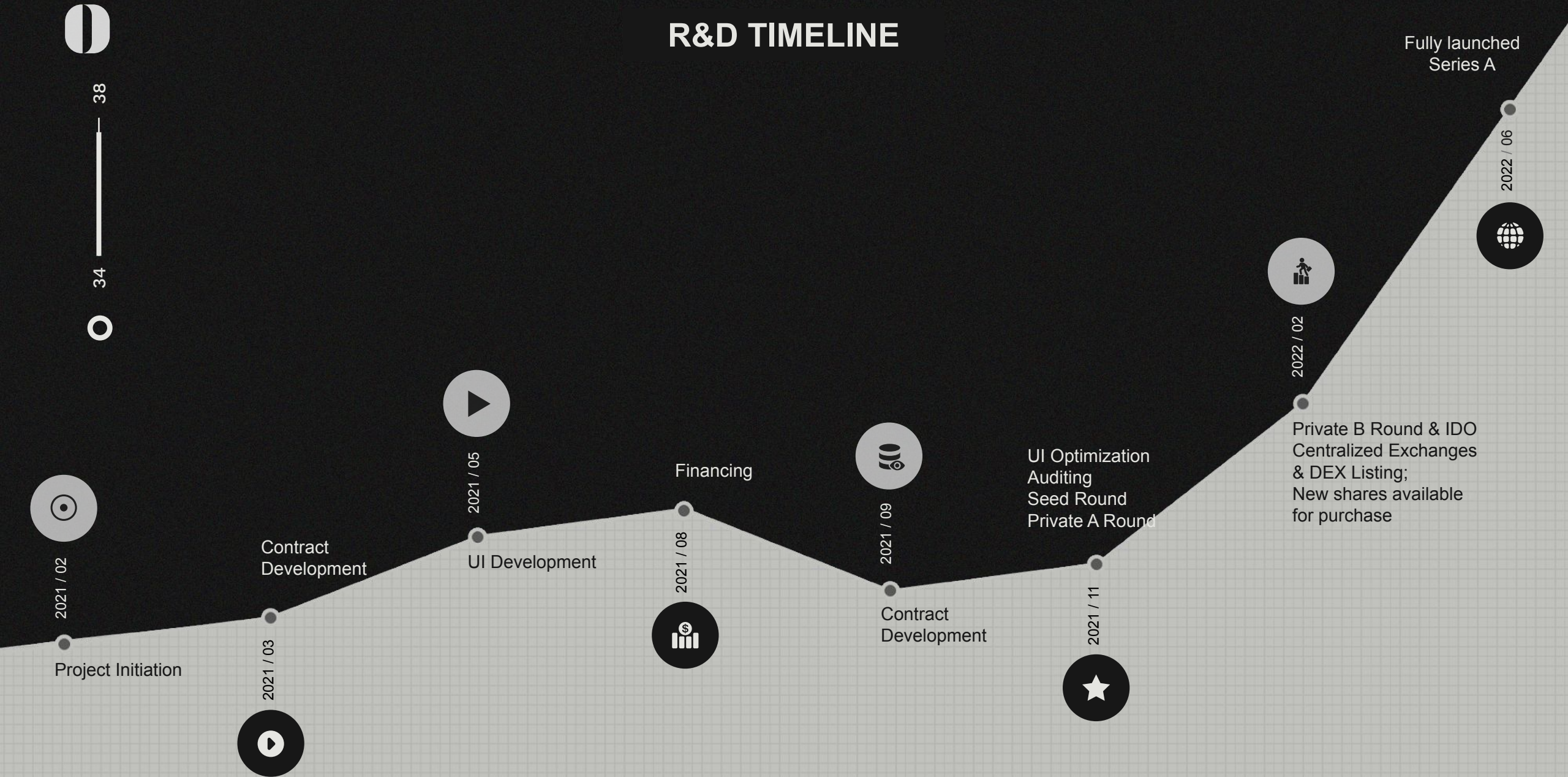
- $P = 100 + (T * 10,000 / M)^2 / 100,000$



2021-08



# R&D TIMELINE







## OUR CORPORATION

Our project is run by an Estonia-registered limited company, which is licensed to operate digital currency and other relevant businesses.

### **SigmoidLab OÜ**

Limited liability company ( Limited liability company )  
Roseni tn 13, 10111, Tallinn linn, Harju maakond, Republic of Estonia

[Linkedin page](#)

We're a global community of academics, consultants, developers and marketing experts with deep understanding in cryptography, decentralized systems and smart contracts.

Our team consists of 15 members from France, Ukraine, India, Malaysia and United States. Members who has involved with the development of Iota, Polygon, Swap-helper, Bithumb, Grap.finance, Maker DAO, Alpha wallet, etc..





# TEAM MEMBERS

## YU L

Founder & CEO

Risk Management Analyst, AXA  
Founder and Developer of Swaphelper  
Developer of Grap.Finance  
MS. Sociology and Economics,  
Université Paris Dauphine - PSL

## Sang-Bo W

Co-founder & Chief Algorithms Officer  
Math and Economic Model R&D

BS. Physics, Peking University  
MS. Applied Mathematics, ENS  
PhD Financial mathematics, École Polytechnique

## Varun D. Ph.D

CTO

Head Of Security, Uniris  
Research Fellow, Smart Contract Research Forum  
Project and Course Supervisor, ESIEE PARIS  
Research And Development Engineer, METRON SAS  
Doctor of Philosophy -Design of Blockchain Based Trust  
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## Erfan I

Co-founder & COO

MSc in Digital Management, ICN Business School  
FinTech & Blockchain Consultant, Angel Investor  
Advisor of Hotbit  
Investor of Mintable  
Investor of Globe Derivative Exchange

## Julien M. Ph.D

Head of development

Head of Research and Development, Ellipse Studio  
Research and Development of Distributed System,  
International Consortium of Investigative Journalists  
Doctor of Philosophy (Ph.D.) Computer Science,  
Université Pierre et Marie Curie (Paris VI)

## Abderahman J

Senior front end developer

Proxy Product Owner, Louis Vuitton  
Front End Lead, AXA Life Invest  
Front End Lead, Euler Hermes  
Études entrepreneuriat,  
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# TEAM MEMBERS

## **Allan M**

Partnership Manager  
Growth partnership manager, Happy Pal  
VC Analyst, Davoa Capital  
MS. Entrepreneurship, Strategy, Corporate finance,  
ESSEC Business School

## **Gerard A**

PR Manager  
Digital Marketing Manager, Accura Cast  
Senior Correspondent, Xinhua News Agency  
Sr. Financial Correspondent, Finanzen verlag  
MS. Business Administration, University of Düsseldorf

## **Meriem M**

UI/UX Designer  
UI/UX Designer, Moët Hennessy.  
Art Director, ADFAB  
MA. Print and digital design, ESAD Orleans

## **Stas S**

Outsourcing Solidity Engineer  
Chief blockchain solution developer & architect of SKSO (for Russian Railways).  
Chief Internet expert at Sochi 2014. (2014 Winter Olympics)  
Development of a cryptocurrency backed by Swiss Francs,  
Head of distributed ledger technology, Avoncourt

## **Samuel O**

Blockchain Developer  
Blockchain Developer / QA Engineer, Jummy  
Ph.D candidate Energy and Entropy, Sorbonne University

## **Toufic B**

Blockchain Developer, Quant  
Data Scientist, Thales  
Risk ALM model reviewer, BNP paribas  
MS. Mathématiques et statistiques, ENSAE Paris

## **Stehpane M**

PR and Partnership Advisor  
VP Business & Corporate Development, Coinhouse  
Vice President Of Business Development,  
COINHOUSE CUSTODY SERVICES

## **Oleksandr K, Ph.D.**

Infrastructure Architect Advisor  
Cloud Infrastructure & Blockchain Architecture Consultant, Unisoft  
AWS Partner, AWS Certified Solutions Architect,  
Solution developer for Maker DAO, Alpha Wallet, AWS, etc.

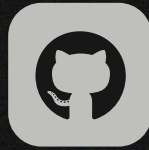
## **Abdelmounaim D**

Go to market strategy Advisor  
Lecturer - Business Data Science,  
ESSEC Business School  
Director, Ekimetrics





## COMMUNITY



60,000 TG members. 70,000 Twitter followers Over 10,000 of the 60,000 wallet addresses in the Airdrop list have been validated to be previous DEFI users



