

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.

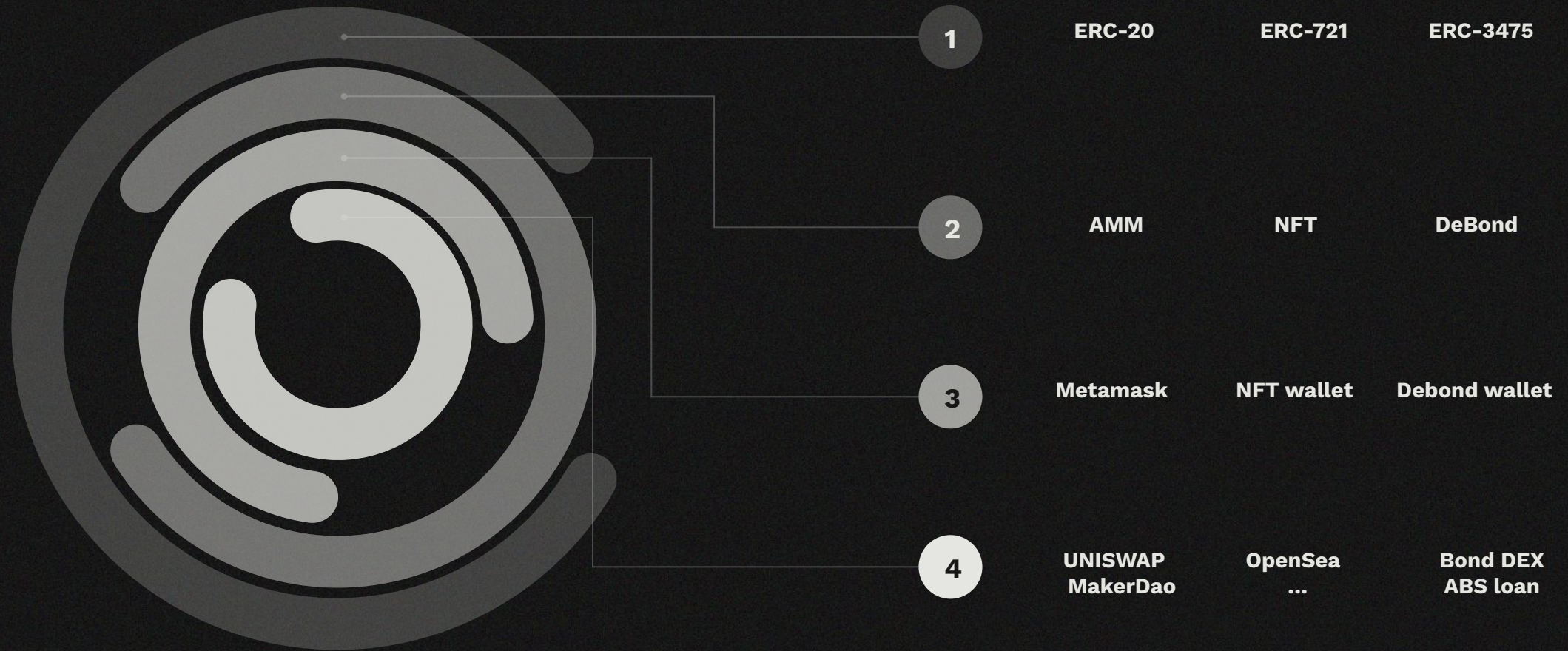
Bonds can be listed and traded on the DeBond Exchange, or split up and bundled for trading in the secondary market as subordinated bonds.

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





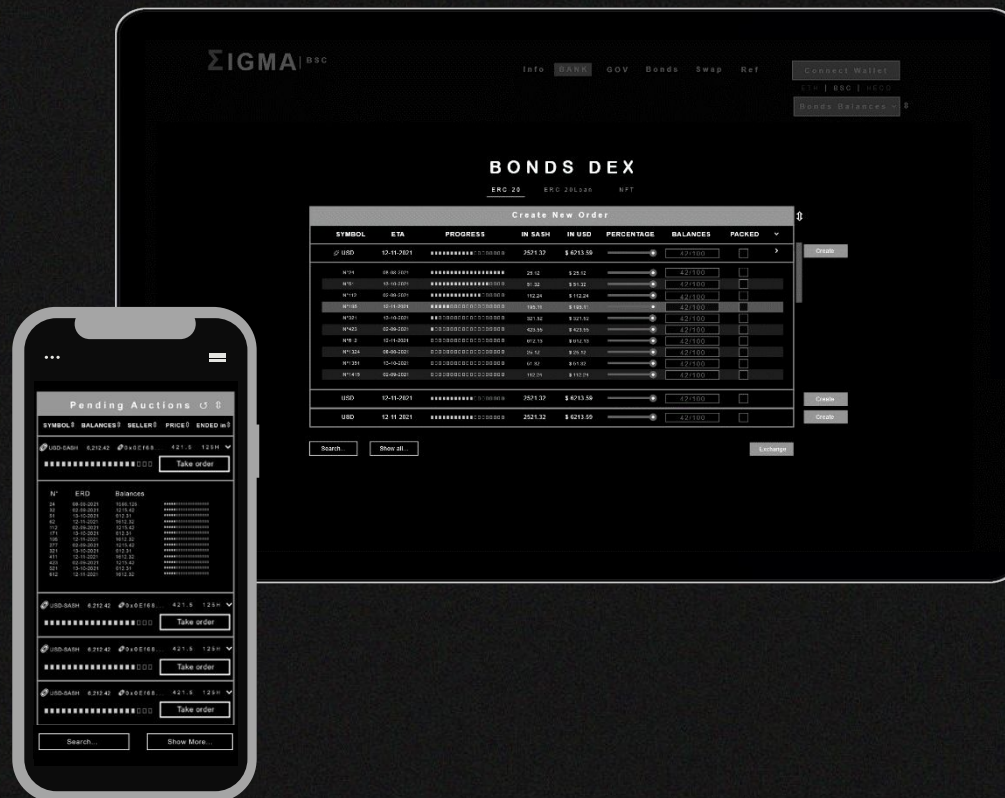
DEBOND ECOLOGY





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

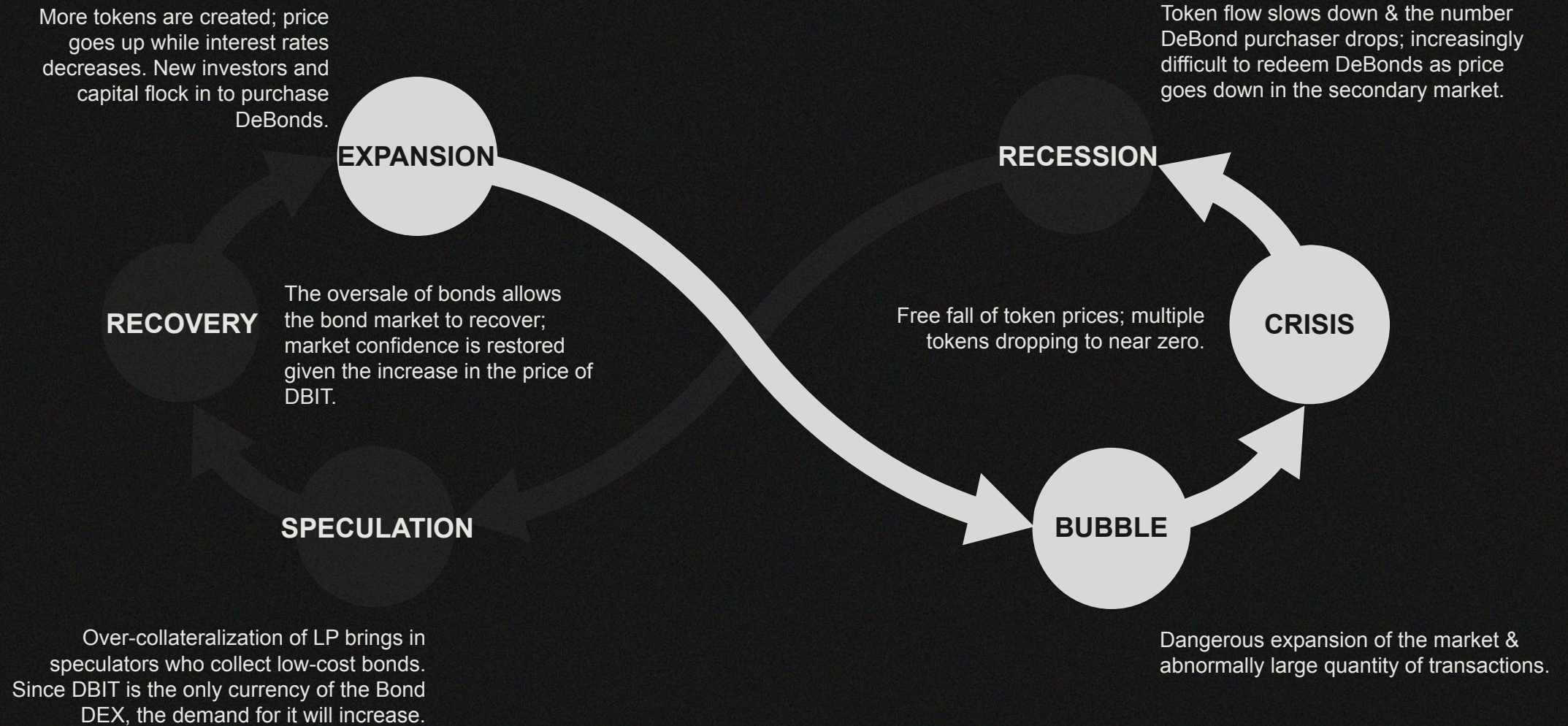
04

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

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.

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.

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.

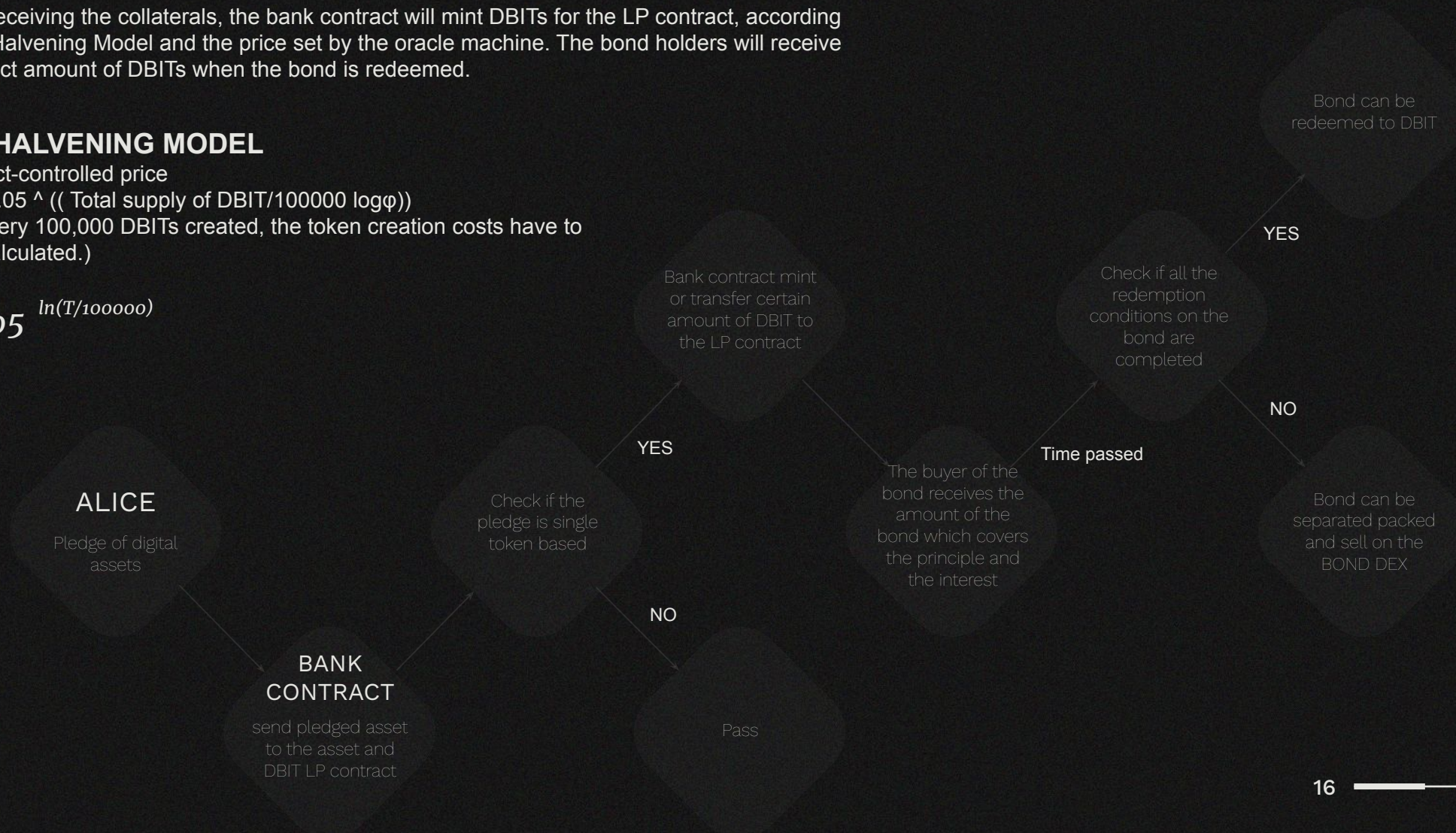
- **THE HALVENING MODEL**

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

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..

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.

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.



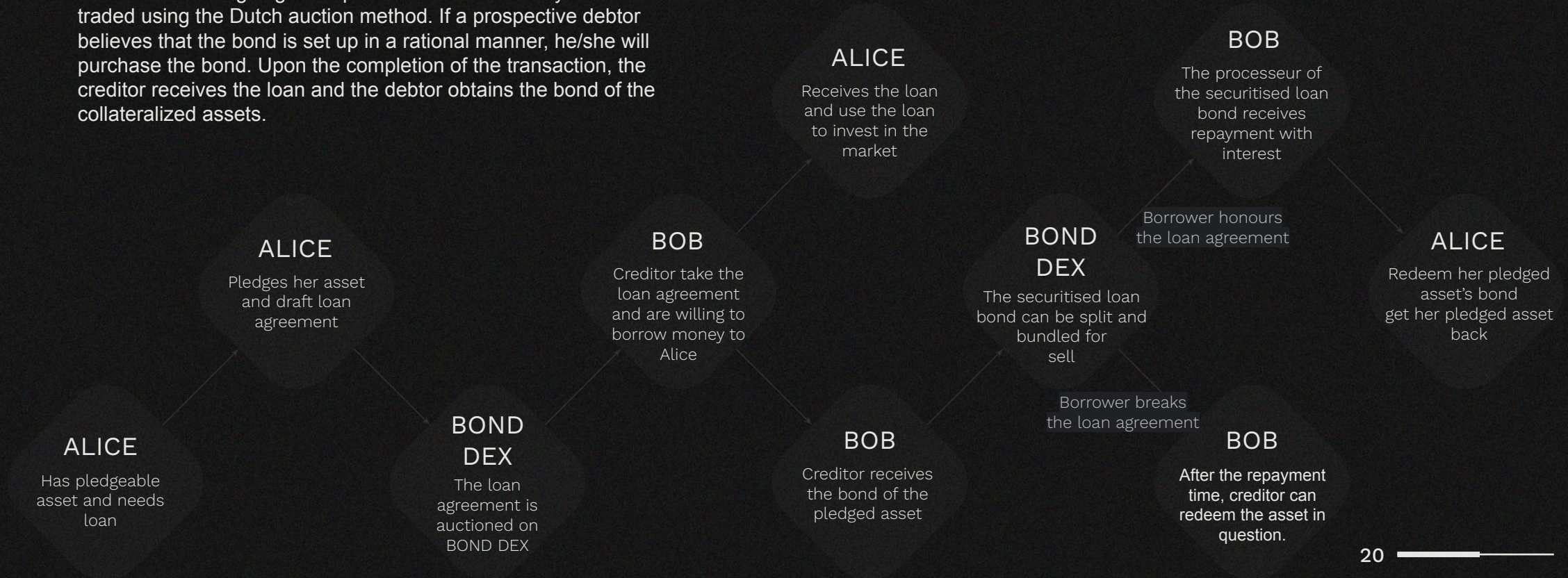
SECURITISED P2P LOAN

- **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.

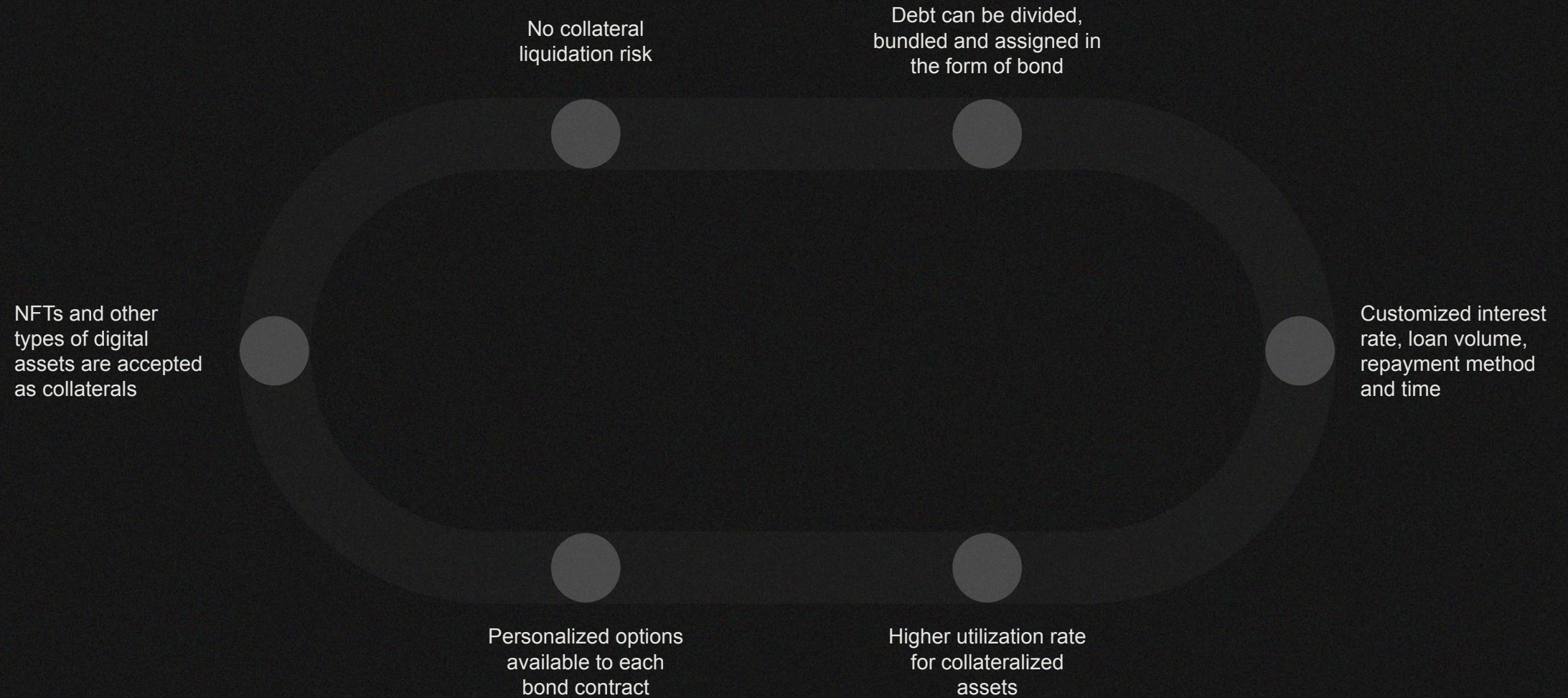
- **SECURITISED LOAN**

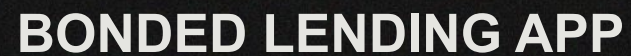
These bonds are going to be placed on the secondary market and traded using the Dutch auction method. If a prospective debtor believes that the bond is set up in a rational manner, he/she will purchase the bond. Upon the completion of the transaction, the creditor receives the loan and the debtor obtains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





BONDED LENDING



ADP: 214.21% C

- 22  38

OTHER DERIVATIVES

OPEN SOURCE
SYSTEM, ALLOWING
ANY DEVELOPERS TO
PARTICIPATE

ENHANCING THE
DIVERSITY OF
DEBOND
ECOSYSTEM

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

CREATE OPTIONS
BASED ON
CONDITIONS OR
EVENT

1

2

3

4



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.

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).

LEVERAGING

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

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)

ARBITRAGING

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



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%
All Active

+ NEW PROPOSAL

Proposal C1N15: Governance Upgrade			
1	Defeated	Start Date: 8/1/2021 CLASS: 1 BOND: 15 VOTE: 18156	End Date: 8/4/2021 Quorum: 30% PROPOSAL ADDRESS: 0x109f8288a18c90507
		✓ For	7.5856K VOTE
		✗ Against	0 VOTE
Proposal C2N12: Buying WBTC			
7	Executed	Start Date: 6/1/2021 CLASS: 2 BOND: 12 VOTE: 18156	End Date: 6/4/2021 Quorum: 100% PROPOSAL ADDRESS: 0x109f8288a18c90507
		✓ For	25.109K VOTE
		✗ Against	381.05 VOTE
Proposal C3N31: Salary for CM			
4	Executed	Start Date: 4/14/2021 CLASS: 3 BOND: 21 VOTE: 18156	End Date: 4/17/2021 Quorum: 100% PROPOSAL ADDRESS: 0x109f8288a18c90507
		✓ For	29.02K VOTE
		✗ 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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38

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

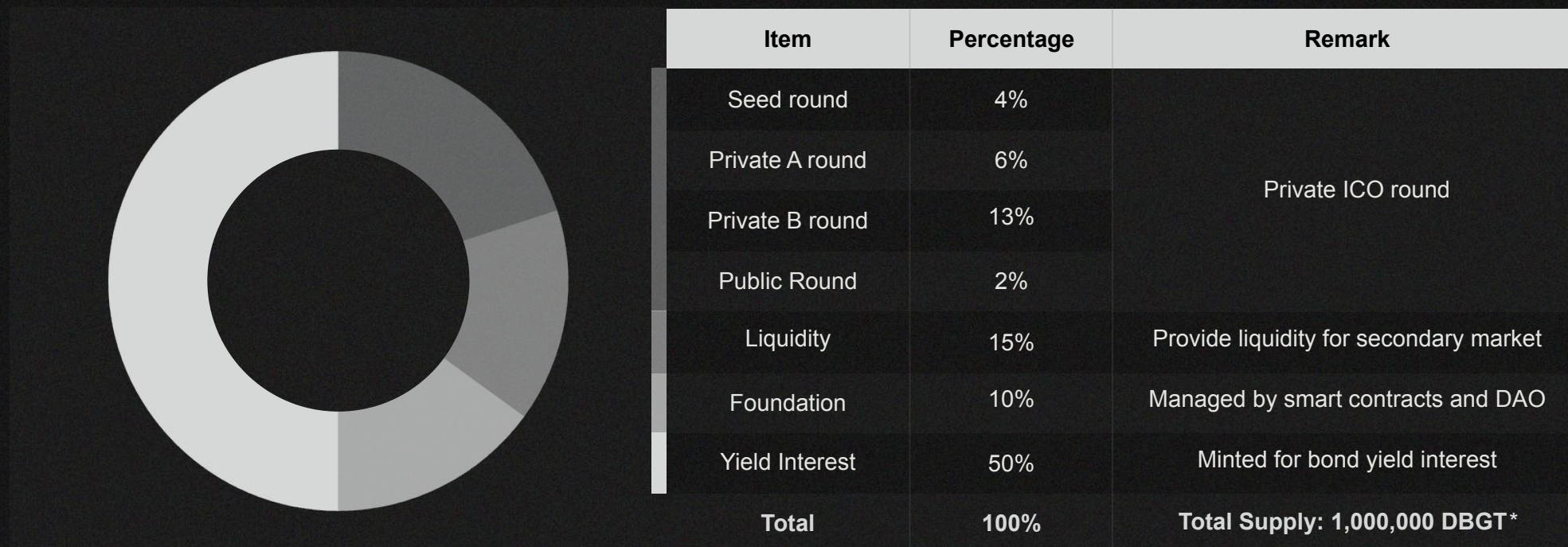
Round	Token Number	Price	Initial Shares Proportion	Financing Target	Token Unlocking Rule
Seed Round (ICO)	40000	\$12.5	4%	\$500,000	Tokens are unlocked during the first 9 months after listing through TVL; the locked portion will be linearly released in the next 9 months.
• Private A (ICO)	60000	\$20	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

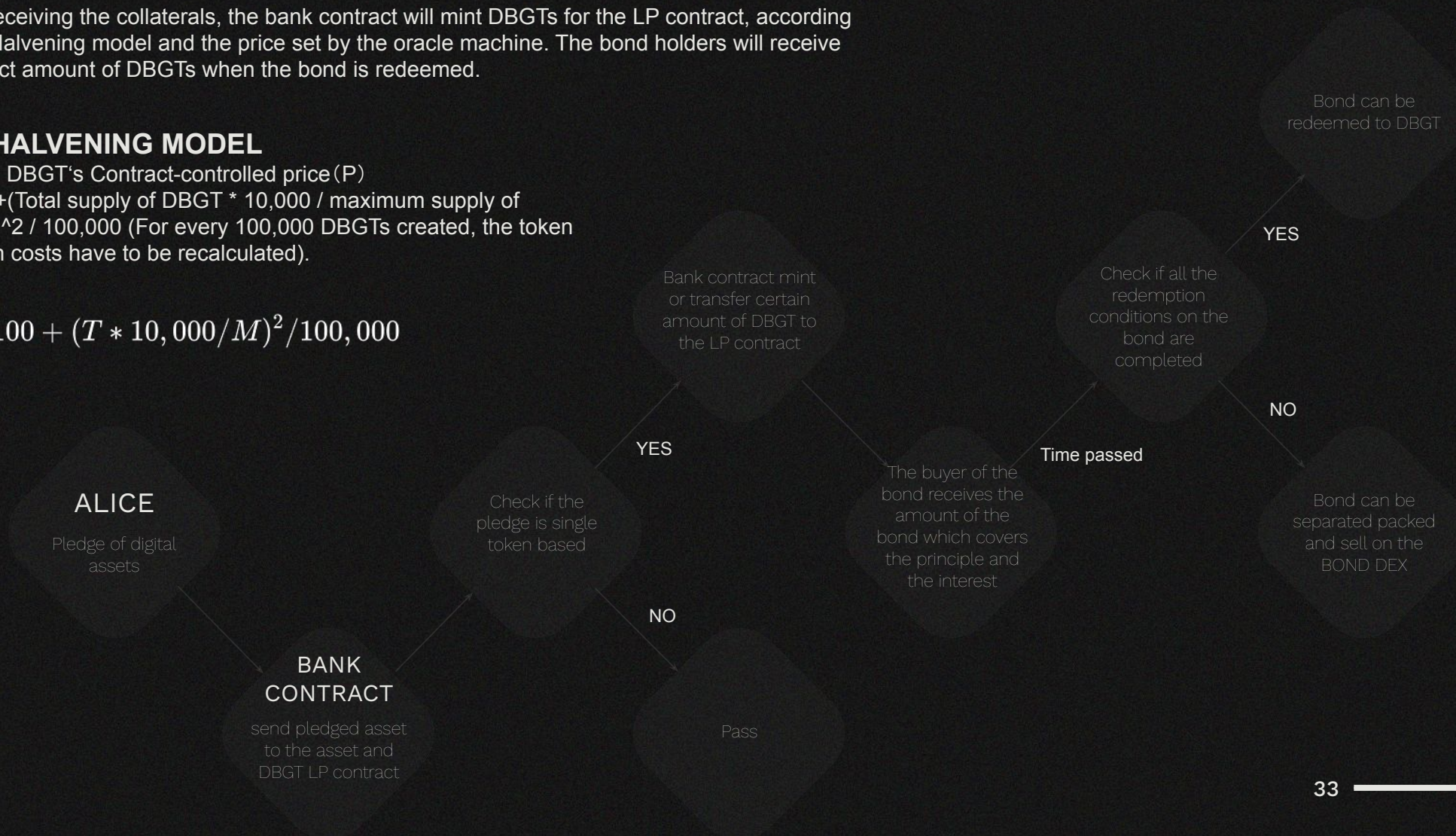
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- **THE HALVENING MODEL**

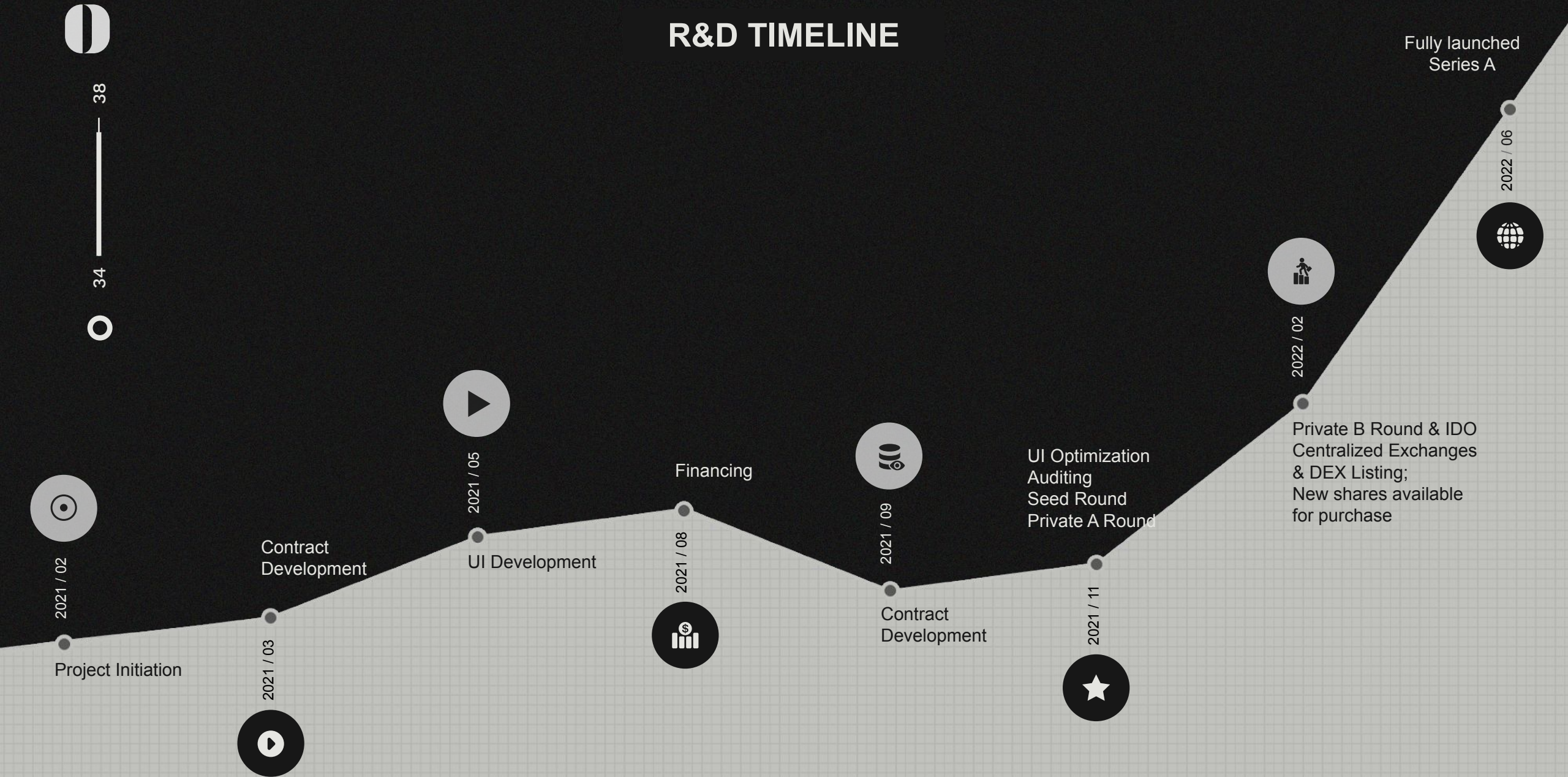
DBIT to DBGT's Contract-controlled price (P)
= $100 + (\text{Total supply of DBGT} * 10,000 / \text{maximum supply of DBGT})^2 / 100,000$ (For every 100,000 DBGTs created, the token creation costs have to be recalculated).

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



2021-08

R&D TIMELINE



34 — 38



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 12 members from France, Ukraine, India, Malaysia and United States. Members who has involved with the development of Iota, Polygon, SwapHelper, Bithumb, Grap.finance, Maker DAO, Alpha wallet, etc..



TEAM MEMBERS

YUL

Founder & CEO

Risk Management Analyst, AXA
Founder and Developer of SwapHelper
Developer of Grap.Finance
MS. Sociology and Economics,
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Investor of Globe Derivative Exchange

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Abderahman J

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Front End Lead, AXA Life Invest
Front End Lead, Euler Hermes
Études entrepreneuriat,
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COINHOUSE CUSTODY SERVICES

Oleksandr K, Ph.D.

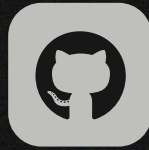
Infrastructure Architect Advisor
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AWS Partner, AWS Certified Solutions Architect,
Solution developer for Maker DAO, Alpha Wallet, AWS, etc.

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

