Minexx Security Token

Funding for the
Artisanal Transformation Impact Fund (ATIF)

Presented By
Cristoph Renschler
Kurt Martin-Brown
Tyler Danno
Eoin Quigley
Matt Votta

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Artisanal miners are at the start of a long and opaque value chain

Artisanal miners . . .

. . . work in **high risk** while living in poverty.

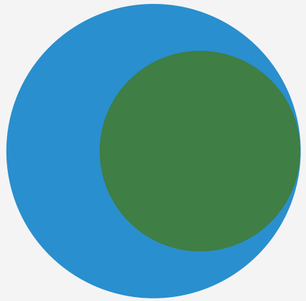
. . . are subject to **unfair payments**.

. . . have **no access to loans** or life improving services.

$800
Avg. Smartphone

$1
Raw Materials

≈20% **of all sourced minerals come from artisanal and small-sight mines (ASM)**



250 million
people dependent on the sector

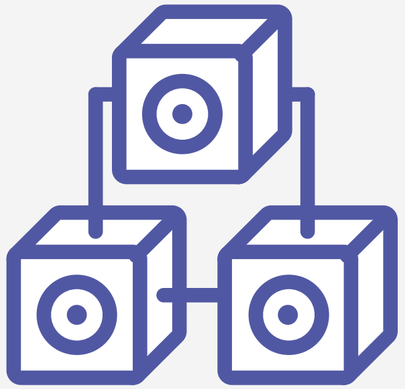
40% women
subject to unequal pay

Clean Tech transition

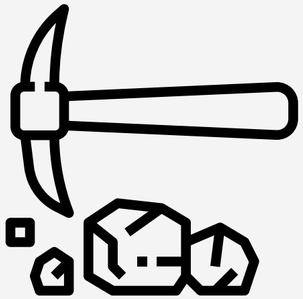
- Increasing Ethical Consumerism
- New Conflict Minerals EU regulation

https://ec.europa.eu/trade/policy/in-focus/conflict-minerals-regulation

MineSmart



- Miners are registered on the blockchain platform
- Minerals are purchased from the miners with digital payments
- KYC/AML risks are managed
- Miners, tech companies and governments benefit



ATIF

- Mineral buyers can invest to secure supply of responsibly sourced minerals
- Provides miners with the opportunity to take out loans
- Funds working capital and equipment to transform sites

Security Tokens

A security token is a tokenized version of a traditional financial instrument.

MNEX Token = debt security token

Owning tokens = entitlement to interest payments

Benefits

1 **GREATER LIQUIDITY**

removal of intermediaries currently necessary for transfer of traditional securities

2 **MORE EFFICIENT TRANSFERS**

time consuming processes replaced by smart contracts

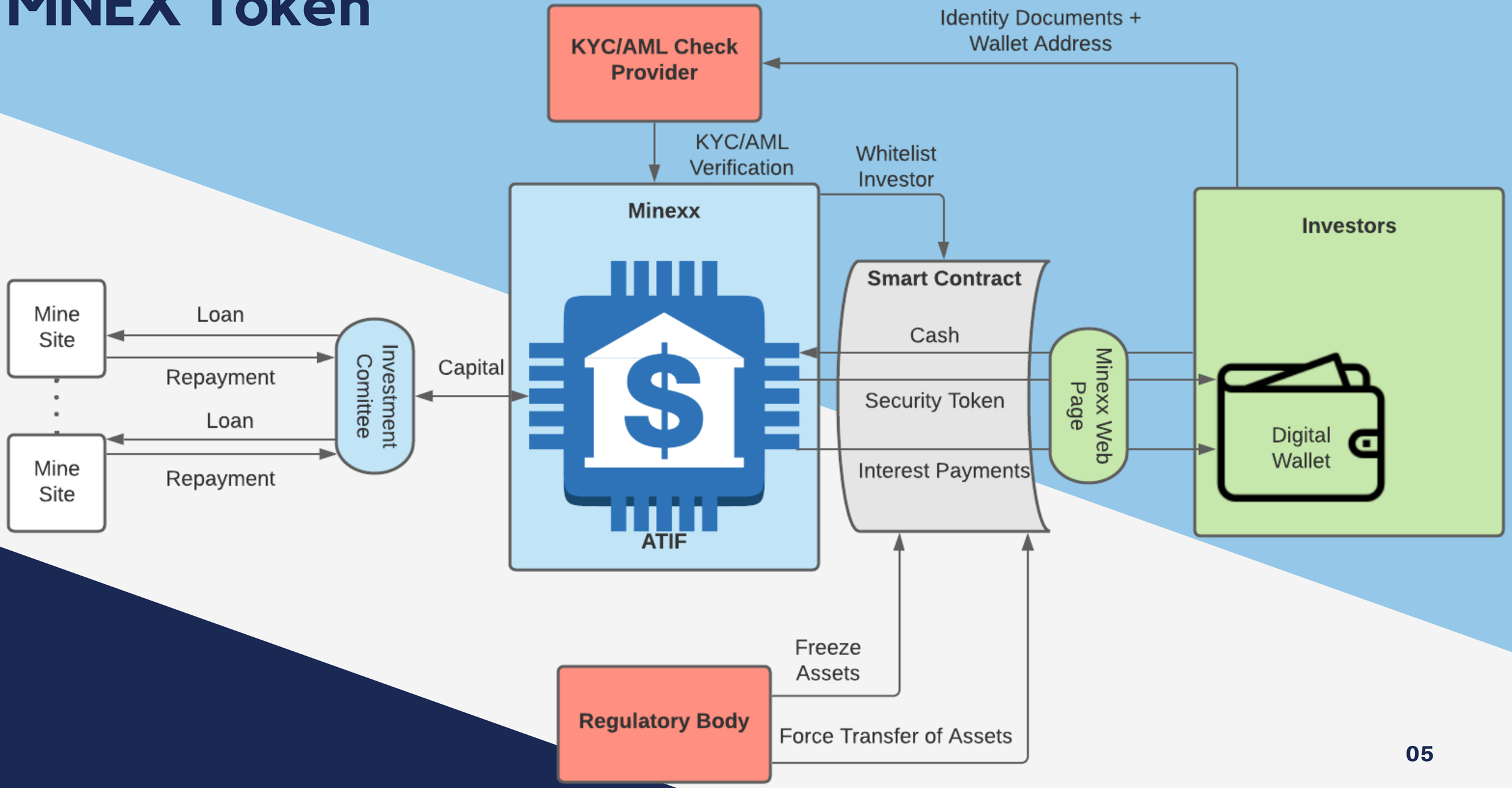
3 **IMPROVED INVESTOR MANAGEMENT**

maintenance of investor list/cap table is automated

4 **AUTOMATIC INTEREST**

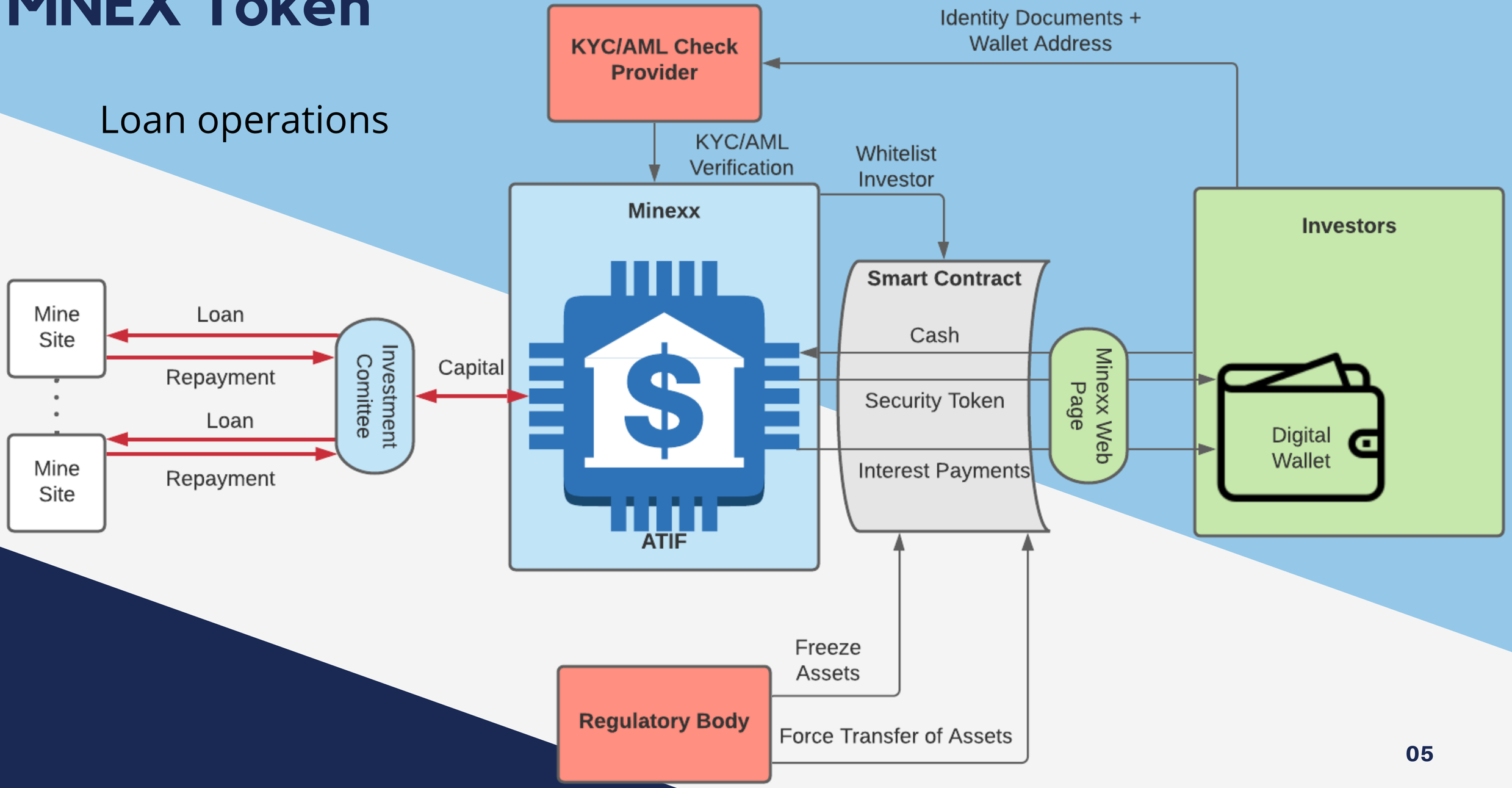
more efficient and transparent payment and transfer of interest accrued by tokens

MNEX Token


KYC/AML Check Provider
Identity Documents + Wallet Address
KYC/AML Verification
Whitelist Investor
Minexx
Investors
Smart Contract
Cash
Security Token
Interest Payments
Minexx Web Page
Digital Wallet
Mine Site
Loan
Repayment
Mine Site
Loan
Repayment
Investment Comittee
Capital
ATIF
Freeze Assets
Regulatory Body
Force Transfer of Assets

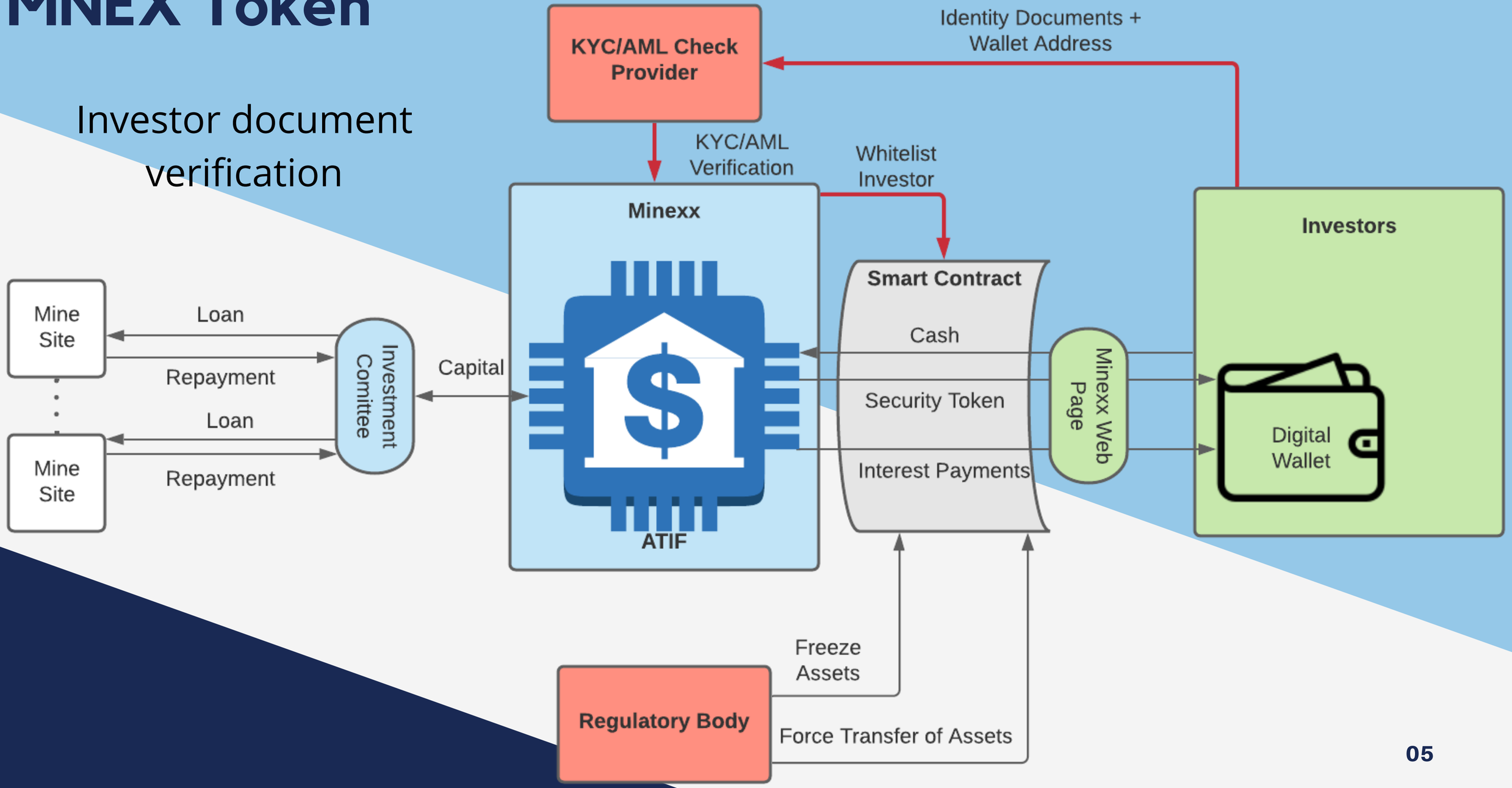
MNEX Token

Loan operations



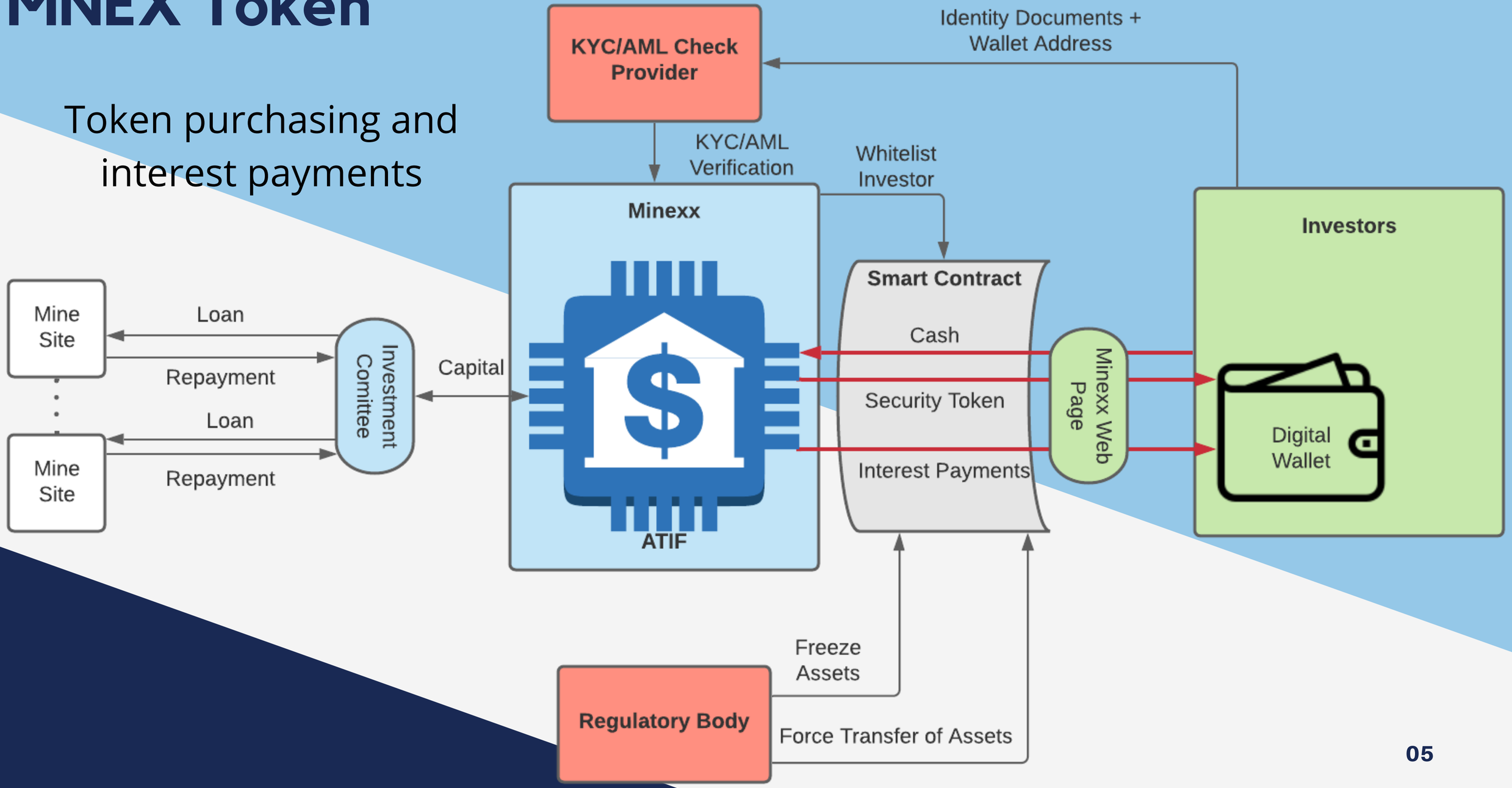
MNEX Token

Investor document verification



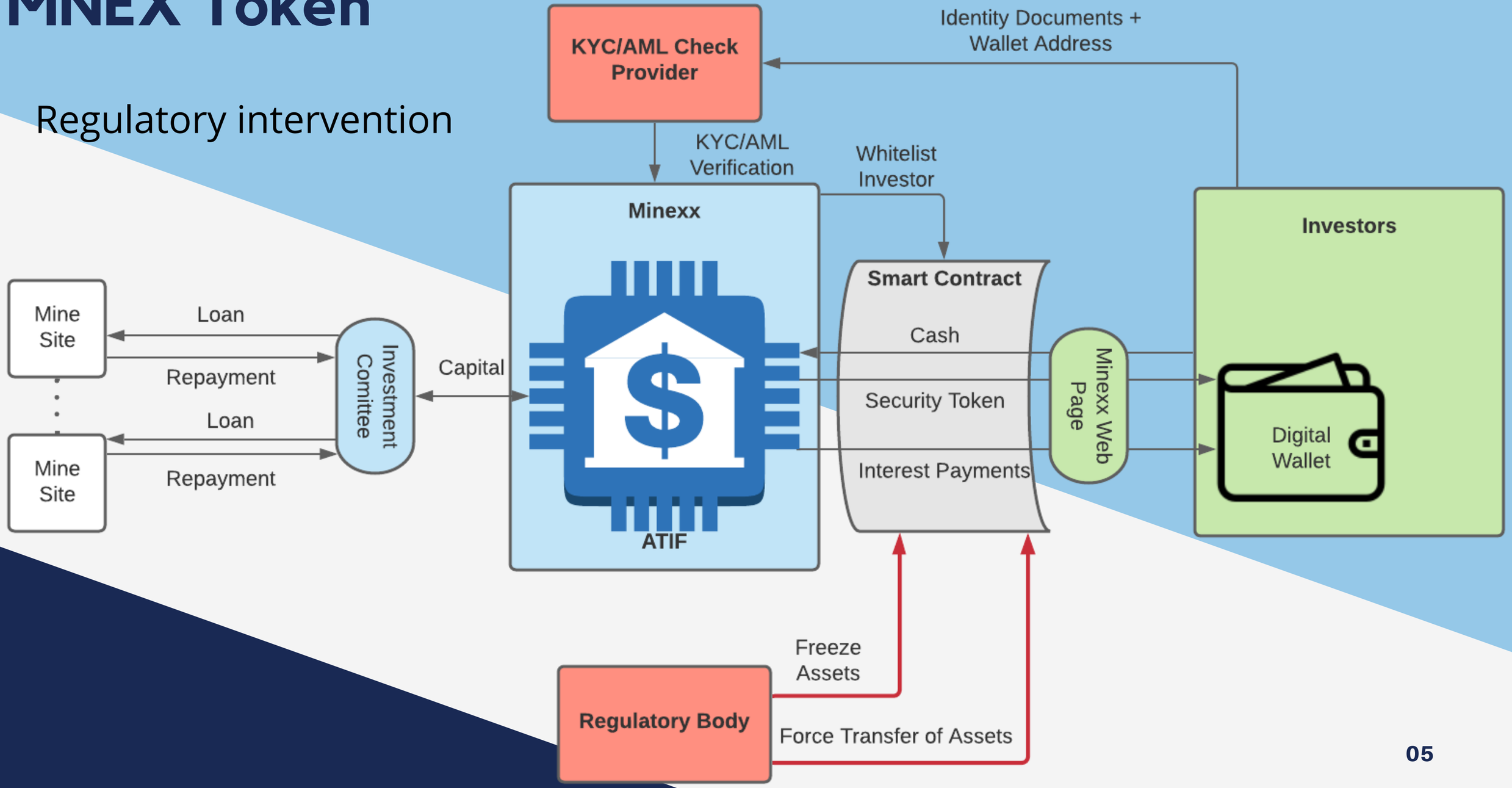
MNEX Token

Token purchasing and interest payments



MNEX Token

Regulatory intervention



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DEPLOY & RUN TRANSACTIONS

ENVIRONMENT

JavaScript VM

ACCOUNT

0x5B3...eddC4 (100 ether)

GAS LIMIT

3000000

VALUE

0 ether

CONTRACT

MNEXTok - contracts/MNEX Token.sol

Deploy

Publish to IPFS

OR

At Address | Load contract from Address

Transactions recorded 0

Deployed Contracts

Currently you have no contract instances to interact with.

Home | MNEX Token.sol | myContract3.sol | myContract.sol | 1_Storage.sol | myContract2.sol | 6 tabs

```
21
22
23          uint256 buyTime;
24          bool interestCalculated;
25          bool interestClaimable;
26
27      }
28
29
30
31      mapping (address => bool) public whitelistedInvestors;
32
33
34      mapping(address => wallet) public accounts;
35
36
37      address payable Minexx;
38
39      uint256 public monthlyInterestRate;
40
41      uint256 public tokensAvailable;
42      uint256 totalTokenSupply;
43
44      uint32 MONTH_IN_SECONDS = 60;
45
46      constructor() payable {//deployed with the Minexx address
47          Minexx = payable(msg.sender); //owner is the account that deploys the smart contract (so MINEXX)
48          totalTokenSupply = 0;
49      }
50
51      event NewTokensMinted(
52          uint32 _amount
53      );
54
```

ContractDefinition MNEXTok 0 reference(s)

0 listen on network | Search with transaction hash or address

[vm] from: 0xAb8...35cb2 to: MNEXTok.checkIfClaimable() 0x7EF...8CB47 value: 0 wei data: 0xce0...9ef16 logs: 0 hash: 0xe22...d1207 Debug

call to MNEXTok.displayTestBalances

call [call] from: 0xAb8483F64d9C6d1EcF9b849Ae677dD3315835cb2 to: MNEXTok.displayTestBalances() data: 0xbd3...19bcb Debug

transact to MNEXTok.calculateInterestOwed pending ...

[vm] from: 0xAb8...35cb2 to: MNEXTok.calculateInterestOwed() 0x7EF...8CB47 value: 0 wei data: 0xd45...8fdd3 logs: 0 hash: 0x816...0e9a2 Debug

transact to MNEXTok.calculateInterestOwed errored: VM error: revert. revert The transaction has been reverted to the initial state. Note: The called function should be payable if you send value and the value you send should be less than your current balance. Debug the transaction to get more information.

>

minexx.codes

Next Steps

SMART CONTRACT

POLYMESH

Migrating smart contract to Polymesh blockchain, due to a number of advantageous features it has for security tokens over Ethereum.

INTEREST RATE

Adapting the smart contract so that it interacts directly with the MineSmart platform in order to pull a live interest rate, rather than having Minexx actively set the rate each month.

WEBSITE

TRANSPARENCY

Transparent statistics pulled dynamically from the MineSmart platform:

- **N** current investors
- **P%** average interests

FAQ

Several frequently asked questions to better outline certain points for investors

INTEGRATION

Direct integrating of a crypto exchange into minexx.codes using the Polymath API

MINEXX

Thanks for watching

note to markers - this slide and the next were not included in the presentation, but the second was shown at the end during Q&A

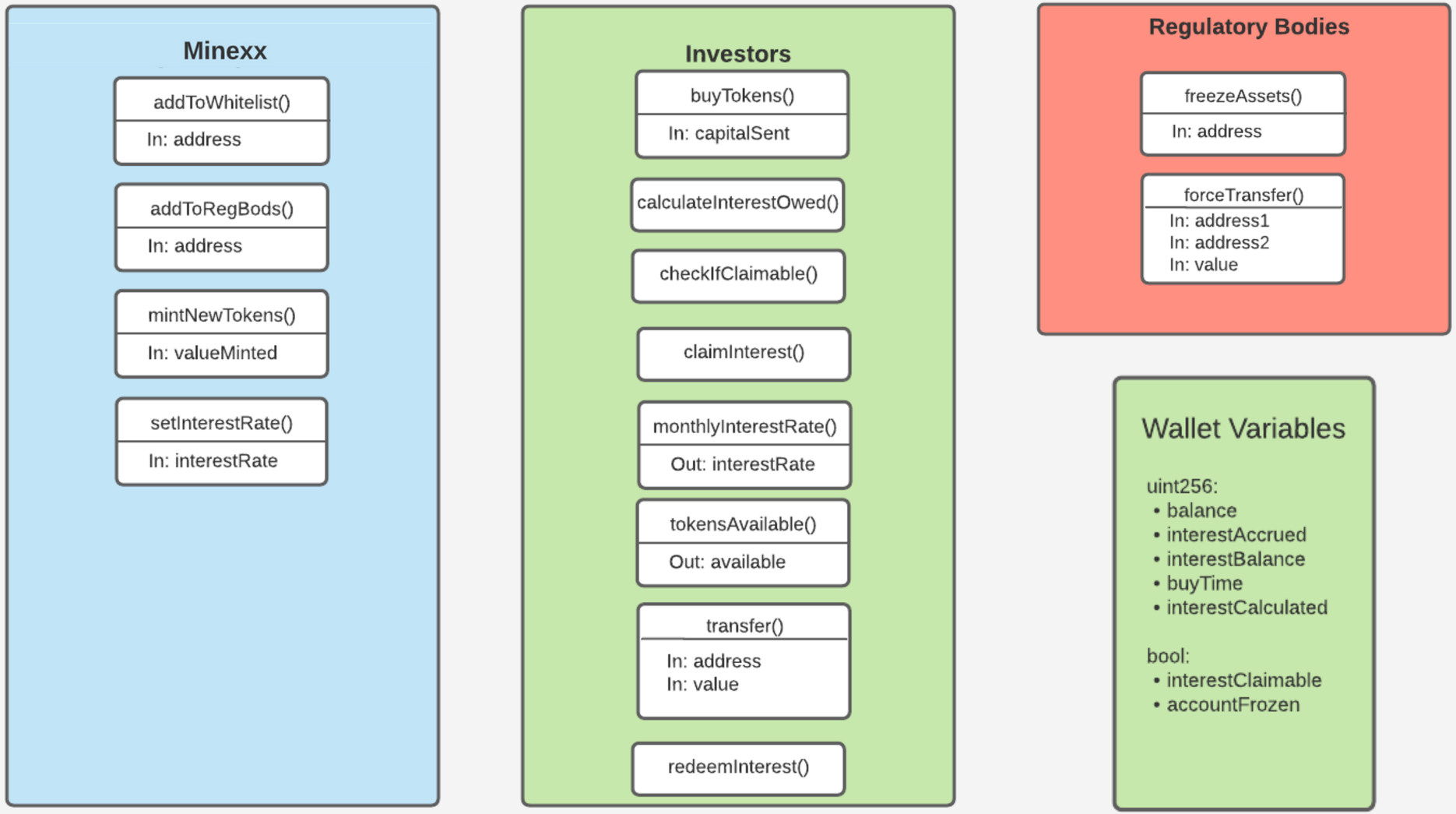
VS

Why Polymesh?

Polymath's Polymesh network is specifically designed for ease of issue and management of security tokens

How it is advantageous over Ethereum:

- No hard forks
- Probabilistic finality of transactions
- No issues with identity
- Confidentiality

MNEX Smart Contract

Function Permissions