

BCDEx Network

The Paradigm Shift of BTC-native DeFi



BITCOIN DECENTRALIZED EXCHANGE NETWORK

BCDEx.net

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DeFi+BTC =
100x Potential

02

BCDEX Demo
Tech Fundamentals

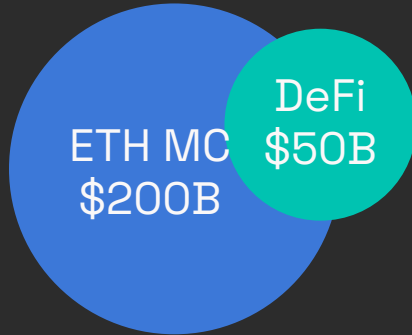
03

BCDEX Network
Status quo

04

More dApps
built on BCDEX

DeFi needs BTC, and soon

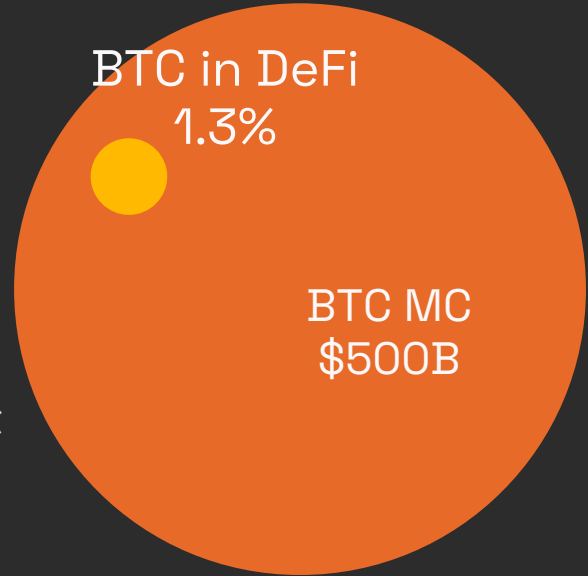


DeFi TVL
capped by L1 MC

Market Size
100x



To exchange native BTC
w/ assets on EVM



Most BTC is hibernating

Source: CMC

WBTC \$4b, BTCB \$1.4b, HBTC \$1b, renBTC \$100m, RBTC \$100m

Native BTC DeFi benefits BTC



No reliable yield for BTC
BTC 5.2% APY on FTX is a scam



LSD makes ETH into interest
bearing assets with 5% APY



WBTC or BTCB/HBTC are not
reliable nor decentralized

What is BCDEX?

An exchange protocol which enables native BTC DeFi and NFT - allowing developers to construct dApps on top of it.



What is BCDEX

NATIVE on
BTC Mainnet &
Lightning Network

Swap
dApp

Lending
dApp

Payment
dApp

dApp &
Ecosystem

BCDEX Network

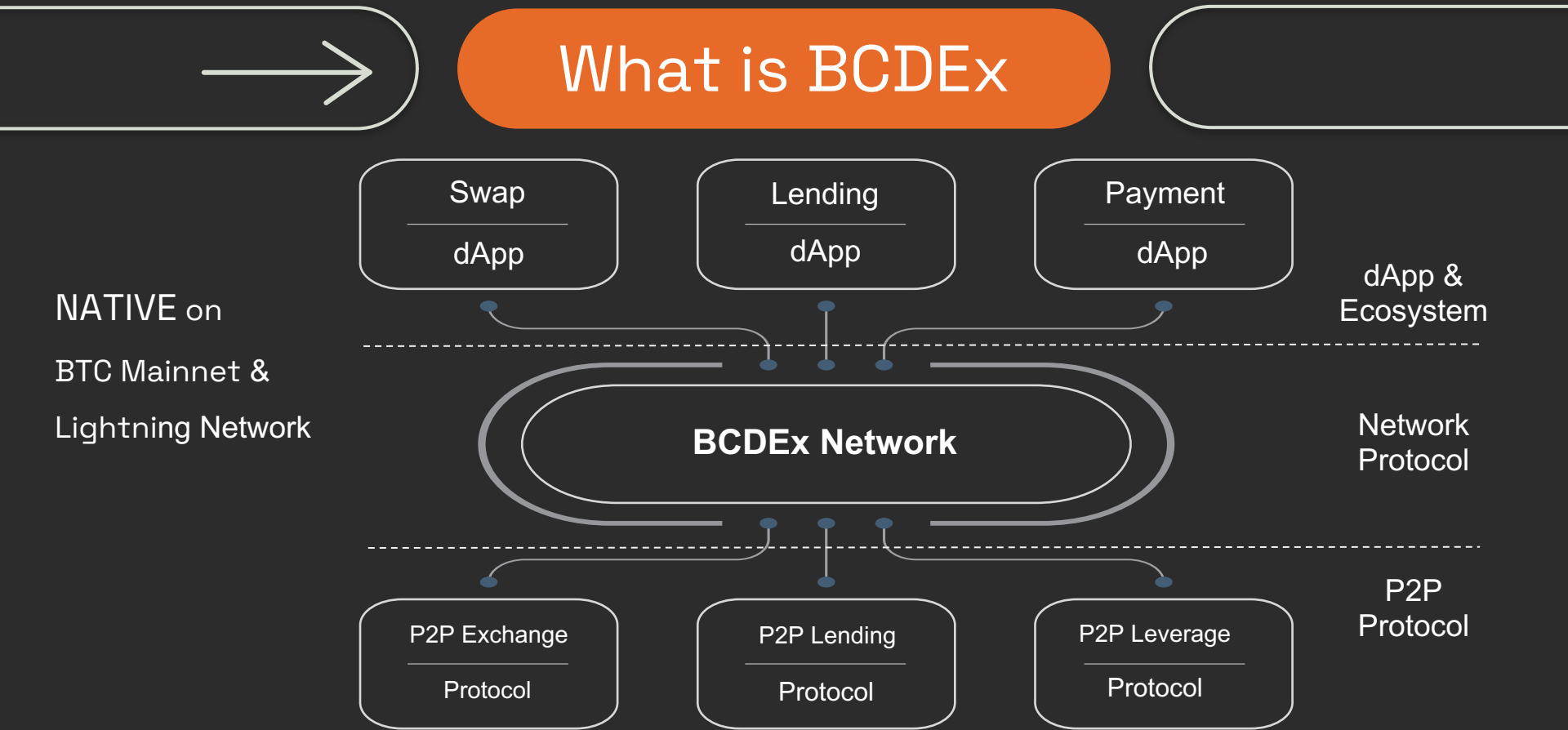
Network
Protocol

P2P Exchange
Protocol

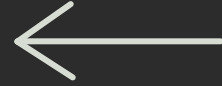
P2P Lending
Protocol

P2P Leverage
Protocol

P2P
Protocol



Tech Fundamentals

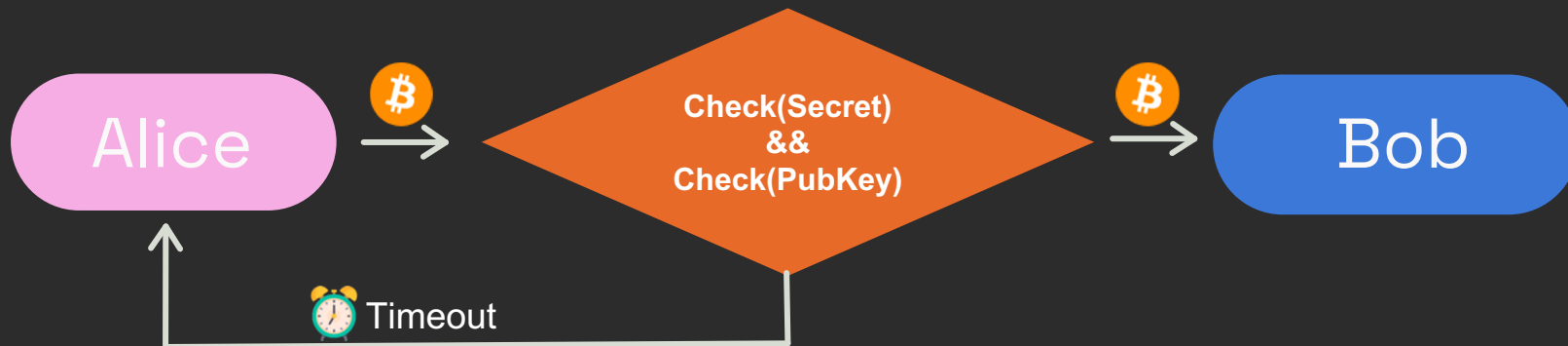
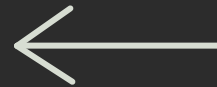


HTLC



Game Theory

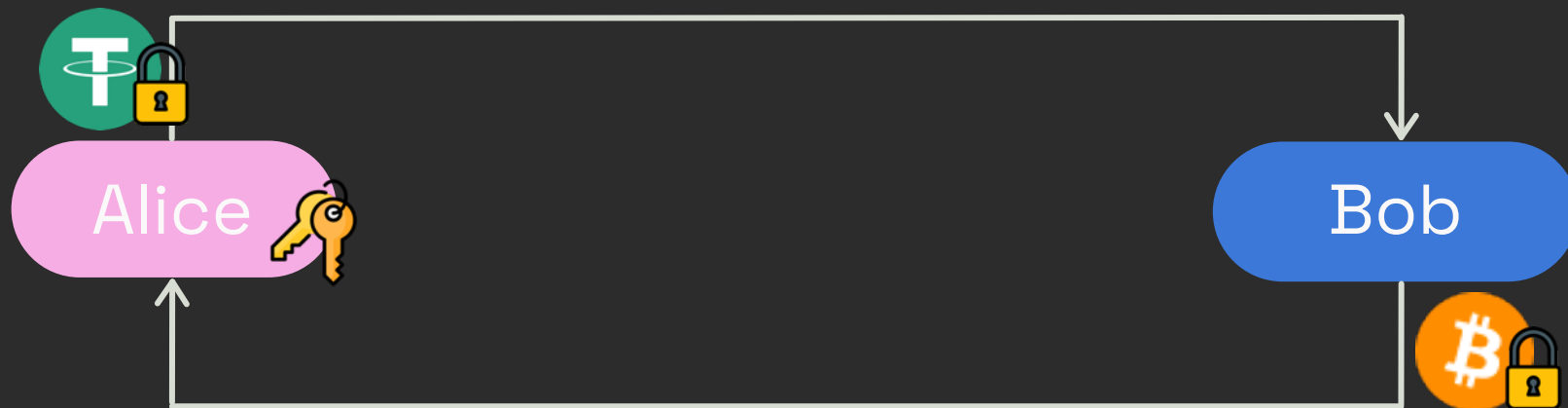
What is HTLC



```
OP_IF
  [HASHOP] <digest> OP_EQUALVERIFY OP_DUP OP_HASH160 <seller pubkey hash>
OP_ELSE
  <num> [TIMEOUTOP] OP_DROP OP_DUP OP_HASH160 <buyer pubkey hash>
OP_ENDIF
OP_EQUALVERIFY
OP_CHECKSIG
```




Atomic Swap





Atomic Swap



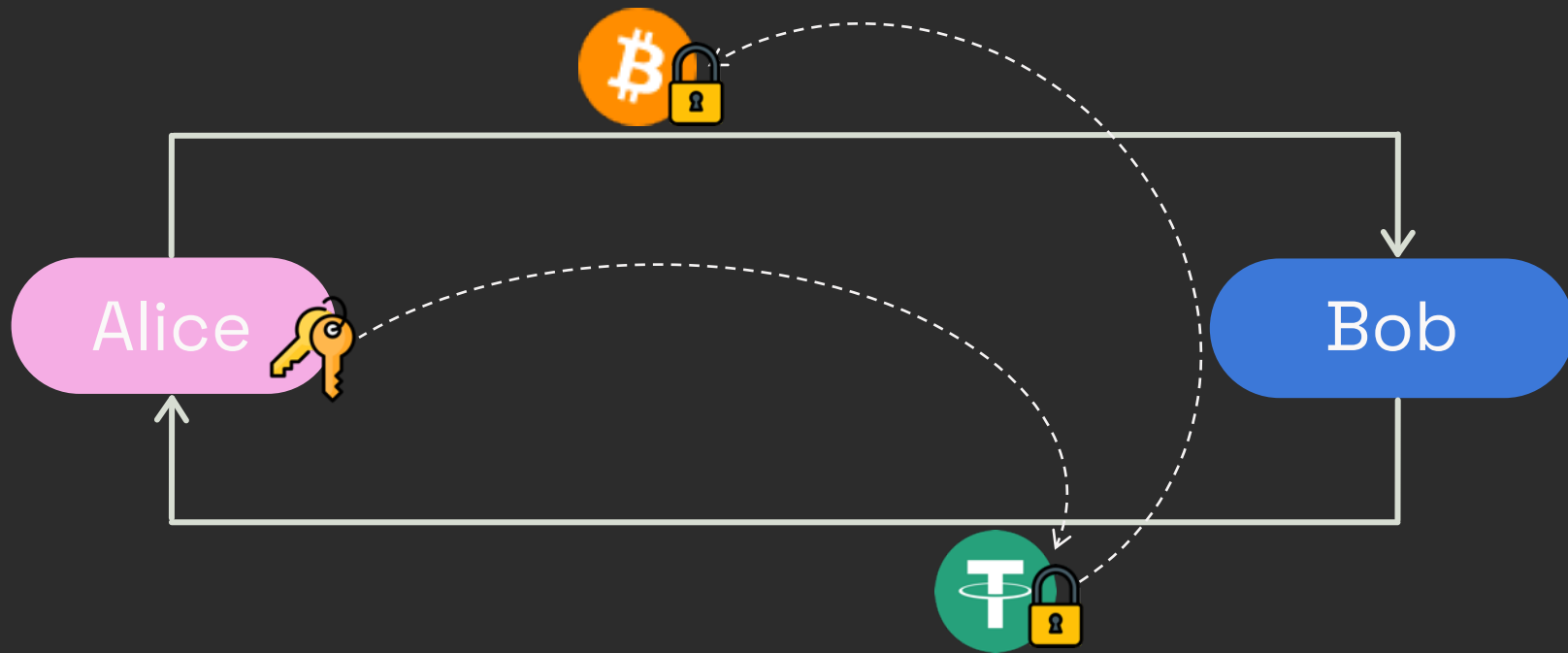
Alice

Bob





Atomic Swap



BCDEx Network

What have we built so far?



C2C Exchange

Alice

[Buy BTC Order]

Invoice	# Receive 888 SATS Lnbc8880n1pjp3t...
Seller Address	# Bob's Address: 0xABCDEX...
USDT	<Deposit> 0.25 USDT

Invoice

LNBC8880N1PJZC6FGPP5V94ZE5EGM3DQ4JL7EW5P3NCC3A62T00R83



You'll get

(invoice amount)



888 sat

0.25 USD

Deposit

Balance: 8.654335266765743693

Max



USDC

USD Coin

0.25

0.25 USD

Exchange Rate

28224.00

Reset

-1%

+1%

You Buy



BTC

0.00000888

0.25 USD

Exchange Partner Address

0xf495E080ADCC153579423a3860801a4e282B26F2

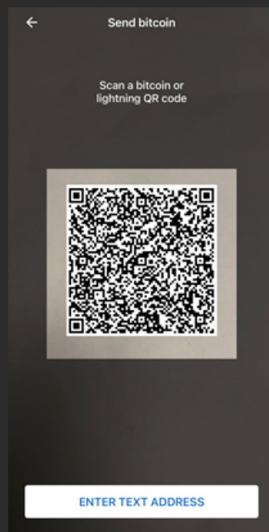


Deposit

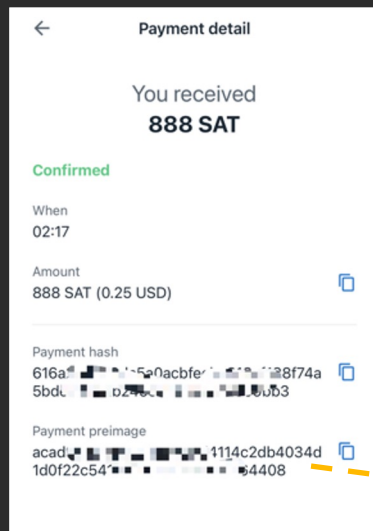


C2C Exchange

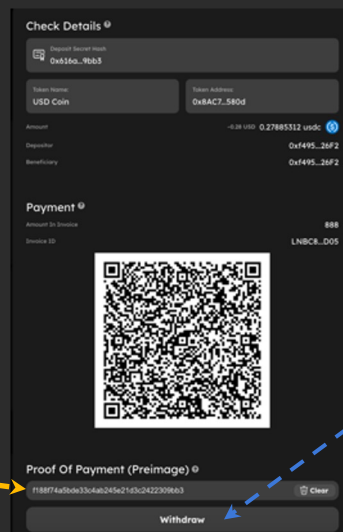
[Pay invoice]



[Get Secret]

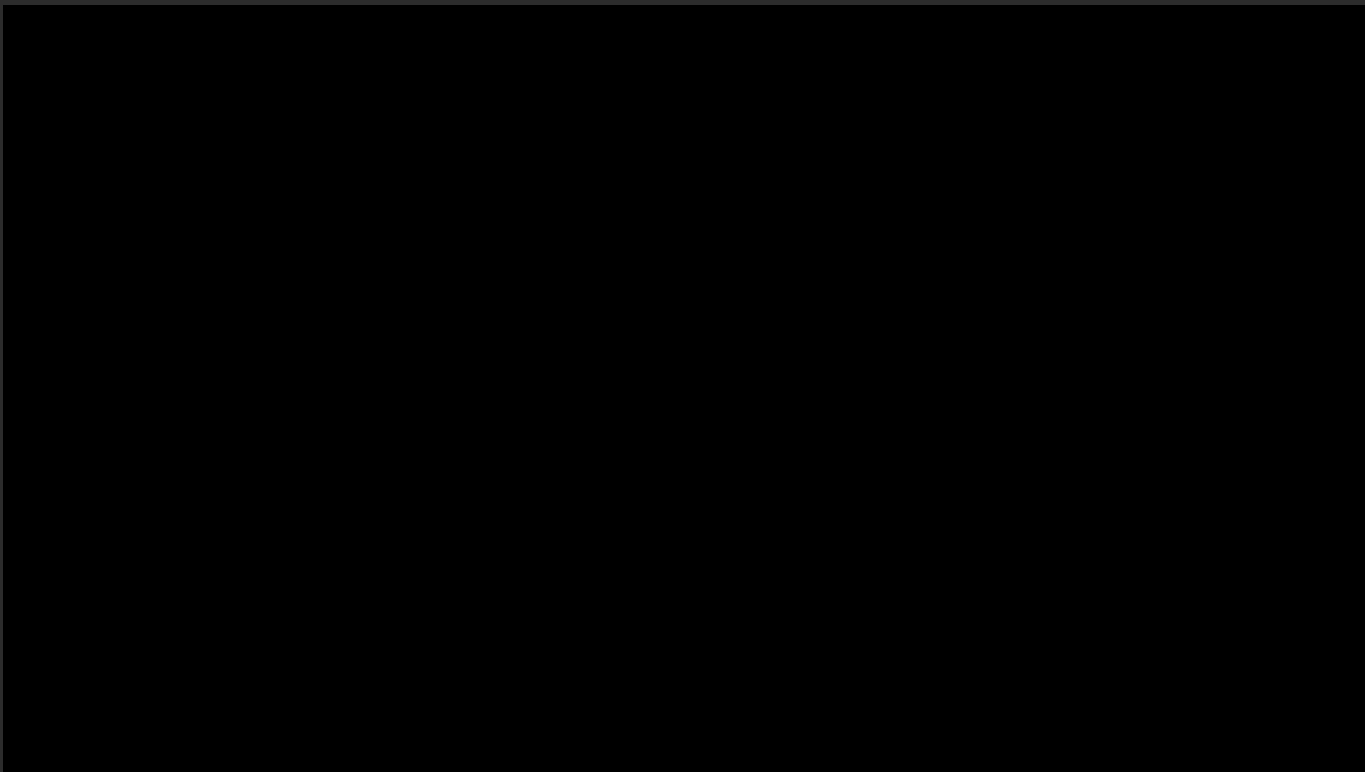


[Withdraw]



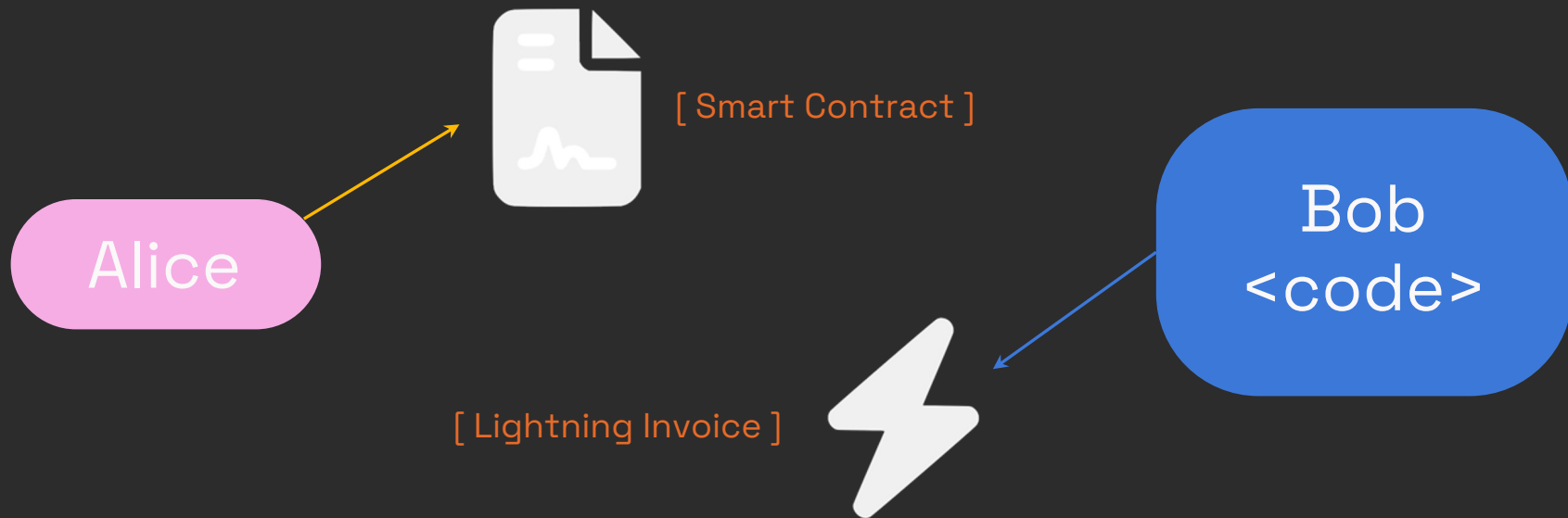
Bob

DEMO: <https://dev.bcdex.net/>



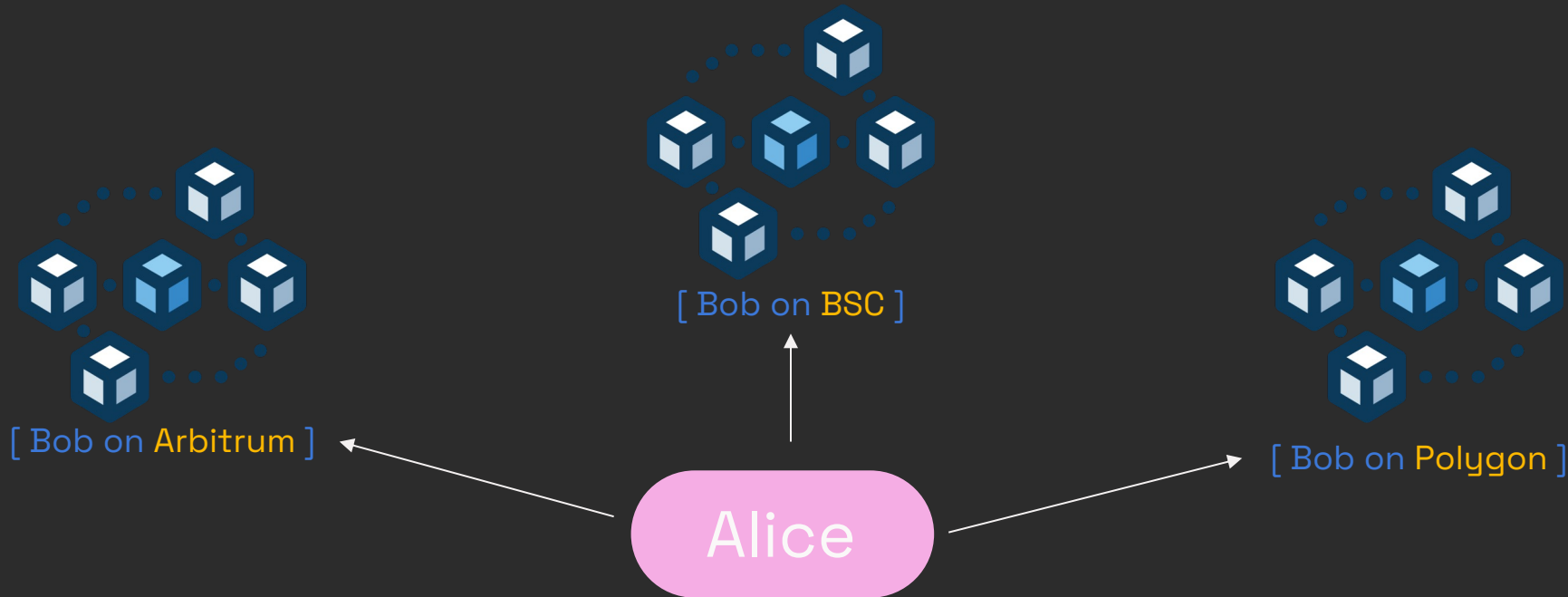


B2C and Maker



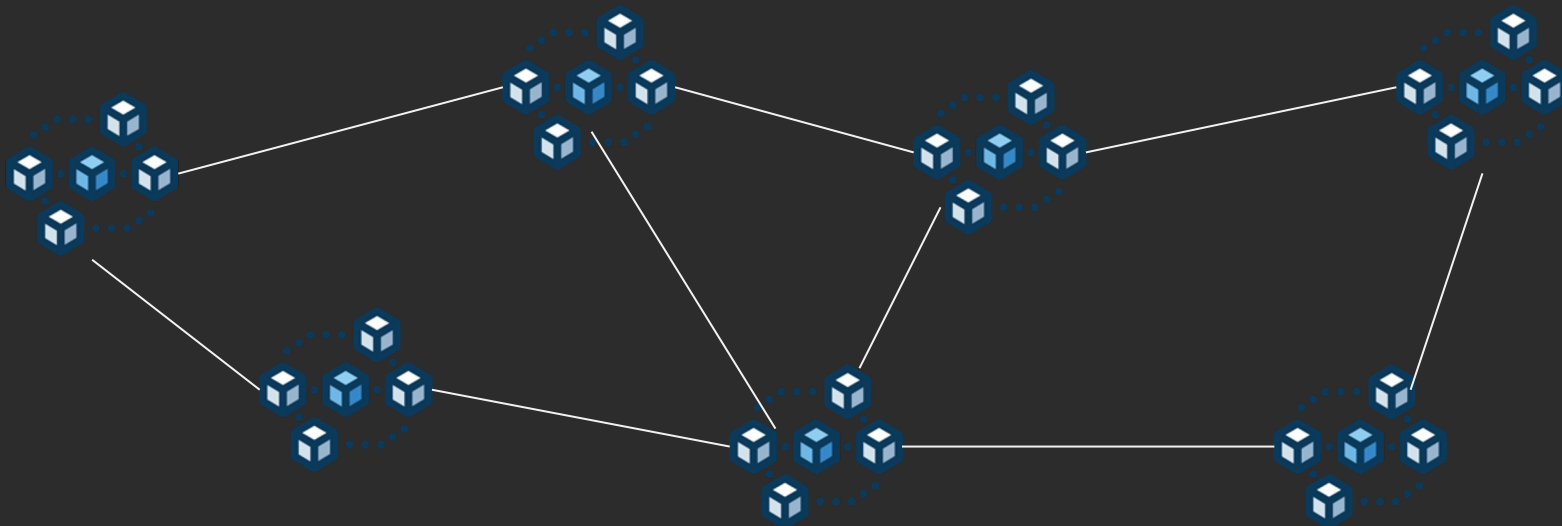


B2C and Maker





Exchange Network

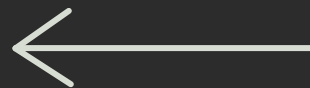


BCDEX Network

/imagine more BTC-native
opportunities...

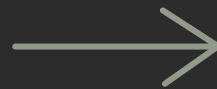
"Give people the right tools, and they will create wonderful things."
— Tim Berners-Lee (inventor of the World Wide Web)

Base On the Exchange Network

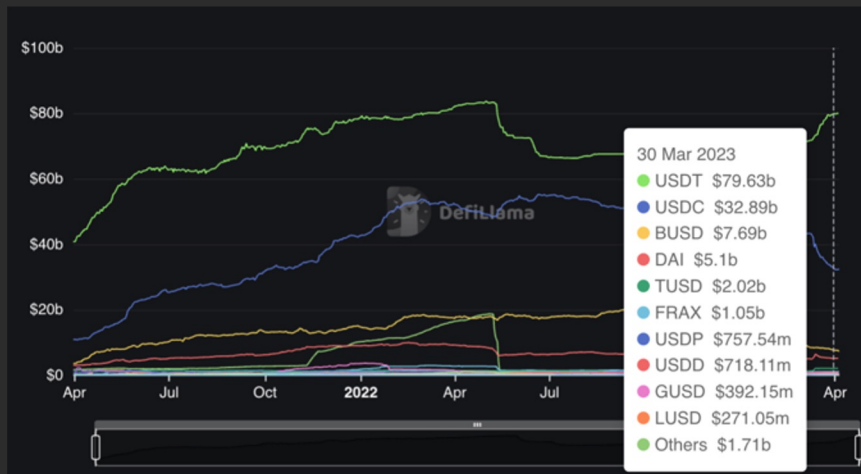


Stablecoin		Decentralized, 0% interest, BTC-native stablecoin
Swap NFT		NOT just FT, it can also be NFT, including inscriptions based on Ordinals protocol, sats name, and "BRC-20"
Swap Route		A pays B, B pays C, and C pays A, thus achieving interchain routing without direct channels
Proxy Payment		BTC believers use Lightning wallets to pay for coffee. Merchants prefer stablecoins. AMM can help convert BTC to stablecoins for payment.
Payment & Call		Encoded payment or meaning triggers contract call. Automarket makers enable payment-on-call between Lightning Network and smart contracts.

Stablecoin



Stablecoins are the Holy Grail of the crypto world



Fiat-Collateralized

USDC/USDT/BUSD

Centralization risk. On-chain and off-chain asynchronous.

Crypto-Collateralized

DAI/LUSD

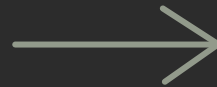
Limited scalability. High opportunity cost for ETH

Algorithmic

UST/BAS/AMPL

Not sustainable nor scalable

Stablecoin



BTC-Native Stablecoin Using CDPs

A

Decentralization

BTC PoW guarantees no dependency on any entity

B

Large Scale

Underlying assets are robust, liquid, and with the largest market cap

C

Strong Demand

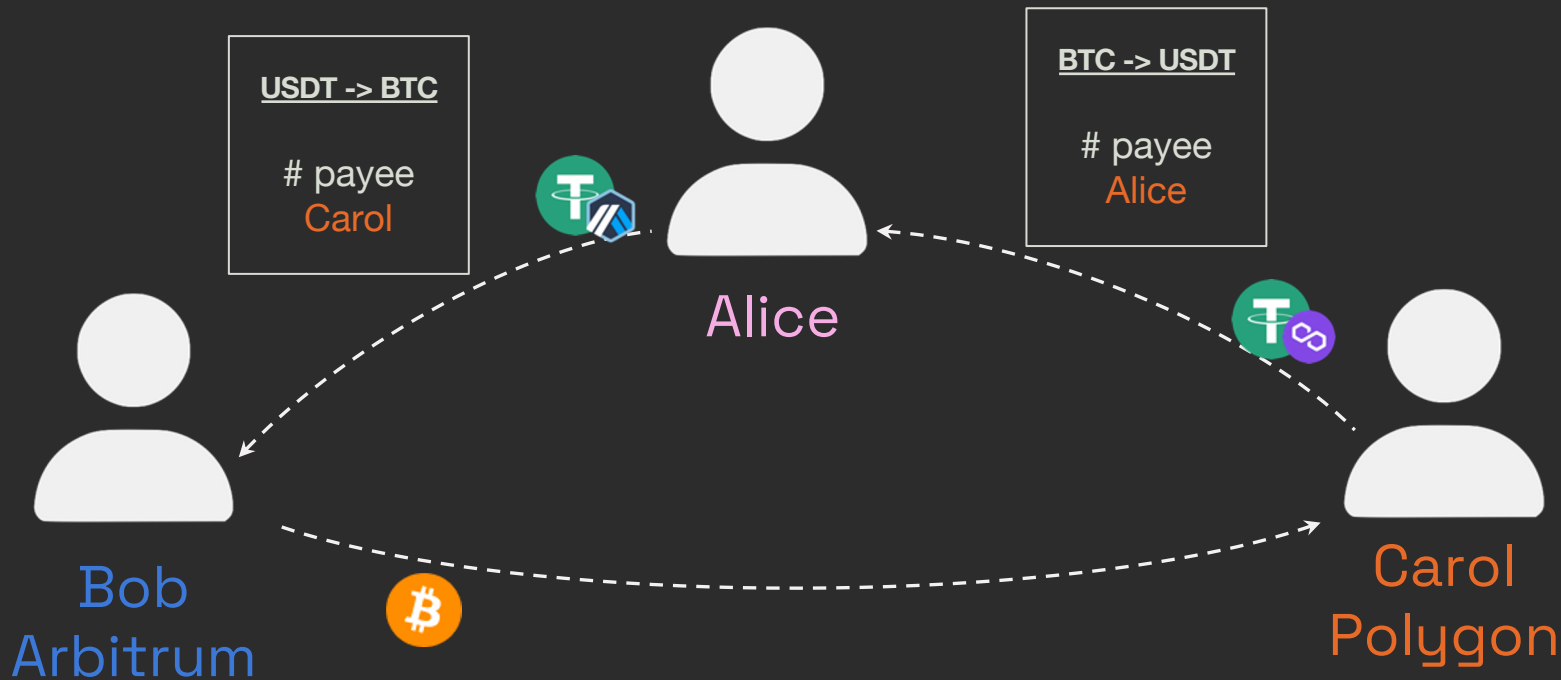
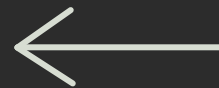
No yield-generating opportunities for BTC holders

D

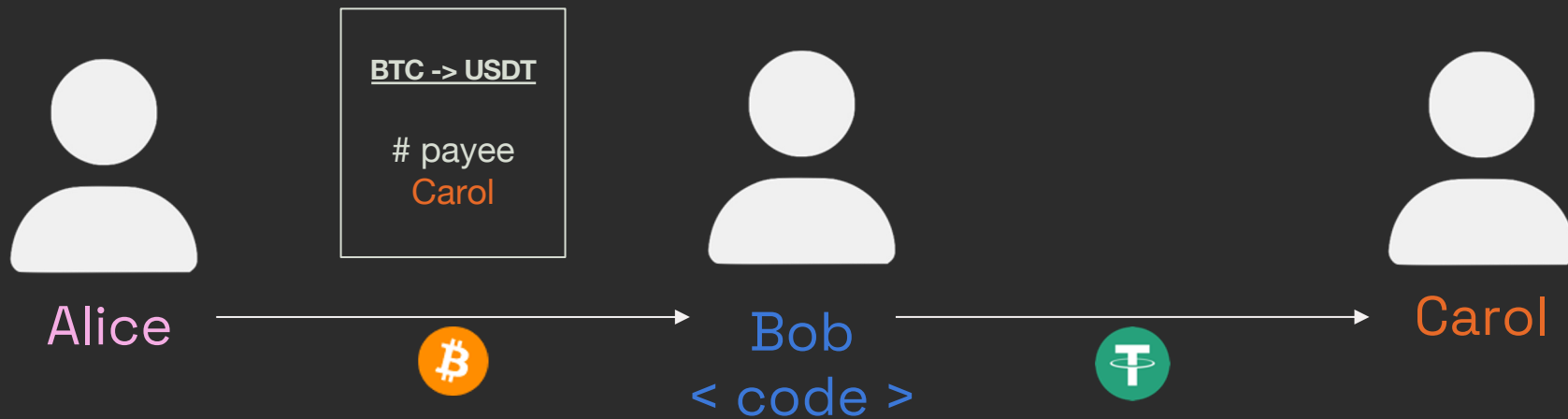
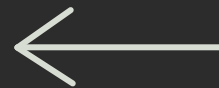
Low Cost

Lightning network is fast, cheap and secure

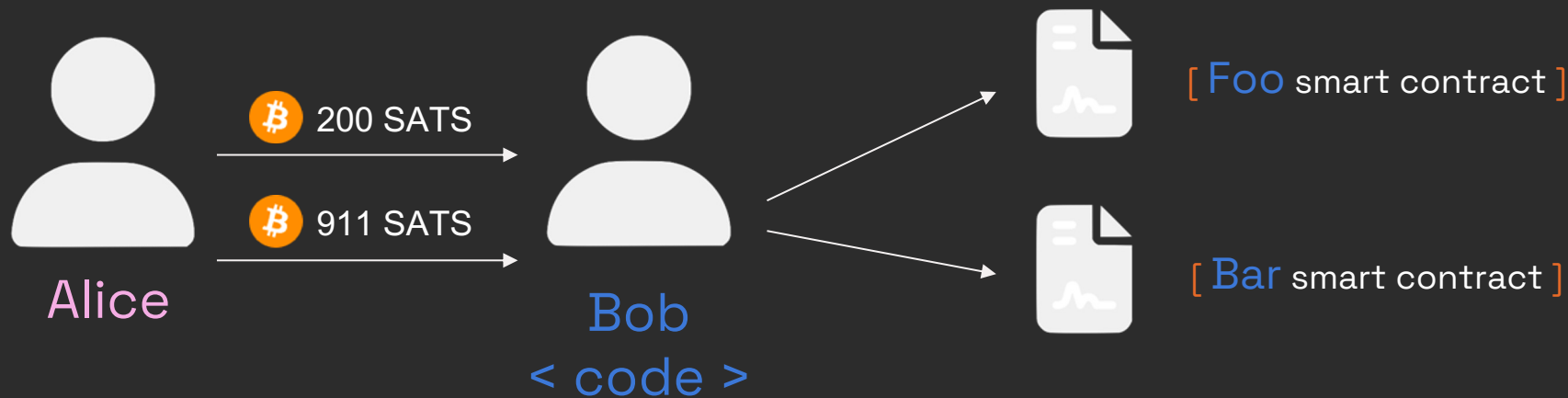
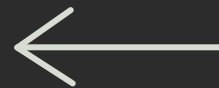
Swap Route



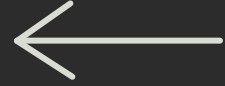
Proxy Payment



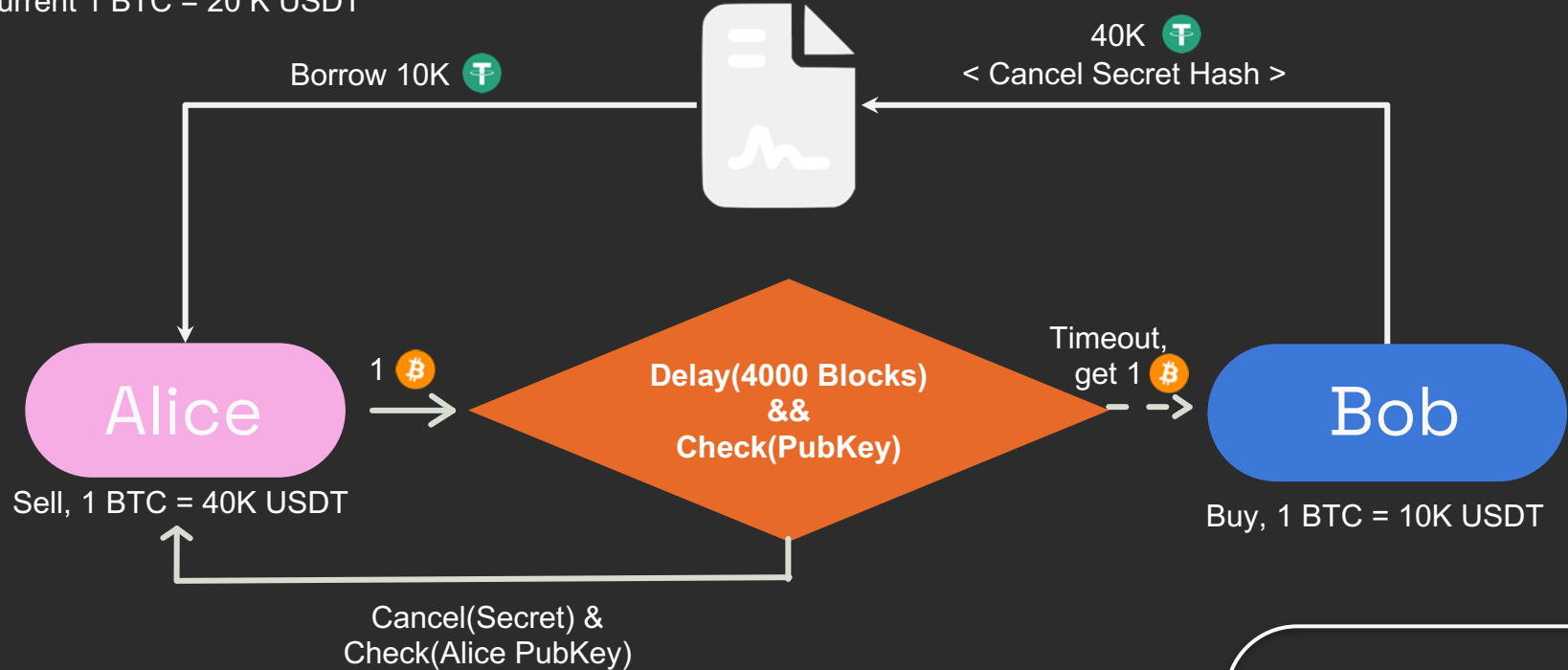
Payment and Call



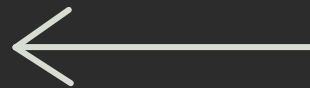
Lending Protocol



Current 1 BTC = 20 K USDT

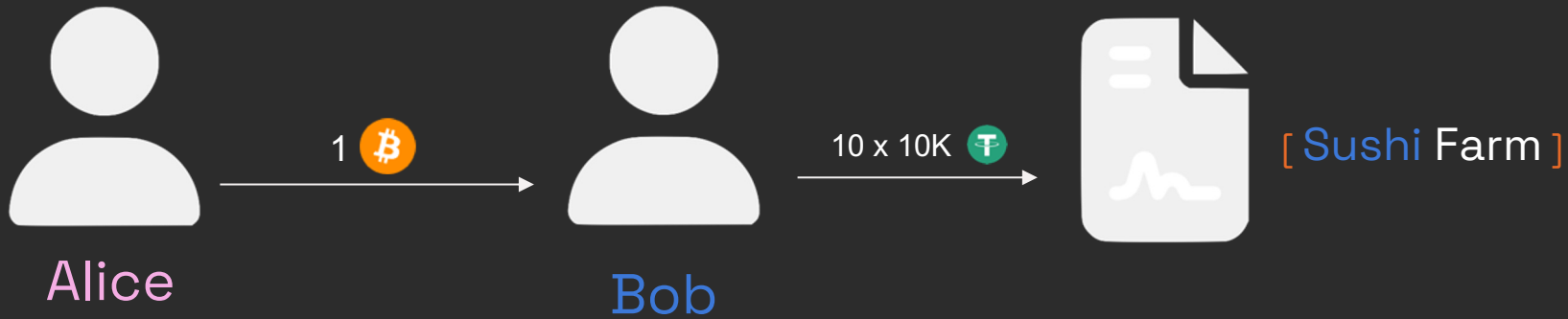


Lending Protocol

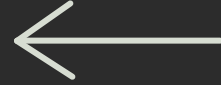


		Alice	Bob	Price
Alice	Defaulted	+10K USDT, -1 BTC	-10K USDT, +1 BTC	1 BTC < 10K USDT
	Repaid	No change	No change	
Bob	Confirmed	No change	No change	
	Defaulted	+40K USDT, -1 BTC	-40K USDT, +1BTC	1 BTC > 40K USDT

Leverage Protocol



GAME vs CONTRACT



Game

SAFE: funds stay in the wallet until a transaction occurs

Off Chain: only the final settlement is on-chain, smaller block size

ASYNCR: avoid the lightning loan attack, double confirmation

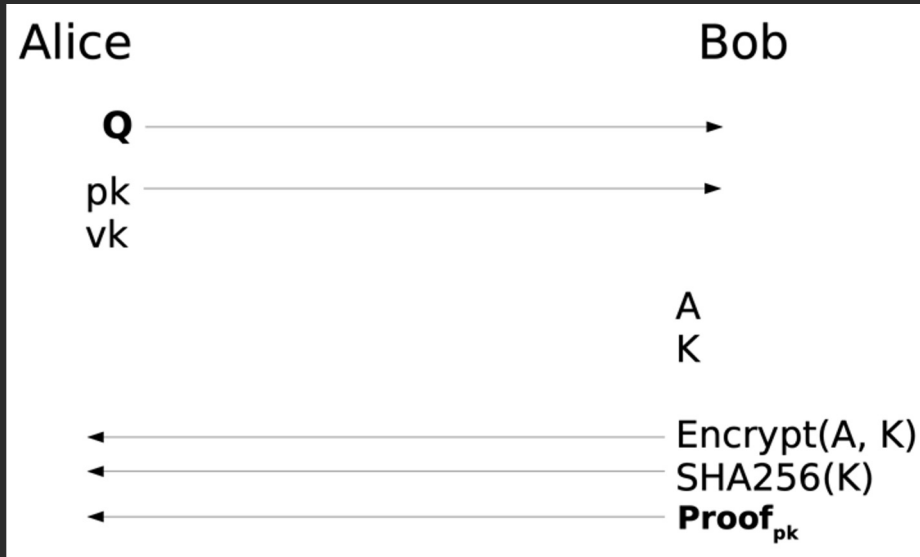
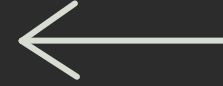
DeFi, ALL is the BUG Bounty

Sharding
L2,
POS...

Flash loan attack, re-entry attack, Swap price manipulation

Contract

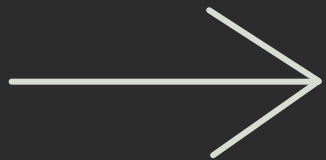
/Imagine ZK+HTLC



Step 1, Verify Proof and $E(A, K)$

Step 2, Swap K via HTLC

Given a question Q , a hash H , and an encrypted answer E , Bob know answer A and key K



Thanks!

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BCDEx.net



HAVE A TRY

