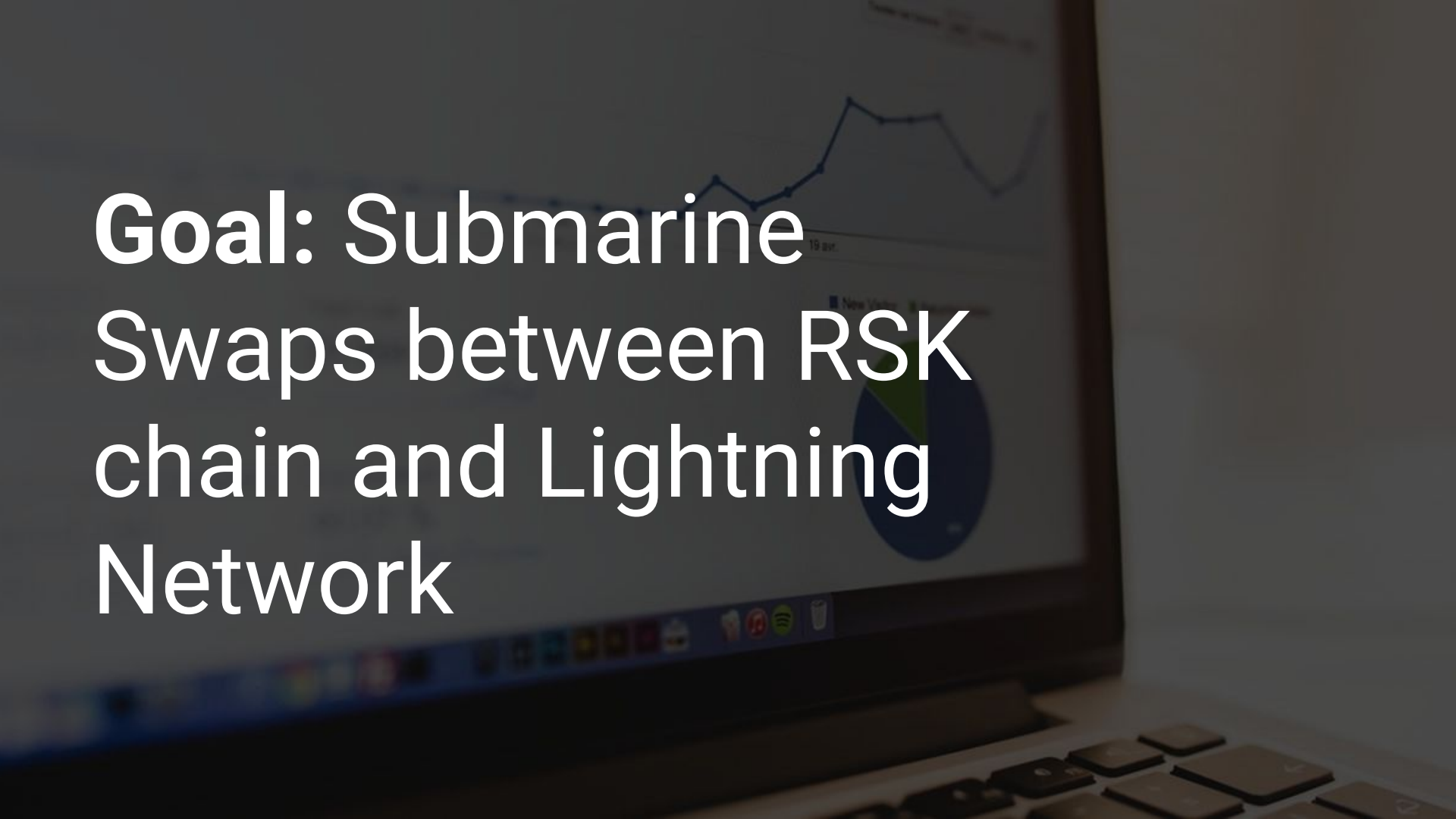# LN - SOV Bridge

## Sovrython Hackathon 2021

Pseudozach -
Mainnet SOV address: 0x0f3c187aEc8D05c01FCe70e17a5CfC4F38672488

**Goal:** Submarine Swaps between RSK chain and Lightning Network

# The solution

Boltz exchange already has a great open source product that works between BTC onchain/LN and ETH/ERC20 tokens.

# How it works - Submarine Swap

## Step 1

User creates a swap by providing LN invoice.
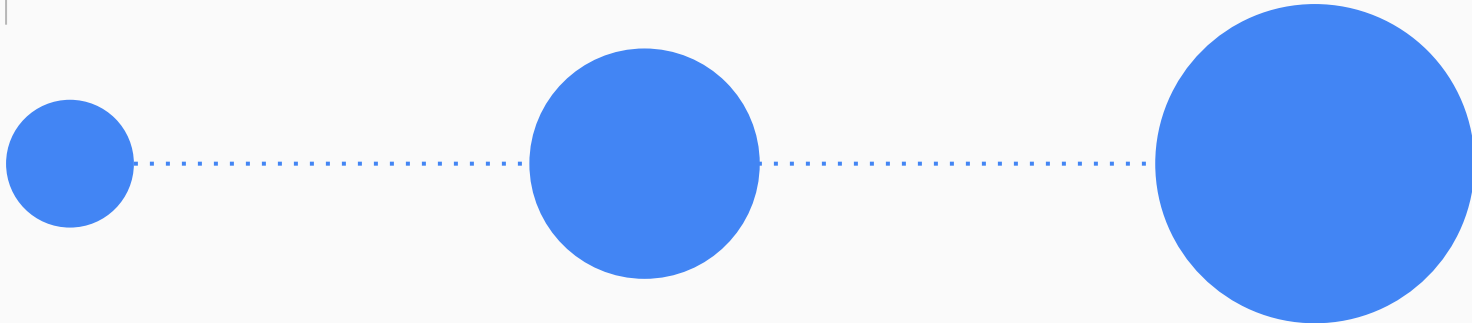
## Step 2

User locks tokens to the contract using the preimage of the invoice, amount, timeout block height.

Swap Operator will track this on the blockchain.

## Step 3

Swap operator will pay the invoice and receive the preimage.

Use the preimage to claim the tokens from the contract.

# Accomplished

- *Forked boltz backend to work with RSK chain.*
- *RBTC <-> BTC LN Swaps*
- *SOV <-> BTC LN Swaps*
- *Forked boltz frontend to work with RSK/SOV.*
- *Deployed all required BTC/RSK/LND nodes to testnet*
- *Testnet live at http://139.177.203.101:3000*

# Next Steps

- *Integrate Liquality wallet*
- *Automate lock/claim process to 1-click.*
- *Improve frontend*
- *Deploy to mainnet*

Demo Video

# References/Links

**LN - SOV Bridge:**

https://github.com/pseudozach/lnsovbridge

https://github.com/pseudozach/boltz-frontend

Testnet: http://139.177.203.101:3000

Demo Video: https://www.youtube.com/watch?v=SlIjtIdXBIs

**Boltz:**

https://boltz.exchange

https://github.com/BoltzExchange/boltz-backend

https://docs.boltz.exchange/en/latest/