

# Ontra: Institutional-Grade On-Chain Trading

Bringing professional execution and capital efficiency to Uniswap v4  
through intelligent liquidity optimization



# The Capital Efficiency Problem

## Traditional DeFi

- Idle liquidity earns nothing
- LP positions sit dormant between trades
- Pending orders generate zero yield

## Ontra's Solution

- Every dollar works for you
- Automatic Aave integration
- Yield on all inactive positions



# Core Innovation:

## Rehypotheccation Hook

Ontra automatically deposits pending order and inactive LP liquidity capital into Aave to earn yield. When execution is needed, the Hook withdraws funds in a single optimized batch, minimizing gas costs while maximizing capital efficiency.

### **Detect Idle Capital**

Hook monitors pending orders and liquidity positions in real-time

### **Deploy to Aave**

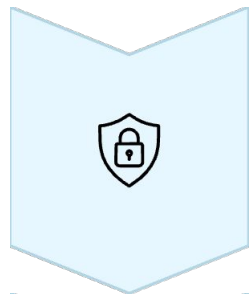
Automatically deposits inactive funds to generate yield

### **Execute On-Demand**

Withdraws and executes in single transaction when needed

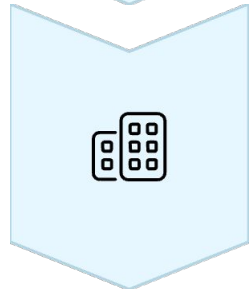


# Technical Architecture



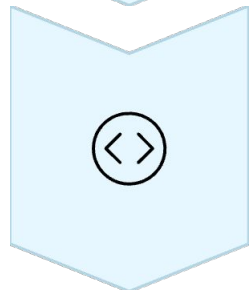
## OntraHook

Fully On-chain system



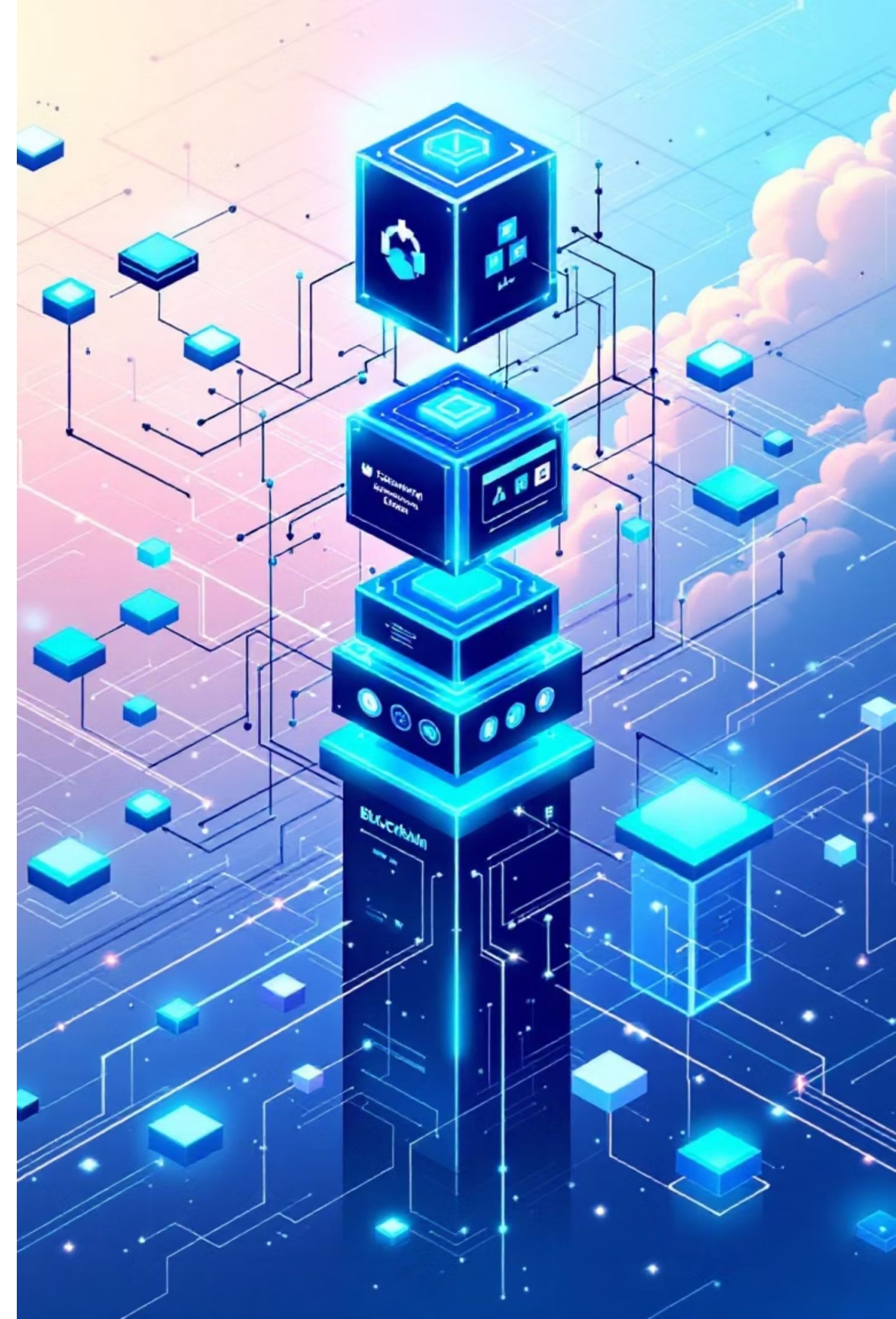
## Aave Protocol

Automated deposits and withdrawals for yield generation



## Uniswap v4 Hook

Native integration with v4 liquidity pools and swap routing







# Implementation Status

## ✓ V2: Fully Operational

Trailing stop loss orders with Aave integration are live and tested. Pending positions automatically earn yield, and executed orders continue earning until withdrawal. All generated yield returns to order placers.

## ● V1: Partial Implementation

LP liquidity migration to Aave is functional but being refined. The foundation for automatic liquidity optimization is in place.

### Deployment

#### **Network:**

Sepolia Testnet

#### **OntraV2Hook:**

0xf318...9040

#### **SwapRouter:**

0xBD4C...896a

# Key Differentiators



- **Capital Efficiency**

100% of idle capital earns yield — no wasted opportunity

- **Gas Optimization**

Batch withdrawals and efficient rebalancing minimize costs

- **Institutional Quality**

Professional order types previously unavailable on-chain

- **Privacy Enabled**

Fhenix FHE integration for hidden order execution

- **Fully On-Chain**

No off-chain dependencies or centralized components

# Professional Order Types

1

## Trailing Stop Loss

Dynamic protection with 5%, 10%, or 15% trailing thresholds – earns yield until triggered

2

## Limit Orders (soon)

Execute trades at specific price points with guaranteed fills and Aave yield on pending capital

3

## Hidden Orders (soon)

Fhenix FHE-secured private orders that maintain execution privacy on-chain

# Development Roadmap

## Hookathon Scope

- Core Aave integration ✓
- Trailing stop orders ✓
- Test coverage >90%
- Testnet deployment ✓
- Fhenix FHE integration X
- Front-end interface ✓

## Production Ready

- Comprehensive security audit
- Enhanced Aave validation
- Stress testing suite
- Mainnet deployment

1

2

3

## Post-Hackathon

- Subgraph for indexing
- Limit order execution
- Gas optimization pass
- Production router with safety