



# zk-lokomotive

**Zk Based Fully Secure and Trustless  
Multichain File Transfer System**



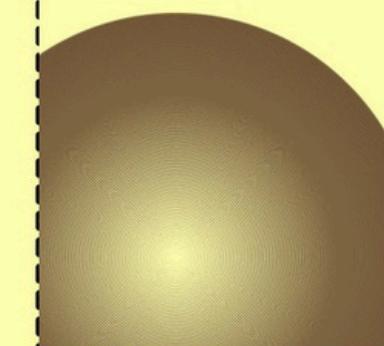
# welcome back, username.

We would like to show you analytics about how much data you've transferred so far; but we can't. Because with zk-Lokomotive, even us, the owners can't collect any data or metadata generated from your private data.

This is the **zkλ** way.



drag and drop a file  
or browse to upload



zkλ/upload

↓ my inbox /λ/ 1c7a 51c8

message	sender	size	actions
leaked docs xD	yigid (afc3 6dfd)	3.13 GiB	↓
grad. pics 2024	yigid (afc3 6dfd)	6.9 GiB	↓
ZKL projections2025	yigid (afc3 6dfd)	1.2 GiB	↓
red.velvet.cosmic.EP	yigid (afc3 6dfd)	421 MiB	↓

... continue sending and receiving securely with ZKL

zkλ/inbox

# Partners



## Mentorship



## Audits



## Team Achievements & KPI

- Solana Global Radar Hackathon Zero Track (Winner 4th🏆) | Oct 2024
- Solana Demoday (Winner🥇) | Oct 2024
- Movement Labs Battle of Olympus Hackathon (Finalist🏆) | Oct 2024
- Encode Wormhole Global Hackathon Best Integration on an Existing Project (Winner🥇) | Oct 2024
- Solana Turkey Mini Hackathon (Winner🥇) | Sep 2024
- Wormhole xGrant (Project Grant) | Jun 2024
- Superteam Solana Grant (Project Grant) Jun 2024
- Sui Overflow Local Track (Winner🥇) | May 2024
- EDCON Japan (Finalist🏆) | May 2024
- Solana Global Renaissance Hackathon Multichain Track (Winner🥇) | April 2024
- Solana Demoday (Winner🥈) | March 2024
- Solana Mini Hackathon (Winner🥇) | March 2024
- MINA zk-Ignite Cohort-3 Program (Project Grant) | March 2024
- SOVOS Hackathon (Winner🥈) | November 2022

# Market Insights

The global managed file transfer market size was valued at USD 2 billion in 2023 and is projected to reach a value of USD 4.9 billion by 2032, registering a CAGR of 10.47% during the forecast period (2024-2032). The increased managed file transfer market share during the forecast period is related to the increased demand for secure and compliant file transfer solutions and the need for end-to-end visibility and control over file transfer processes.

Today, data transfer technology contributes \$2.8 trillion to global GDP annually.

The protocol is responsible for 2.91% of the overall internet traffic used by consumers across the globe

2 billion files that pass through WeTransfer every month (2021)

BitTorrent is utilized by 178,000,000 active users (2023)

Dropbox has 18.22 million paying users for data storage.

This tool is expected to record annual revenue between \$15,000,000 and \$20,000,000.

2.5 quintillion bytes of data are generated every day



Direct  
Competitors



In-direct  
Competitors



**Centralized**



**Security Breaches**



**problem?**

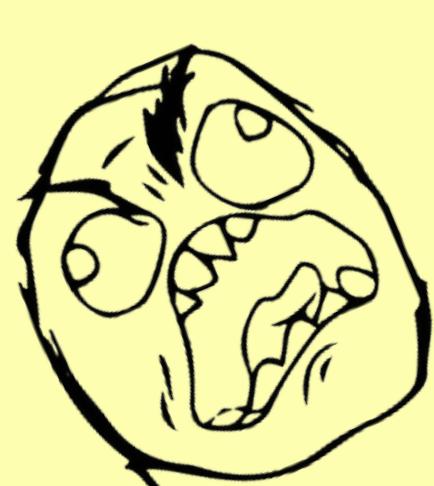
**Compromised  
Data Integrity**



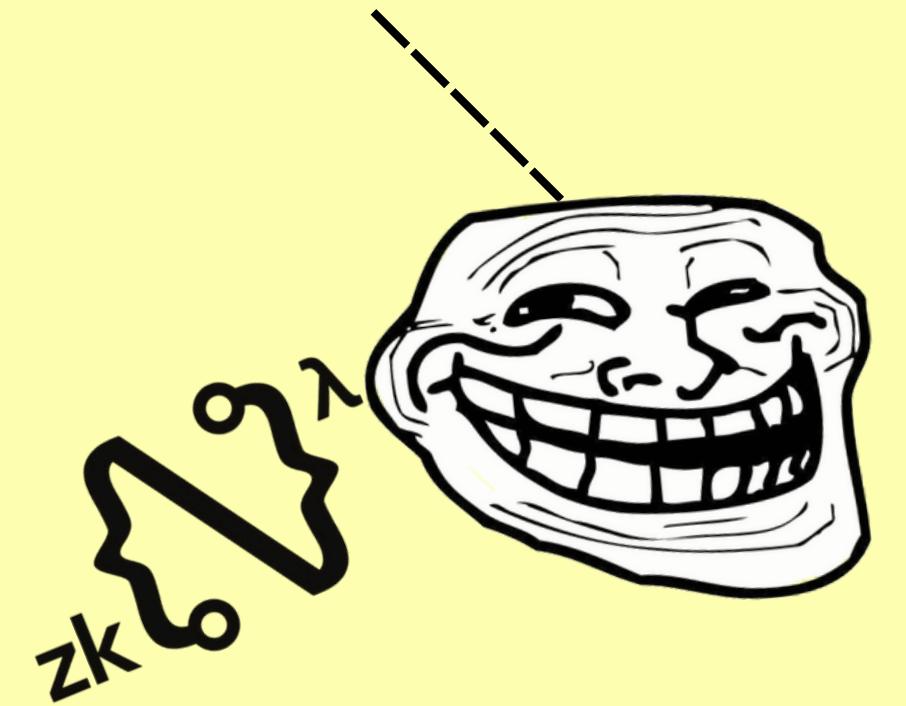
**Privacy Violations**



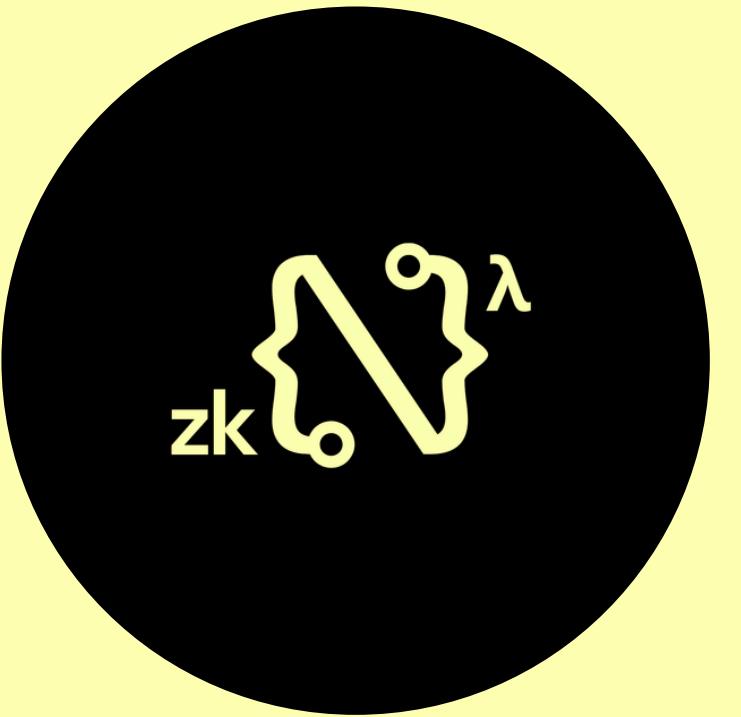
**How can I send  
my files  
privately and  
securely ?**



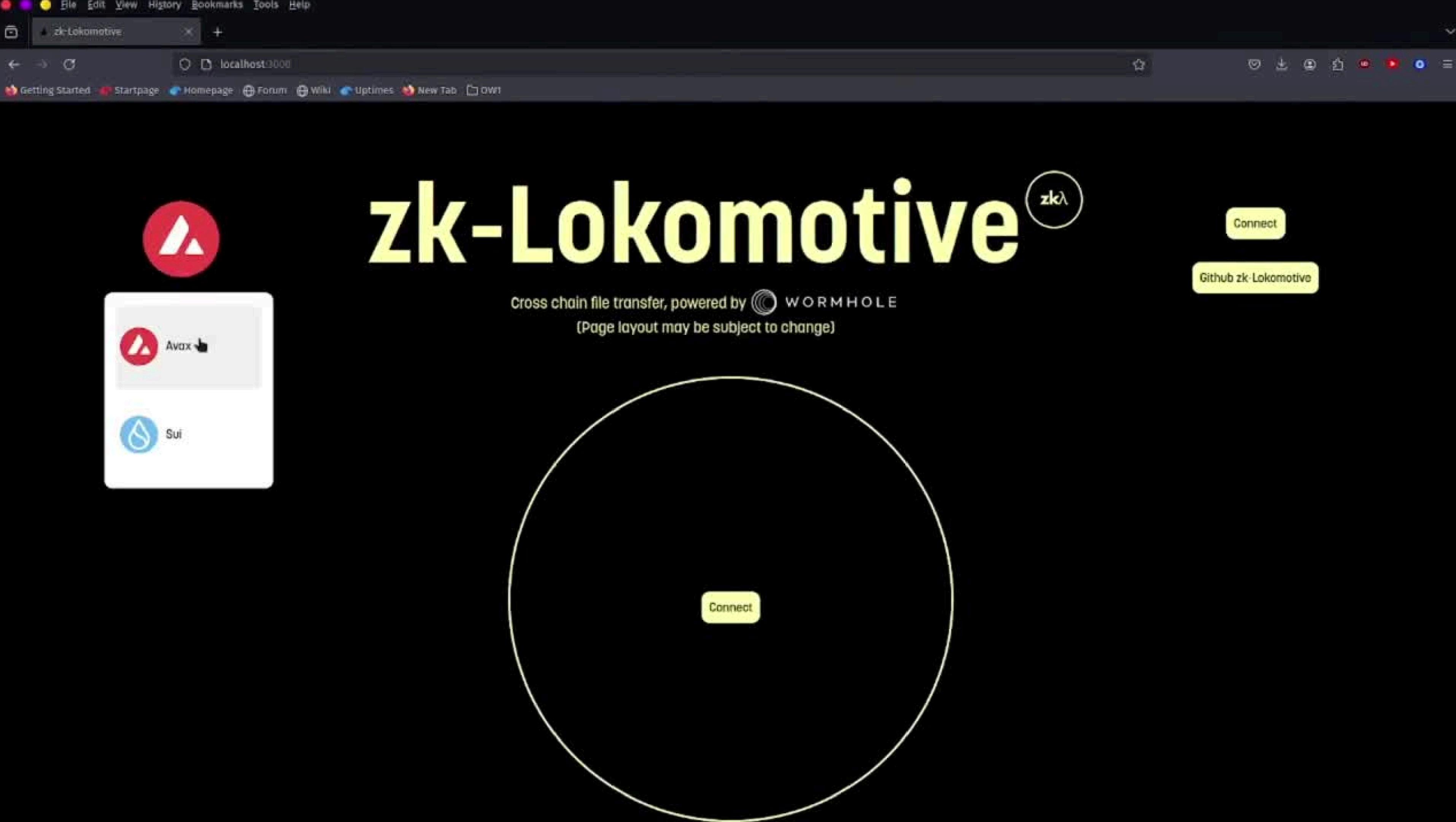
**zk-lokomotive (zk-Multichain  
File Transfer System)**



# OUR SOLUTION



**Utilizing zero-knowledge proofs for decentralized file transfer enhances privacy and security by verifying transmission without disclosing file contents.**



File Edit View History Bookmarks Tools Help

zk-Lokomotive +

localhost:3000

Getting Started Startpage Homepage Forum Wiki Uptimes New Tab DNT

# zk-Lokomotive

Cross chain file transfer, powered by WORMHOLE

(Page layout may be subject to change)

Avax

Sui

zkλ

Connect

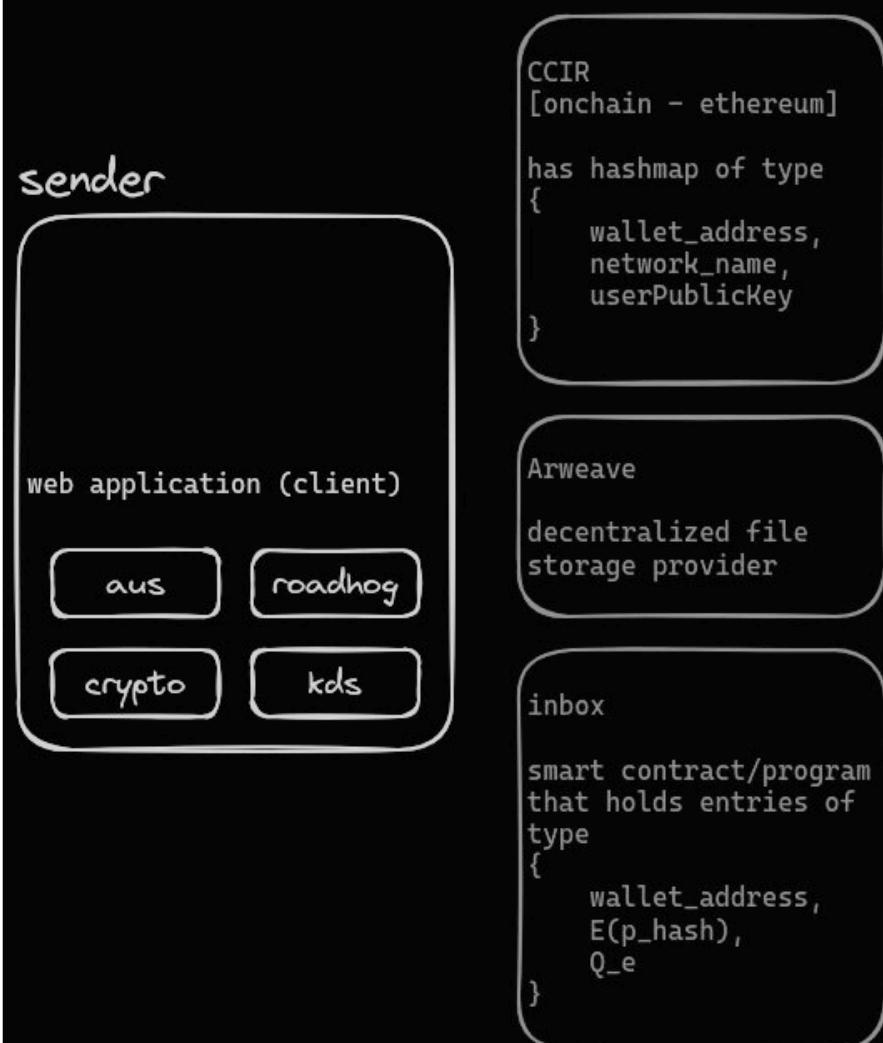
Github zk-Lokomotive

# Architecture

## zk-Lokomotive Module Legend

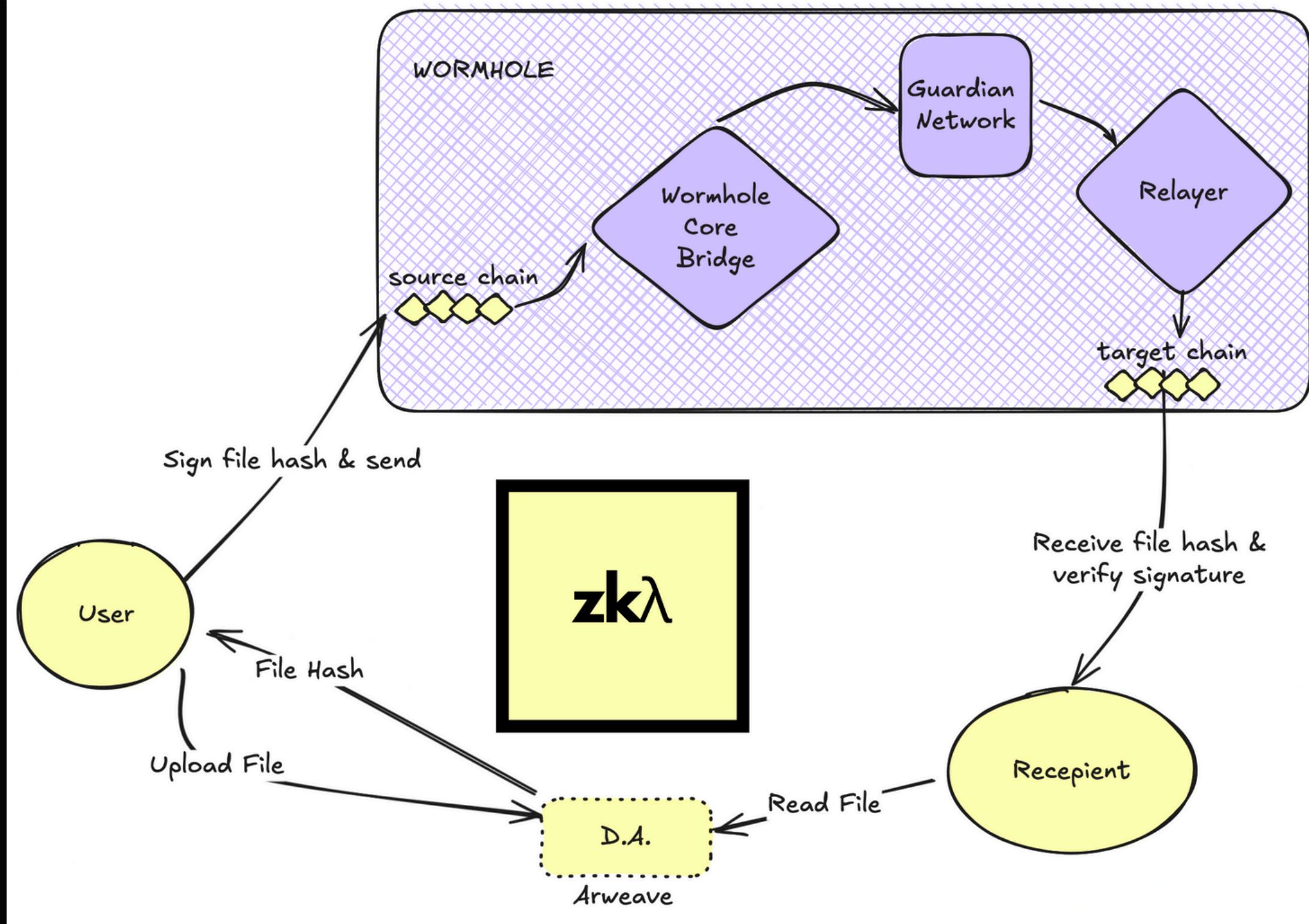
yigid balaban <fyb@fybx.dev>  
29/08/2024

- JavaScript/Svelte Web Application
- blockchain-based solution (fully on chain)



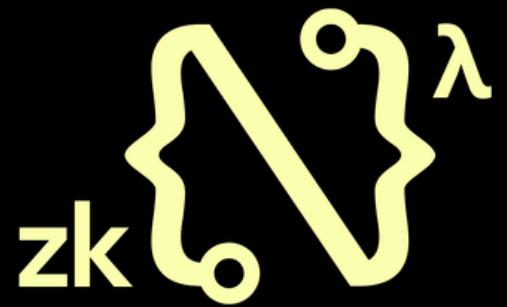
### Submodules

- aus - arweave uploader: uploads/downloads payloads to/from Arweave
- roadhog - blockchain hook: performs communications with the inbox & CCIR
- crypto - crypto method provider: ECIES provider
- kds - key derivation service: EC keypair generator



# Why Wormhole ?





# Public

## FIRST USE

incentives

**FREE**



**STANDARD**

**PLATFORM FEE | %0.5**

**ADVANCED**

**PLATFORM FEE | %2**

**GRAND**

**PLATFORM FEE | %6**



# Baturalp Güvenç

FOUNDER / FULLSTACK DEVELOPER



## Yiğid Balaban

SYSTEM  
ARCHITECTURE  
SPECIALIST



SOLANA SUPERTEAM INDIA/TR  
DEVELOPERS



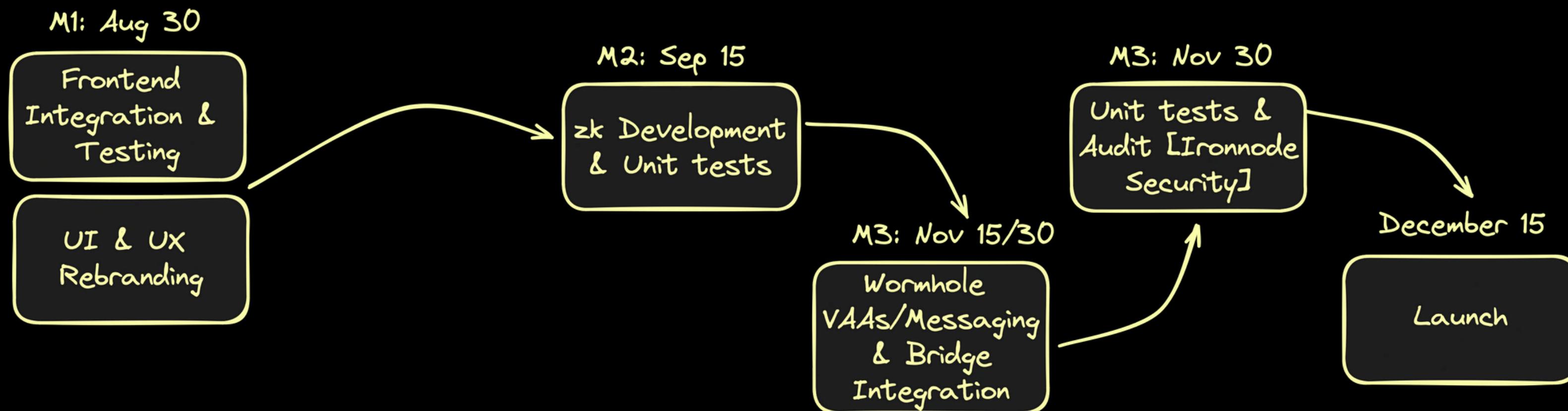
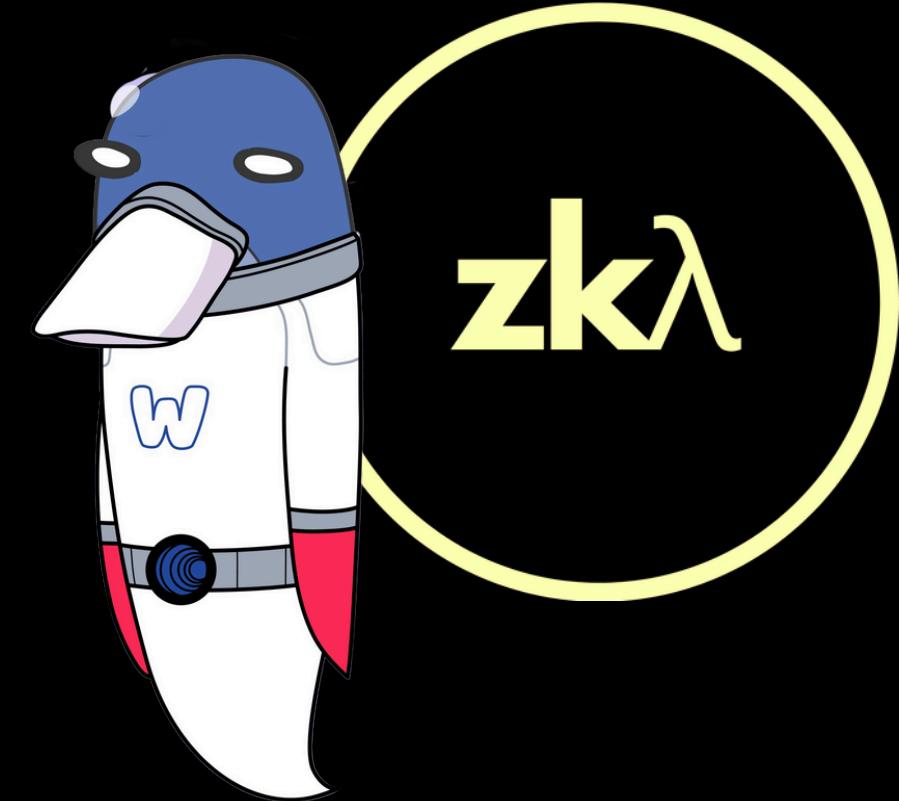
## Arhan Subaşı

BACKEND DEVELOPER



# Milestones & Roadmap

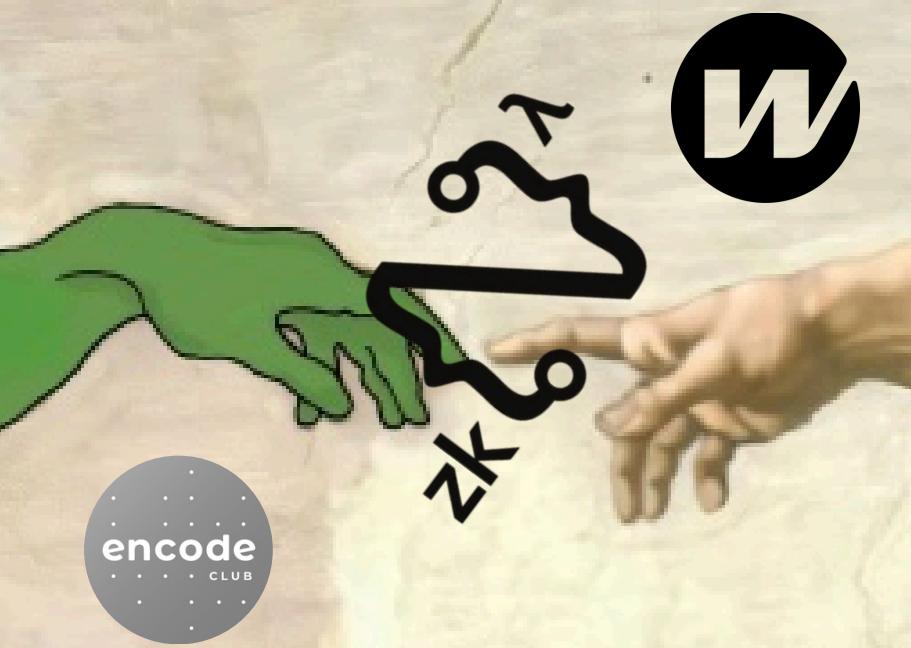
- Project improvements and B2B services
- Partnership with Solana, Wormhole, Phantom Wallet and TLSNottery



**Powered by**



**Renaissance  
with  
zk Lokomotive**



**Thank You**



- [zk-lokomotive.xyz](http://zk-lokomotive.xyz)
- [@zklokotive](https://twitter.com/zklokotive)
- [/zk-Lokomotive](https://github.com/zk-Lokomotive)