# interep

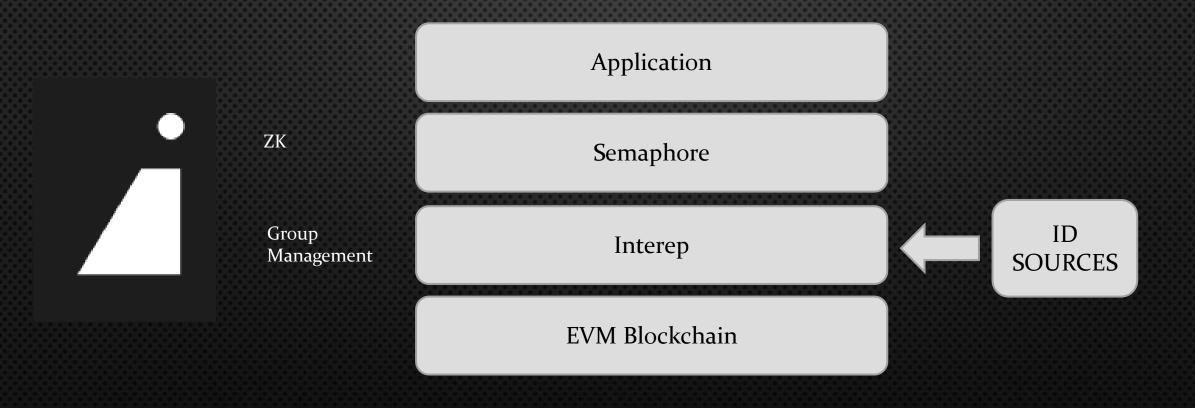
ANTI-SYBIL AS A SERVICE FOR DECENTRALISED
APPLICATIONS

## INTEREP'S AIMS:



- INTEGRATE WITH SOURCES OF DIGITAL IDENTITY
- Bridge to Ethereum
- ADD PRIVACY GUARANTEES VIA SEMAPHORE

# THE APPLICATION STACK



## IDENTITY SOURCES



- REAL-WORLD IDENTITY IS MIRRORED IN DIGITAL ID
- BUT WE NEED TO FILTER OUT THE BOTS

#### ID SOURCES: SOCIAL NETWORKS









# MORE ID SOURCES



- EMAIL
- GOVERNMENT AUTHORITIES
- CURATED GROUPS
- OTHER ID PROJECTS
- ON-CHAIN SOURCES

#### SEMAPHORE



- SEMAPHORE GROUPS = MEMBERSHIP SETS
- Members may signal on a topic
- E.G.: SIGNAL = VOTE, TOPIC = PROPOSAL
- ZERO-KNOWLEDGE

#### **GROUPS**



- Users prove membership with ID source
- MULTIPLE TIERS
- GROUPS REPRESENT DIFFERENT LEVELS OF GUARANTEE
- STRONG GUARANTEES/SMALLER POOL VS WEAKER GUARANTEES/LARGE POOL

### JOINING GROUPS



- Users prove membership with the ID source
- GROUP TIER WILL BE ASSESSED
- Join by signing with ETH address
- THE LINK REMAINS PRIVATE

#### ON-CHAIN GROUPS



- GROUP MEMBERSHIP IS MAINTAINED ON-CHAIN
- E.G.: A WHITE-LIST OF APPROVED ACCOUNTS
- FOR CURATED GROUPS, OR FOR ON-CHAIN ID SOURCES

## APPLICATIONS



- PRIVATE VOTING
- SOCIAL NETWORKS
- ANTI-SPAM, E.G. RLN
- FAIR AIRDROPS
- Sybil-resistant Faucets

# DEMO



#### LINKS



- APP: HTTPS://INTEREP.LINK
- Docs: https://interep.link/docs
- CODE: HTTPS://GITHUB.COM/INTEREP-PROJECT
- DISCORD: HTTPS://DISCORD.GG/JCQXBCZP