# Privacy in the Age of Al

Pierre Le Guen Software Engineer NEAR AI

## AI systems are failing us

- Flawed responses
  - Ads based
  - Biases
  - Blackboxes
- Security risks
  - Major data leaks are waiting to happen
- Open-Source AI is not sustainable
  - Stability AI unable to pay for rented cloud GPUs
- Trust issues -> Restricted access in many countries

# **Why It Matters**

#### **User-Owned AI**

- Fair access to anyone
- Fully verifiable/auditable stack
- Control over your data
- Sustainable business model for every actor
  - Share your data and get rewarded
  - Build a model for a specific need

#### Al optimized for users' wellbeing and economic success

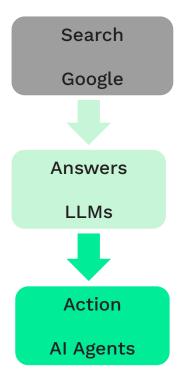
## **Thesis**



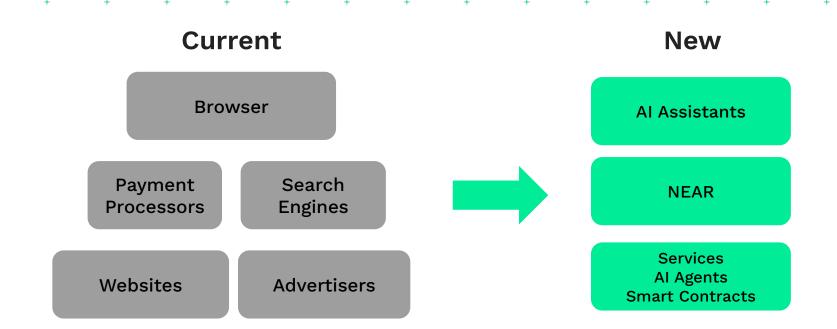
# The world is going to transition from websites and apps to AI & agents

We need to ensure:

- Confidentiality your AI assistant will know everything about you
- 2. Equal access & control of AI capabilities
- 3. User ownership of assets, data, and choice



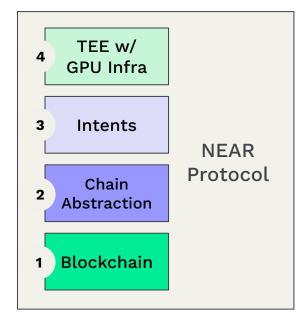
# **Paradigm Shift**



## What does 'Blockchain for Al' mean?



- 1. A **blockchain that can scale** & support transactions by trillions of AI agents and billions of users
- 2. Solutions that enable AI agents to operate across different chains (i.e. Chain Abstraction tech)
- ✓ 3. A negotiation, commitment, & dispute framework that allows agents to work together across a variety of on- & offchain systems
- 1. The ability to **privately & verifiably perform AI**1. **training and inference** (to incentivize open-source model contributors)



A multi-purpose Protocol for the AI-first future

### **NEAR AI Stack**

#### **Agent Cloud**

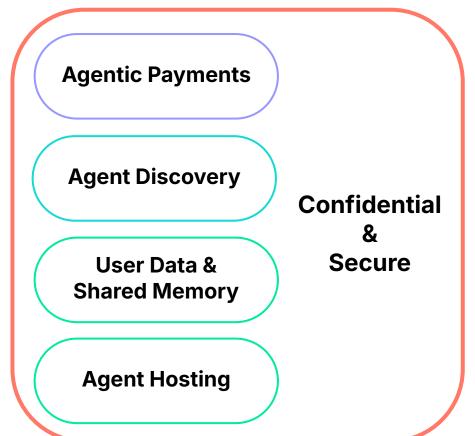
- Host your Al Agent
- Access hundreds of AI Agents
- Generate revenue from your agent

#### NEAR AI Agent SDK

 Create complex agents in Python or Typescript

#### **NEAR Protocol**

- Micro-transactions between agents
- Chain Abstraction to interact with any blockchain



### **Trusted Execution Environment**



**Trusted Execution Environment** (TEE): enables computation on third-party hardware that guarantees the computation run & outcome achieved

CPU: Intel TDX, AMD SEV, ARM CCA

GPU: NVIDIA Confidential Computing starting with H100s

**Confidential VM** is an abstraction over TEE-specific hardware

CVM
Confidential Virtual
Machine

## What TEE magic enables?

- Fully Encrypted Models
  - Train your model in a TEE
- Monetized Confidential Inference
  - Share access to your model and get rewarded for it
- Verifiable Agents
  - Ensure that the AI Agent being ran is the one you expect.

#### Fully verifiable stack, don't trust, verify!

## **Monetized Confidential Inference**



