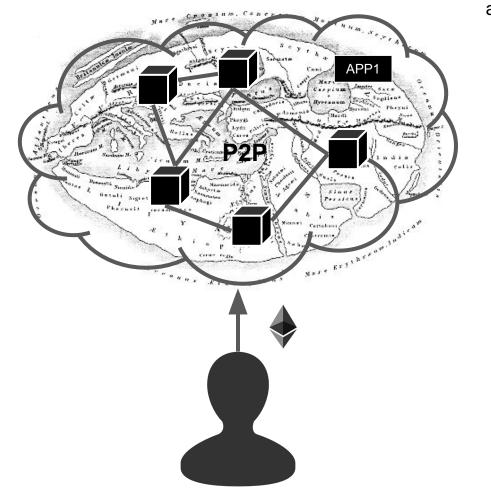
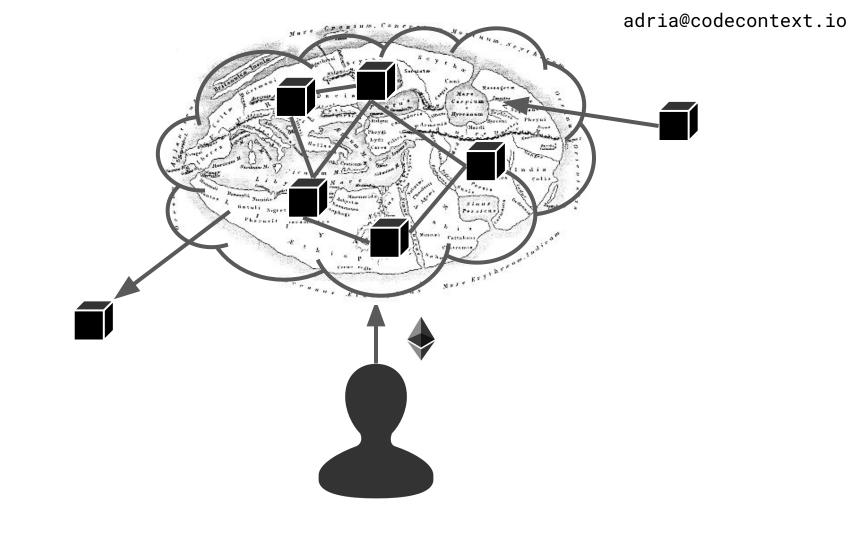


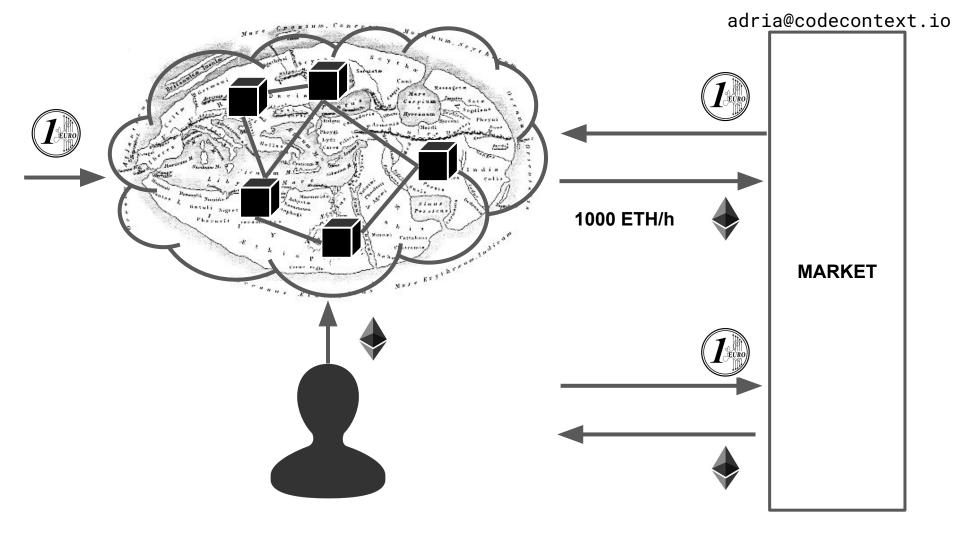
adrià massanet computer engineering 18 y computer security analogsynth / complex systems / nlp founder @ bcn eth dev meetup techdev WG @ blockchaincatalunya 4'5y freelance twitter @codecontext adria@codecontext.io

# ethereum como PaaS

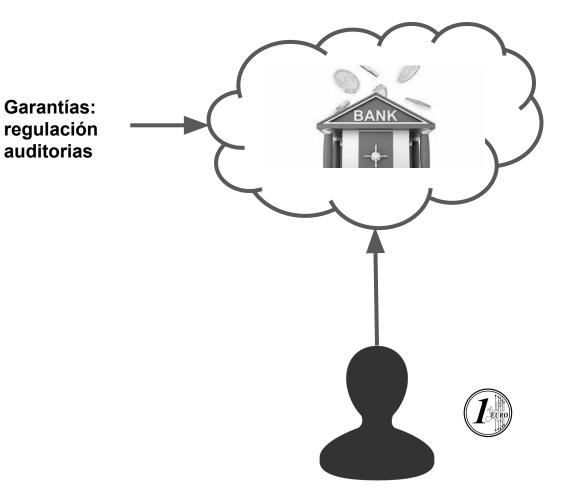






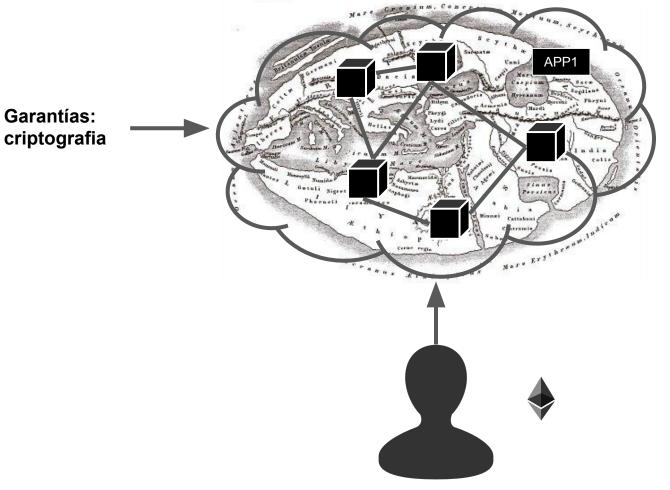


# ethereum como servicio **seguro**



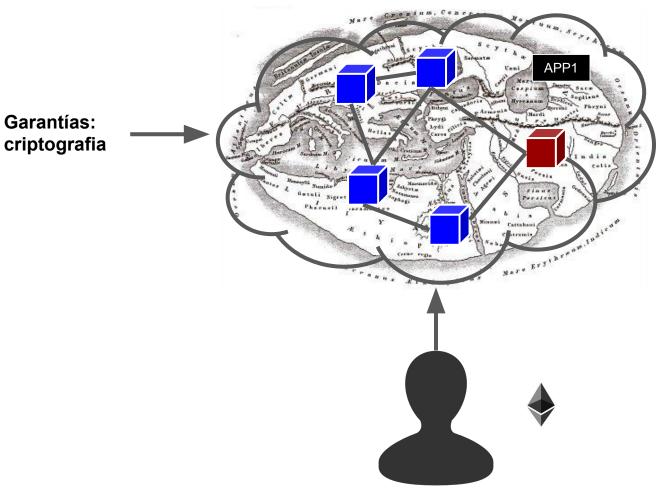
Banco es autoridad "Solo tu puedes acceder a las aplicaciones que gestionan tu dinero"\*

Código de acceso a Banca Online



Ethereum es autoridad "Solo tu puedes acceder a las aplicaciones que gestionan tu dinero"\*

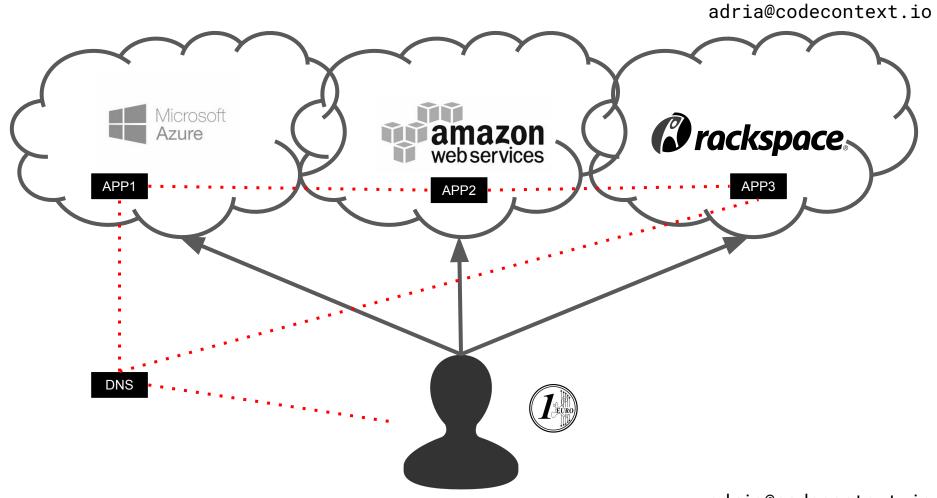
Clave privada criptográfica personal

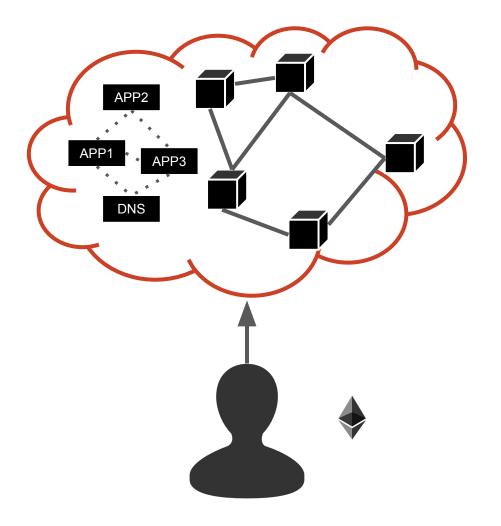


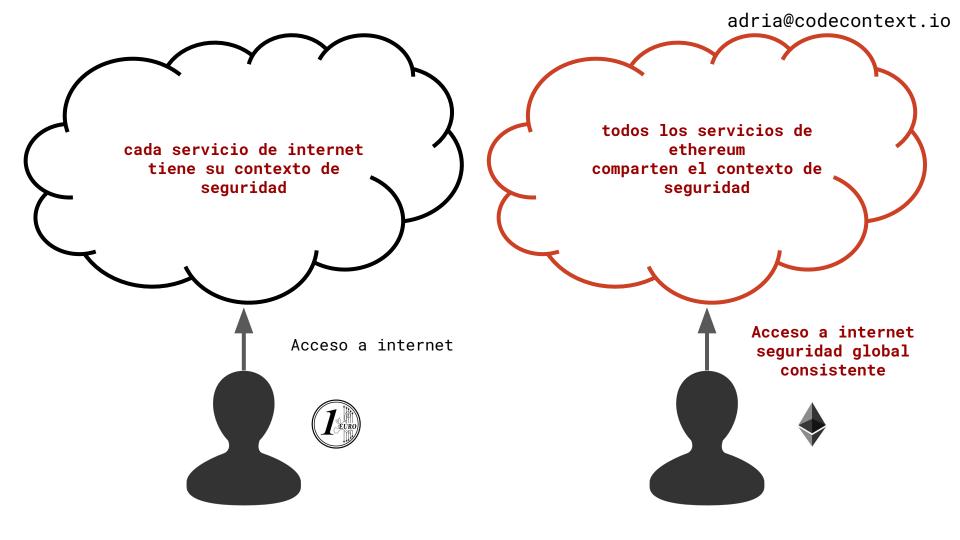
Ethereum es autoridad "Solo tu puedes acceder a las aplicaciones que gestionan tu dinero"\*

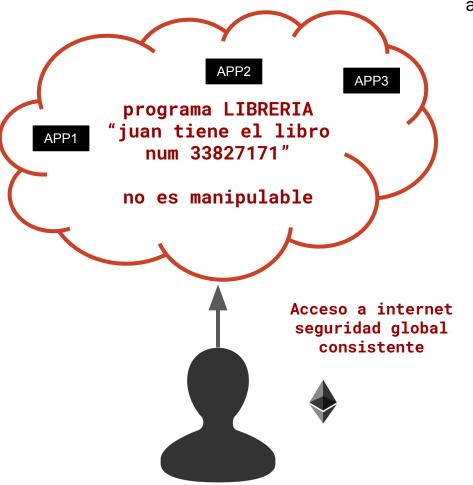
Clave privada criptográfica personal

ethereum como un único computador global seguro











## "juan tiene el libro num 33827171"

los que consensuamos que ethereum no es manipulable y es una fuente de autoridad descentralizada

consensuamos que juan tiene el libro 33827171

#### "juan tiene XXXXXXXXXXXX"

los que consensuamos que ethereum no es manipulable y es una fuente de autoridad descentralizada

consensuamos que juan tiene XXXXXXXXXXX

-> Virtualización "no copiable" de entidades (tokenización)

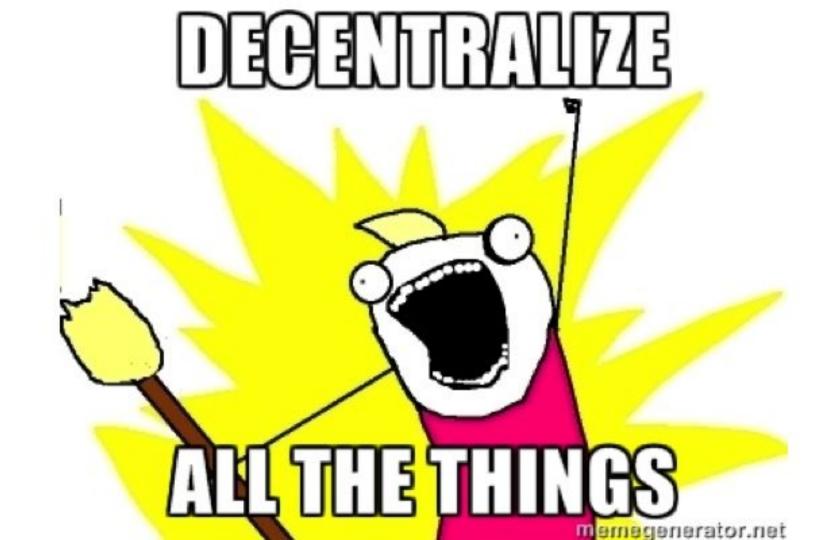


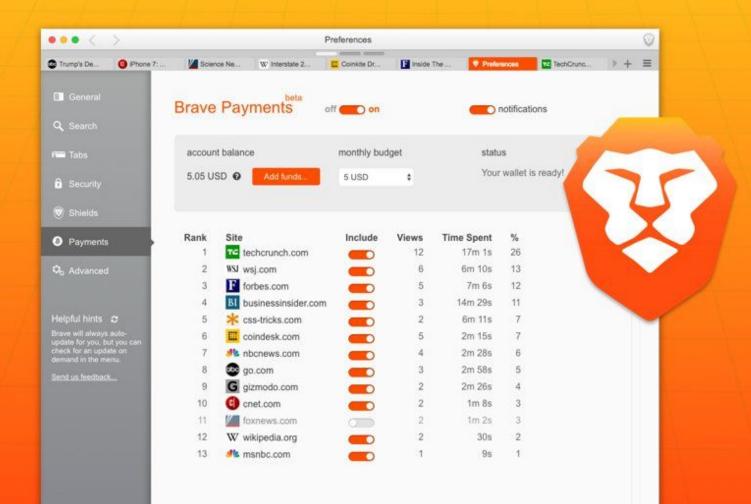
### "juan tiene 2000 ETH"

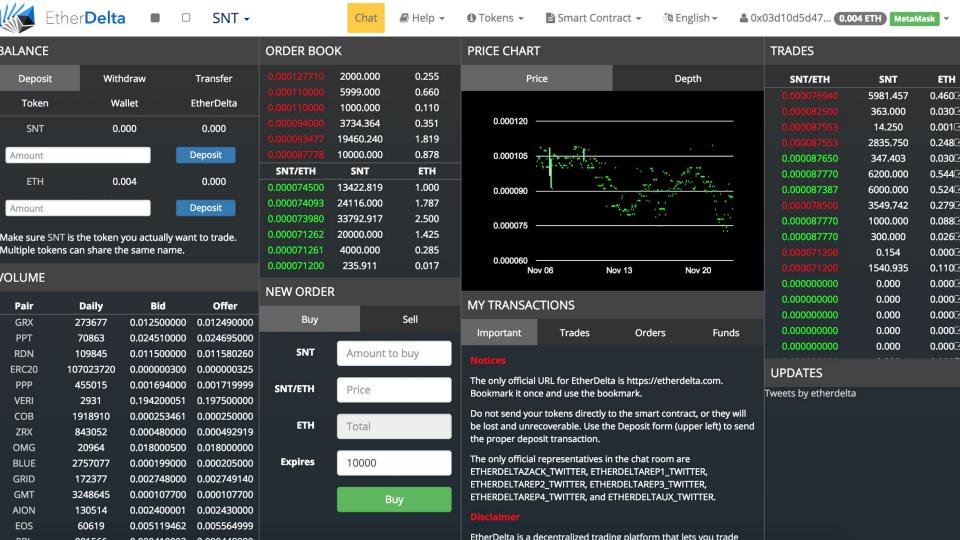
los que consensuamos que ethereum no es manipulable y es una fuente de autoridad descentralizada

consensuamos que juan tiene 2000 ETH

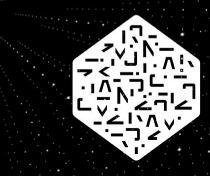
# ethereum como el **sistema operativo**del internet descentralizado





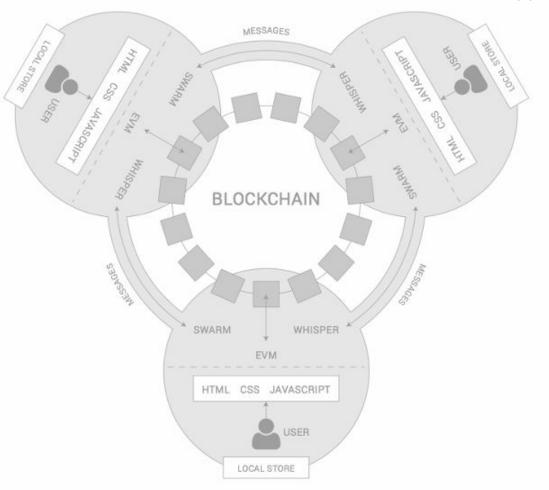


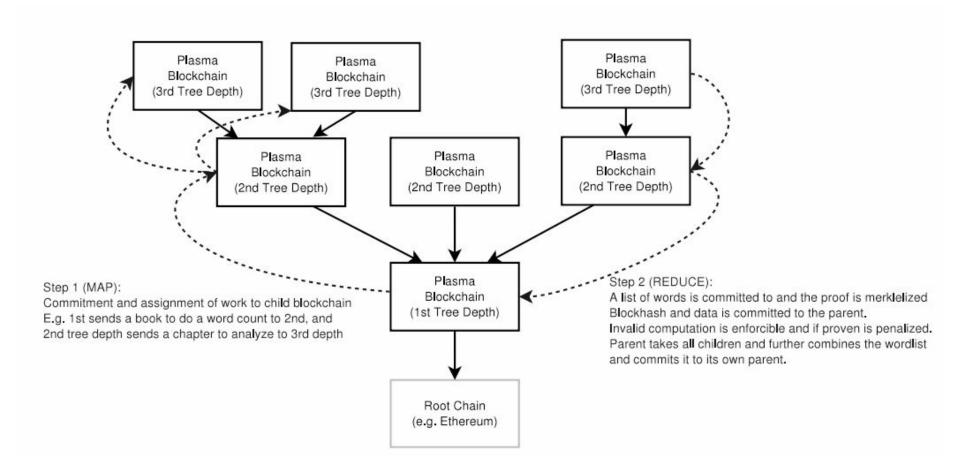




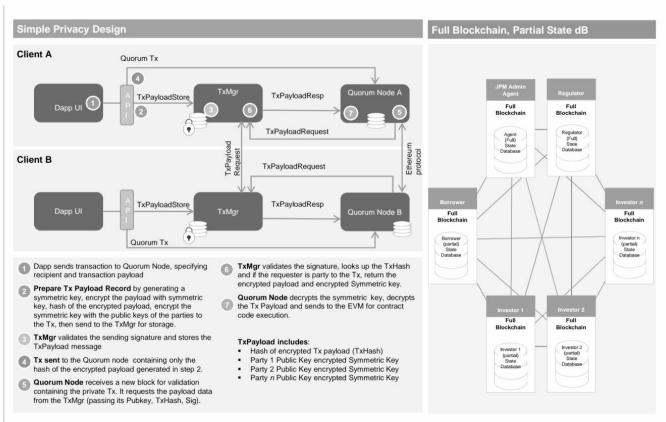
# NUMERAI

## no únicamente ethereum





#### A pragmatic approach to privacy



#### Polkadot

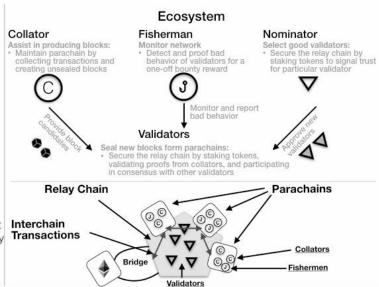
#### What

Scalable heterogeneous multi-chain, allowing a large number of validatable, globally-coherent dynamic data structures to be hosted side-by-side

#### Why

In traditional blockchains, the way parties execute transactions is tied to how parties reach consensus

Multiple actors with different requirements are bundled by the same rules of the protocol, resulting in obstacles to scalability



#### Tokens: DOT issued via crowdsale

- Validators stake tokens to participate in consensus
- Nominators stake tokens to select good validators
- Fishermen get reward for detecting bad behaviors
- Other holders use tokens to govern network by voting on the relay chain

#### **Use Cases**

No specific application functionality (i.e. applicable for all blockchain use cases):

- Encrypted consortium chains
- High-frequency chains with very low block times

#### Main Innovations

Polkadot provides parallelized chains with pooled security and trust-free interchain transactability It means all aspects of each chain (parachain) may be conducted in parallel by a different segment of the network, allowing the network to scale. No action on the part of Ethereum is necessary to enable trustless transaction forwarding between Ethereum and Polkadot.

#### **Main Features**

- · Minimal: by itself has as little functionality as possible
- · Simple: no complexity in the base protocol
- General: no unnecessary requirements, constraints, limitations for parachains
- · Robust: stable, economically sound and secure

#### Makes Possible

- Provides solution for scalability issues of current blockchain protocols via parallelized chains and interchain transactions
- Addresses the divergent needs of multiple parties and applications to a near optimal degree under the same framework

i ?

Un modelo de negocio que conozcais

Diseñad una gobernanza para una organización 100% horizontal

Qué valor aportan los intermediarios?

Cread nuevos actores que aporten ese valor en el modelo horizontal

Diseñad modelo criptoeconómico, coste por transacción más bajo

Desplegad en ethereum

Vosotros sois los nuevos intermediarios



# **Zk-SNARKs: Under the Hood**

This is the third part of a series of articles explaining how the technology behind zk-SNARKs works; the previous articles on quadratic arithmetic programs and elliptic curve pairings are required reading, and this article will assume knowledge of both concepts. Basic knowledge of what zk-SNARKs are and what they do is also assumed. See also Christian Reitwiessner's article here for another technical introduction.

+?



https://blockchaincatalunya.org/



https://www.meetup.com/ethereumbcn/

adria@codecontext.io / @codecontext

# MOLTES GRÀCIES