



ethereum  
vienna

Decentralised insurance with Etherisc



# ethereum Agenda

General Introduction

Updates

Stephan Karpischek: Etherisc

Socialising



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Updates



European Ethereum Development Conference

**EDCON**

 17-18 February 2017

 Paris France

# EDCON

Video of all talks are available online

# Vitaliks' Cryptoeconomics

Intro to Cryptoeconomics (Cryptography + Economics)

Goes over the different kinds of used

    cryptography

    incentive mechanisms

first half is excellent talk for beginners!

a few minutes missing in video! (but slides are available)



## Concepts

- **Cryptoeconomic security margin:** an amount of money  $X$  such that you can prove "either a given guarantee  $G$  is satisfied, or those at fault for violating  $G$  are poorer than they otherwise would have been by at least  $X$ "
- **Cryptoeconomic proof:** a message signed by an actor that can be interpreted as "I certify that either  $P$  is true, or I suffer an economic loss of size  $X$ "



# Vlads Casper Approach

A correct-by-construction approach of a "simple" version of casper

Not the easiest talk!

Casper Roadmap + "Q&A" at the End



# Swarm

## Some Statistics - **Participation**

- Over 2500 unique node addresses encountered since launch
- Over 130 simultaneous nodes encountered
- Over 200GB of data uploaded
- landing page ( `bzz : /theswarm.eth` ) had over 10k hits on the gateway
- Tutorial video ( `bzz : /swarmdemo.test` ) had over 1400 hits on gateway on first three days

# Swarm

Quite a few example dapps

There is a Mist version that works with bzz://

SWAP to be enabled soon

Network testing

# Other interesting talks

Parity: wallet + bunch of js libraries

trustlines: "ripple on ethereum"

"The Shanghai Attacks": recap of last years issues

"Secure Token Development"

Melonport (video is bad)

Boardroom: Governance by Nick Dodson (+ARES)

lex.ec / COSMOS

# Ethereum Enterprise Alliance

Launched in the beginning of March

Many big companies + blockchain startups

## What We Are

- ◆ ● Governance and standards body for Enterprise Ethereum protocol
- ◆ ● Retain compatibility with and enhance public Ethereum
- ◆ ● Rapid technical innovation and enterprise-grade governance

# Ethereum Enterprise Alliance





# Ethereum Enterprise Alliance





# Ethereum Enterprise Alliance

"Pluggable Consensus"

Will build on the public ethereum scaling roadmap

Extends ethereum with features for private chains

Working on pyethereum for rapid experimentation

# Ethereum Enterprise Alliance

## Quorum

First implementation of EEA

by JPMorgan

based on go-ethereum (geth)

only some parties can see the contents of txs

"private transactions that remain transparent for regulators"

available on github / azure marketplace

# Ethereum Enterprise Alliance

## Roadmap 2017

- accelerating the existing public Ethereum road map

- build the unique parts of EE

- not building a specific product but specifications

- Development on Python client, but also on others

- enterprise client should be able to run on public chain

- open mailing lists

1. Develop a sufficiently modular Ethereum implementation to separate and define clear interfaces between networking and storage layers - that is a prototype for pluggable consensus that minimizes the code changes required to switch consensus algorithms.
2. Experiment with potential consensus algorithms, along with data privacy and permissioning frameworks.
3. Develop a clear set of capabilities and performance characteristics that suit the needs of enterprises, including:
  - a. 100 transactions per second, across a 10 party network
  - b. High volume and value use cases
  - c. High availability/reliability
  - d. Parallelization and horizontal scaling
4. Develop a Version 1 specification for Enterprise Ethereum, based on the learnings from the above plus the roadmap and requirements gathered from members, i.e., produce a reference implementation.
5. Leverage a robust governance process to ensure alignment and agreement on approaches

# Ethereum Enterprise Alliance

"The long-term vision is to replace our enterprise infrastructures (incrementally) with this technology"

- Banco Santander

ING developed a Docker network on Ethereum, to connect banks together (oil trading as proof-of-concept)

# ENS

Launch took place on March 13th

100000+ auctions started in the first hours

but 2 bugs were found

=> cancelled & launch delayed



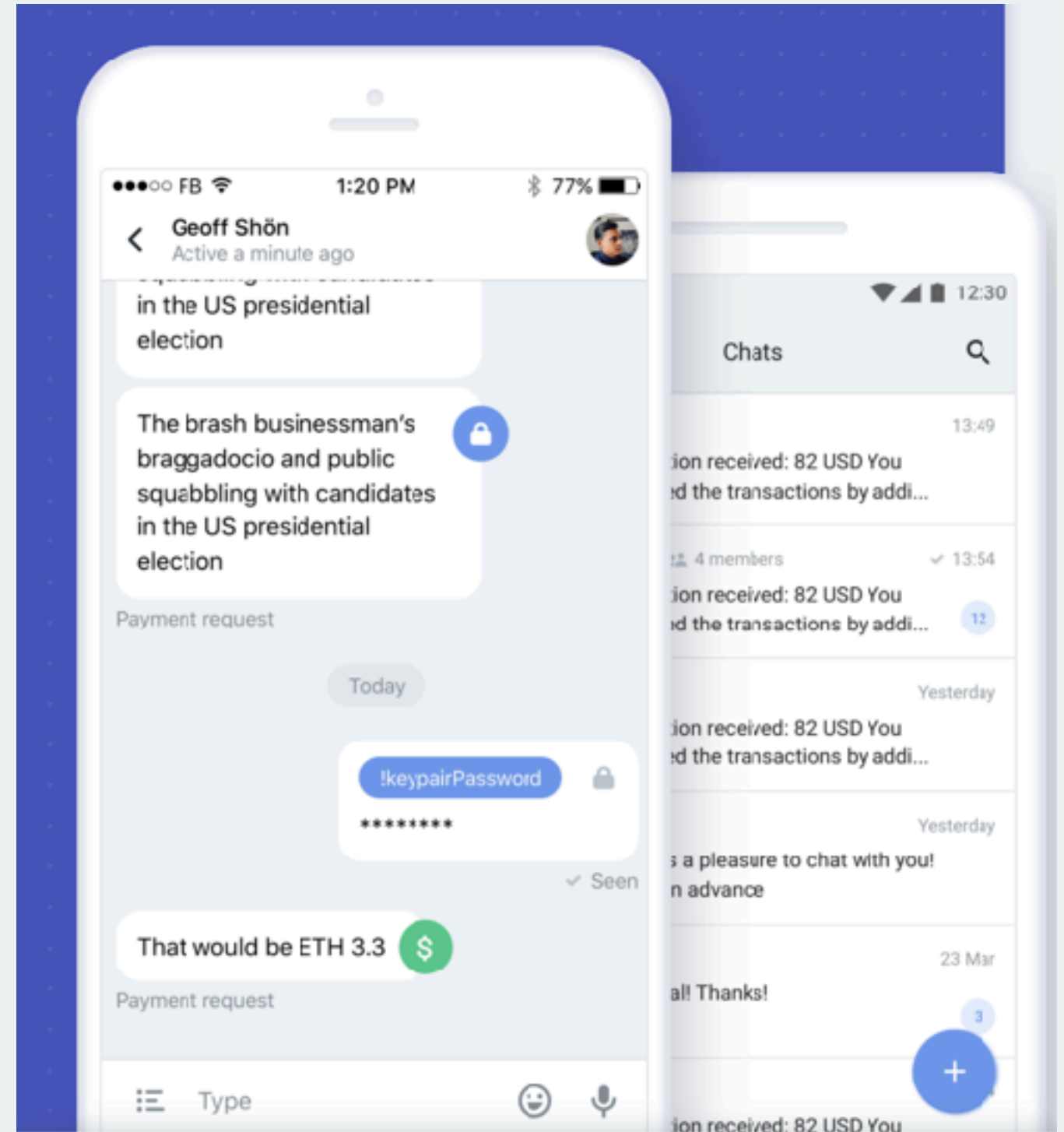
# Status: Early Alpha

New versions!

Many issues were fixed

Many DApps work now  
(including Etherisc!)

Syncing is still bad



# Metropolis

Most EIPs now in accepted phase

Vitalik wants Metropolis before the end of June

Ice again begins:

End of June: Blocktime will be around 19.5s

End of August: around 28.5s

# Carbonvote

Carbonvote (from Dao HF) is back!

This time it's about inflation (EIP #186)



Block 3700000 - Block reward reduced to 4 ETH / block

Block 5000000 - Block reward reduced to 3 ETH / block

Block 7000000 - Block reward reduced to 2 ETH / block

# Workshops

Next Beginner Workshop: April 1st, 17:00

Record number of participants in survey!

=> next Beginner Workshop will already be in May!

Advanced Workshops will return May / June

Developer "Crisis"

[github.com/ahirner/ethereum](https://github.com/ahirner/ethereum)