



ETHEREUM DEV BARCELONA

QUICK EDCON RECAP

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Just a personal selection

- eWASM
- ENS
- SWARM
- GOVERNANCE
- INTERCHAIN
- ORACLIZE
- DFINITY PoS
- MUST
- QUIZ

eWASM

- Web Assembly -> VM for the browser. (you still have Js, of course)
- eWASM is a restricted subset of WASM to be used for contracts in Ethereum.
- EVM2.0 will work with eWASM
- LLVM has WASM generator
- <https://github.com/ewasm>
- <https://github.com/ewasm/evm2wasm> transcompiler

ENS

- EIP137 Ethereum Name System.
EIP181 ENS reverse resolution
- The DNS for Ethereum
- Available on testnet, Pi Day (3.14) on MainNet
- Initially only “.eth” , min 7 chars
- Blind auction, the highest bidder wins the auction, but pays the price of the second highest bid
- Non-winning bidders will receive a 99.9% refund on the value bid. The remaining 0.1% will be burned.



ENS

NameHash Algorithm for 'mysite.eth'

```
node = '\0' * 32
node = sha3(node + sha3('eth'))
node = sha3(node + sha3('mysite'))
```

ENS

```
function owner(bytes32 node) constant returns (address);
function resolver(bytes32 node) constant returns (address);
function setOwner(bytes32 node, address owner);
function setResolver(bytes32 node, address resolver);
```

Resolver

```
function addr(bytes32 node) constant returns(address);
```

ENS

```
contract OwnedByENS {  
  
    ENS ens;  
  
    modifier owned(bytes32 name) {  
        if(ens.owner(name) != msg.sender) throw;  
    }  
  
    function doSomething() owned(myname) {  
        // ...  
    }  
  
}
```

SWARM

- P2P layer decoupled (to use by other application in swarm nodes)
- Incentivation mechanism in next release (SWAP codename)

How Ethereum sees itself



How Ethereum sees Bitcoin



How Bitcoin sees Ethereum

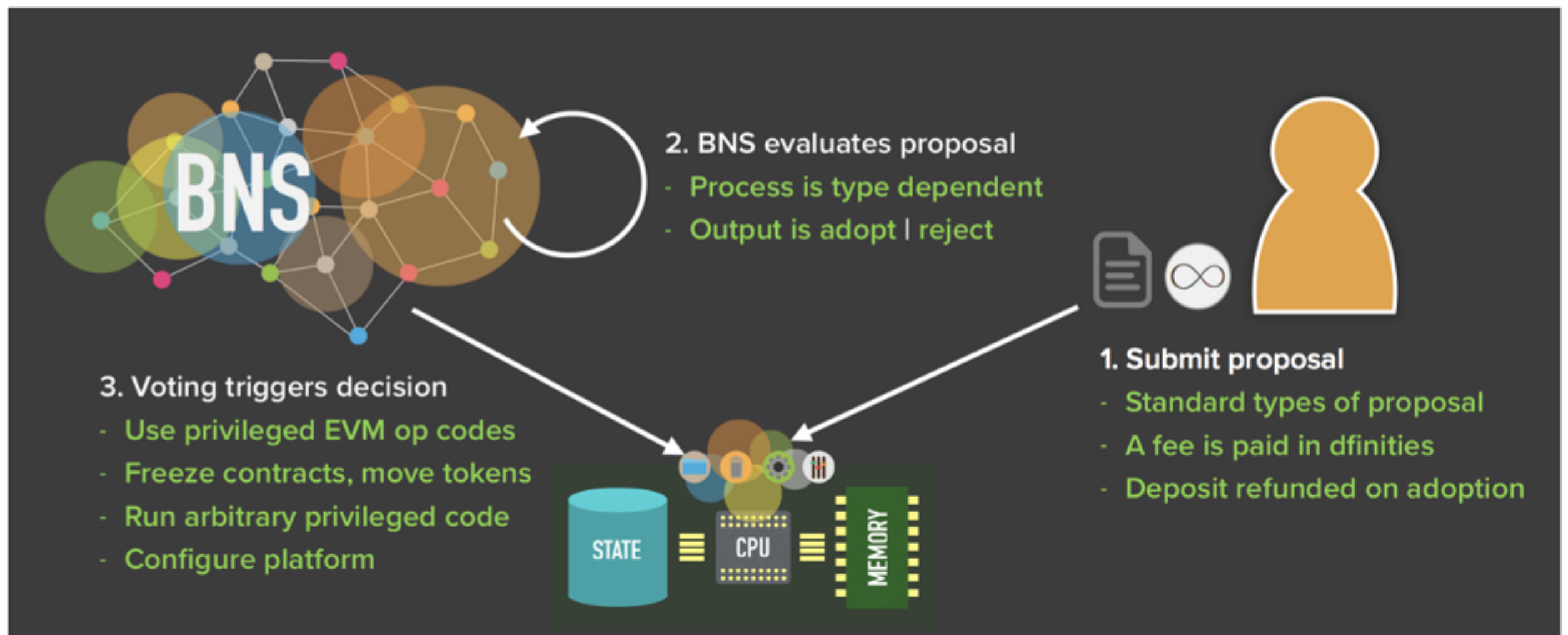


Where Ethereum really is



William Mougayar

GOVERNANCE



GOVERNANCE

- Yellow Paper Committee (Wood) : Constitutionally-driven DAO charged with only one task: providing an up to date hash of the git branch containing the latest canonical source code for the non-implementation specific specification of the Ethereum protocol.
- EIP 138 (Vitalik) - Bomb 2.0: Vote with Ether on a hard fork and make old chain unusable in the process.
- EIP 182 - Control Protocol Parameters with on-chain governance protocol constants (mainly opcode pricing) are read from smart contract Governed by Miners and/or Stakers

INTERCHAIN

- Cosmos
 - Tendermint PoS on IBC (inter-blockchain communication) compliant blockchains
 - Could transfer tokens from a blockchain to another
 - Ethermint kills web3.js :(<https://github.com/tendermint/ethermint/blob/master/ethereum/backend.go#L163>
- polkadot.io (Wood)

ORACLIZE

- draft-cavage-http-signatures-06 RFC. Signatures in HTTP headers
- Remix with extra tab : <http://goo.gl/Etv2MT>

DFINITY PoS

- Boneh-Lynn-Shacham Signatures (BLS)
- Distributed generation of n/M threshold deterministic signatures
- A good way to secure a block in consensus environment!
- Get some bits of the last signature, and use them to define the next group of the n signers that can sign the block.

The word "YEAH" is rendered in a bold, 3D, blocky font. The letters are white with black outlines and shading, giving them a three-dimensional appearance as if they are floating or standing on a surface.

MUST

- All
 - Introduction to Cryptoeconomics
- Devops
 - The Shanghai Attacks From a technical perspective
 - SecureToken Development and Deployment
 - Battling the blackhats



GUESS:

- A. Crypto trader**
- B. Somebody in this room**
- C. Vitalik**