

GRIT



CONSENSYS

Blockchain Introduction

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Blockchain vs. Internet

To better understand what blockchain is, and its utility, drawing analogies to the internet are helpful

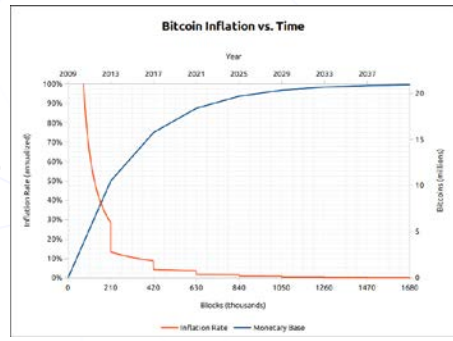
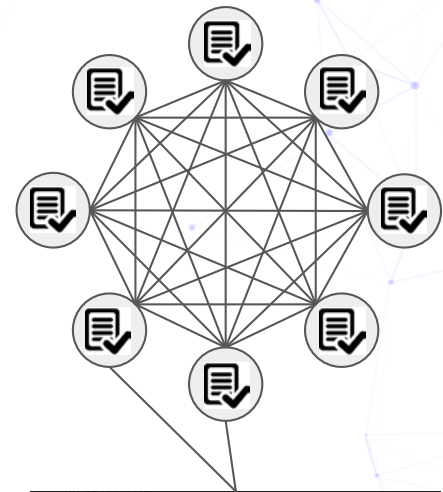
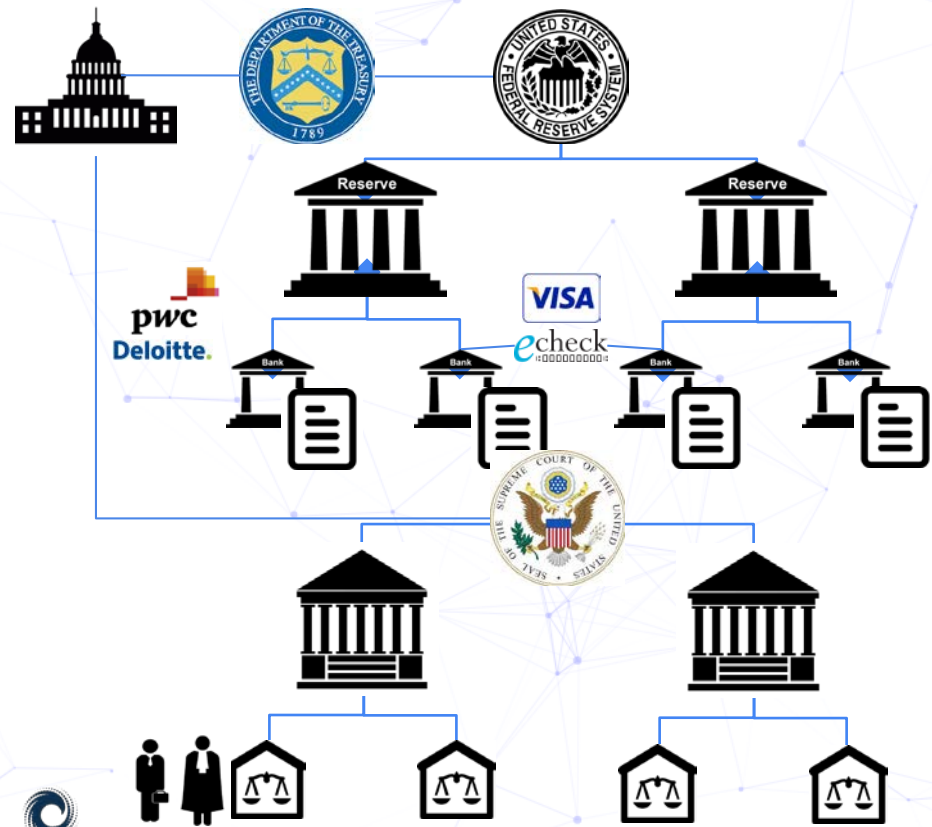
<i>Open Systems Interconnection</i>	TCP/IP Stack
<i>Applications</i>	FTP, HTTP, SMTP, Blockchain
<i>Transport</i>	TCP
<i>Network</i>	IP
<i>Physical/Data Link</i>	Ethernet, Token-Ring



Transfer of value vs. information

Blockchain vs. Banks

How does blockchain compare to traditional financial system



```
standard_authority.sol control
1 import "dappsys/control/authority.sol";
2 import "dappsys/control/auth.sol";
3
4 contract DSStandardAuthority is DSAuthority, DSAuth
5 {
6     function DSStandardAuthority() {
7         _is_root[msg.sender] = true;
8     }
9
10    mapping(address->bool) public _is_root;
11    mapping(address->mapping(address->mapping(bytes4->bool))) _can_call;
12
13    function can_call(address caller
14                    , address callee
15                    , bytes4 sig )
16        constant
17        returns (bool)
18    {
19        return _can_call[caller][callee][0x0000] == true
20            || _can_call[caller][callee][sig];
21    }
22 }
```

Blockchain Anatomy

What are the components of the blockchain and how does this all work

Blocks

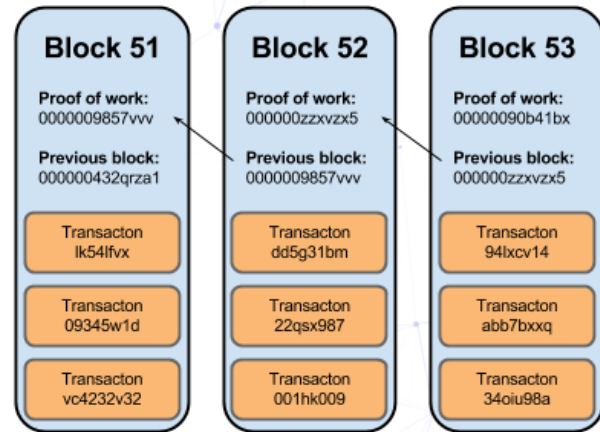
- Discrete periods of time
- Transactions included in a block are “settled”
- Blocks create priority preventing “double spends”

Mining

- Nodes validate transactions
- Add them into a list
- Create a “snapshot” of that using a Merkle tree
- Mine the transactions to find a block

Blockchains

- Blocks are linked in order by block headers
- Establishes priority, order, and immutability



Energy Market Opportunities

Grid+ a retail electricity provider in deregulated markets is the bridge from today's grid to the renewable transactive future

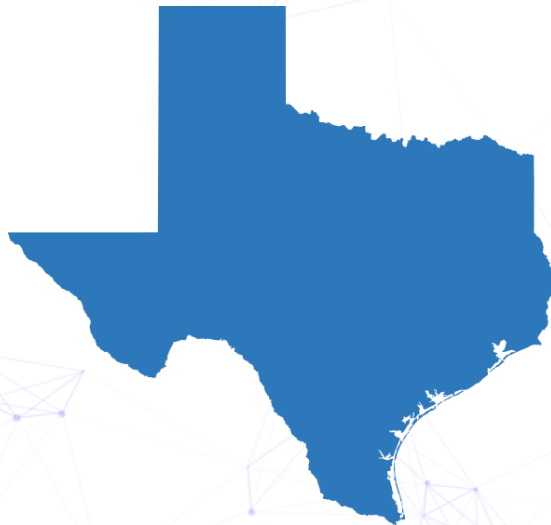
+ In the Energy markets we see three major opportunities:

- Remove residential retail inefficiency lowering costs
- Commoditize and trade renewable energy credits
- Create P2P markets which will incentivize DERs

+ How we capitalize on these opportunities:

- ConsenSys is working alongside multiple Fortune 50
- Grid+ will be a blockchain based residential energy provider (REP)

GRID+



GRID+

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A ConsenSys Formation

