

Who am I?

Jérôme de Tychey :-D

- Director of ConsenSys Solutions in France
 - ERC1400, Decentralized Finance, Security tokens, blockchain enabled corporate governance...
- Find me on social media @jdetychey
 - email: jerome@consensys.net
- Background in economics (game theory and growth model)
- President of Asseth







France has a huge and active community

Attend and present at EthCC next year, ring me whenever you are in France and wants to connect

https://ethcc.io





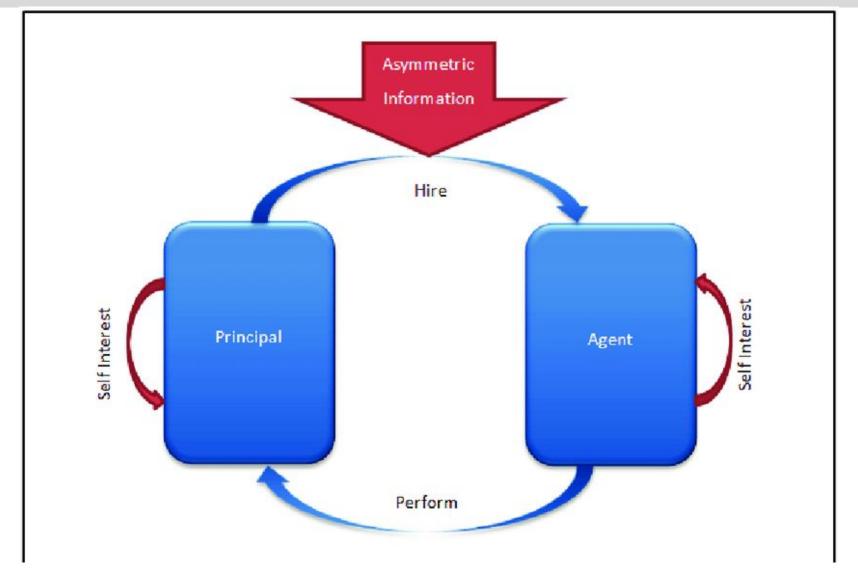




What do you Dao?

What do you DAO?

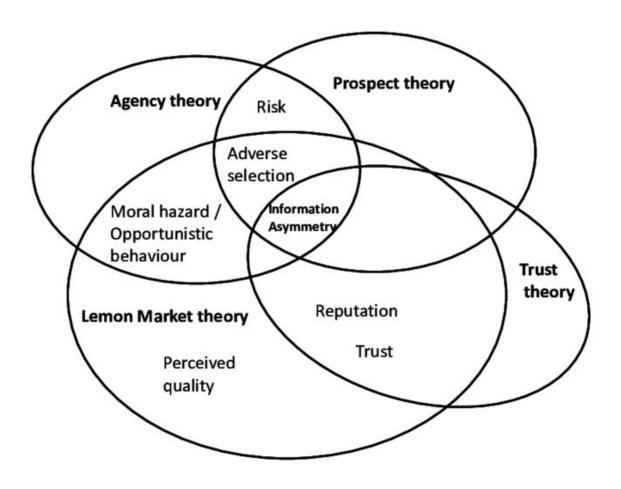
Jensen & Meckling,1976: Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure







What do you DAO?









Smart Contracts - Softwares deployed in the Ethereum Blockchain

Neither smart nor contracts but immutable tamper-proof self executing software

Smart contracts

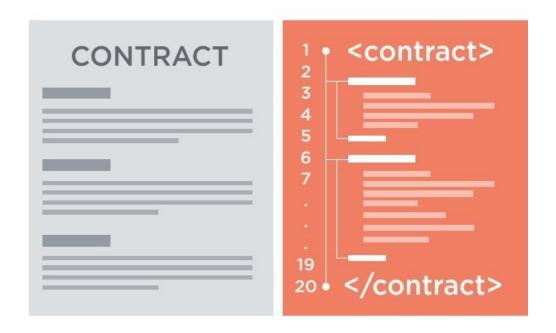
Smart contracts are code stored on the blockchain and self-executed, using the trust and security of the blockchain network.

They provide an application logic that runs in a distributed fashion on the Ethereum blockchain and operates using the power of the Turing-complete Ethereum Virtual Machine (see next slide). It allows users to program anything (sky is the limit!) and therefore enhance or completely redesign business processes and services.

Dapps and DAOs

Collections of integrated smart contracts and traditional web technologies realize a new breed of **decentralized applications (dapps)** and create a vision for **decentralized autonomous organizations (DAOs)**

Ethereum pioneered token standards allowing businesses to create their own tokens representing assets or utilities and still interact with the Ethereum blockchain via smart contracts (e.g., ERC20, ERC223, ERC777 ERC721 .ERC1400)





Let there be tokens, the ERC20 Standard

The killer app so far: 197,918 Token Contracts found on Etherscan

- A smart contract running on top of the ethereum blockchain, i.e. a set of code (functions) with an associated database
 - The code describes the behavior of the token
 - The database is basically a table with rows and columns tracking who owns how many tokens.

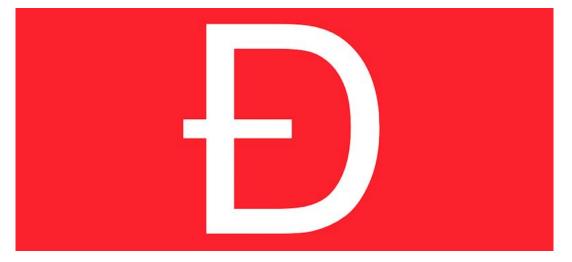
```
1 // https://github.com/ethereum/EIPs/issues/20
2 contract ERC20 {
3    function totalSupply() constant returns (uint totalSupply);
4    function balanceOf(address _owner) constant returns (uint balance);
5    function transfer(address _to, uint _value) returns (bool success);
6    function transferFrom(address _from, address _to, uint _value) returns (bool success);
7    function approve(address _spender, uint _value) returns (bool success);
8    function allowance(address _owner, address _spender) constant returns (uint remaining);
9    event Transfer(address indexed _from, address indexed _to, uint _value);
10    event Approval(address indexed _owner, address indexed _spender, uint _value);
11 }
```



- Facilitate integration and interoperability of dapps in the Ethereum ecosystem
- The ERC20 Token Standard as a common set of rules for ethereum-based tokens to adhere to.
- As a result, almost all of the major tokens on the ethereum blockchain today, including those sold in initial coin offerings (ICOs), are ERC-20 compliant.

Flashback from 2016: the DAO Débâcle

Bringing Securities to the Blockchain



- TheDAO (Decentralized Autonomous Organization) one smart contract to be the mother of all DAO
- The smartcontract acted as a stake based (the DAO Token) investment funds emitting reward tokens on project it funded
- Huge enthusiasm in the community, ICO in May 2016 raised 11.5 M Eth (150M\$)
- A bug in the smartcontract led to a hack that was canceled by an act of governance from the community in June 2016
- Lots and lots and lots of ICO followed as well as a huge effort on security issues and coding best practices (even formal proofs)



Flashback from 2016: the DAO Débâcle

Bringing Securities to the Blockchain

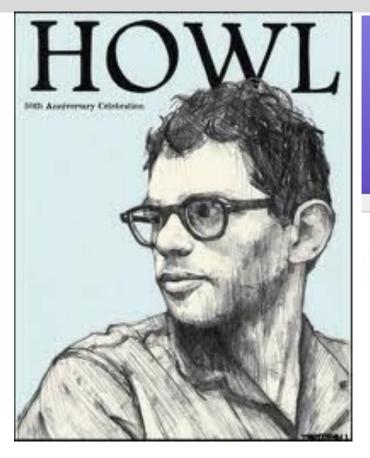






Moloch! (in the US)

"I have seen the best minds of my generation destroyed by madness", Howl, 1956





Slate Star Codex

SELF-RECOMMENDING!

MEDITATIONS ON MOLOCH

Moloch whose mind is pure machinery! Moloch whose blood is running money! Moloch whose fingers are ten armies! Moloch whose breast is a cannibal dynamo! Moloch whose ear is a smoking tomb!



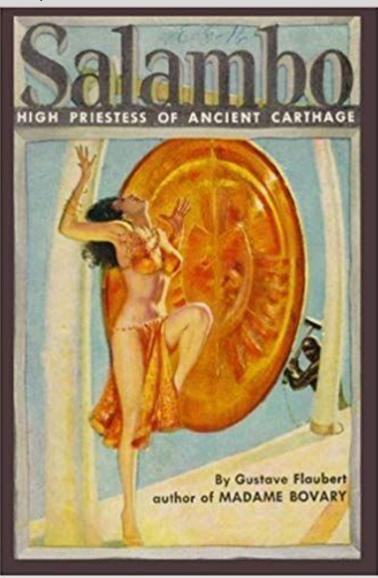


Moloch! (in France)

"«Moloch, tu me brûles! » et les baisers du soldat, plus dévorateurs que des flammes, la parcouraient ; elle était comme enlevée dans un ouragan, prise dans la force du soleil." Salammbô, 1862









DAO example: MolochDAO

https://molochdao.com

A grant giving DAO to fund ethereum 2.0 additional features and future

developments

- So far
 - 7313.54 Ether
 - 72 proposals completed (64 members)
- How does it work?
 - Become a member by giving to Moloch and send a proposal
 - Ask a member to send a proposal for you





Merci!

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