

# Digital Finance

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## Smart Contracts

### Lecture 7

# Smart Contracts: Ethereum

# DOW JONES INDUSTRIAL AVERAGE



SOURCE: Yahoo Finance

BUSINESS INSIDER

# DAO: Distributed Autonomous Organization

- DAO: the most popular Smart Contracts platform
- A DAO is “a tightly packed collection of smart contracts written on the Ethereum blockchain”
- A DAO’s smart contracts amount to a series of by-laws that determine how its

# Autonomous Organization (cont.)

- Ether: Entry Token used to:
  - Record transactions
  - Vote on outcomes
  - Purchase other tokens within the ecosystem
- Transactional process (sharding)
  - Top level retains “master ledger”
  - Lower level nodes run Proof of Stake
  - Much more efficient from a scaling perspective (compared to Bitcoin simple Proof

# Other Blockchain Applications

# Other Blockchain Applications

- Issuing Stocks and Bonds
- Insurance
- Land Registries
- Supply Chain Integrity

# Q&A

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