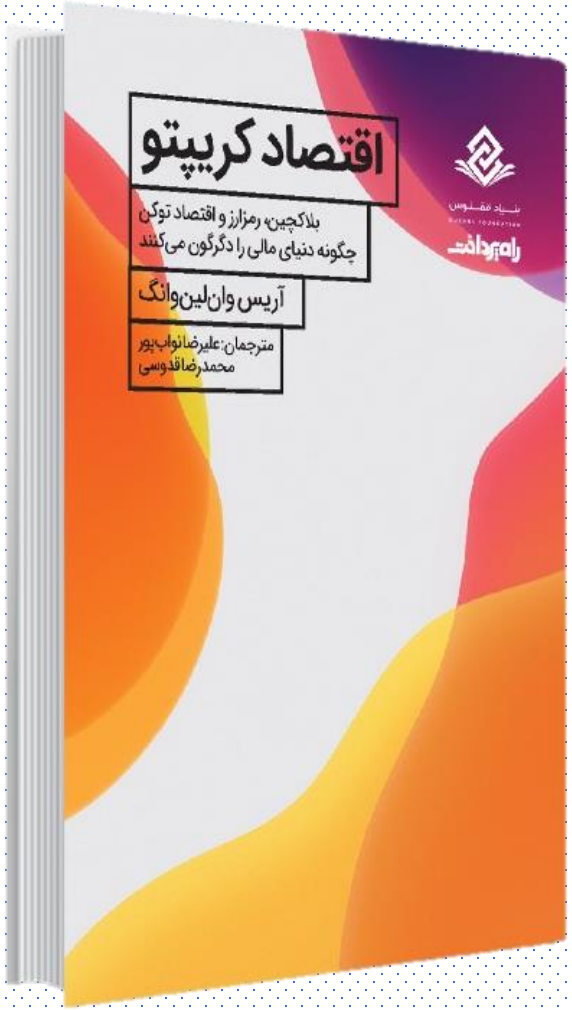
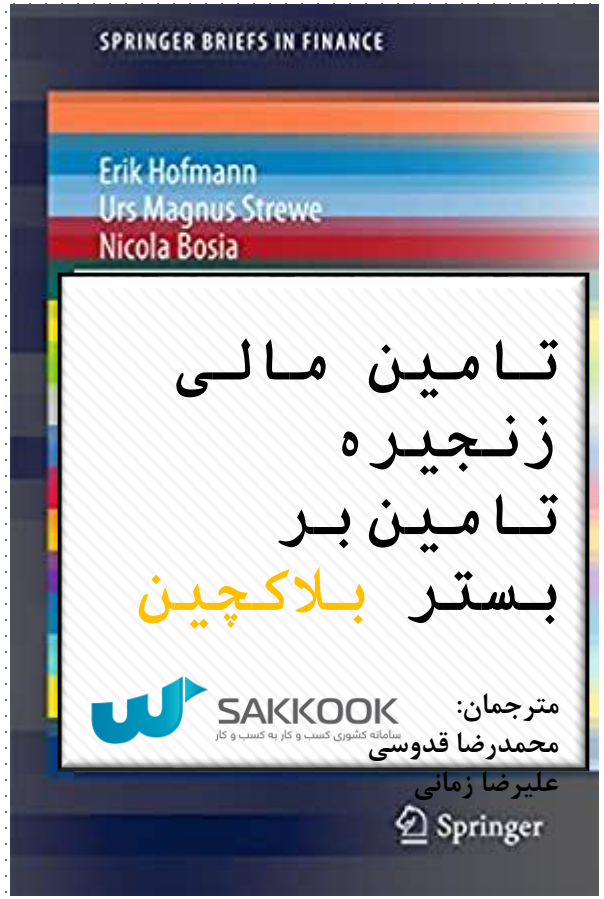
# BLOCKCHAIN IN SUPPLY CHAIN

MOLAVI

محمد رضا قدوسی


اقتصاد کریپتو
بلاکچین، رمزارز و اقتصاد توکن
چگونه دنیای مالی را دگرگون می‌کنند
آریس وان‌لین‌وانگ
مترجمان: علیرضا نواب‌پور
محمدرضا قدوسی


SPRINGER BRIEFS IN FINANCE
Erik Hofmann
Urs Magnus Strewe
Nicola Bosia
تامین مالی زنجیره تامین بر بستر بلاکچین
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BLOCKCHAIN
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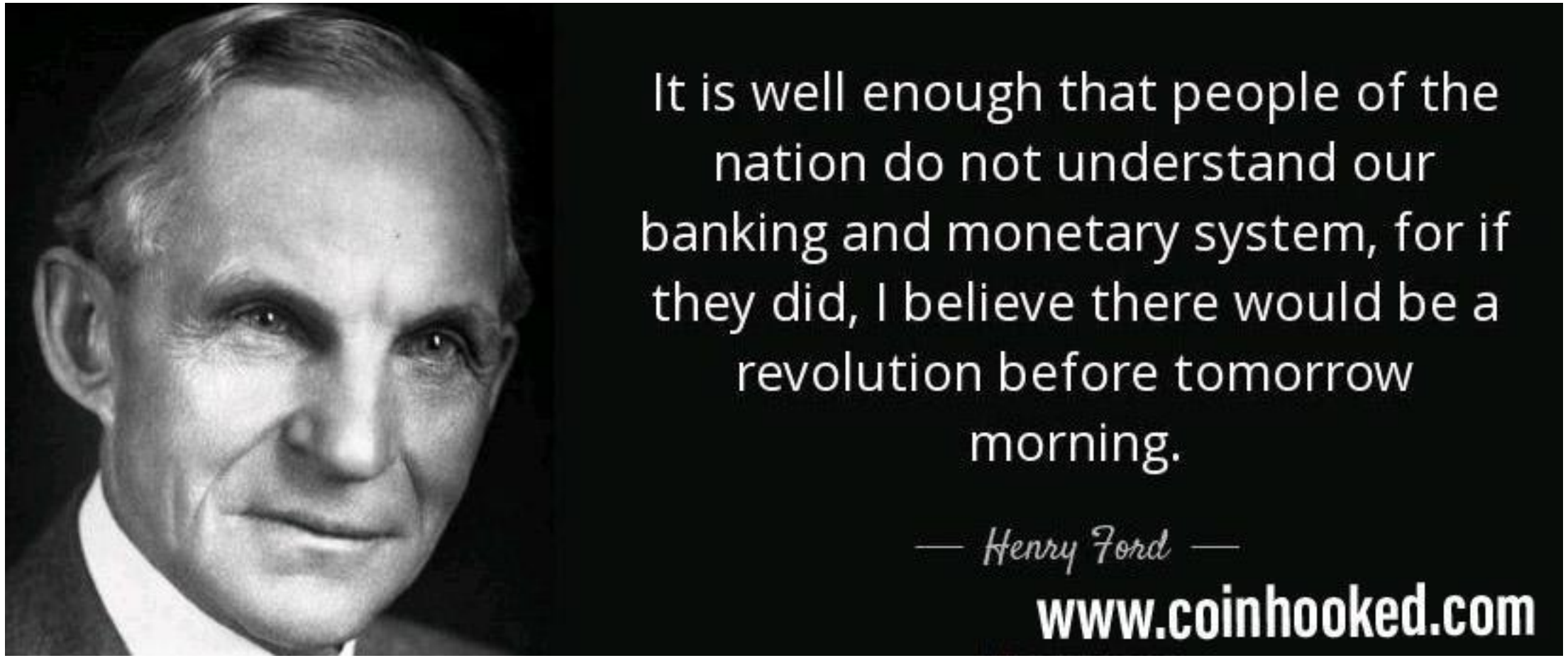
There is always a need for

| | Problem | The Stakeholders | Conventional Solution | Technological Solution | By |
|---|---|---|---|---|---|
| **1400s** | **Slow-pace Knowledge Distribution** | • **Church**<br>• **People** | Hand-written books | Printing Machines | Reducing the Human-based efforts in the process |
| **1800s** | **Slow-pace Production of goods** | •**Wealthy people**<br>•**Not-wealthy people**<br>•**Producer**<br>•**Distributor** | **Hand-craft goods** | Production facilities and machines | Reducing the Human-based efforts in the process |
| **1990s** | **Slow-pace Information Distribution** | People | Wire-based Or Physical Communications | Computers and Internet | Reducing the Human-an based and Physical efforts in the process |
| **2000s** | **Slow-pace Knowledge Distribution** | • **Seller**<br>• **Buyer**<br>• **Frauduleux** | intermedium Trust | Blockchain | Reducing the Human-based efforts in the process |

**INTERMEDIATES**

While they Facilitate and validate Transactions

# They Take all Controls over our Economic Transactions


It is well enough that people of the nation do not understand our banking and monetary system, for if they did, I believe there would be a revolution before tomorrow morning.
— Henry Ford —
www.coinhooked.com

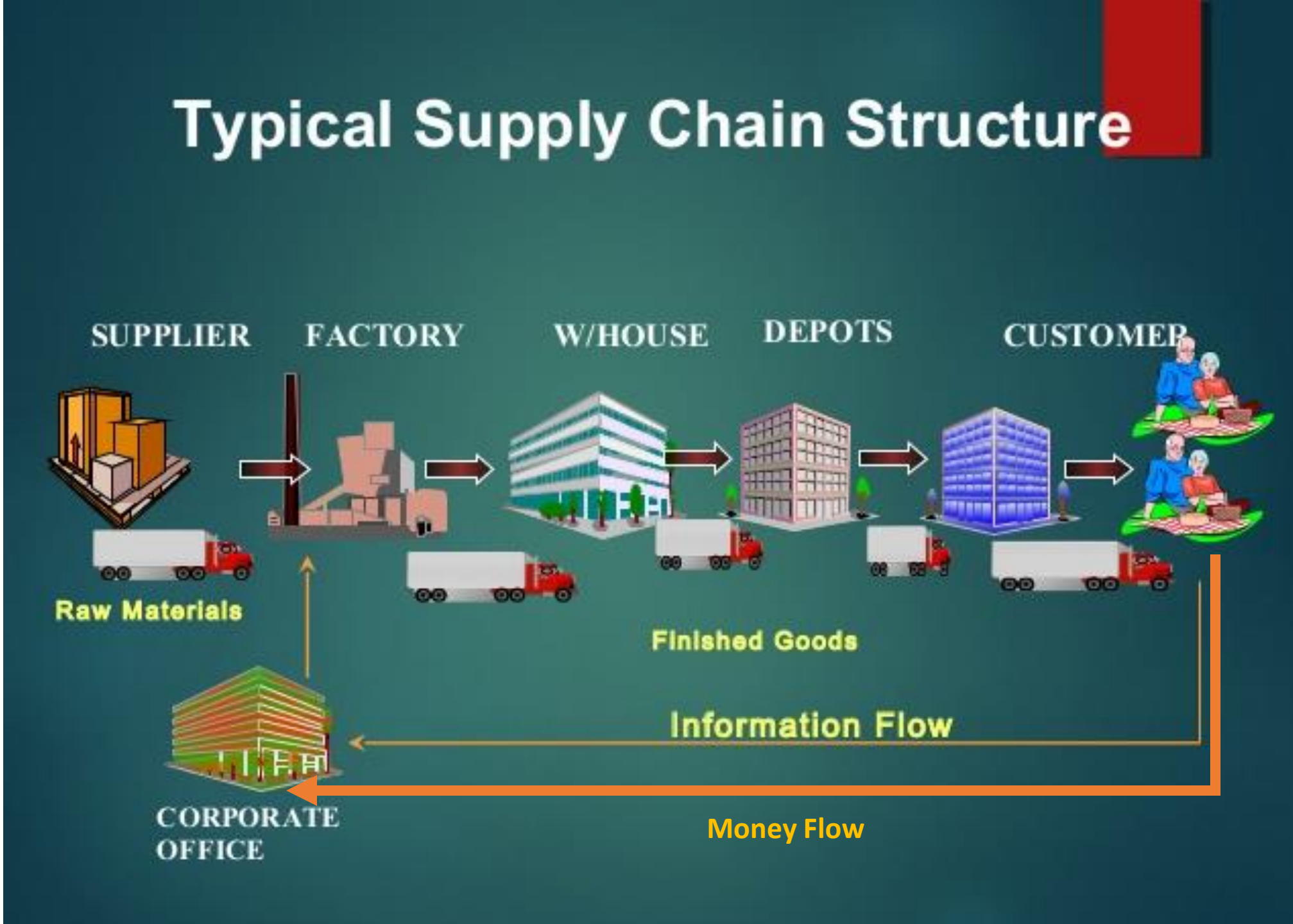
نیاز به یک سیستم داشتیم که بجای روش
های سنتی ایجاد اعتماد بنشیند و درست و
بدون غرض، عمل کند.
پس بلاکچین ایجاد شد

# Blockchain Main Benefits

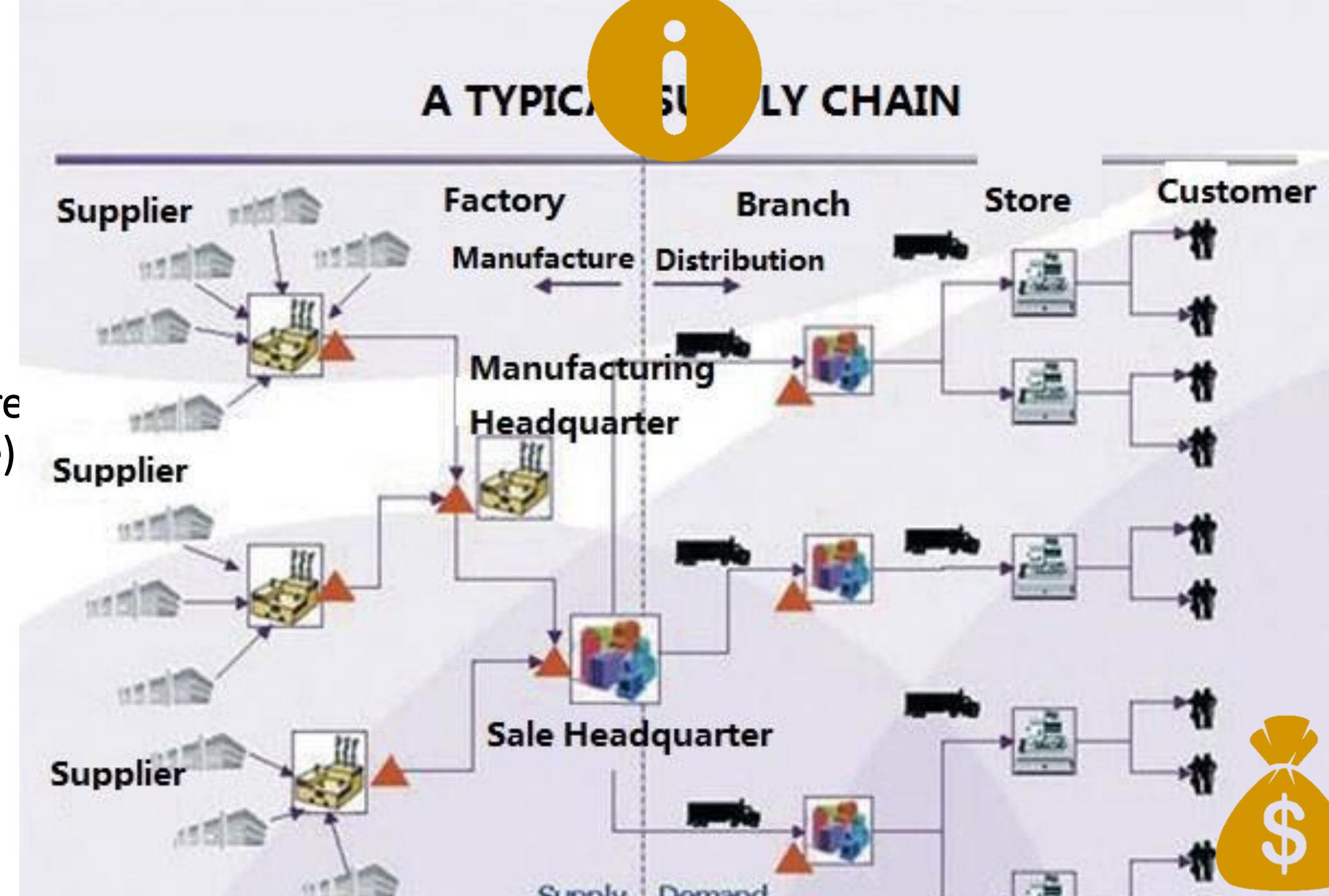
اعتمادزایی در خصوص صحت تراکنش

**اعتمادزایی به انجام تعهدات**

The supply chain structure (simple View)



The supply chain structure (the real case)



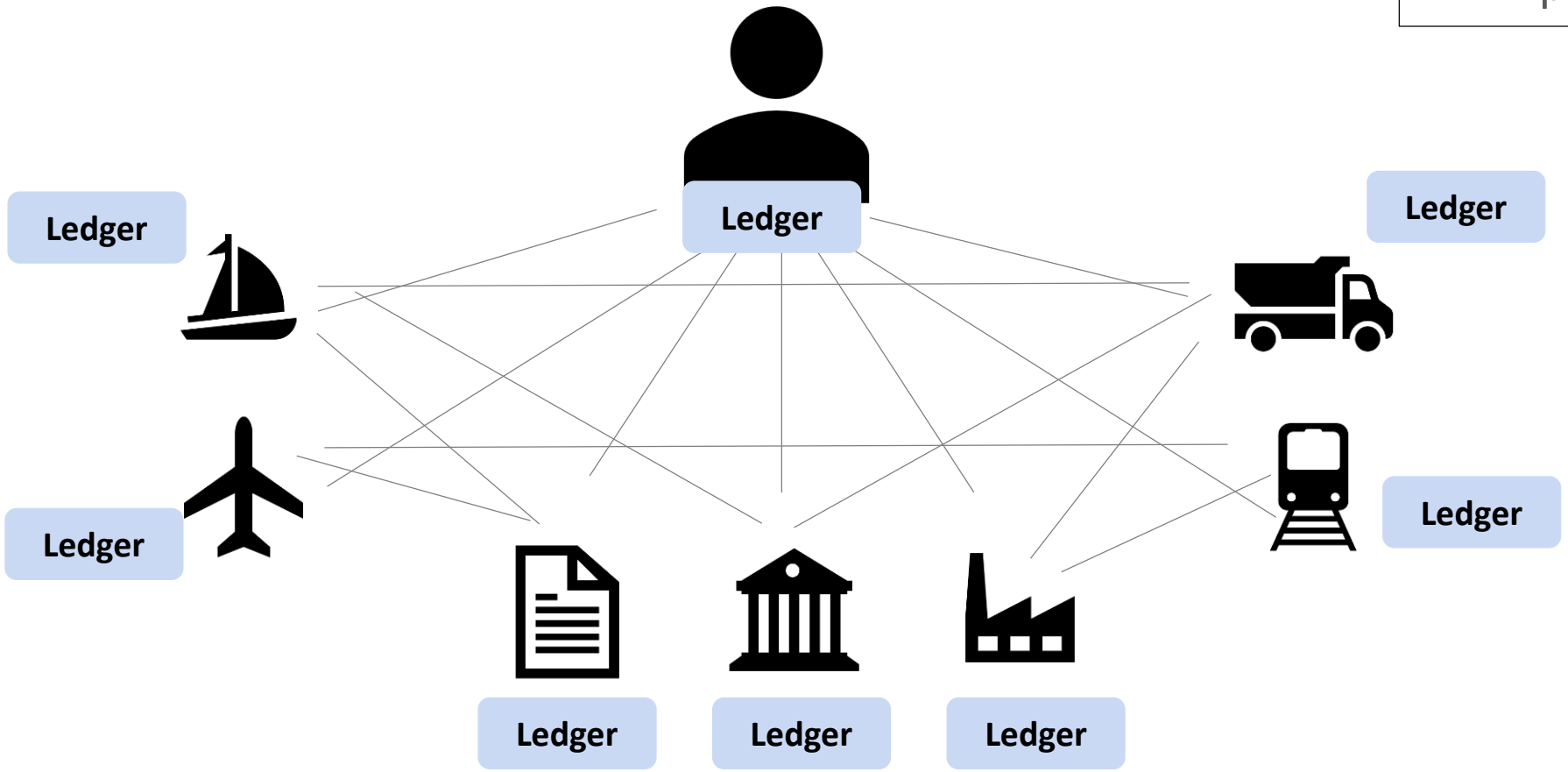
# Three main Flows (Goods, Information, Money)

| Flow | Problems | Blockchain Solution | Examples |
| --- | --- | --- | --- |
| **Goods** | **Trackability** | Register all the data from origin-to-destination that anyone can see | Walmart |
| **Information** | • **Traceability**<br>• **Ownership** | • **Validate the transactions** | **Everledger** |
| **Money** | • **Money Transfer**<br>• **Free Cash-flow** | • **Cryptocurrencies as the medium**<br>• **SCF solutions** | • **R3 Consortium** |

# What can it mean to supply chains?

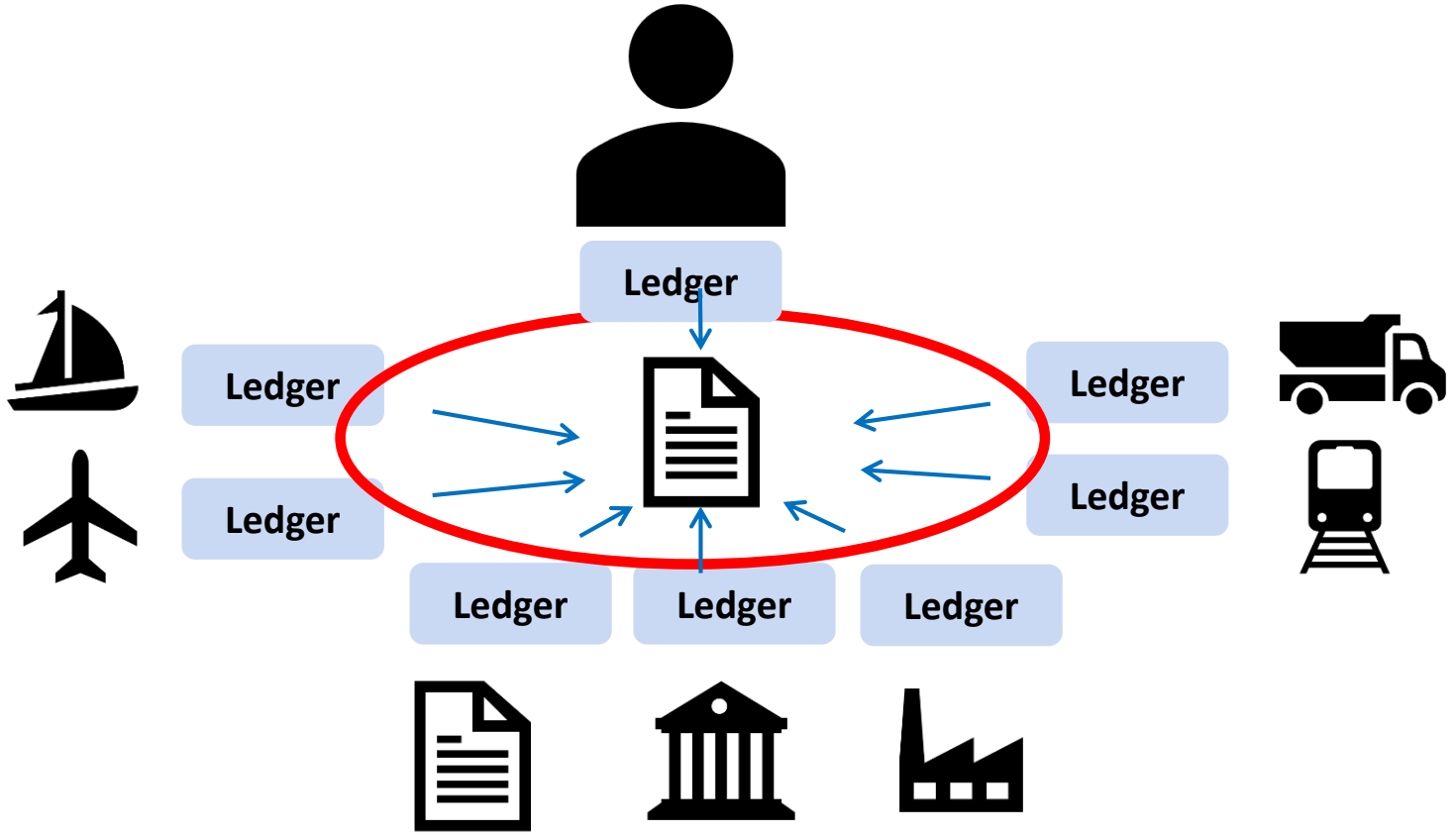
**Problem:** Difficult to monitor asset ownership and transfers

- Inefficient
- Mis-alignment
- Expensive



## What can it mean to supply chains?

- **Solution:** Blockchain – synchronized, consensus, irreversible, provenance and efficiency



# کنسرسیوم اعراب+ کنسرسیوم نفتی

https://www.dailysabah.com/energy/2018/09/19/energy-giants-banks-launch-new-blockchain-platform-for-oil-and-gas-deals

TURKISH AIRLINES
GO BEYOND
ADMIRE THE UNSEEN
WITH TURKISH AIRLINES
A STAR ALLIANCE MEMBER



IGA

# Energy giants, banks launch new blockchain platform for oil and gas deals

FRENCH PRESS AGENCY - AFP

PARIS

Published September 19, 2018

*Shell branding is seen at a petrol station in west London, in this January 29, 2015 file photo. (Reuters Photo)*

Fifteen multinationals including energy behemoth Royal Dutch Shell and banking giant Citi on Wednesday announced the launch of a new blockchain platform to facilitate oil and gas deals.

Dubbed komgo SA, the platform is the latest of several in the world of finance to use the cutting-edge blockchain technology driving

# READY FOR THE FUTURE?

محمد رضا قدوسی