

# *Bitfury*

GLOBAL BLOCKCHAIN TECHNOLOGY

COMPANY WITH A REALLY SIMPLE PURPOSE:

TO MAKE THE WORLD A BETTER PLACE FOR

ALL HUMAN BEINGS, MORE TRANSPARENT

AND MORE TRUSTED

# DEMO - VOTING



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<http://exonum.com/demo/voting/#/welcome>

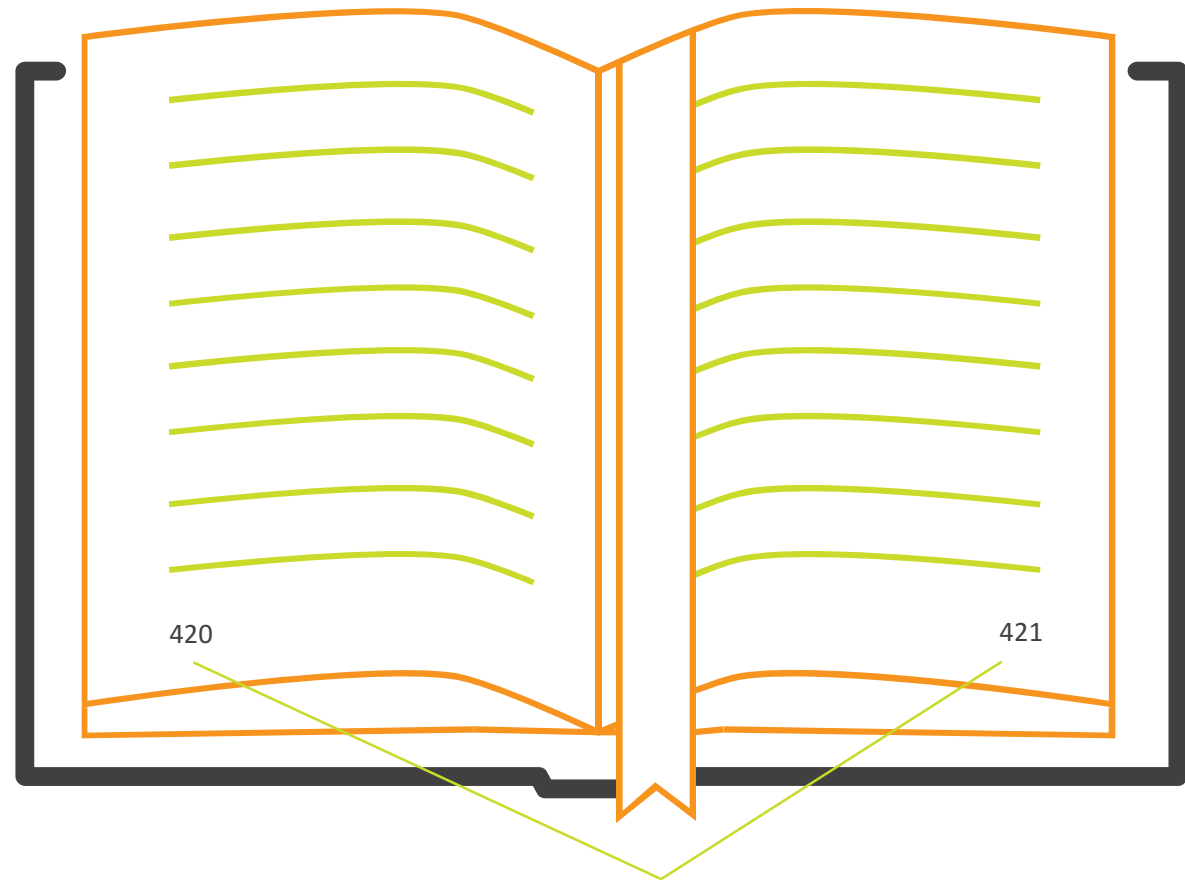
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# BLOCKCHAIN

Chain of book pages =  
chain of blocks in Blockchain

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Chain of book pages =  
chain of blocks in  
Blockchain



Integrity verification

# BOOK AND BLOCKCHAIN ANALOGY



1.

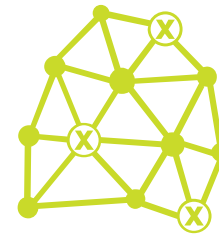
Impossible to remove  
pages unnoticed

2.

Impossible to change  
the existing text

3.

Book is stored in many copies



1.

Data can't be deleted

2.

Data can't be  
manipulated

3.

Data is stored on many nodes

# BLOCKCHAIN ADVANTAGES



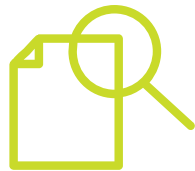
## **Immutability**

Impossible to change data that has been recorded on the Blockchain



## **Trust**

The network architecture eliminates the question of trust to infrastructure provider



## **Easy Audit**

Audit can be done by any network member and can be easily confirmed



## **Economy**

No intermediary and online audit result in reducing transaction processing cost

# CASE STUDIES

# **FIRST PUBLIC REGISTRY ON BLOCKCHAIN. GEORGIA.**

**In January 2017 the first world's  
public registry on Blockchain was launched.**

# Blockchain – based land titling service

Blockchain technology brings security and reliability

Each property has its own unique hash

Property certificate requests: 10 minutes instead of 3 business days

**Bitfury**





# Land Titling – The Opportunity

Only 2 billion people around the world have a legal title to control their land

\$20T in “dead capital” sits outside land titling systems with no protection for property rights

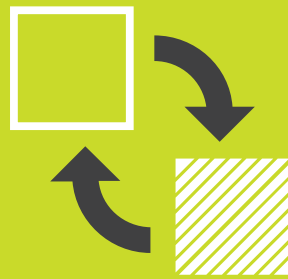
Prevents falsification of records; avoids corruption and provides resilience in the event of natural or manmade disaster



# DATA ON BLOCKCHAIN CAN'T BE:



DELETED



CHANGED



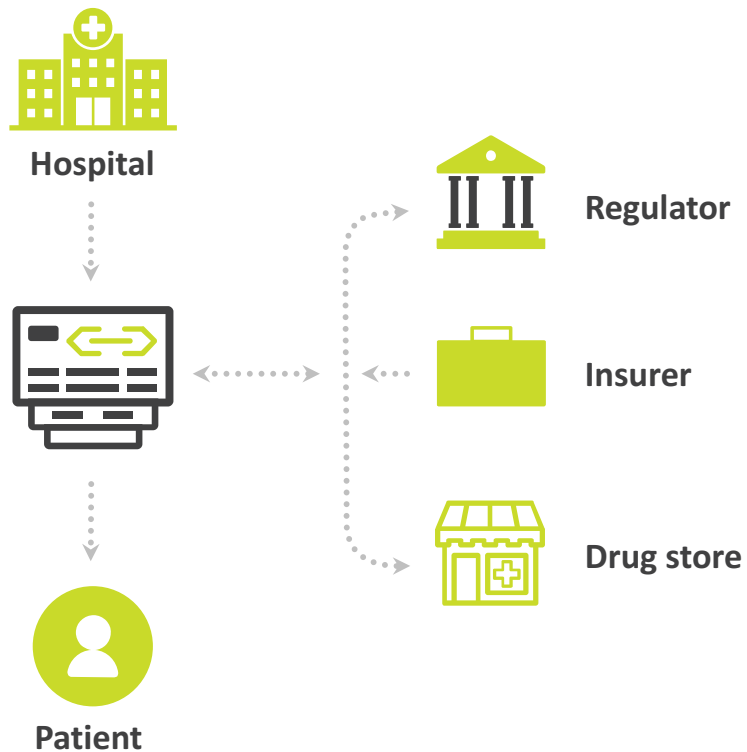
MANIPULATED

# GOVERNMENT: HEALTHCARE

Infrastructure solution for storage and syncing of charts, prescriptions, licenses, sick certificates etc.

## Issues:

- ◆ Falsification of prescriptions
- ◆ Limited medication
- ◆ Growing number of medicine dependent people
- ◆ Thousands of people die just from desomorphine every year



## Results:

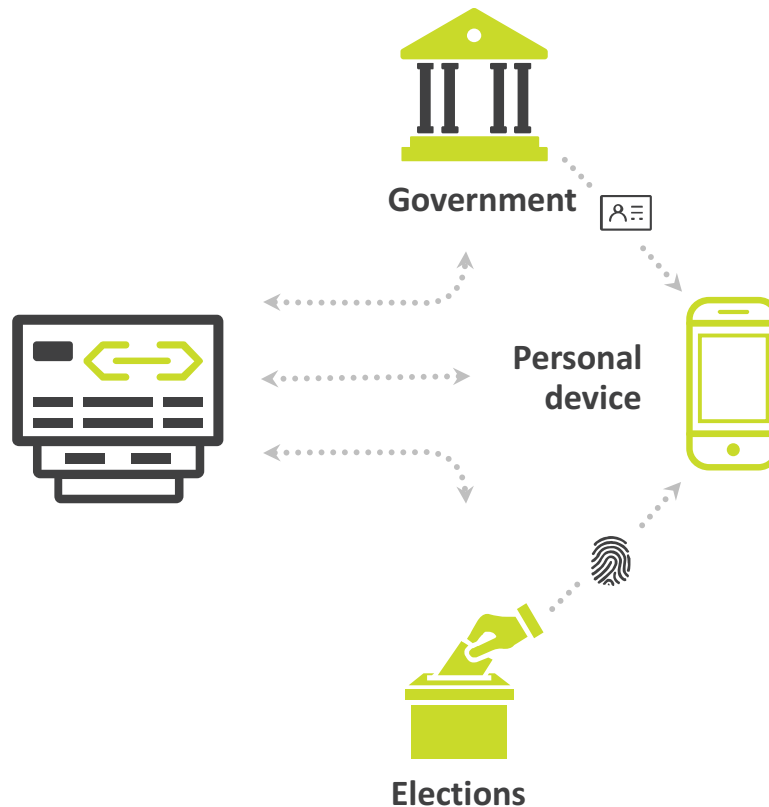
- Efficient tracking of prescription medicine turnover
- Sales lifecycle control of prescription medicine
- No falsification
- Not centralized
- Faster request process and data update
- Access control

# GOVERNMENT: IDENTIFICATION

Online passport allowing accurate identification both online and offline

## Issues:

- ◆ Slow paperwork
- ◆ Possible data manipulation
- ◆ No common informational environment
- ◆ Unreliable intermediaries



## Results:

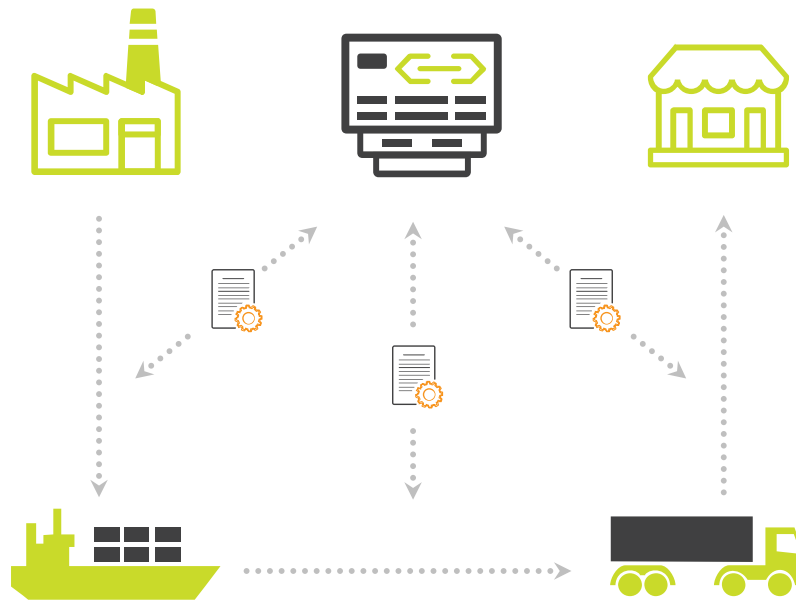
- Faster and cheaper identification at third-party services
- Resistance to hacking and internal fraud
- Relevant country-scale common space of data
- Direct access to data with no intermediary; a citizen manages his own documents

# GOVERNMENT AND BUSINESS: SUPPLY CHAIN

Blockchain tracks goods at one distributed ledger and ensures compliance with the established rules and procedures.

## Issues:

- ◆ Overdue deliveries
- ◆ Orders accuracy
- ◆ Corruption on procurement and delivery.



## Results:

Transparent coordination with a revenue and other services

No accounting manipulation

Open to all participants

Minimal corruption

Timestamping

Can be used in military sector, public procurement and education.

# AUDIT

Blockchain significantly modifies the audit process making it much more efficient.

## Issues:

- ◆ Audit is an expensive way to examine financial statements
- ◆ Takes longer time
- ◆ Hijacks internal resources of a company



## Results:

Faster process – can be achieved by one auditor

Cost reduction: audit costs decrease exponentially

Reliability -100% certainty

Minimizing involvement of internal resources

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