

### Elmar Malikov



- Founder Nirvaana Club
- CEO Elmar Malikov Company
- Business, start-up, STO, IEO adviser and coach
- Extensive experience in founding and developing start-ups
- Background in Finance, Economics, International Relations, Coaching, Neurolinguistics, Management
- Industries have been involved include Telco, Fintech, Travel, MICE, Amusement parks, FMCG

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## BLOCKCHAIN DEVELOPMENT

- New type of data base technology
- Bitcoin
- Other cryptocurrencies
- Smart contract
- Derived cryptocurrencies
- Al integration

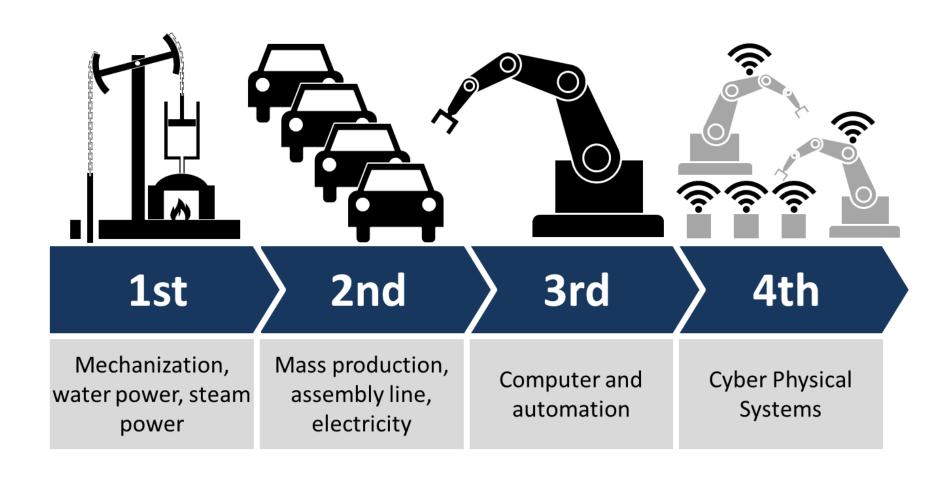
# BLOCKCHAIN, THE TECHNOLOGY

- a growing list of records, called blocks
- linked using cryptography
- each block contains a cryptographic
  - hash of the previous block
  - a timestamp
  - transaction data

### BLOCKCHAIN - WHAT THIS IS ABOUT

- resistant to modification of the data
- an open, distributed ledger that can record transactions between two parties efficiently and in a verifiable and permanent way
- a peer-to-peer network collectively adhering to a protocol for inter-node communication and validating new blocks
- once recorded, the data in any given block cannot be altered retroactively without alteration of all subsequent blocks, which requires consensus of the network majority
- distributed computing system with high Byzantine fault tolerance

## INDUSTRY DEVELOPMENT STAGES



### 4.0 HIGHLIGHTS

- Industry 4.0 is a name given to the current trend of automation and data exchange in manufacturing technologies.
- It includes
  - cyber-physical systems
  - the Internet of things
  - cloud computing
  - cognitive computing

Industry 4.0 is commonly referred to as the fourth industrial revolution

### 14 DESIGN PRINCIPLES

- Interconnection: The ability of machines, devices, sensors, and people to connect and communicate with each other via the Internet of Things (IoT) or the Internet of People (IoP)
- Information transparency: The transparency afforded by Industry 4.0 technology provides operators with vast amounts of useful information needed to make appropriate decisions. Inter-connectivity allows operators to collect immense amounts of data and information from all points in the manufacturing process, thus aiding functionality and identifying key areas that can benefit from innovation and improvement
- Technical assistance: First, the ability of assistance systems to support humans by aggregating and visualizing information comprehensively for making informed decisions and solving urgent problems on short notice. Second, the ability of cyber physical systems to physically support humans by conducting a range of tasks that are unpleasant, too exhausting, or unsafe for their human co-workers
- Decentralized decisions: The ability of cyber physical systems to make decisions on their own and to perform their tasks as autonomously as possible. Only in the case of exceptions, interferences, or conflicting goals, are tasks delegated to a higher level

# I 4.0, INDONESIA SPECIFIC

- Fire fighting
- Mining
- Agriculture
- Transport
- Construction
- Cleaning
- Emergency

### CASES – CANTAKA-STRAUS

- Unmanned fully automated transportation
- Devices (vehicles)
   communicate with each
   other, make decisions
- Alarm system fully automated
- Emergency actions fully automated



## CASES - CLENOID

- Skyscraper facade cleaning robots
- Zero Human risks
- Partially automated





#### Totally automated piloting

- 250 km per hour speed
- 250 kg of load
- A95 petrol
- Easy maintenance

# CASES – AUTO-PILOT HELICOPTERS



## BLOCKCHAIN APPLICATIONS

- Payment
- Medicine
- Voting
- Financial reporting
- Marketing and advertising
- Logistics

### INDUSTRY 4.0 AND BLOCKCHAIN

- Transparency this is one of the core advantages of blockchain
- Internet of things mining, prove of transaction... this is all already unmanned and automated
- Smart-contract automate settling transactions
- Blockchain gives unprecedented protection of data from modifiction

# BLOCKCHAIN APPLICATIONS. DIGITAL MONEY

- Speed of transaction
- Cost
- Intermediary
- Security
- Ease of storing
- Inflation

# BLOCKCHAIN APPLICATIONS. VOTING

- Candidates track record on blockchain
- Privately kept lifelong information about anybody
- Temporary nodes created for each voting session, private gadgets involved

- No results scamming
- No candidates history scamming

### BLOCKCHAIN FUTURE. DIGITAL MONEY

- Cost of transactions close to zero
- Speed instantly
- Role of banks no banks involved
- Crypto acceptance any place from coffee shop to tax offices worldwide

## BLOCKCHAIN FUTURE. FUNDRAISING

- Verified data on business / start-up history
- Automated dividend distribution
- Automated verified business reports
- Security / equity tokens as shares
- Founder and key team players verified track record

### **BLOCKCHAIN**

- Blockchain taken simple is just a database
- Encryption an decentralization make it secure and reliable
- Digital (crypto) currencies are probably the best application based on blockchain

# CRYTOCURRENCIES, TOKENS

### **Existing problems**

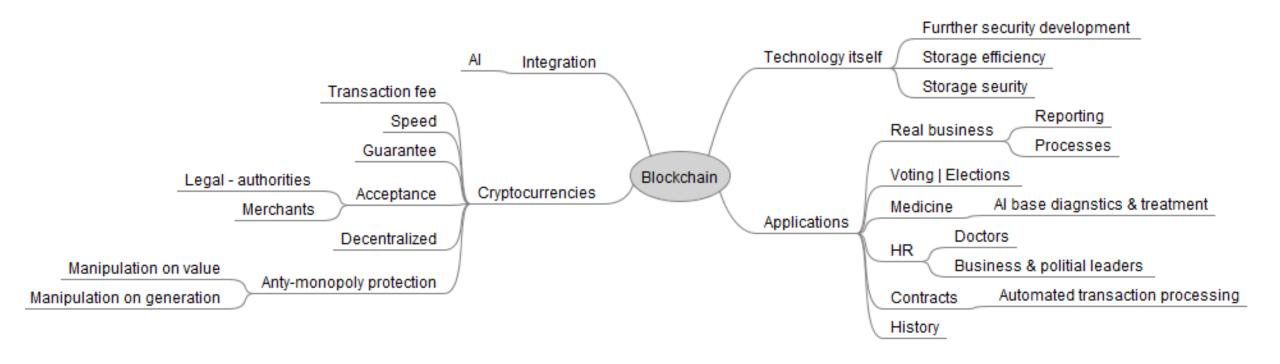
- No backing
- No purpose
- No value
- Trading
- Complicated storage
- Market making / price manipulation
- Centralized mining
- Centralized ownership

## CRYTOCURRENCIES, TOKENS

#### Solution

- Crypto currencies to be fully backed
- Storage / verifying better tools developed
- Integration into national economies developed – regulation, taxation
- Self regulation un-backed, no purpose and value crypto currencies will just lose value and disappear

### BLOCKCHAIN FUTURE



### THANK YOU!

### IT IS HAPPENING ANYWAY!

### LETS BE A PART OF IT OR, BETTER, LEAD IT!

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