# Sompocer >eurodata-Gruppe

## **Blockchain** Wann macht Blockchain wirklich Sinn? Lumir Boureanu (CEO)



# The End of the Middleman

- It all started with bitcoin
  - Clever combination of algorithm, incentives and randomness.
  - A state machine
  - It is not a database!
  - It is not a messaging service!

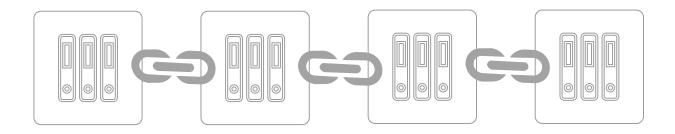


#### who is on the other end of a transaction?



# What was Blockchain originally?

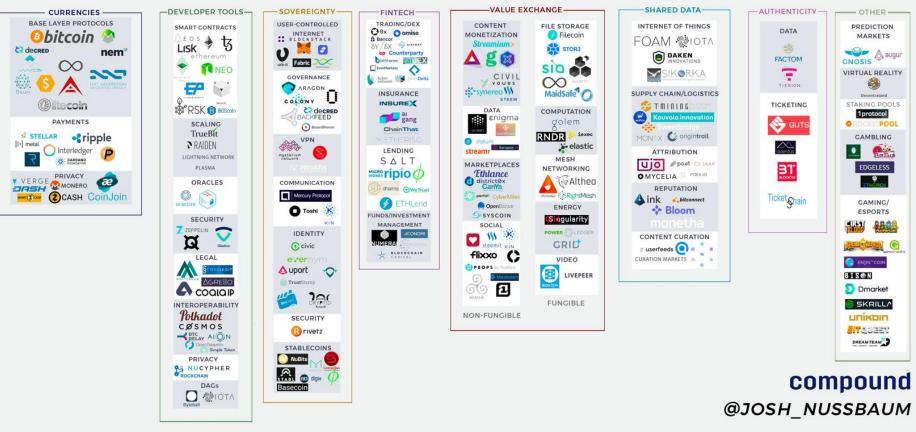
Blockchain replaces this central system with a decentralized ledger of chained records.



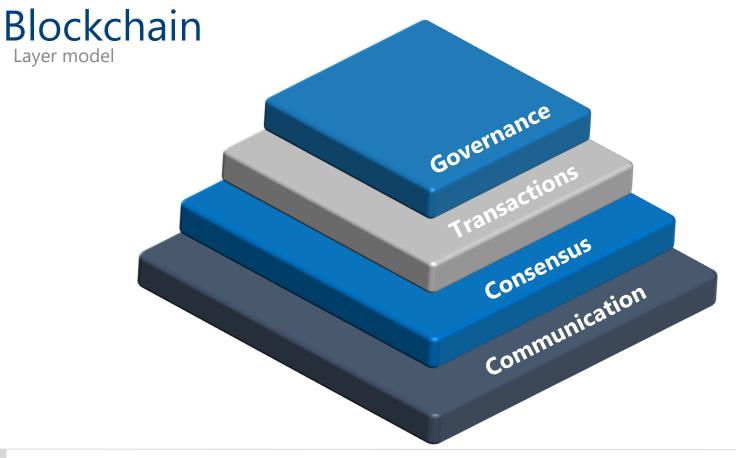
#### **Transparency creates confidence!**



#### **BLOCKCHAIN PROJECT ECOSYSTEM**









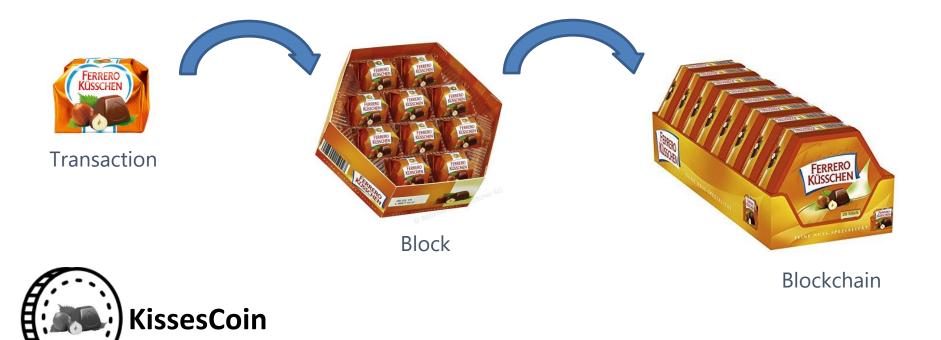




#### Let us design our own cryptocurrency to understand the importance



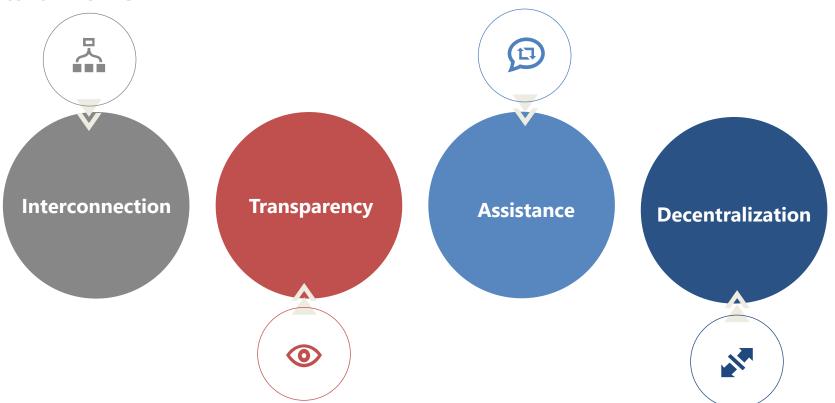






## Industrie 4.0

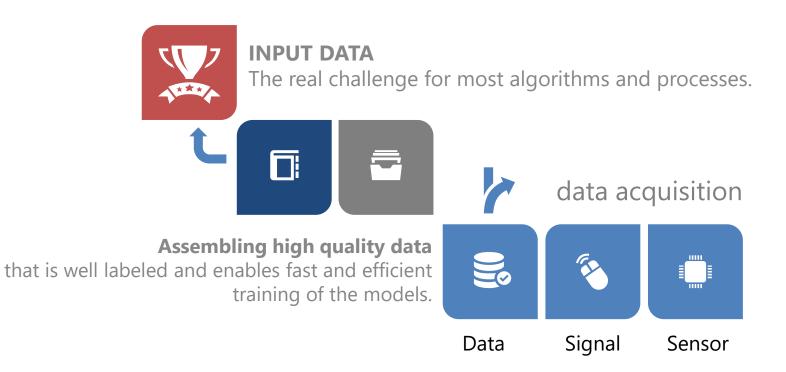
Since 2011 PUBLIC







## The toughest challenges





## Strategic Orientation

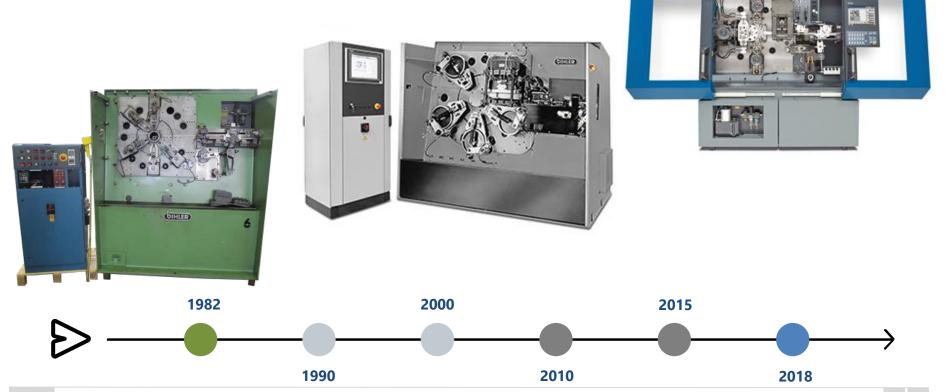


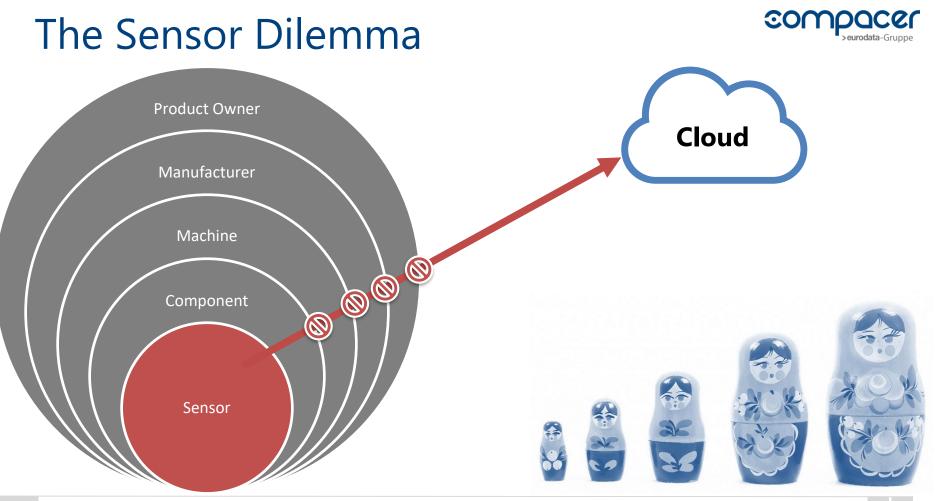


**RM 40B** 

DIHLER

# **Digital Retrofit**







# The Sensor Dilemma: Confidence Problem

- Accidental information distribution (product details, production data, performance indicators,...)
- Product quality, product safety, data protection, employee safety



# The Sensor Dilemma: Challenges

- System Security
- Identity management
- Communication protocols
- Data formats
- Semantic of Data



#### Blockchain-based

- Management of assets (like attachments) of actors.
- firmware updates
- Authorization audit
- Protection of intellectual property as well as proof of origin and originality
- Decentralized Granting of Operations on Data



### **Opportunities and perspectives**



Enterprise Blockchain

- New Offerings
- Differentiation from competitors
- New industries and processes

Business Models

- Security - Auditing - Openness

Infrastructure

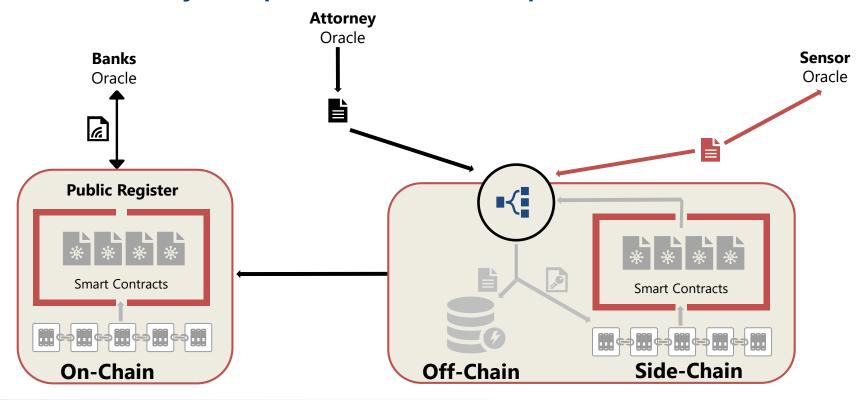


Processes

- efficiency
- speed-up
- transparency
- Internal / external
- corporate-wide

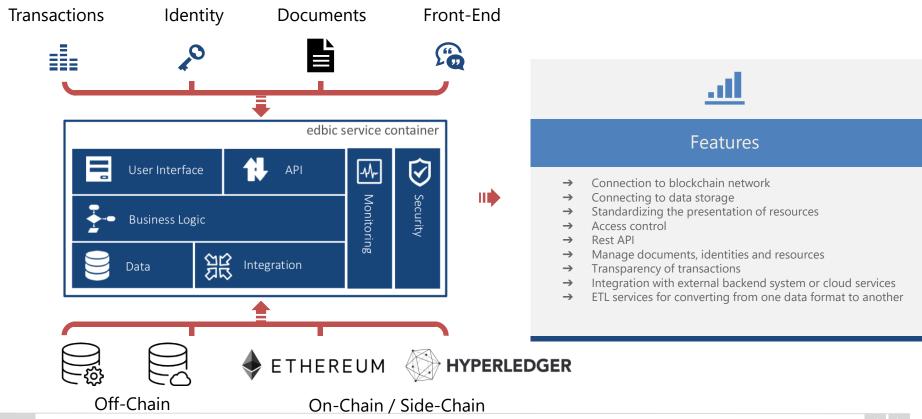


#### Extremely important concepts





#### Architecture



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Blockchain is neither a trend nor a "killer technology", but it is the enabler for new "killer applications" that will drive the future.

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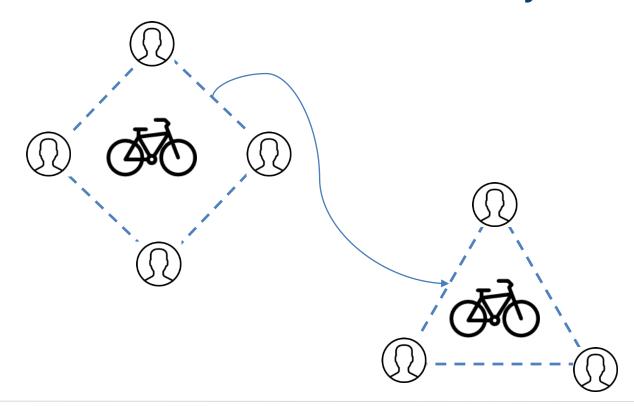
#### **University Bicycles**

The university wants to solve the bicycle chaos at the central spots.

What would be the classic options?
Assignment of a service provider
Set-up own bicycle service
Franchise model

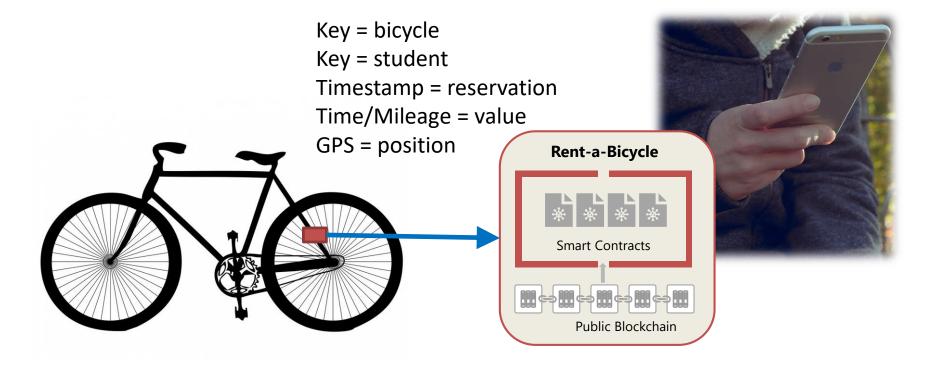


#### Students can share their own bicycles





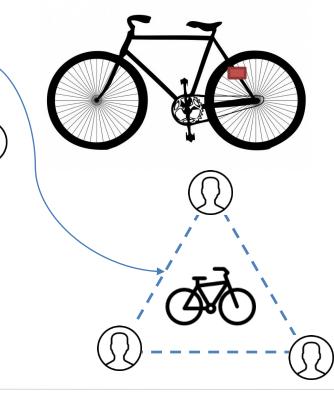
#### **Smart Contracts**





### **Evolving Ecosystem**

UbikeCoin



Oracles

+ Insurer

+ Financing of the bicycles

+ Identity Management (KYC)

+ Pricing

- + Advertising
- + Payment services
- + Maintenance
- + Police Department

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