

Cloud gate





 zalando

amazon

VOLVO


UBER


airbnb


TESLA

 Faraday Future

Data centra



Proptech



Tesla



UMCG



Techniek



Gebouwen printen



Geprinte brug Madrid (2017)



Anders



A Viable Real Estate Economy with Disruption and Blockchain – American Real Estate Society 2018

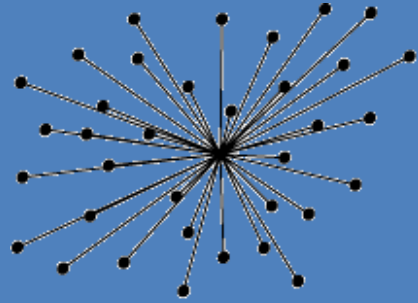
Dr. ing. Jan Veuger MRE FRICS – Mitros 13 juni 2018

Servië

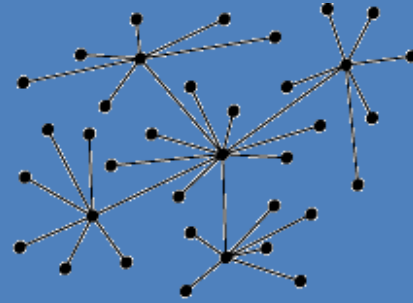




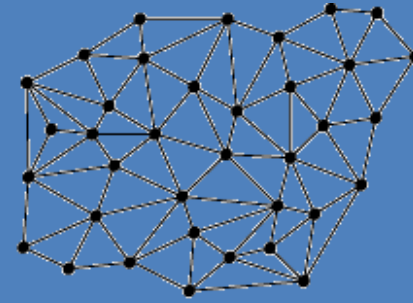
Digitale transformatie & organisatiemodel



***Central
Authority
& Monoculture***



***Decentralise
d Authorities***



***Distributed,
Ecosystems***

In 1 minuut: Wat is Blockchain?

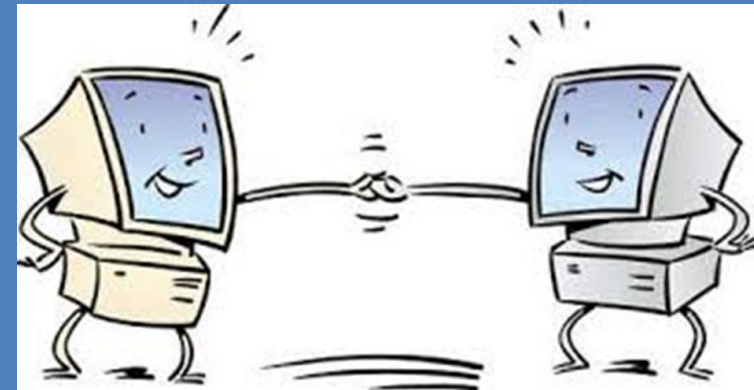
<https://youtu.be/ARwzaQV7AwU>

User Perspective

TRUSTED SOURCE



UNTRUSTED SOURCE



- ✓ P2P
- ✓ M2M
- ✓ *Smart Contracts*

Example: gaming





Land Registration

Registration



bitland
Land Title Protection Ghana

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ARTIFICIAL INTELLIGENCE

JUST LIKE US. BUT BETTER.

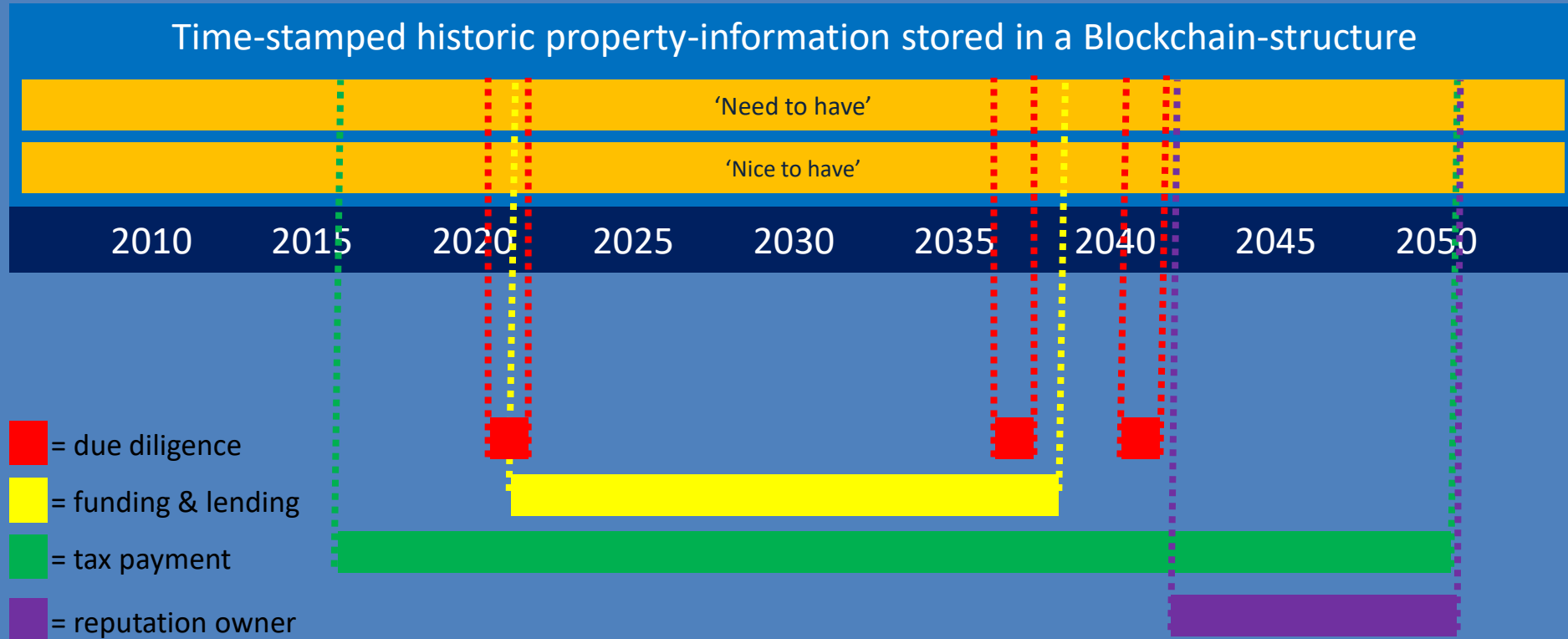
Internet of Things



ZKH Constantijn



Paspoort





Journal Facilities: A Viable Real Estate Economy with disruption and blockchain (Veuger 2017)

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Digitalization Real Estate on American Real Estate Society 2018

A Dramatic and Irreversible Shift in Real Estate Systems

- In seven presentations of research into the digitization of real estate and its influence on the development of real estate, two of the 105 sessions presented, explained and commented with approximately 500 participants: (1) Technology & Housing Dynamics and (2) Big Data & Urban Dynamics:

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A Dramatic and Irreversible Shift in Real Estate Systems

	Research	Author(s)
1	The Impact of Blogging on the Key Metrics of Price, Marketing Time, and Likelihood of a Transaction for Residential Properties	Ksenija Bogosavljevic, Denise H. Gravatt, and Ken H. Johnson (Florida Atlantic University)
2	Twitter and Housing Markets	Kimberly Winson-Geideman (University of Melbourne), Triss Ashton (Tarleton State University), Nicolas Evangelopoulos (University of North Texas)
3	Business Case qklinker: A Digital Housing Corporation in the Netherlands	Jan Veuger (Hanze University of Applied Sciences), Danielle Koeken (Mitros)
4	Real Estate Transport Protocol: A Hub-and-Spoke Messaging System for Next Generation Multiple Listing Services	Corey Leong (University of Central Florida)
5	Digital Cities: Real Estate Development Driven by Big Data	Herman Alexander Donner (Royal Insitute of Technolgy, KTH), Kent Eriksson (Royal Insitute of Technolgy, KTH), & Michael Steep (Standford University)
6	The Driving Forces Behind Real Estate Digitalization	Daniel Piazolo (THM Technische Hochschule Mittelhessen)
7	A Real Game Changer in Real Estate: Blockchain	Jan Veuger (Hanze University of Applied Sciences)

Business Case qlinker: A Digital Housing Corporation in the Netherlands – Comments

Danielle Koeken en Jan Veuger

- Opportunities
 - Apps are the next stage of technological adaption in property management, particularly as it applies to repair requests
 - Blockchain technology will provide more efficient and secure transactions as well as an immutable record of those transactions

Business Case qlinker: A Digital Housing Corporation in the Netherlands – Comments

Danielle Koeken en Jan Veuger

- Challenges

- Mitros serves a low-income, multilingual clientele. How do you expect to overcome demographic barriers such as educational attainment, age, and language as it pertains to the use of the app?
- What are the advantages of using qlinker over other house search apps when qlinker is limited to just Mitros?
- To use predictive analytics, you will need to collect data from tenants on a regular basis. What type of data will be collected? What will data retention and security look like? Have privacy issues been considered?

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A Dramatic and Irreversible Shift in Real Estate Systems

	Business Model	Application
1	Crowd Investment	New offer
2	Big Data / Smart Data	New contents and new insights
3	BIM / Property Management	Raising efficiency / Increasing transparency
4	Online Brokerage	Raising efficiency
5	Online Market Place	Increasing transparency
6	Smart Building	New offer
7	Smart Services	New standards and new processes
8	3-D-Printer	Enhancing flexibility

Source: Business models on the basis of digital technologies and driving force (Piazolo 2018).



Blockchain Technology and Applications

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