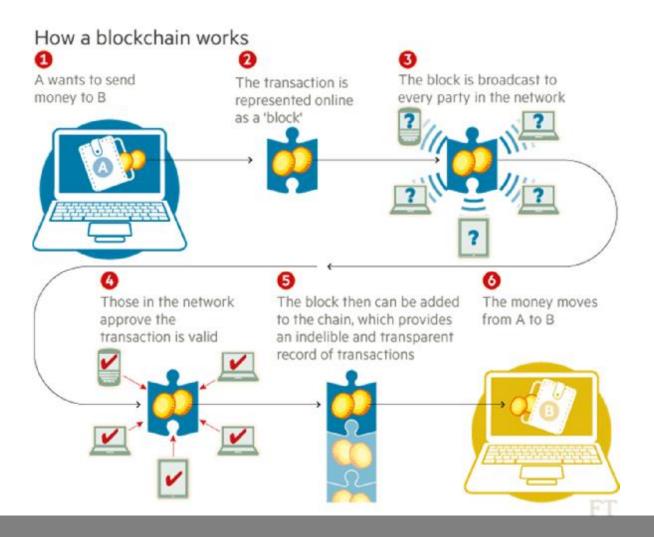


Last year...



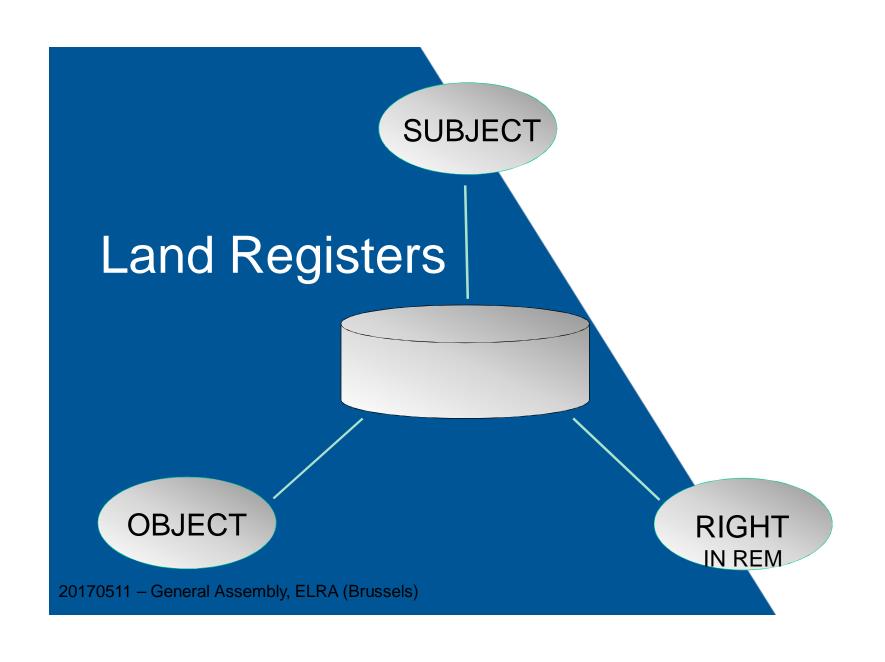
"Land Registry and Commercial Registers – they will become obsolete." (Emerce)

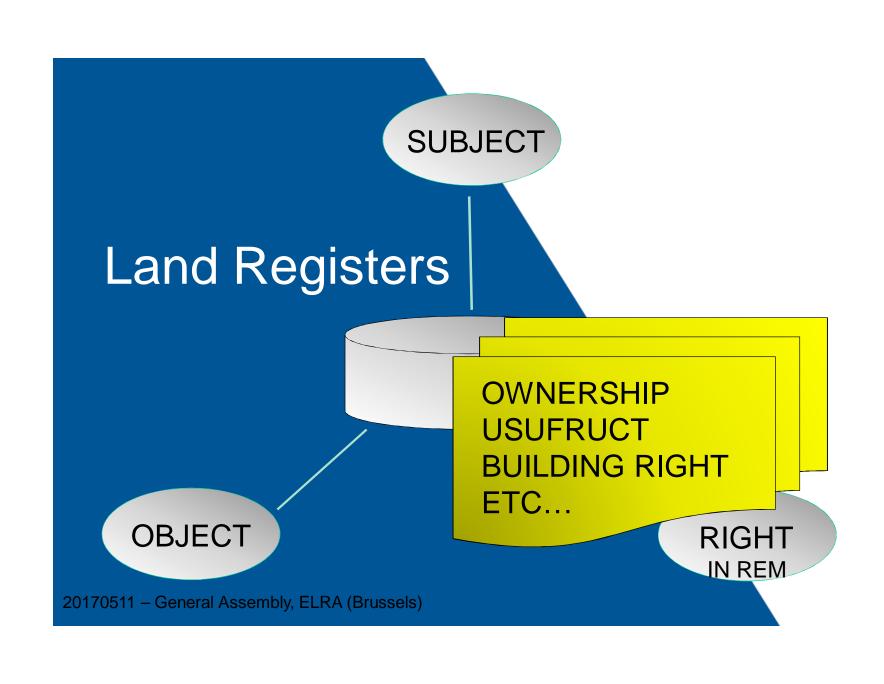


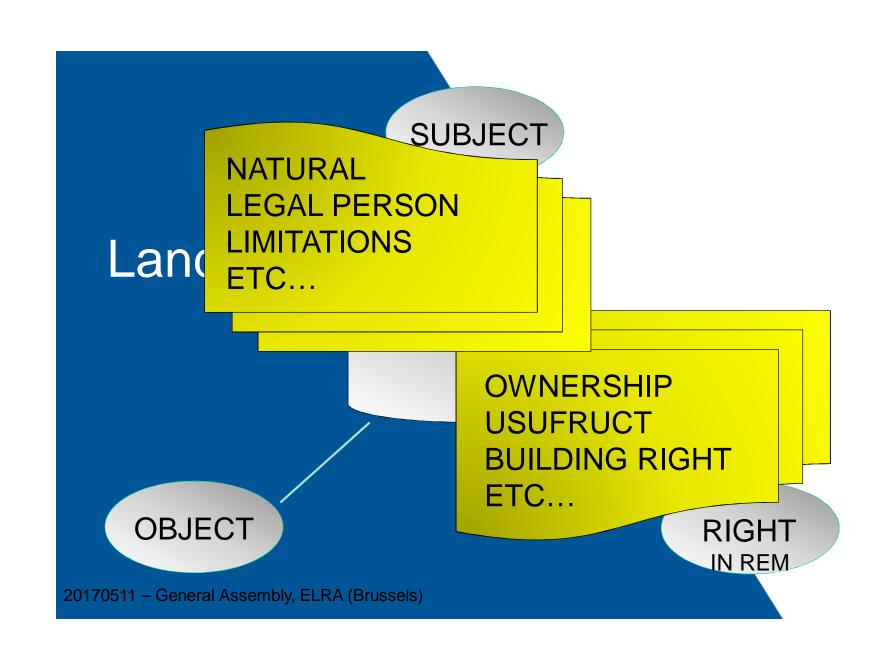
source: ft.com

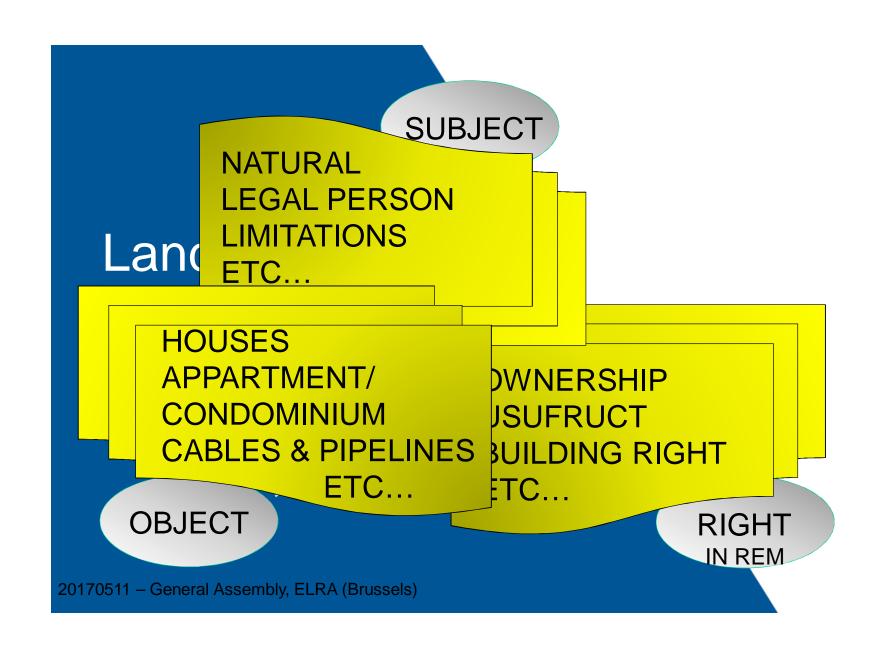
BLOCKCHAIN WILL BRING...

- INFORMATION SYMMETRY
- IMMUTABILITY
- TRANSPARENCY











Blockchain (1)

ARCHIVE

Yes, hash/pointer

REGISTRATION

No, too complex

INFORMATION

No, data retrieval



Blockchain (2)

Genesis-block

Who? Quality- issue

Governance?

DAO, indemnity

Smart contracts

Code = law = code



Blockchain (3)

Vendor lock-in?

Who owns data

Bitcoin-based?

PoS & no PoW

Complete?

No, data retrieval



Trust as a fairytale?

SECURE DATA

C.I.A.? D.I.Y.?

IMMATURE

PoW? PoS? DAO?

OPEN & TRANSPARANT

Transparant: yes, open?



In Future?

VARIOUS INITIATIVES

Redundancy & privatization!

STANDARDIZATION

ISO/TC307, BIM, etc.

SMART CONTRACTS

Not all legal aspects

TRUSTED THIRD PARTIES....

- VALIDATE TRANSACTIONS
- GUIDE A CERTAIN PROCES
- DRAFT CONTRACTS
- IDENTIFY OBJECTS & SUBJECTS
- ARE AN INDEPENDANT WITNESS
- PREVENT FRAUD

FRACTIONAL OWNERSHIP



BRICKLAND BRICKHOUSE BLOQHOUSE ETC., ETC Support

Hoe werkt het?

Veelgestelde vragen

Over Blandlord

Hoe werkt het?

Blandlord is een nieuwe vorm van dienstverlening waarbij je deel-eigenaar kunt zijn van verhuurd onroerend goed.

Door het gedeeld eigendom, de huizen, te verhuren worden inkomsten gegenereerd voor de eigenaren. Deze inkomsten worden maandelijks, naar rato van het bezit, verdeeld over alle eigenaren. Alle eigenaren hebben inzicht en inspraak in de beheerafspraken van hun eigendom.

This year...

'BLOCKCHAIN WILL REPLACE EVERYBODY'

REMOVE SLACK FROM PROCESSES à STREAMLINING PROCESSES

- INCREASE TRANSPARENCY à KADASTER-ON-LINE

- IMPROVE PRIVACY à SELF- SOVEREIGN IDENTITY...?

- PREVENT FRAUD à GARBAGE IN ...

- A NEW CHAPTER FOR A DIGITAL INFRA à POSSIBLE WHAT WAS NOT POSSIBLE, TOO COMPLEX OR TOO EXPENSIVE

'BLOCKCHAIN WILL PERHAPS REPLACE EVERYBODY'

- SCALING: (INTER)NATIONAL
- STANDARDISATION (SEMANTICS)
- IDENTIFICATION
- ACCESS & CONTROL
- GOVERNANCE: QUALITY, RULE OF LAW, ENFORCEMENT
- TECHNOLOGY/ ARCHITECTURE
- SECURITY

'BLOCKCHAIN WILL NOT REPLACE EVERYBODY'

- ONLY PART OF THE SOLUTION:
 - A. PROCESS OPTIMALISATION
 - **B.** ORGANISATION FORM
 - C. GOVERNANCE
 - D. SEMANTICS



'BLOCKCHAIN WILL REPLACE HARDLY ANYBODY'

- BUT: CRITICAL VIEW ON OWN ORGANISATION & ROLE
- AND: CRITICAL VIEW ON THE WHOLE (REAL ESTATE) CHAIN
- AND: STANDARDISATION IN SCOPE
- DIFFFICULT:

 'ISLANDS' (SECTORAL, NATIONAL & INTERNATIONAL)

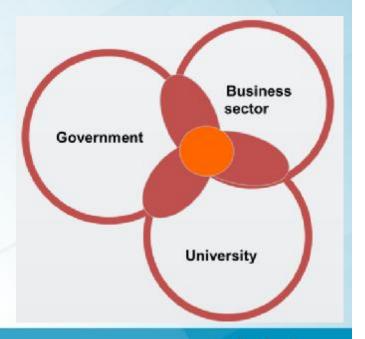
WHEN TO START WITH BLOCKCHAIN?

WHY IS BLOCKCHAIN INTERESTING?

- MULTIPLE OWNERSHIP
- NO NATURAL (UNWANTED) CENTRAL AUTHORITY
- RELIABLE EXCHANGE OF INFORMATION
- EASY INTERPRETABLE (à EASY TO AUTOMATE) RULES

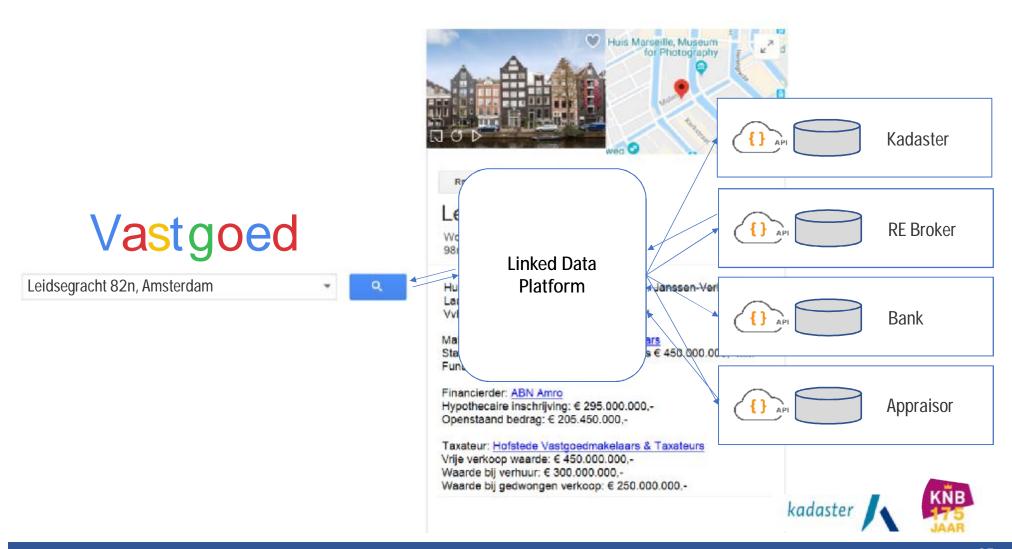
WHAT ELSE DO YOU NEED?

- OTHER WAYS OF ORGANISINGG & SHARING INFORMATION
- UNIQUE ID FOR OBJECTS & SUBJECTS
- (POSSIBLE) CHANGE OF LEGISLATION & POLICY
- 'SHARED PRIVATE DATA' SOLUTION
- à NEW DIGITAL INFRASTRUCTURE



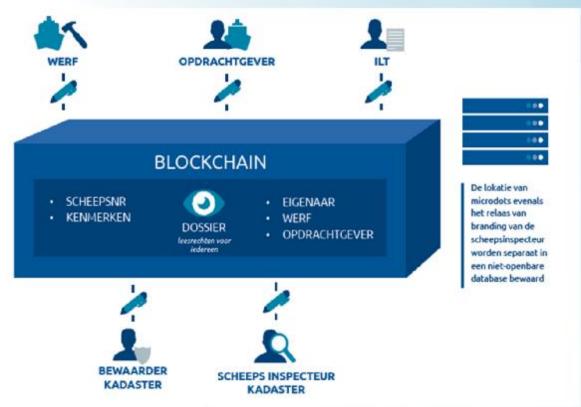
TOWARDS AN INFRASTRUCTURE OF SMART OBJECTS





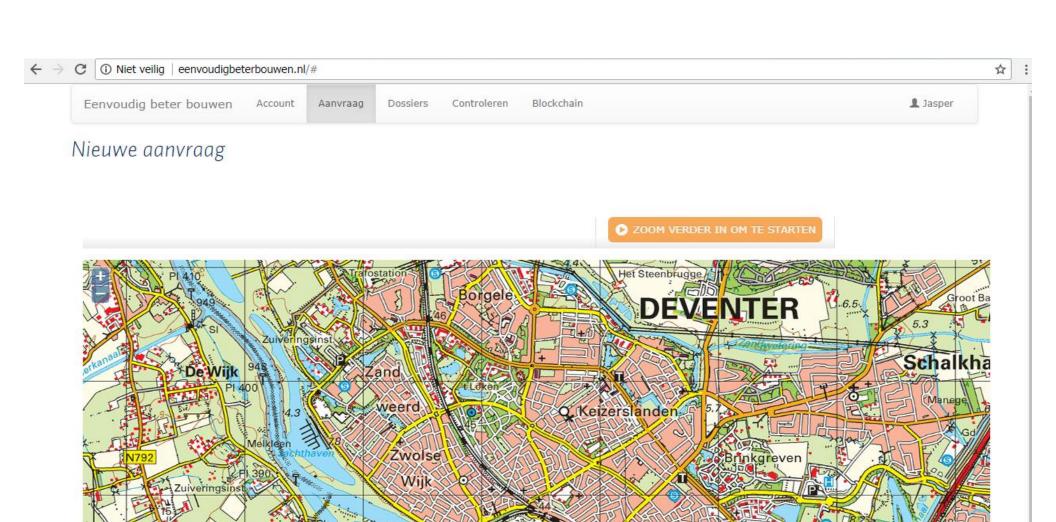
FIRST TESTS: DBC-PILOTS

1ST REGISTRATION OF A SHIP



FIRST TESTS: 1ST POC: REQUEST PERMIT

- A. VALIDATE ACTUALITY OF INFORMATION
- B. VERIFY PROVISION BY SOURCE (KADASTER)
- C. VERIFY USE OF INFO (BY USING HASHES)
- D. CONCLUSION: BC INTERESTING, BUT COOPERATION NEEDED



kadaster 🔳

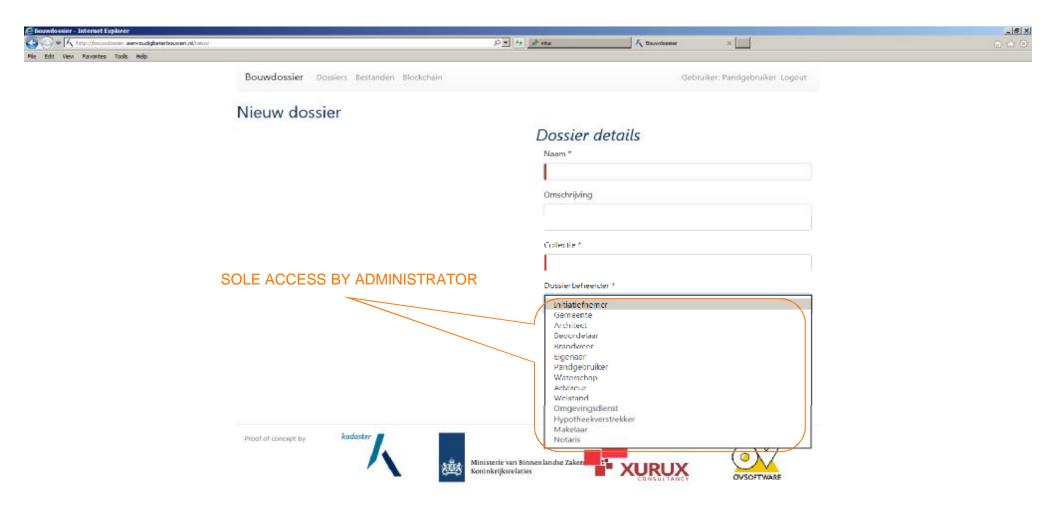
Proof of concent by

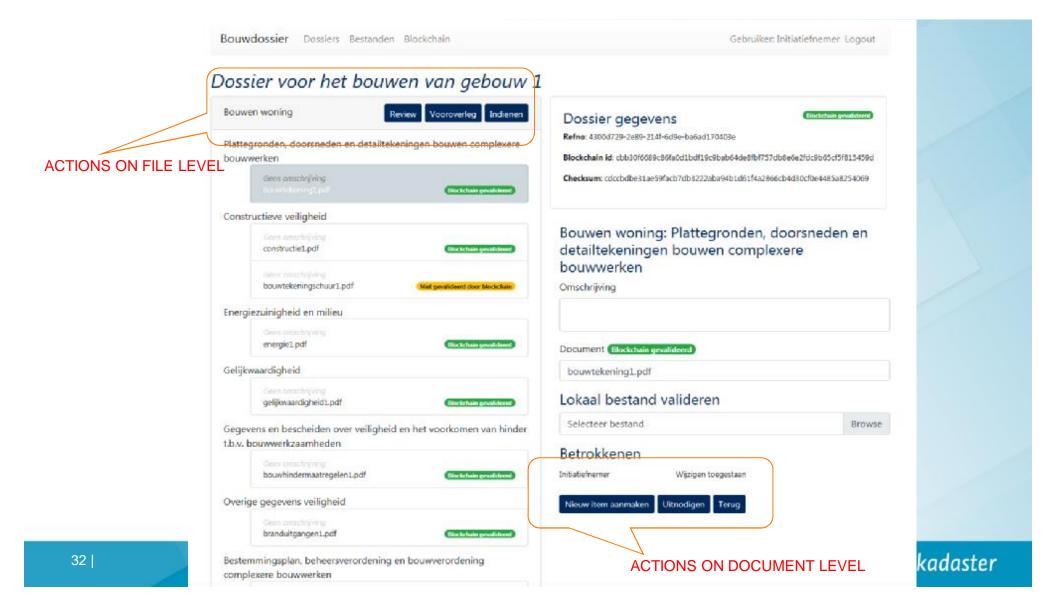
Kaart: TOP50 Zoomniveau: 9

FIRST TESTS: 2nd POC: BUILDING FILE

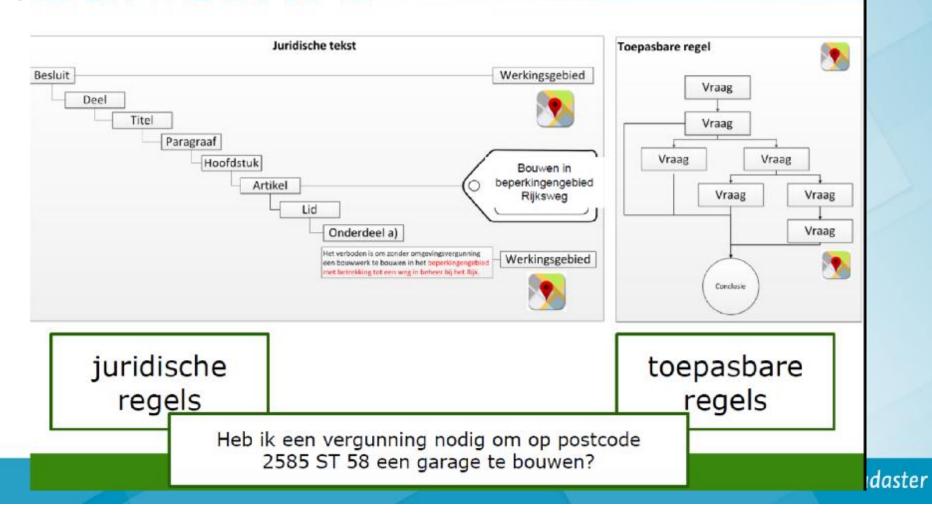
- A. DECENTRALISED SOLUTION FOR BUILDING FILE
- B. EVERYBODY CAN START A FILE AT ANY MOMENT
- C. BC USED TO KEEP THE STATUS OF DOCUMENT/ DATA
- D. VERIFICATION METHOD



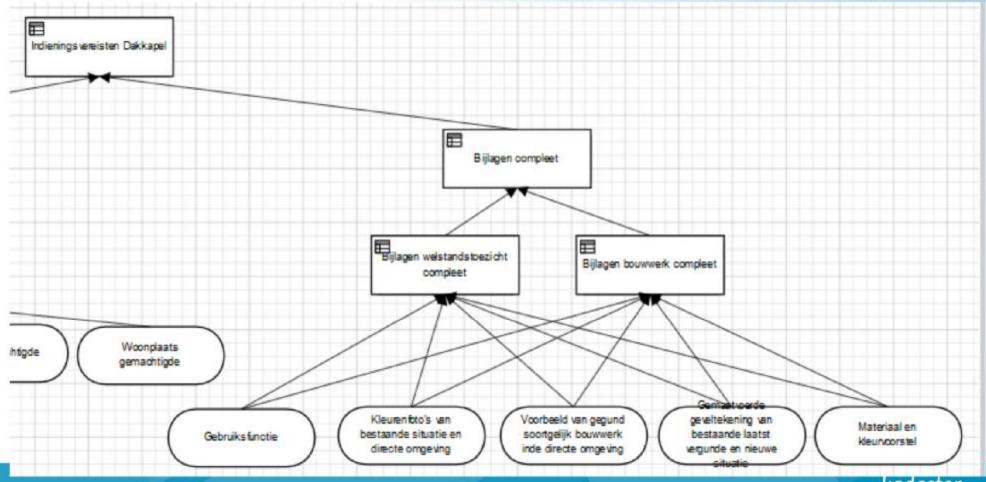




UNDER THE HOOD ...



AND UNDER THE HOOD (2) ...



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FIRST TESTS: 3rd POC: BLOCKCHAINGERS

- A. KADASTER TRACK SPONSOR WITH 'CHALLENGE'
- B. 'CONSCIOUS HOUSE'
- C. BC USED TO SHARE INFORMATION ON OBJECTS
- D. DEMONSTRATOR (THE LEDGER)



My House

House information

Service history

My house





Wallet

€27307.50

House balance

Latest Transactions

Payment
€1000

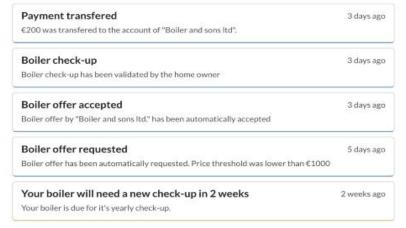
Boiler check-up
€-200

€900 ▲
This month

€17890 ▼
This year

View wallet history →

What you missed 5



Upgrades



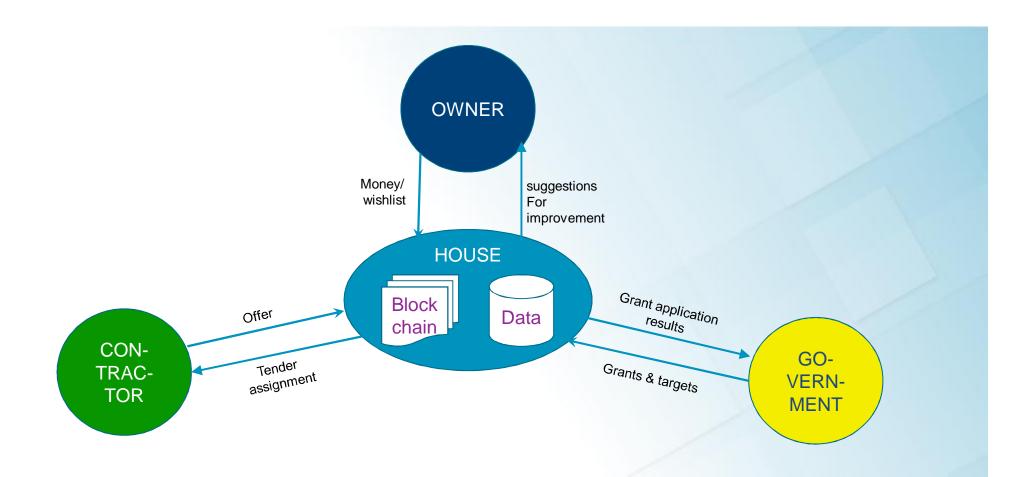
Suggestions	
Solarpanels Solarpanels are installed covering at least 50% of the roof	€200
Insulation Insulation with a thickness of at least 24cm	€500

View all potential upgrades →

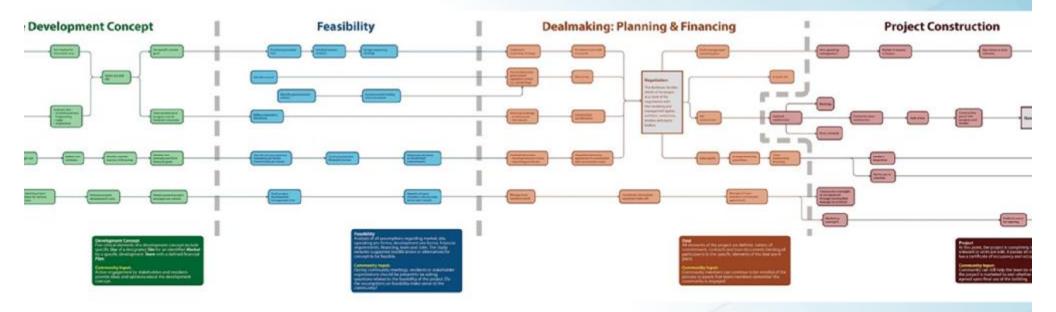
Service history

Solar panel ins 10 mins ago	tallation	
Boiler mainten 4 months ago	ance	
Porch installat 1 year ago	ion	

- Uitlogger

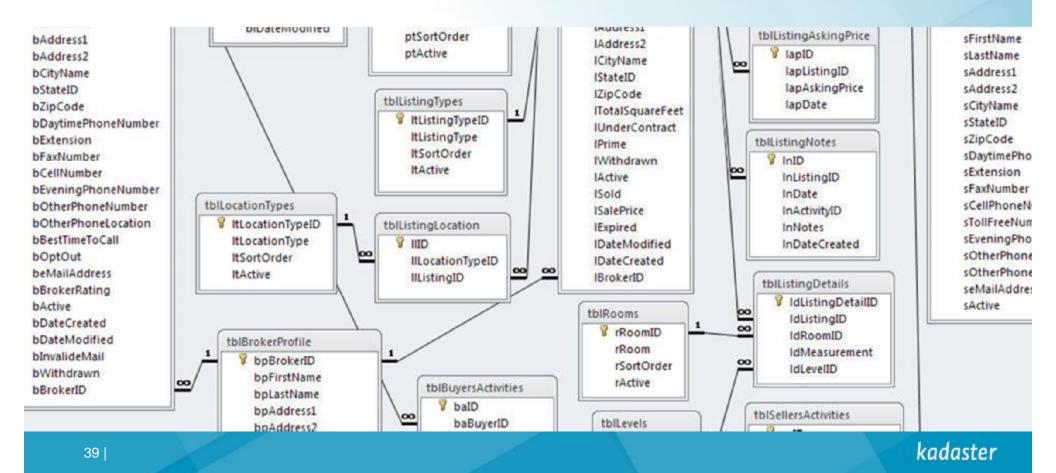


FROM SHARED PROCESS



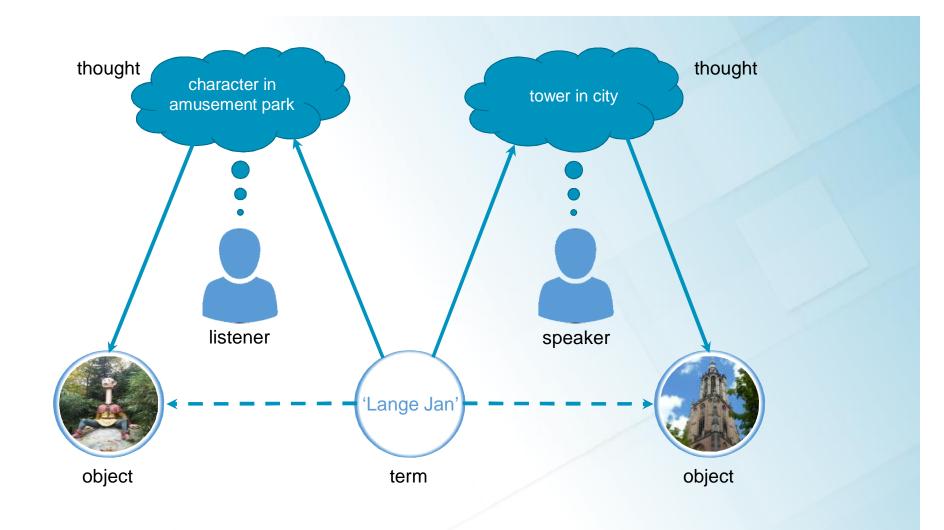
kadaster

TO SHARED DATA



BUT BEFORE WE WILL BE REPLACED ...

- 1. OPEN SOURCE (TRANSPARANCY, ACCEPTANCE)
- 2. ANALYSIS ADDED VALUE (ALTERNATIVE TECHNOLOGY?)
- 3. CONFIDENCE WITH PARTIES INVOLVED
- 4. MEANING OF DATA (AGREEMENTS & DESCRIBING)



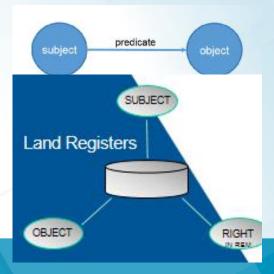
1. TECHNOLOGICAL DEVELOPMENTS (2)

- Linked Data
 - Makes use of 'URI's to name (identify) things
 - 3 realities:
 - 'Natural' reality
 - Institutional reality
 - Administrative reality à triples:



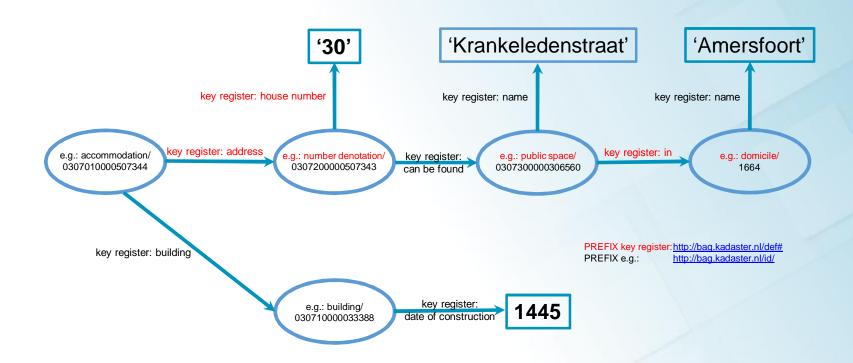
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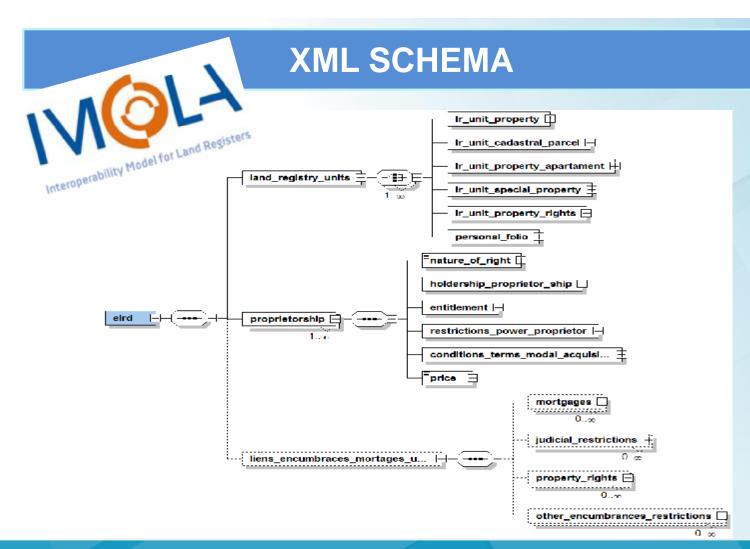




Source: Brattinga, et al kadaster



Source: Brattinga, et al kadaster



Source: IMOLA project, Jesus Camy kadaster

1N73LL1G3NC3 0141587H3158 43481L17Y480 7004D4P7870 183CH4NG304 -ST3PH3N H4WK1NG