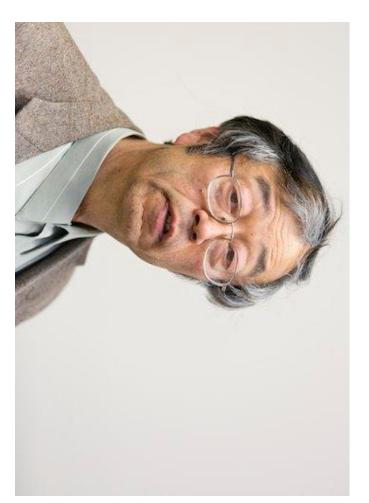
#### **Bitcoin: A Peer-to-Peer Electronic Cash System**

Satoshi Nakamoto satoshin@gmx.com www.bitcoin.org

Abdrard: A purely pseudo-pseudors of electronic cash woold allow online payments to be easilized by from one party to another window (going through a funccial institution. Digital signatures provide part of the solution, but the main benchis are bot if a trusted third party is still required to prevent double-specializy. We propose a solution to the double-specializy going through a theory of the solution of the bottle party is still required to prevent double-specializy. We propose a solution to the double-specializy going through the propose and the solution of the basel proof-of-work. The largest chain not only sarres as proof of the sequence of the proof-of-work. The largest chain and only a starts as proof of the sequence of events witnessed, they ing most that is cance from the largest pool of CU power. A long as a majority of CU power is combined by nodes that are not cooperating to anoth the network they'll generate the largest chain and only as endown itself requires minimal structure. Messages are bounded as a trackets. The network itself requires minimal structure. Messages are bounded on a best effort basis, and nodes can have and a right the network at will, accepting the largest proof-of-work chain as pool of what happened while they were gone.

#### ۲ Introduction

Commerce on the Internet his come to rely almost exclusively on financial institutions serving as trusted that parties to process electronic payments. While the system works well acough for most trustactions, it still attests from the inherent weakness of the trust breed model. Completely non-reversible trustactions are not really possible, since financial institutions cannot and there is a broader cost in the loss of ability to make acceleration increases of the trust breed model. A certain precised transaction is accepted as unconductive transactions for non-reversible structure and there is a broader cost in the loss of ability to make accererable portunat for non-reversible sevents of their customers, hassing them for more information that they would oblerate the owny of their customers, hassing them for more information that they would oblerate accepted as unconductive to the possibility of reversal the need for trust speaker. While person by using physical currency, but no mechanism exists to make payments over a communications channel without a trusted pury. Transactions that are computationally impactical to reverse would protect salles from final party. Transactions that are computationally impactical to reverse would protect salles from final party imposes a solution to the double payability protein transactions. The system is severe as long as those to be collectively courd musing proceed furthers.



- 3. DLT: Satoshi Nakamoto (?)
- The name is meant to hide the real person(s)
- L Block chain technology is far more than "just" 'bitcoins' = cryptocurrency

- 3. DLT (continued)
- Several technologies (example: Ethereum)
- Public and private block chains
- 'On chain' and 'Off chain'

- A 'smart contract' adds information to a
- and thus a 'block chain'. block and by doing so creates a new block

Information in the block cannot be changed and – for the time being? – not

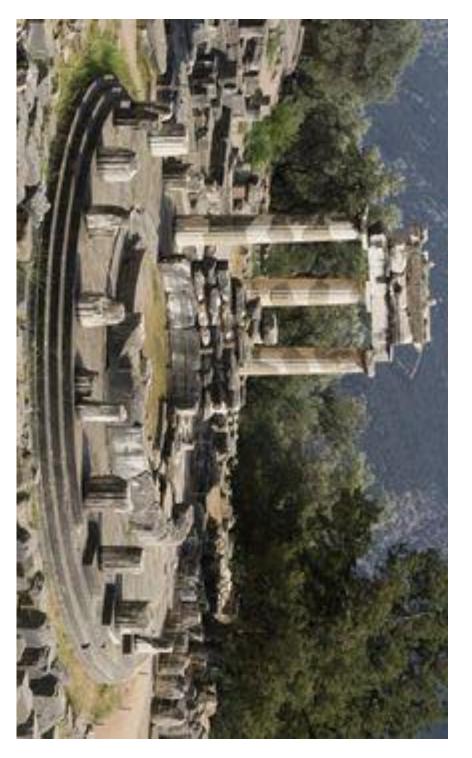
be hacked.

Question: What does this mean for the 'right to be forgotten' under the new GDPR?

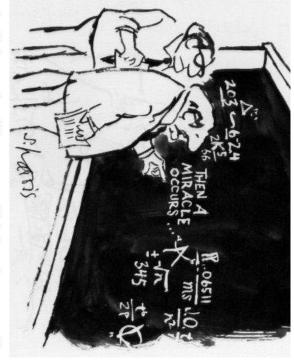
- 'Blockchain and Property in 2018: At the
- End of the Beginning': Is this exaggerated?



- Public blockchains are not supervised by a
- central authority, such as governments
- 'Initial coin offerings' ('ICO's')
- At the same time: A government can use blockchain technology to control its
- citizens
- Privacy!



- 4. 'Oracles'
- Third parties (human persons, but especially
- also computer systems: 'agencies')
- Judges, mediators, notaries, land registrars



.

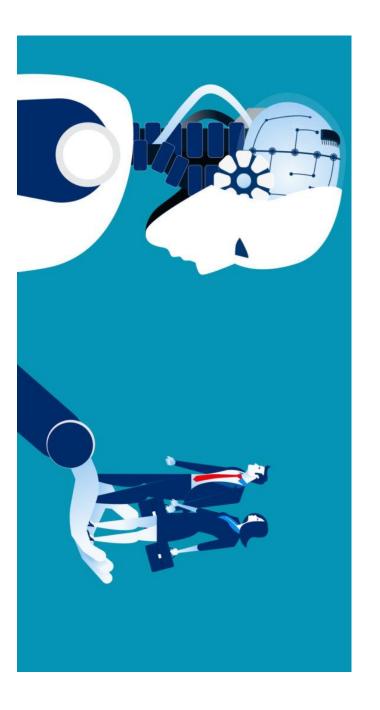
from What's so Funny about Science? by Sidney Harris (1977)

"I think you should be more explicit here in step two."



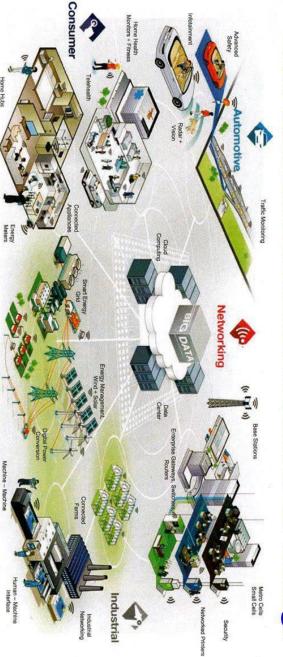
- 5. Trusted third parties
- A third person, necessary to verify that a
- particular transaction is correctly performed Is there a role left for land registrars?

Maastricht University



- role? 6. Does Artificial Intelligence ('Al') play a
- Developments go further and faster than we perceive
- Google's 'Deepmind': <u>www.deepmind.com</u>

### **Role of Sensors in the Internet of Things**



- 7. 'loT'
- Collecting data: 'big data'
- Sensors collect data, but for which purpose?
- To better describe an object?
- Data analysis (targeting, customer specific)?
- the law? To check whether a person is acting within the limits of

- 8. Legal framework
- Why is a 'smart contract' binding?
- Who is liable for mistakes in a 'block'?
- Who is liable in a diffuse real/virtual world (e.g. for measuring mistakes made by sensors)?

- 9. Do we still need 'trusted third parties'?
- Yes, in any case for complicated transactions and as 'gate keeper' for what is happening 'off chain'

# 10. Object/subject: a diffuse world

- L Are data part of a parcel or do they belong to the parcel's "owner"?
- What is the "object", who is the "subject"?
- Can we separate the real object from the digital data?
- Which IoT data should be registered in a land registry?
- Should we accept different types and degrees of ownership?

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- 11. Summary and concusions:
- Block chain, smart contracts, IoT
- Which data "belong" to a parcel (object) or to the owner (subject)?

Land registration and the data economy Blockchain, smart contracts, **Internet of Things:** 

s.vanerp@maastrichtuniversity.nl Prof. dr. J.H.M. (Sjef) van Erp Maastricht University

vice-president.eli@univie.ac.at European Law Institute

Maastricht University

Elena Ioriatti (Professor of Comparative Law) and Sara Giacomini (PhD candidate) Trento University, Faculty of Law (Italy)

### The formants and IMOLA II: the way forward

## The theory of the legal formants

R. SACCO, Définitions savantes et droit appliqué dans les systèmes romanistes, in Revue Internationale de Droit Comparé, vol. 17, 4, 1965, p. 827 ss.

R. SACCO, *Contratto e negozio a formazione bilaterale*, Studi in onore di Paolo Greco, II, Padua, 1965, p. 953.

R. SACCO, Les buts et les méthodes de lacomparaison du droit, in Rapports nat. italiens au IX congrès intern. de droit comp.,1974.

R. SACCO, Introduzione al diritto comparato, first ed., Turin, 1980.

2

### The theory of the legal formants: core

### The unity of the legal system v. the dissociation of the legal formants

Rodolfo Sacco, Legal Formants: A Dynamic Approach to Comparative Law, in The American Journal of Comparative Law, Vol. 39, No. 1 (Winter, 1991).

### The legal formants

"Within a given, single legal system there is no guarantee that the *legal formants* are in harmony, rather than in conflict".

R. Sacco, Legal Formants: A Dynamic Approach to Comparative Law, cit.,

Judgement «Maison de Poésie» Cour de Cassation (French Supreme Court)

Cass., 3e civ., 31 ottobre 2012, in Rec. Dalloz, 2012 and in Sem. Jur., éd. gén., 2012.

### France: the legislative formant

#### Article 544

La propriété est le droit de jouir et disposer des choses de la manière la plus absolue, pourvu qu'on n'en fasse pas un usage prohibé par les lois ou par les regiements

statutes or regulations" (unofficial translation). absolute manner, provided they are not used in a way prohibited by "Ownership is the right to enjoy and dispose of things in the most

### France: the legislative formant

#### Article 543

On peut avoir sur les biens, ou un droit de propriété, ou un simple droit de jouissance, ou seulement des services fonciers à prétendre.

"One may have a right of ownership, or a mere right of enjoyment, or only land services to be claimed on property" (unofficial translation).

### France: the case law formant

Cour de Cassation (judgement «Maison de Poésie»).

The owner can freely establish a right of perpetual enjoyment.

 $\infty$ 

### France: the legislative formant

#### Art. 619

only thirty years" "A usufruct which is not granted to private individuals may last

#### Art. 625

manner as usufruct" "Rights of use and habitation are established and lost in the same

### France: the case law formant

- Unexpectedly, the Court of Cassation reversed the decision of the Court of Appeal, stating that the owner can freely establish a right of perpetual enjoyment and that the right granted to the Maison de Poesie by the deed of sale was a right of perpetual exclusive enjoyment, and not a right of use and habitation
- The Court of Cassation ruled that the principle of legal certainty recognized by the law of the European Union and by Article 6 § 1 of the European Convention on Human Rights requires that the legitimate expectations of the parties be respected. This principle therefore precludes, where the parties conventionally provide for the existence of a perpetual right, that the court may assign to that right a term prior to the date on which it rules.

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### France: the case law formant

**and/or occupy, on exclusive basis and with no time limit,** the second floor of the building, where the Foundation was located. The operative rule: the Maison de Poesie has the right of enjoy

### The theory of the formants

- Does a perpetual right of enjoyment exist under French law?"
- legislative formant:
- case law formant:
- foreign doctrine (Akkerman):

yes, both operative rule and declaration

typical and limited

yes: a new type of

no: real rights are

property right

### how a legal system works in reality Formants and IMOLA II: a clear view of

In the development of the IMOLA II project, the methodology of comparative law has become relevant and proved to be a useful scientific

- Firstly, the description of the formants and the understanding that the unity principle is an illusion has developped a clearer view by the professionals involved in IMOLA II of how a legal system works in reality, beyond the theoretical and abstract definitions, on which scholars or legislators rely to communicate the norms and, in general, the law.
- This has favored the elaboration of a method of research founded on a more solid ground, which results could clearly reflect how a legal matter is solved in each specific legal system involved in the scientific investigation of IMOLA II.

1

### analysis of one single legal system Formants and IMOLA II:

Secondly, until today the formants were used in IMOLA project:

- to uncover the rules of any single national system, which could be found in <u>enacted legislation</u>, <u>case law</u> or <u>praxis</u>.

- to make clear that in a single legal system the operative rules (applied rules, praxis) might not coincide with the definitions legislation, formal sources

### analysis of one single legal system Formants and IMOLA II:

Secondly, in IMOLA II comparative law methodology proved to be the best method to collect the rules in the legal systems involved

the system (operative rules). to understand the origin of a national solution and its real impact on Here the theory of the formants was crucial for legal professionals

### analysis among several legal systems Formants and IMOLA II:

Reminder n. 1:

among several legal systems Legal formants are very useful not only within a single legal system - as noted above - but also to identify differences and similarities

#### analysis among several legal systems Formants and IMOLA II:

Similar operative rules can be found in the formants of different legal systems, beyond the lack of definitions.



#### terzo» «Trasferimento dell'erede apparente al

A person who believes himself to be heir disposes of property (he has inherited) to a third person, who is in good faith.

The transfer is valid in Italy, under the definition «trasferimento dell'erede apparente al terzo»

R. SACCO, Legal Formants: A Dynamic Approach To Comparative Law, in The American Journal of Comparative Law, Volume 39 January 1991.

# «Trasferimento dell'erede apparente al terzo»

| Code: X                 | Civil Code: X           | Civil Code art. 534 par. 2 : yes |
|-------------------------|-------------------------|----------------------------------|
| Belgium<br>Case law: no | France<br>Case law: yes | Italy<br>Case law: yes           |
| Doctrine: no            | Doctrine: no            | Doctrine: yes                    |

\*This is a theoretical case. Note that the legislative formant might have changed after the French reform of the law of contract of 2016.

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### Beyond the definition

apparente al terzo» is present only in the Italian exists in France (case law formant). legal language, but the same operational rule The definition «trasferimento dell'erede

### Regardless the definition

Different operative rules can be found in the formants of different legal systems, regardless formal definitions are similar or identical



### **Regardless the definition**

### Usufruct under Dutch law

Article 3:215 Dutch Civil Code (BW) the usufructuary has the right to dispose and to consume the property subject to usutruct

### the ELRD pivot (pivot terms) are meta - concepts Formants and IMOLA II:

what is real and effective. The comparative method is founded upon the actual observation of the elements "at work" in a given legal system, it concerns with

Dynamic approach to a legal system!

#### the ELRD pivot (pivot terms) are meta - concepts (meta -Formants and IMOLA II: definitions)

Reminder 2:

ELRD Pivot terms are meta- definitions (meta - concepts)

Semantic aspect: immediately final

Legal effects: not final until all national formants are included in the pivot definitions

24

### the ELRD pivot (pivot terms) are meta - concepts Formants and IMOLA II:

#### France

of emphyteusis, usufruct, use and habitation. «real property rights» : right of enjoyment, land services, the right

to create a perpetual right of enjoyment (operative rule). After 2012 the definition "real property rights" even if semantically <u>untouched</u> comprehends further <u>legal effects</u> because of the right

#### keeping the template updated. Formants and IMOLA II:

- Finally, it is also important to underline that the legal formants could be useful within the context of the IMOLA projects not only to reach a more complete, detailed and comprehensive template but also as a tool to keep the template updated.
- It will be important, in the future, to maintain the correspondence between the template platform and the real base of law that is currently being applied within the states. In this perspective, the study of the different formants can be a very reality that is supposed to represent. useful mean to maintain the digital template linked to the lega

#### Formants and IMOLA II: the supranational level

Eu private law (substantive law harmonization)

Private international EU law (regulations)

27

# Formants and IMOLA II: the supranational level

### EU private law (substantive law)

Reminder:

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste

«possession»

Art. 3 (definitions) "waste holder" means the waste producer or the natural or legal person who is in *possession* of the waste

28

| 29 | National law and case law (formants) | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | possession in EU law (Directive 2008/98/EC) : material control on the good without <u>animus domini</u> | UK IT<br>↓ ↓<br>Possession Possesso | EU private law (substantive law) | Formants and IMOLA II: the suprar |
|----|--------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|
|    | (formants)                           | ^ ^ ^ ^ ^ ^ ^ ^ ^ ^                     | 008/98/EC) : mat                                                                                        | DE<br>↓<br>Besitz                   | antive law)                      | nd IMC                            |
|    |                                      |                                         | erial control on t                                                                                      | FR<br>↓<br>Possession Bezit         |                                  | )LA II:                           |
|    |                                      |                                         | ne good without <u>animus domini</u>                                                                    | r<br>F<br>F                         |                                  | the supranational level           |

#### Formants and IMOLA II: the supranational level

### Private international EU law

authentic instruments in matters of succession and on the creation and enforcement of decisions and acceptance and enforcement of of a European Certificate of Succession Regulation (EU) No 650/2012 of the European Parliament and of the Council of 4 July 2012 on jurisdiction, applicable law, recognition

## Regulation (EU) No 650/2012

The rule introduced by the regulation is that of habitual residence and not that of the citizenship of the deceased.

Thus, problems may arise when the lex successionis is invoked in a Member States different from that in which the property is located (lex rei sitae).

As a consequence, it might happen that the right *in rem* in question is not regulated by the law of the Member State in which the right is invoked and it is then unknown.

### The adaptation principle

#### Article 31

#### Adaptation of rights in rem

State in which the right is invoked does not know the right *in rem* in question, that right shall, if necessary and to the extent possible, be adapted to the closest equivalent right *in rem* under the law of by the specific right in rem and the effects attached to it. that State, taking into account the aims and the interests pursued Where a person invokes a right in rem to which he is entitled under the law applicable to the succession and the law of the Member

### The adaptation principle

The principle to verify the applicability of the adaptation commenting the regulation suggest to rely on the methodology of comparative law in order international private law scholars

## The instruments of comparative law

### Comparative law methodology

- 2) operational rules 1) homologation (legal translation)
- 34 34

## CJEU, 12 October 2017, judgment "Kubicka"

The referring Court asks, in essence, whether Article 1(2)(k) and (l) and Article 31 of Regulation No 650/2012 must be interpreted as precluding refusal, by an authority of a Member State (Germnay), to recognise the material effects of a legacy 'by vindication', which is recognised by the law governing succession chosen by the testator in accordance with Article 22(1) of that regulation (Poland), when that refusal is based on the ground that the legacy concerns the right of ownership of immovable property located in that Member effect when succession takes place. State whose law does not provide for legacies with direct materia

ω 5

## CJEU, 12 October 2017, judgment "Kubicka"

 In the present case, both the legacy 'by vindication', provided for by Polish law and the legacy 'by damnation', provided for by time of the testator's death, which, according to recital 15, is precisely what Regulation No 650/2012 seeks to allow, in accordance with the law governing succession. 47 of his Opinion, a right *in rem* that is recognised in both of the legal systems concerned. Therefore, the direct transfer of a <u>asset</u>, namely, as the Advocate General noted out in points 46 and German law, constitute methods of transfer of ownership of an property right by means of a legacy 'by vindication' concerns only the arrangement by which that right *in rem* is transferred at the

## CJEU, 12 October 2017, judgment "Kubicka"

 Article 31 of Regulation No 650/2012 does not concern the method of the transfer of rights in rem.....

....herefore, in so far as the right in rem transferred by the legacy Article 31 of Regulation No 650/2012. German law, there is no need for the adaptation provided for in 'by vindication' is the right of ownership, which is recognised in

# The consequences of the decision in Germany

The Rechtspfleger and the legacy

## The operative rule in Germany

After «Kubicka»

In the German legal system the operative rule acting is the effective transfer of a legacy with direct material effects.

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#### Comparative law

- After Kubicka
- A new «model» in Germany, that is a substantive law institute (rule)

#### The formants

In a legal system must be observed not only how courts have actually resolved cases. Knowledge of a legal system entails knowledge of factors present to day which determine how cases will be resolved in the near future.

R. Sacco, Legal Formants: A Dynamic Approach to Comparative Law, cit. p. 47.

4

#### The formants

 The CJEU is introducting de facto new substantive law rules in the Member States!

# MOLA II and the formants: the way forward

- IMOLA II ant the formants are usefull not ony in the harmonization of the land registry sytem, but also to uncover the right solution applicable in the framework or the adaptation principle (in various regulations) and so to support civil justice in Europe.
- The study of the different formants will be crucial for the updating of the digital template, so as to keep it linked to the legal reality that each template is supposed to represent.
- Informatic instruments are crucial (but informatic data and not the opposite). experts should manage



# Land Registers Interconnection

Gabriel Sima European Commission, DG Justice and Consumers

European e-Justice Portal

7-8 February 2019

Justice



#### Contents

- Context
- LRI project status
- Integration with IMOLA II
- Payment solution
- User authentication and authorization
- Grants



#### Context

the national legal and technical capabilities. single, adaptive, multi-lingual interface, in compliance with will be able to query and retrieve relevant information via a will address the current issues of discrepancy, complexity and States. Through this access point citizens and professionals provide a single access point within the European e-Justice multitude of land registration systems amongst Member Portal to the land registers of participating EU countries. This The Land Registers Interconnection (LRI) project aims to



### LRI project status

Phase I is available for integration testing with Member States since December 2017, at contractor's https://dg-justice-portal-demo.eurodyn.com/ejusticeportal Demo site (multilingual):

-> Registers – Land Registers Interconnection (LRI)

- authorization mechanism Q3 2019 Phase II will feature an authentication and
- Austria and Estonia are working on interconnection with LRI based on a European Commission grant



## Integration with IMOLA II

- specifications for integration with LRI Participation in defining ELRA - IMOLA II
- interoperability with Member State systems **Review of ELRD document by DIGIT ISA for**
- Supporting the adoption by Member States of the exchanges ELRD standard for facilitating LR document



## **Central payment solution**

- New call for tenders to be launched for contracting a **Payment Services Provider**
- VAT: Tax Calculation Module (TCM) ready by end of **March 2019**
- Invoicing: Member State survey for BRIS shows a generates the invoice on their behalf, and delivers it the invoicing information from the Land Registers, wide preference for option 3: e-Justice Portal gathers to the user.



# User authentication and authorization

- Working on the specifications with Digit, DG CNECT, Austria and Estonia
- Integration with AT and EE Identity Providers as first step in preparation of full eIDAS compatibility 9



#### Grants

#### with a deadline for submission of project applications Justice Action Grants opened on 31st January 2019, 13th June 2019 (17:00 Brussels time)



#### Thank you

**Questions and discussion** 



### Jacques Vos

#### A National Linked Data Model The Dutch Experience

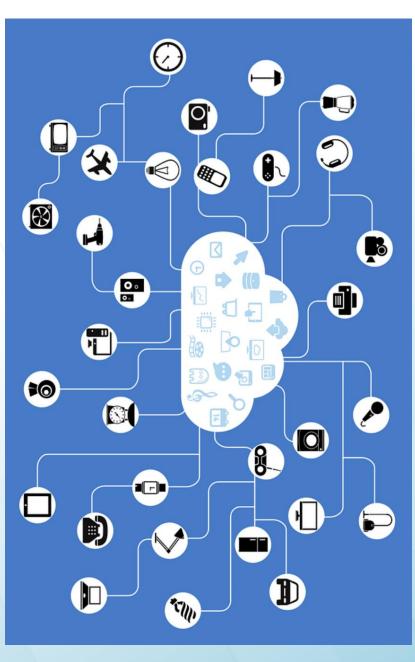




### **TOWARDS AN**

### INFRASTRUCTURE

## OF SMART OBJECTS



ELRN WORKSHOP 31-05-2018, Tallinn

Jacques Vos, Kadaster

#### kadaster









GENERAL ASSEMBLY, 29-11-2018, Brussels

**Jacques Vos, Kadaster** 

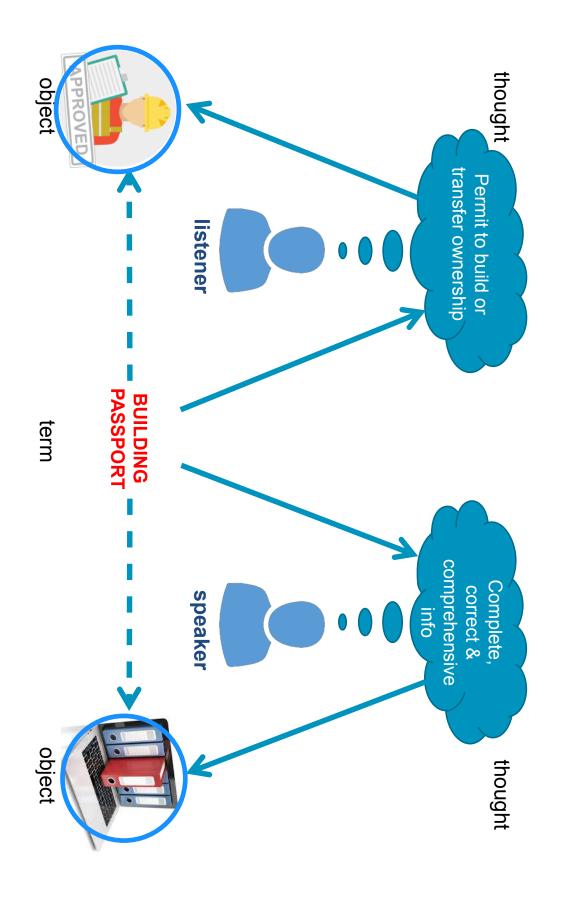
# SOCIETAL CHANGES..

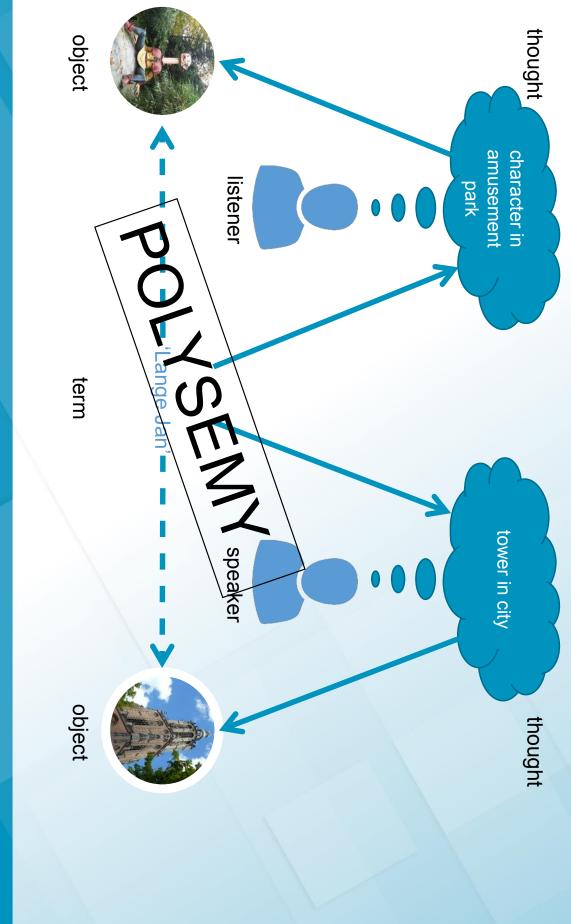


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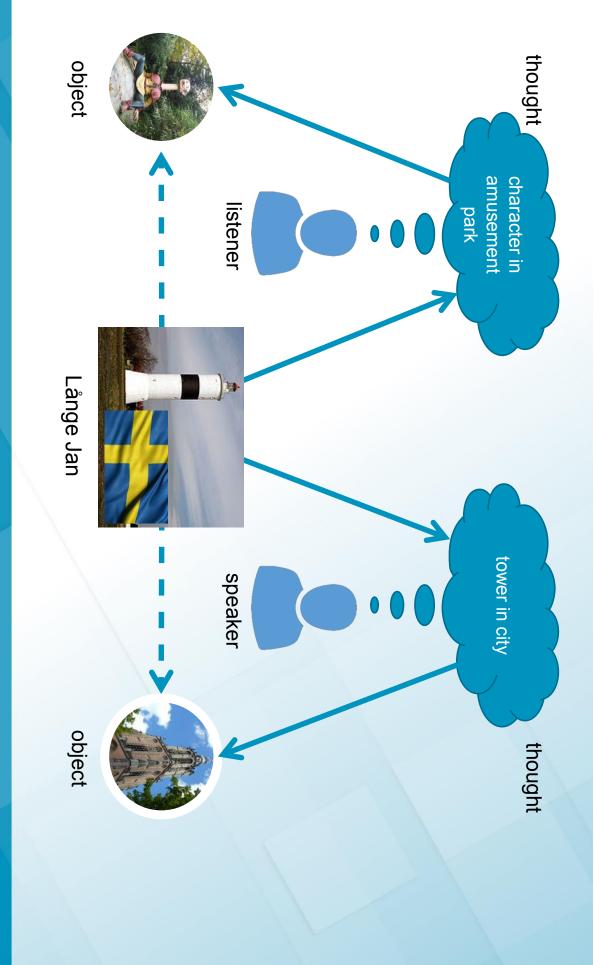






Source: Brattinga, et al

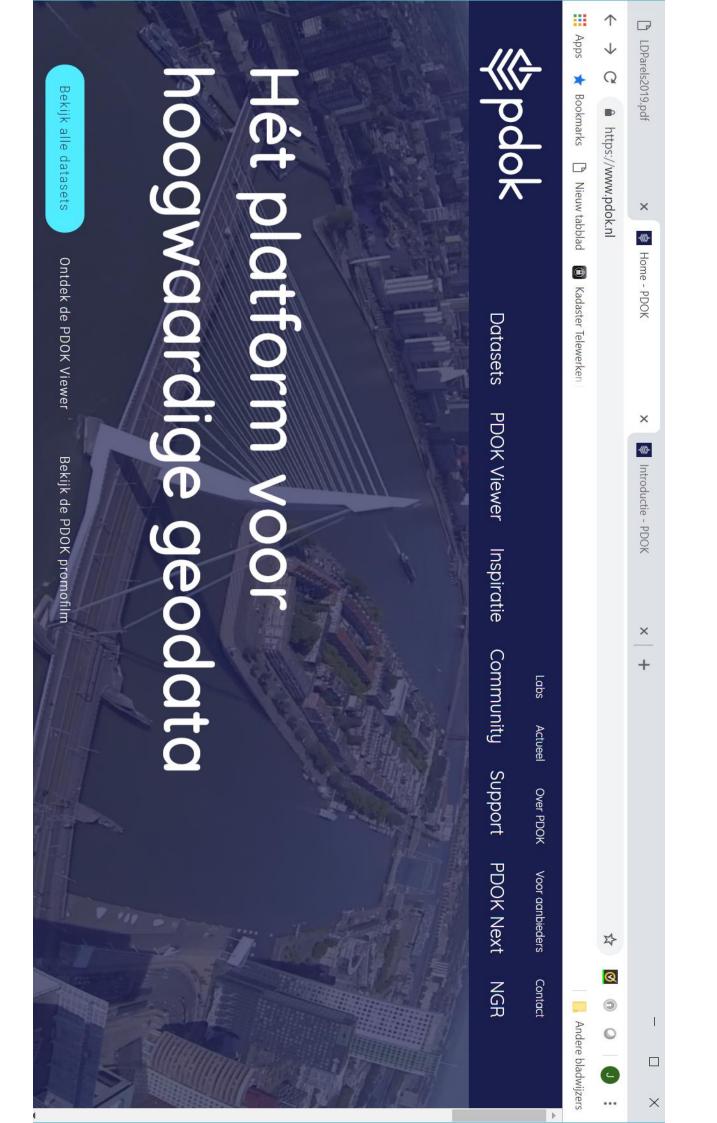


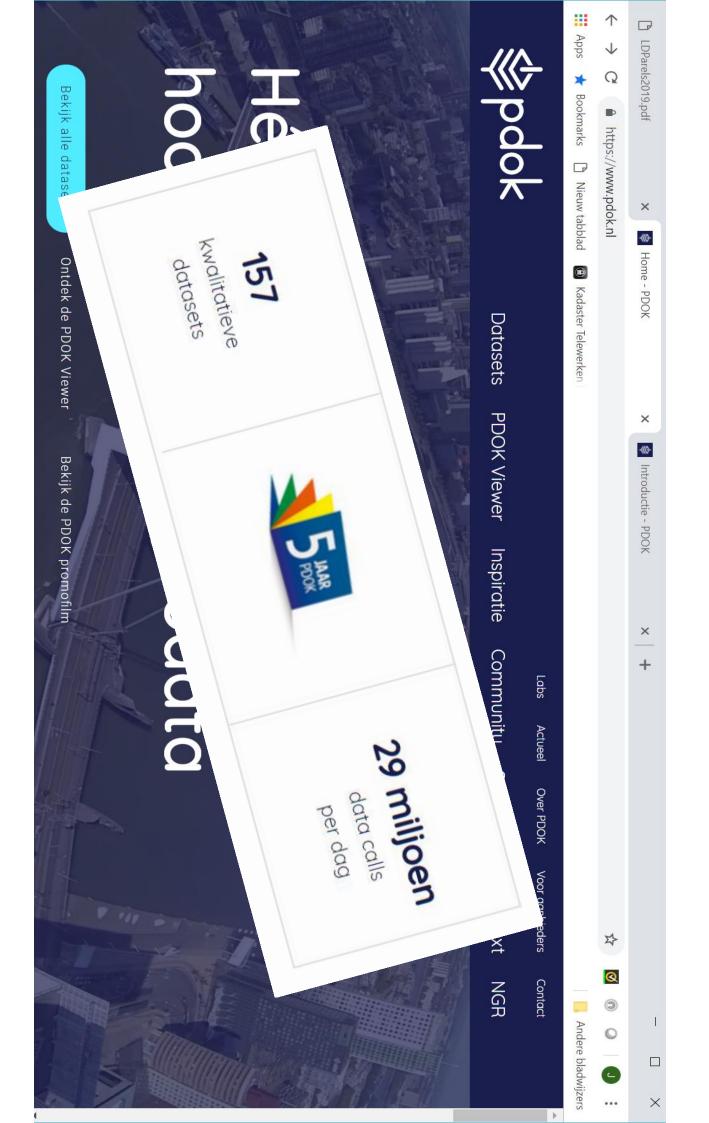


# THE MEANING OF LAND REGISTRY DATA

- QUALITY
- OWNERSHIP
- USE

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| IDParels2019.pdf Image: Constraints   Image: Constraints <td< th=""><th>DOK<br/>ster Telewerken</th><th>× Introductie - PDOK</th><th>Inspiratie</th><th>+       *         Labs       Actueel       Over PDOK       Voor aanbieders         Community       Support       PDOK Next</th><th>el over PDOK</th><th>★<br/>Voor aanbieders</th><th><ul> <li>− □ ×</li> <li>○ □ □ ×</li> <li>○ □ □ □</li> <li>○ □ □ □</li> <li>○ □</li> &lt;</ul></th></td<> | DOK<br>ster Telewerken | × Introductie - PDOK                                                                                      | Inspiratie          | +       *         Labs       Actueel       Over PDOK       Voor aanbieders         Community       Support       PDOK Next | el over PDOK     | ★<br>Voor aanbieders  | <ul> <li>− □ ×</li> <li>○ □ □ ×</li> <li>○ □ □ □</li> <li>○ □ □ □</li> <li>○ □</li> &lt;</ul> |
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| Geo Wetenschappelijke Data<br>Grenzen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        | 3D Kaarten                                                                                                |                     |                                                                                                                            |                  |                       |                                                                                                                       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| Hoogte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        | 3D kaart NL is een digitaal topografisch bestand waarin alle objecten uit TOP10NL driedimensionaal worden | al topografisch bes | stand waarin alle object                                                                                                   | en uit TOP10NL c | Iriedimensionaal word | len                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Landbouw en Veeteelt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | weergegeven. Het bestand is een combinatie van de 2D-informatie uit TOP10NL en hoogtepunten.              | d is een combinat   | ie van de 2D-informatie                                                                                                    | e uit TOP10NL en | hoogtepunten.         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### Actueel Hoogtebestand Nederland (AHN1)

Spreiding van soorten

Referentie Materiaal Aardbedekking

Planning Kadaster

Oceanen

Maatschappij Natuur en Milieu

> **Thema** Hoogte

**Organisatie** Kadaster

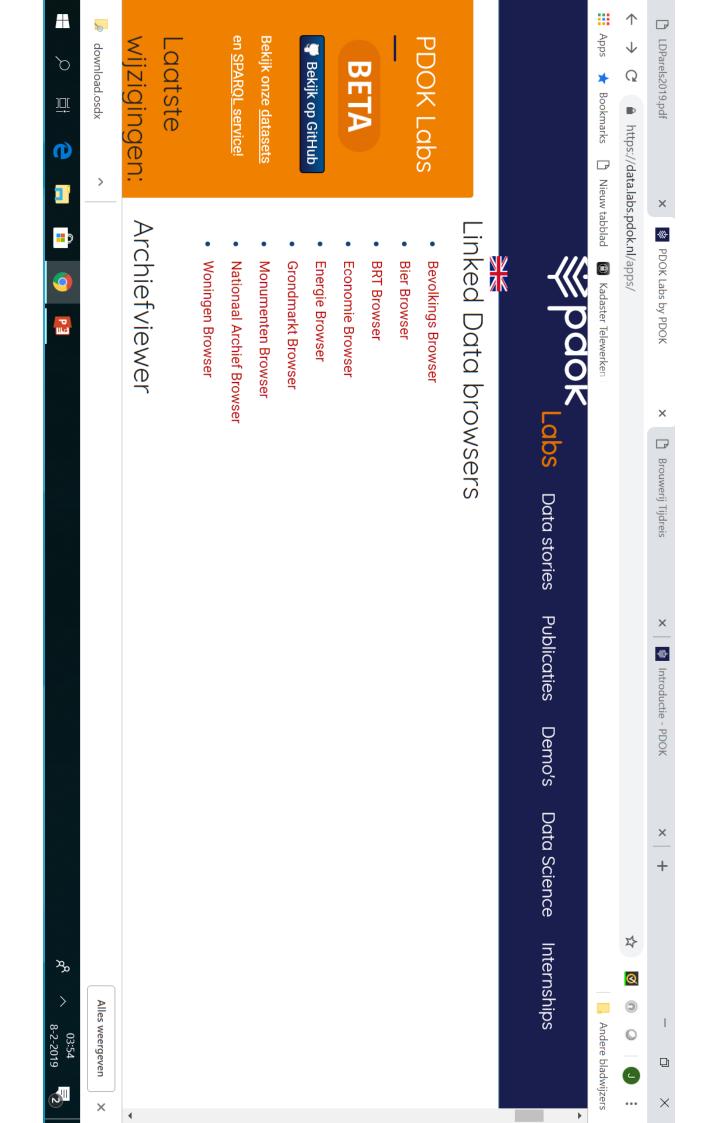
**Ontsluitingen** Downloads

Details bekijken

Transport

Locatie

Het Actueel Hoogtebestand Nederland (AHN) is een hoogtebestand vervaardigd door middel van laseraltimetrie.



|                  | <b>Thema</b><br>Grenzen                                                         | De Basisregistr                                                                                  | Basisregis                      | Details bekijken | <b>Thema</b><br>(Civiele) Structuren             | De Basisregistratie Groots<br>kaart) van heel Nederland.                                                                                 | Basisregis                                      | 📰 Apps 🖈 Bookmarks 🗋 Nieuw tabblad 🔟 Kadaster Telewerken | → C ▲ https://www.pdok.nl/datasets | LDParels2019.pdf × 📚 Datasets - PDOK × 😫 Intro |  |
|------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|------------------------------------|------------------------------------------------|--|
| Details bekijken | <b>Organisatie</b><br>Kadaster                                                  | De Basisregistratie Kadaster (BRK) bestaat uit de kadastrale registratie en de kadastrale kaart. | Basisregistratie Kadaster (BRK) | bekijken         | <b>Organisatie</b><br>Kadaster                   | De Basisregistratie Grootschalige Topografie (BGT) is dé gedetailleerde grootschalige basiskaart (digitale<br>kaart) van heel Nederland. | Basisregistratie Grootschalige Topografie (BGT) |                                                          |                                    | Introductie - PDOK × +                         |  |
|                  | <b>Ontsluitingen</b><br>RESTful API / Linked Data / Geo<br>Services / Downloads | en de kadastrale kaart.                                                                          |                                 |                  | <b>Ontsluitingen</b><br>Geo Services / Downloads | grootschalige basiskaart (digitale                                                                                                       | T)                                              | 📑 Andere bladwijzers                                     | ☆<br>図<br>◎<br>□                   |                                                |  |

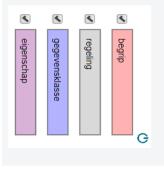
De BRO bevat gegevens over de diepe en ondiepe ondergrond. De gegevens zijn onderverdeeld in

|                                                                                                                           | Introc         | De B                                                                     | D                                        | -₩>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Apps 🖈 Be           | $\begin{array}{c} \bigstar \\ \downarrow \\ Q \end{array}$ | LDParels2019.pdf       |  |
|---------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------|------------------------|--|
| msc <b>ł</b>                                                                                                              | Introductie    | asisregist                                                               | atase                                    | <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> | Bookmarks           | https://w                                                  | .pdf                   |  |
| Omschrijving                                                                                                              | Geo Services   | ratie Kada                                                               | et: Bc                                   | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Nieuw tabblad       | ww.pdok.nl/in                                              | ×                      |  |
| Omschrijving<br>–<br>Hat Karlaster is hnurler van de Basisrenistratie Karlaster (RRK) Onderdeel van de RRK is de Dinitale | Downloads      | De Basisregistratie Kadaster (BRK) bestaat uit de kadastrale registratie | Dataset: Basisregistratie Kadaster (BRK) | Datasets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Kadaster Telewerken | https://www.pdok.nl/introductie?articleid=1949811          | 📦 Introductie - PDOK   |  |
| K) Onderdeel van d                                                                                                        | RESTful API    | uit de kadastr                                                           | ratie K                                  | PDOK Viewer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                                                            | × 😫 Introductie - PDOK |  |
|                                                                                                                           | Linked Data    |                                                                          | adaste                                   | ver Inspiratie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                            | tie - PDOK             |  |
| kunu<br>otru<br>otru                                                                                                      | Begrippenlijst | en de kadastrale kaart.                                                  | er (BRK)                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                            | ×<br>+                 |  |
|                                                                                                                           |                | aart.                                                                    |                                          | Community Support PDOK Next NGR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                                            |                        |  |
| Run in Postman                                                                                                            |                |                                                                          | kadaster                                 | PDOK Next                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Voor oopbiodore     | *                                                          |                        |  |
|                                                                                                                           |                |                                                                          |                                          | NGR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                            | I                      |  |
| 4                                                                                                                         |                |                                                                          |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Andere bladwijzers  | <b>C</b>                                                   |                        |  |

| ıvaarding nalatenschap waarbij de<br>atenschap positief is.                                                                                                                       | ler voorrecht van boedelbeschrijving is een aanvaarding nalatenschap waarbij de<br>nts aanvaarden voor zover het saldo van de nalatenschap positief is.            | Een aanvaarding nalatenschap onder<br>erfgenamen de nalatenschap slechts | <u>Aanvaarding nalatenschap onder</u><br><u>voorrecht van boedelbeschrijving</u>                 | шG                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------|
| tenschap door het afleggen van een<br>e erfgenaam.                                                                                                                                | riffie van de rechtb <u>ank van het sterfhuis door de</u>                                                                                                          | Een Aanvaarding nalatenschap is e<br>daartoe strekkende verklaring er g  | <u>Aanvaarding nalatenschap</u>                                                                  | -т г                                             |
| Een Aantekening is een aanvulling op de registratie van ef zateraged met betrekking het een Kegnolgen<br>kunnen hebben voor de uitdefening van de rederationale dit registergoed. | op de registratie val e <b>fraçois sou</b> met betri<br>y van de re <b>bis a d</b> uit registergoed.                                                               | Een Aantekening is een aanvuling «<br>kunnen hebben voor de uitgefening  | <u>Aantekening</u>                                                                               |                                                  |
| htsfellemt                                                                                                                                                                        | Een Aanschrijving wonngvertigeen schweizike beslissing van de gegepters verplichtingen statt evriet<br>onderhoud, beheer en gebruk an een bouwwerk, open crotenen. | Een Aanschrijving wonngveriseen<br>onderhoud, beheer en gebruike and     | <u>Aanschrijving woningwet</u>                                                                   | ∩ B                                              |
| hoorippen                                                                                                                                                                         | ebracht door een Kackatier Seder verker                                                                                                                            | Voorlopige kadastrale grenzen ing                                        | <u>Administratief</u>                                                                            | A                                                |
|                                                                                                                                                                                   |                                                                                                                                                                    |                                                                          | >                                                                                                | A-Z                                              |
|                                                                                                                                                                                   | Begrippenlijst                                                                                                                                                     | RESTful API Linked Data                                                  | Geo Services Downloads                                                                           | Introductie                                      |
|                                                                                                                                                                                   |                                                                                                                                                                    |                                                                          |                                                                                                  |                                                  |
|                                                                                                                                                                                   | atie en de kadastrale kaart.                                                                                                                                       | aat uit de kadastrale registra                                           | De Basisregistratie Kadaster (BRK) bestaat uit de kadastrale registratie en de kadastrale kaart. | De Basisre                                       |
| Andere bladwijzers                                                                                                                                                                |                                                                                                                                                                    | 5                                                                        | s 🗋 Nieuw tabblad 🔞 Kadaster Telewerken                                                          | 🗰 Apps 🔺 Bookmarks                               |
| ☆<br>図<br>0<br>し                                                                                                                                                                  |                                                                                                                                                                    | 1949811                                                                  | https://www.pdok.nl/begrippenlijst?articleid=1949811                                             | $\leftarrow$ $\rightarrow$ $Q$ $\triangleq$ http |
|                                                                                                                                                                                   | × +                                                                                                                                                                | X 😫 Introductie - PDOK                                                   | 🗴 🔹 Begrippenlijst - PDOK                                                                        | LDParels2019.pdf                                 |
|                                                                                                                                                                                   |                                                                                                                                                                    |                                                                          |                                                                                                  |                                                  |

| LDParels2019.pdf   | If 🗙 📚 Basisregistratie Kadaster 🗙 📚 Introductie - PDOK 🗙                                                                                                                                                                                                                                                                                                                                                  | +                                                                                                                                                                                                                              |
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| $\rightarrow$ Q    | https://brk.basisregistraties.overheid.nl/doc/begrip/Akte                                                                                                                                                                                                                                                                                                                                                  | C © D 4                                                                                                                                                                                                                        |
| 👬 Apps 🔺 Bookmarks | marks 🕒 Nieuw tabblad 🔞 Kadaster Telewerken                                                                                                                                                                                                                                                                                                                                                                | 📫 Andere bladwijzers                                                                                                                                                                                                           |
| Akte               |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                |
| label              | Akte                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                |
| Uitleg             | Een akte is een ondertekend document dat gebruikt wordt als bewijs.                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                |
| Definitie          | Een akte is een ondertekend geschrift bestemd om tot bewijs te dienen.                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                |
| Toelichting        | Een akte is authentiek of onderhands. Een authentieke akte is een openbare akte in de<br>krachtens de wet is opgedragen op die wijze te doen blijken van door hen gedane waar<br>Een notariële akte is een authentieke akte. Notariële akten kunnen zijn partij-akten of j<br>verklaringen van partijen en eventueel bevestigingen daarvan door getuigen. Proces-ve<br>bevestigingen daarvan door getuigen | vereiste vorm en bevoegdelijk opgemaakt door ambtenaren aan wie bij of                                                                                                                                                         |
| Rationale          | Ontleend aan het Fockema Andreae's Juridisch woordenboek en de Wet op het notarisambt, Titel V.                                                                                                                                                                                                                                                                                                            | en of verrichtingen. Een onderhandse akte is een akte die niet authentiek is.<br>/erbaal-akten. Partij-akten bevatten waarnemingen van de notaris,<br>kten bevatten slechts waarnemingen van de notaris en eventueel           |
| Bron               |                                                                                                                                                                                                                                                                                                                                                                                                            | en of verrichtingen. Een onderhandse akte is een akte die niet authentiek is.<br>/erbaal-akten. Partij-akten bevatten waarnemingen van de notaris,<br>kten bevatten slechts waarnemingen van de notaris en eventueel<br>rel V. |

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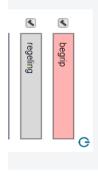
| •                  |                                                                                                                                                                                                                |                                                                                                        |                                                       |                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------|
|                    | Een Elektriciteitsnetwerk is een netwerk bestaande uit een of meer kabels of leidingen bestemd voor de transport van<br>elektriciteit.                                                                         | Een Elektriciteitsnetwerk is een netwe<br>elektriciteit.                                               | <u>Electriciteitsnetwerk</u>                          |                    |
|                    | Een Eis tot vastlegging eigendom netwerk is een inschrijving in de openbare registers als aantekening van het feit dat<br>een partij een eis heeft ingediend ter vaststelling van het eigendom van een netwerk | Een Eis tot vastlegging eigendom net<br>een partij een eis heeft ingediend ter v                       | <u>Eis tot vastlegging eigendom</u><br><u>netwerk</u> |                    |
|                    | aarop een recht vervalt.                                                                                                                                                                                       | Een einddatum recht is een datum waarop een recht vervalt.                                             | <u>Einddatum recht</u>                                |                    |
|                    | Een echtgenoot is een persoon die door het huwelijk verbonden is met een andere persoon                                                                                                                        | Een echtgenoot is een persoon die dc                                                                   | <u>Echtgenoot</u>                                     |                    |
|                    | Erfdienstbaarheid is een last, waarmede een onroerende zaak - het dienende erf - ten behoeve van een andere<br>onroerende zaak - het heersende erf - is bezwaard.                                              | Erfdienstbaarheid is een last, waarmede een onroe<br>onroerende zaak - het heersende erf - is bezwaard | Erfdienstbaarheid                                     |                    |
|                    | Een Eigenaar is een persoon die het meest omvattende recht op een zaak heeft.                                                                                                                                  | Een Eigenaar is een persoon die het n                                                                  | <u>Eigenaar</u>                                       |                    |
|                    | Eigendom is een Zakelijk recht dat het meest omvattende recht is wat een persoon op een zaak kan hebben.                                                                                                       | Eigendom is een Zakelijk recht dat he                                                                  | <u>Eigendom</u>                                       |                    |
|                    | Erfpacht is een Zakelijk recht dat de erfpachter de bevoegdheid geeft eens anders onroerende zaak te houden en te<br>gebruiken.                                                                                | Erfpacht is een Zakelijk recht dat de e<br>gebruiken.                                                  | <u>Erfpacht</u>                                       |                    |
|                    | Een erfgenaam is een persoon die voor het geheel of voor een evenredig deel in de vermogensrechtelijke positie van<br>de erflater treedt.                                                                      | Een erfgenaam is een persoon die vo<br>de erflater treedt.                                             | <u>Erfgenaam</u>                                      |                    |
| Þ                  |                                                                                                                                                                                                                |                                                                                                        |                                                       |                    |
| Andere bladwijzers | Anc                                                                                                                                                                                                            |                                                                                                        | Nieuw tabblad  Kadaster Telewerken                    | 🗰 Apps 🔺 Bookmarks |
| <b>C</b>           | ☆ <b>③</b> ①                                                                                                                                                                                                   | 1949811                                                                                                | https://www.pdok.nl/begrippenlijst?articleid=1949811  |                    |
| D<br>×             | × +                                                                                                                                                                                                            | X 😫 Introductie - PDOK                                                                                 | 🗙 📚 Begrippenlijst - PDOK                             | LDParels2019.pdf   |
|                    |                                                                                                                                                                                                                |                                                                                                        |                                                       |                    |

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|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| ← → Q            | ■ https://brk.basisregistraties.overheid.nl/doc/begrip/Eigendom                                                                                                                                                                                                        | Q<br>0<br>0        |
| 🖬 Apps 🔺 Bookma  | ★ Bookmarks 🗅 Nieuw tabblad 🔟 Kadaster Telewerken                                                                                                                                                                                                                      | Andere bladwijzers |
| Eigendom         | dom                                                                                                                                                                                                                                                                    |                    |
| label            | Eigendom                                                                                                                                                                                                                                                               |                    |
| Uitleg           | Eigendom is het meest omvattende recht dat iemand of een organisatie op een zaak kan hebben.                                                                                                                                                                           |                    |
| Definitie        | Eigendom is een Zakelijk recht dat het meest omvattende recht is wat een persoon op een zaak kan hebben.                                                                                                                                                               |                    |
| Toelichting      | g Het staat de eigenaar met uitsluiting van een ieder vrij van de zaak gebruik te maken, mits dit gebruik niet strijdt met rechten van anderen en de op wettelijke voorschriften en regels van ongeschreven recht gegronde beperkingen daarbij in acht worden genomen. | ttelijke           |
| Rationale        | Ontleend aan het Burgerlijk Wetboek, Artikel 5:1 lid 1                                                                                                                                                                                                                 |                    |
| Bron             | Artikel 1 BW Boek 5≯                                                                                                                                                                                                                                                   |                    |
| Specialisatie    | tie Zakelijk recht                                                                                                                                                                                                                                                     |                    |

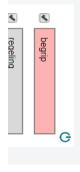


Gerelateerd Persoon aan 7324

Zaak



|                    |                      |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                              |                                                                                                        |                |                | Apps                                     | $\uparrow \\ \downarrow$                                                      |                                                                    |
|--------------------|----------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------|----------------|------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Gerelateerd<br>aan | Specialisatie<br>van | Rationale                                                 | Toelichting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Definitie                                                                                    | Uitleg                                                                                                 | label          | Zakelijk recht | os 🖈 Bookmarks                           | Q                                                                             | LDParels2019.pdf                                                   |
| Zaak               | Vermogensrecht       | Ontleend aan het Juridisch Woordenboek, Fockema Andreae's | Met een zakelijk recht wordt bedoeld een recht dat samenhangt met een zaak of een goed. Dit in tegenstelling met een persoonlijk recht, een recht dat samenhangt met<br>de persoon. Om het verschil tussen beide rechten duidelijk te maken een voorbeeld. Eigendom is een zakelijk recht. Dat betekent onder meer dat het recht niet eindigt<br>door het overlijden van de eigenaar. Als een eigenaar overlijdt vallen al zijn eigendommen in zijn nalatenschap. Huur is een persoonlijk recht. Door het overlijden van de<br>huurder eindigt in principe wel de huur. Zakelijke rechten zijn, behalve het recht van eigendom, de rechten van erfpacht, opstal, vruchtgebruik, gebruik en bewoning en<br>erfdienstbaarheid. Een Zakelijk recht kan zijn een zakelijk genotsrecht of een zakelijk zekerheidsrecht | Een Zakelijk recht is een absoluut recht op een zaak dat tegenover iedereen te handhaven is. | Een zakelijk recht is het recht dat iemand op een zaak heeft en dat iemand anders niet aan kan tasten. | Zakelijk recht | recht          | ks 🗋 Nieuw tabblad 🕲 Kadaster Telewerken | https://brk.basisregistraties.overheid.nl/doc/begrip/Zakelijk_recht 🛛 🖉 💿 🔾 🕘 | × 📚 Basisregistratie Kadaster 🗙 📚 Introductie - PDOK 🛛 🗙 🕂 🗕 — 🗇 🗙 |



|                       |                                     |                                                                      |                                                                                |       |      | App                                                      | $\begin{array}{c} \leftarrow \\ \downarrow \\ \bigcirc \\ \bigcirc$ |                               |
|-----------------------|-------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|-------|------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Bron                  | Rationale                           | Definitie                                                            | Uitleg                                                                         | label | Zaak | 🗰 Apps 🛧 Bookmarks 🗋 Nieuw tabblad 🕲 Kadaster Telewerken |                                                                                                                                                         | LDParels2019.pdf              |
| Artikel 2 BW Boek 3 🖈 | Ontleend aan het Burgerlijk Wetboek | Een zaak is een voor menselijke beheersing vatbaar stoffelijk object | Een zaak is een tastbaaı                                                       | Zaak  |      | euw tabblad 🔘 Kadaste                                    | https://brk.basisregistraties.overheid.nl/doc/begrip/Zaak                                                                                               | × 🔹 Basisregistratie Kadaster |
|                       | 1lijk Wetboek                       | nselijke beheersing vat                                              | . iets dat is ontstaan do                                                      |       |      | r Telewerken                                             | <b>l.nl</b> /doc/begrip/Zaak                                                                                                                            | ×                             |
|                       |                                     | baar stoffelijk object                                               | Een zaak is een tastbaar iets dat is ontstaan door de natuur of door een mens. |       |      |                                                          |                                                                                                                                                         | Introductie - PDOK            |
|                       |                                     |                                                                      |                                                                                |       |      |                                                          |                                                                                                                                                         | ×<br>+                        |
|                       |                                     |                                                                      |                                                                                |       |      |                                                          |                                                                                                                                                         |                               |
|                       |                                     |                                                                      |                                                                                |       |      |                                                          | ☆<br>Q<br>0                                                                                                                                             |                               |
|                       |                                     |                                                                      |                                                                                |       |      | Andere bladwijzers                                       |                                                                                                                                                         |                               |

| eigenschap | gegevensklasse | regeling | begrip |  |
|------------|----------------|----------|--------|--|

2019-02-08, DUBLIN = IMOLA WORKSHOP = J. VOS

| https://www.                                                   |                            |                 |                                |                                                |                 |                   |                |                                     |                                                   |                    |                   |            |                                     |                                                |                 | Apps                        | $\stackrel{\bigstar}{\rightarrow}$                             | 🗅 LDPa                                                        |
|----------------------------------------------------------------|----------------------------|-----------------|--------------------------------|------------------------------------------------|-----------------|-------------------|----------------|-------------------------------------|---------------------------------------------------|--------------------|-------------------|------------|-------------------------------------|------------------------------------------------|-----------------|-----------------------------|----------------------------------------------------------------|---------------------------------------------------------------|
| https://www.w3.org/2009/08/skos-reference/skos.html#definition | Super-properties:          | Label:          | Definition:                    | URI:                                           |                 | Super-properties: | Label:         | Definition:                         | URI:                                              |                    | Super-properties: | Label:     | Definition:                         | URI:                                           |                 | ★ Bookmarks 🕒 Nieuw tabblad | C A https://www.w3.org                                         | LDParels2019.pdf ×                                            |
| s.html#definition                                              | <pre>skos:closeMatch</pre> | has exact match | Section 10. Mapping Properties | http://www.w3.org/2004/02/skos/core#exactMatch | skos:exactMatch | skos:note         | editorial note | Section 7. Documentation Properties | http://www.w3.org/2004/02/skos/core#editorialNote | skos:editorialNote | skos:note         | definition | Section 7. Documentation Properties | http://www.w3.org/2004/02/skos/core#definition | skos:definition | Kadaster Telewerken         | https://www.w3.org/2009/08/skos-reference/skos.html#definition | ₩3 SKOS Simple Knowledge Organiz 🗙 🔮 Introductie - PDOK 🛛 🗙 🕂 |
|                                                                | Close                      | in a matur      | match, th                      | be hony                                        | nit: no ci      | oxact             | funce.         | - rionalis                          | X- &                                              | VVI - import       | wichlist.         |            | DAIN                                | ARE                                            | IN SRUC         | Andere bladwijzers          |                                                                | -<br>-<br>-<br>- ×                                            |

| LDParels2019.pdf                    | 🗙 📚 Basisregistratie Kadaster 🗙 📚 Introductie - PDOK 🛛 🗙 🕂                                                                                                                                                                                                           |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\leftarrow \rightarrow \mathbf{C}$ | https://brk.basisregistraties.overheid.nl/doc/begrip/Eigendom                                                                                                                                                                                                        |
| Apps 🔺 Bookm                        | 🗰 Apps 🖈 Bookmarks 🗅 Nieuw tabblad 🔟 Kadaster Telewerken                                                                                                                                                                                                             |
| Eigendom                            | OM                                                                                                                                                                                                                                                                   |
| label                               | Eigendom                                                                                                                                                                                                                                                             |
| Uitleg                              | Eigendom is het meest omvattende recht dat iemand of een organisatie op een zaak kan hebben.                                                                                                                                                                         |
| Definitie                           | Eigendom is een Zakelijk recht dat het meest omvattende recht is wat een persoon op een zaak kan hebben.                                                                                                                                                             |
| Toelichting                         | Het staat de eigenaar met uitsluiting van een ieder vrij van de zaak gebruik te maken, mits dit gebruik niet strijdt met rechten van anderen en de op wettelijke voorschriften en regels van ongeschreven recht gegronde beperkingen daarbii in acht worden genomen. |
|                                     |                                                                                                                                                                                                                                                                      |

•

corporeal or incorporeal asset, or even another right or a claim (...) PIVOT: The most comprehensive right a person can hold to a aan

Gerelateerd

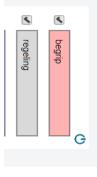
Persoon Zaak

van

Specialisatie Zakelijk recht

Bron

Artikel 1 BW Boek 5→

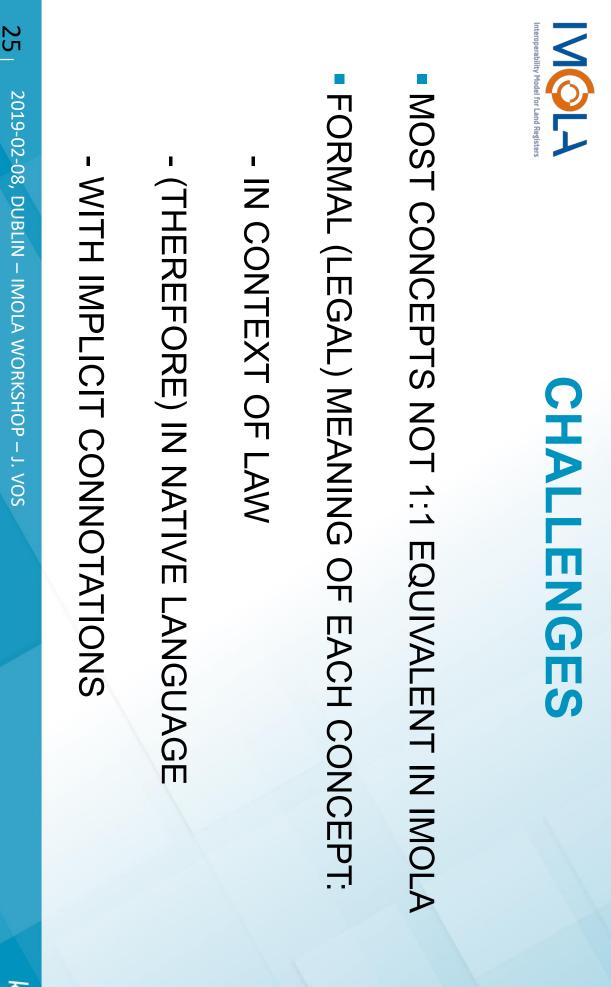




# MEANING OF USE OF CONCEPT

- USE OF MAINSTREAM STANDARDS AS SKOS
- SKOS: W3C STANDARD
- EVERY TAXONOMY/ THESAURUS ENGINE ABLE TO INTERPRET SEMANTIC STRUCTURE OF THE DATA







# **BUT... USING SKOS**

- SEMANTICALLY CORRECT MATCHING OF NATIVE CONCEPTS (E.G.)
- 'specialization of'
- 'generalisation of' or
- 'almost the same as'
- EXPLAINING MEANING OF NATIVE CONCEPTS IN ENGLISH CAN BE DONE THE SAME WAY AS WE EXPLAIN THE MEANING IN **NON-LEGAL NATIVE LANGUAGE**



# Example: the concept 'Perceel'

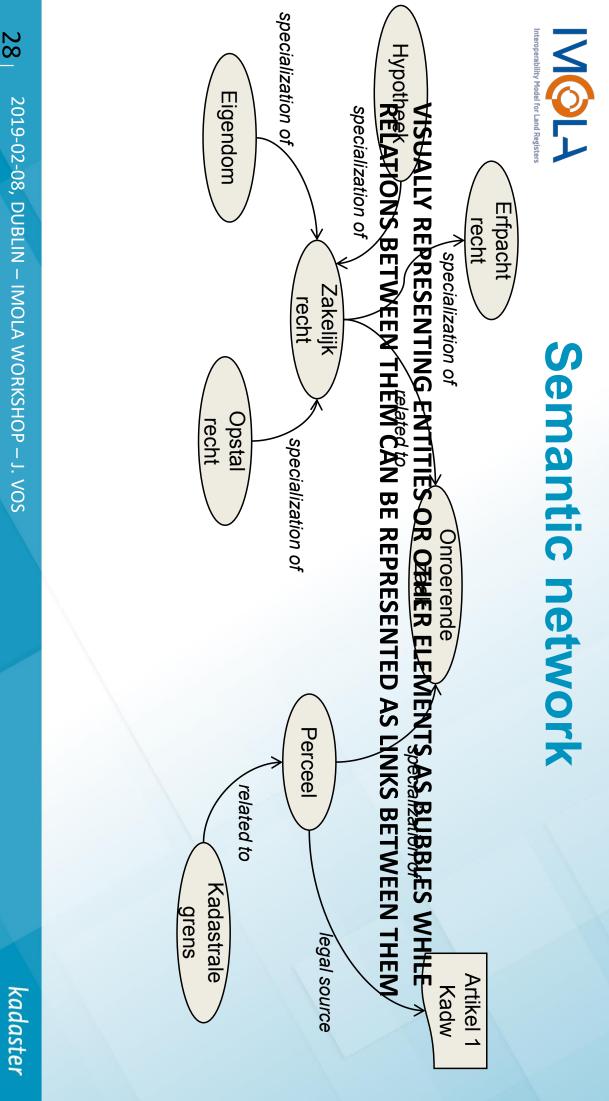
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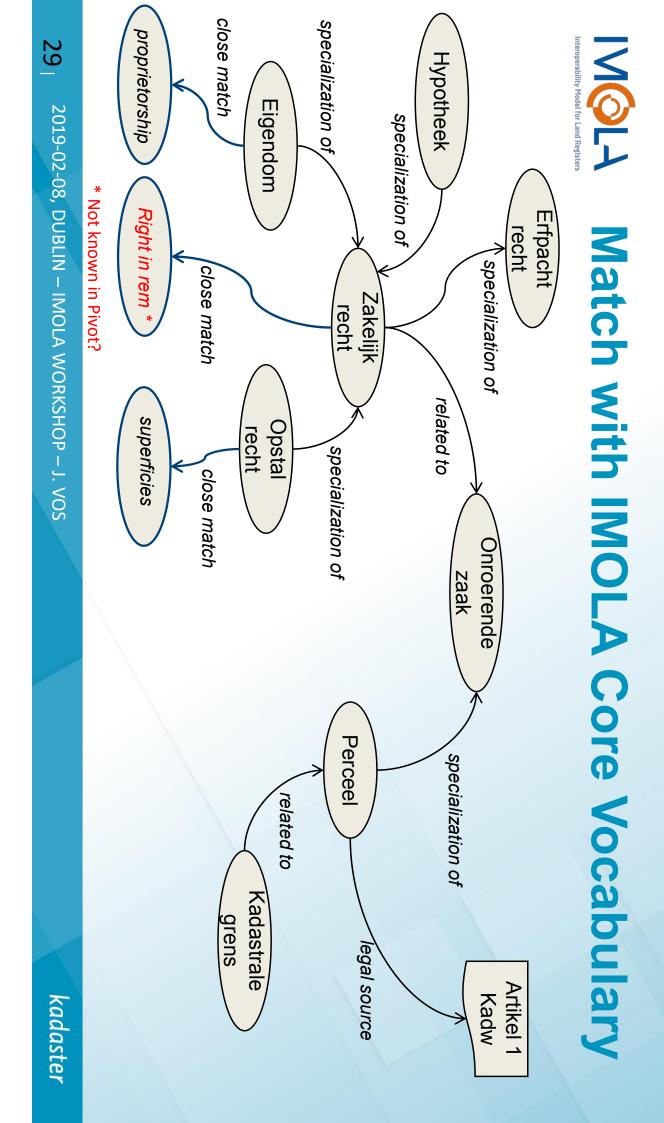
| Perceel            |                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Term:              | Perceel                                                                                                                                  |
| Imola term:        | Property (broader match)                                                                                                                 |
| Explanation (nl):  | Een perceel is een stuk grond waarvan het Kadaster de grenzen heeft gemeten en dat bij het<br>Kadaster een eigen nummer heeft.           |
| Explanation (en):  |                                                                                                                                          |
| Legal definition:  | Een perceel is een begrensd deel van het Nederlands grondgebied dat kadastraal geïdentificeerd is en met kadastrale grenzen begrensd is. |
| Legal source:      | Artikel 1 Kadw                                                                                                                           |
| Semantic relations | SL                                                                                                                                       |
| Specialization of: | Onroerende zaak                                                                                                                          |

Related to:

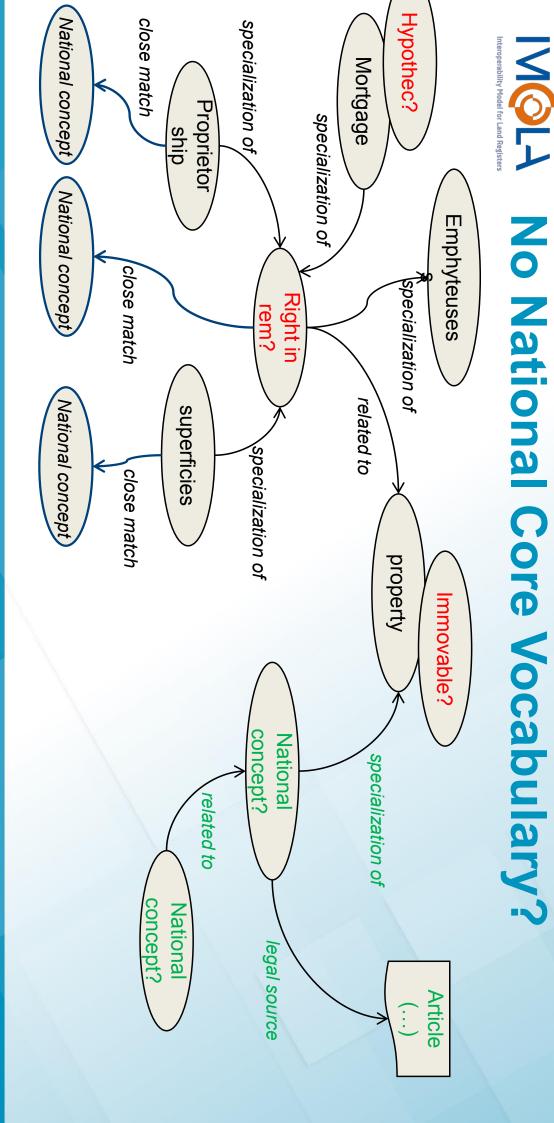
Kadastrale grens

Zakelijk recht











# **MOVING ON FORWARD**

- 1. CREATE (NATIONAL &) IMOLA VOCABULARY
- 2. CREATING IMOLA- URI's (Uniform Resource Identifiers)
- **3. DISCLOSE VIA E-JUSTICE**
- 4. MATCH WITH NATIONAL URI's
- 5. CONNECT TO R.E. MARKET (URI's): - BIM, XBRL, ECB, etc.





# TO CREATE A BUILDING PASSPORT (?) -

### **Jacques Vos** Registrar @ Kadaster









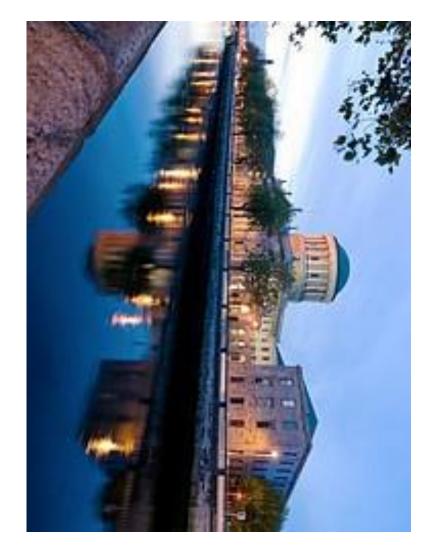




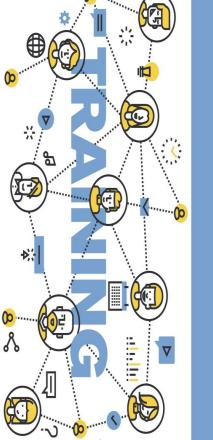
### IMOLA II 4th Training Seminar Dublin 7-8 February 2019

State of play and training seminar objetives

**IMOLA II Team** 



# **Collaborative environment**



#### 

## **Thankfulness**

### Data economy

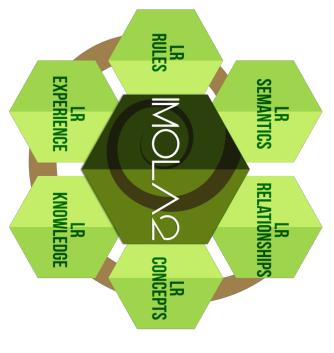
### **Objectives**

- Consolidation IMOLA KOS
- Associative relationships
- Baselines
- Quality of data
- KM new developments
- LRI integration: IMOLA web service
- Collective electronic book



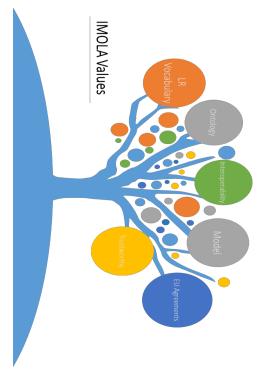
## **IMOLA II Milestones**

- I.KOS: Thesauri
- Input System: technological tool (KM)
- LRI integration: retrieval and visualization



## I.KOS Thesauri: activities fulfilled

- ELRD XSD/XML V2.0
- Technical requirement analysis
- Conceptual model: Corpus Semantic
- Four Training Seminars and explanatory material
- Academic feedback
- Commission collaboration: DG justice (LRI)/DG Digit (ISA)
- CPs web platform



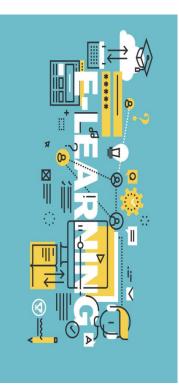
## Input System: activities fullfilled

- KM customized technological tool V 19.2
- Handbook
- Web service and Data Base for storage
- Multilingual capabilities
- ELRD conceptualization and formalization



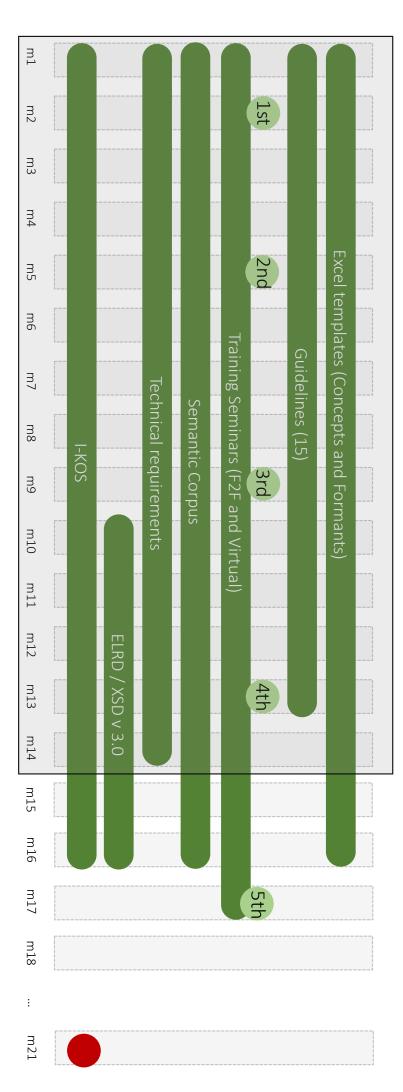
# LRI/e.Justice integration: retrieval and visualization

- IMOLA web services
- Interface
- Data Exchange protocol
- Test bed



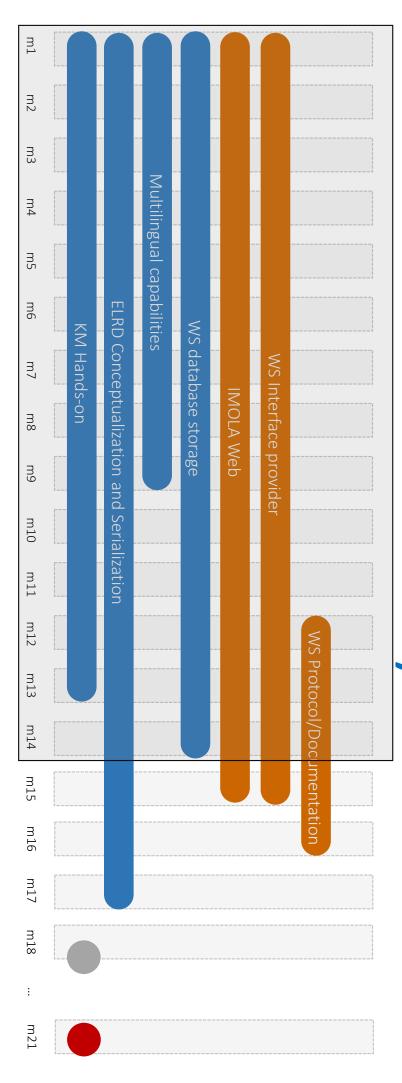








## **Overall achievements (Knowledge Manager Tool and Visualization**



WS TestBed

Closing Plenary

#### Next steps

- Closing definitions
- Completing Formants/atributtes
- Quality checks
- Get familar and use IMOLA ICT
- Participate in the IMOLA Knowledge collective book











## Many thanks







### Sjef van Erp



Towards a "land data passport"? Data mining, immovables and commodification:

- 1. Introduction
- 2. New legal objects
- 3. New legal subjects
- 4. New legal relations
- 5. To whom "belong" the data?
- 6. Data mining regarding immovables
- 7. Commodification of immovable property data
- 8. Towards a "digital passport"?
- 9. What should the passport contain?
- 10. Concluding remarks



- Problems to be analysed from a property viewpoint:
- I. New legal objects?
- II. New legal subjects?
- III. New (types) of legal relations?

- A common vocabulary: What is 'property law' about? A comparative law answer:
- Property law is about (a) legal relations between (b) a <u>subject</u> and a <u>substantial and</u> relevant group of other subjects regarding an object

- New legal objects (1)
- Numerus clausus of objects
- Physical things
- Monetary claims
- Human creativity
- Data?

- New legal objects (2)
- How to define 'data'?
- Data are non-rivalrous (can be copied)
- From 'facts', to 'information', to 'data', but which
- L How to define 'facts', 'information' and 'data'? data (specificity)?

- New legal objects (3)
- Personalised data
- Privacy protected ('personal' data)
- Non-privacy protected ('non-personal')
- Non-Personalised data ('non-personal' or 'anonymous' data)

- New legal objects (4)
- Raw data
- Metadata
- Derived data
- Processed data
- Data in a hybrid world ('Internet of Things')

ISO definition of data (ISO/IEC 2382-1, revised by ISO/IEC 2382:2015 -Information technology – Vocabulary):

formalized manner suitable for communication, interpretation, or processing." "Reinterpretable representation of information in a

## Article 4(1) Data Protection Regulation:

natural person" physiological, genetic, mental, economic, cultural or social identity of that online identifier or to one or more factors specific to the physical, an identifier such as a name, an identification number, location data, an one who can be identified, directly or indirectly, in particular by reference to identifiable natural person ('data subject'); an identifiable natural person is "personal data' means any information relating to an identified or

Article 3 (1) Regulation on Free Data Flow of Non-Personal Data:

4 of Regulation (EU) 2016/679;" "data' means data other than personal data as defined in point (1) of Article

| <ul> <li>Cars, computer trading)</li> <li>Persons in a 'hybrid' or 'blended' reality ('avatars')</li> <li>Maastricht University</li> </ul> |  | <ul> <li>New legal subjects (1)</li> <li>Demons in the 'real' world</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|
|--------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|

- New legal subjects (2)
- shadow of assets, representing economic wealth Legal subjects have a 'patrimony', their
- L Does a robot have a patrimony?
- A self-driving car or a computerized trading system
- 'has' data, which have economic value

#### Maastricht University Distance of data from a subject ('dispossession') New legal relations New types of 'ownership' or 'possession'? Different answers based on: Area of law (private law, public law) Type of object (tangible, intangible, digital) Purpose (full control, security, management) Nature of the data carrier (physical, human) **Data Passport**

- Who can still perceive the difference subject? between Al, a human being, an object or a
- Example: The next Rembrandt

- Data mining regarding immovables
- Satellites
- Farming equipment ('Internet of Things')
- Mobile phones

Commodification of data: data as an object of trade



- To whom "belong" the data?
- Subject 'data'subject, personal data
- Which subject?
- Copyright, database right
- Object – 'accessio' of data
- I Data cannot exist without a carrier (could be an object or a subject)

- Should we introduce registration of data
- next to traditional registration?
- Various subquestions (1):
- Part of land registry?
- I Part of movable property registry?
- The use of distributed ledger technology ("block chain") to create a unique object

- Should we introduce registration of data
- next to traditional registration?
- Various subquestions (2):
- I What should be registered: pointers or substantial data?
- Which right(s) should be registered?
- Whose right(s) should be registered?
- Multiple types of "owners"?

- How is the passport transferred?

## Final remarks

- Data mining regarding immovable property
- Should such data be stored as part of a land registration system?
- Is the data personal or non-personal?
- I Should a "land data passport" be introduced?

s.vanerp@maastrichtuniversity.nl Prof. dr. J.H.M. (Sjef) van Erp Maastricht University

vice-president.eli@univie.ac.at **European Law Institute** 

Bundesministerium Verfassung, Reformen, Deregulierung und Justiz



Funded by the Justice Programme of the European Union

## 2019-01-07 ELRA Meeting in Dublin LRI MS Connection: Project Overview

EE: Katri Tammsaar AT: Manfred Buric, Johann Kickinger



#### Agenda

- LRI MS Connection project overview
- Key project data
- Partners
- Objectives
- Work-packages
- Timeline
- Achievements / Issues
- Tests
- Preview

Page 2 | 27.02.2019

### Key project data

#### Content

Action acronym: LRI MS Connection

Action full title: **LRI Member State Connection - analysis, design and implementation of the national** Web services for communication with the Land Registers Interconnection (LRI) platform at the European e-Justice Portal

Duration: 15 months

Start-Date: 01 March 2018

End-Date: 31 May 2019

#### Formal parameters

Grant agreement No: 785840

Topic: Action grants to support national or transnational e-Justice projects

Type of action: Justice Action Grant: 785840 — LRI MS Connection — JUST-AG-2017/JUST-JACC-EJU-AG-2017

Consortium agreement is required: Yes

Reimbursement rate: **80.00%** of the action's eligible costs

## **Two Project Partners**

| Beneficiary Role PIC | Role | PIC       | Legal name                                                               | Country |
|----------------------|------|-----------|--------------------------------------------------------------------------|---------|
| 1 – BMJ              | СО   | 974770267 | BUNDESMINISTERIUM FUER VERFASSUNG,<br>REFORMEN, DEREGULIERUNG UND JUSTIZ | AT      |
| 2 – CRIS             | BEN  | 917887721 | REGISTRITE JA INFOSUSTEEMIDE KESKUS                                      | Æ       |

100% owned by the Republic of Austria, represented by the AT Ministry of Finance. Austrian Federal Computing Centre – a company with limited liability which is AT BMJ is supported by its subcontractor "Bundesrechenzentrum GmbH (BRZ GmbH)" –

### **Project Website**

Interconnecting Land Registers

Home

Blog

Summary Purpose Outcomes Innovation Milestones Work Packages

#### http://lri-ms.eu/





#### LRI MS Connection

EU Project for Interconnecting Estonian and Austrian Land Registers with the e-Justice Portal

### Interconnecting Land Registers

In March 2018, the Centre of Registers and Information Systems in Estonia together with the Austrian Ministry of Justice launched an EU funded project LRI MS Connection, which will be running until May 2019.

The full title of the project is "I.RI Member State Connection - analysis, design and implementation of the national Web services for communication with the Land Registers Interconnection (LRI) platform at the European e-Justice Portal" (Grant agreement No: 785840).

See the Project overview and follow the ongoing activities at the Project Blog.

#### Project partners:

Federal Ministry of Constitutional Affairs, Reforms, Deregulation and Justice, Austria

Centre for Registers and Information Systems, Estonia

The project LRI MS Connection is funded by the European Union's Justice Programme (2014-2020).



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# LRI MS Connection: Objective and Work-Packages

Interconnection (LRI) for the land registers of Austria and Estonia: Project objective is to implement the national side of the Land Registers

- WP1: Management and Coordination of the Project
- WP2: Business Analysis and Solution Design for LRI Requests/Responses Mapping of LRI requests/responses to/from national land register queries and search

results

- WP3: Development, Test and Deployment of national Components for LRI **Requests/Responses**
- WP4: Adaption of the national Authentication Portal for Court Professionals

restricted queries authentication portal plus the EE authorisation solution for state officials (e.g. court professionals, notaries) will be linked with the LRI platform at the e-Justice Portal – in order AT and EE court professionals can be properly authenticated (and authorized!) to perform The national authentication portal for AT court professionals and the EE national

• WP5: Publicity and dissemination of deliverables

| -                 | Month-Nr relative to project sta                                           |
|-------------------|----------------------------------------------------------------------------|
| Work Package      | WP Title                                                                   |
| WP1               | Project Management and Coordination                                        |
| A1.1.             | Overall management and coordination of the project                         |
| A1.2.             | Financial reporting and activity reporting                                 |
| A1.3.             | Detailed planning of project activities                                    |
| A1.4.             | Management of communication (project partners and the Commission)          |
| A1.5.             | Project quality monitoring and risk management                             |
| WP2               | Business Analysis and Solution Design for LRI Requests/Responses           |
| A2.1.             | Business Analysis and mapping of the LRI Requests to national LRs          |
| A2.2.             | Analysis of the aspects of interconnections                                |
| A2.3.             | Design of architecture and specification of national LRI components        |
| WP3               | Development, Test and Deployment of national components for LRI            |
|                   | Requests/Responses                                                         |
| A3.1.             | Development of the national LRI component                                  |
| A3.2.             | Testing of the national LRI components and readiness of the connection     |
| A3.3.             | Deployment of the LRI connection to the e-Justice portal                   |
| WP4               | Adaption of the national Authentication Portal for court professionals     |
| A4.1.             | Analysis of SAML flow between LRI at the e-Justice Portal and the national |
|                   | Authentication Portal                                                      |
| A4.2.             | Design of LRI adaptions in the national Authentication Portal.             |
| A4.3.             | Development, testing and deployment of the LRI adaptions in the national   |
|                   | Authentication Portal                                                      |
| WP5               | Publicity and dissemination of deliverables                                |
| A4.1. Page 7   27 | Management of project publicity                                            |
| A4.2.             | Promotion of deliverables                                                  |

## **Key project deliverables**

# WP2 Business Analysis and Solution Design for LRI Requests/Responses

- D2.1 Analysis /Design document is being finalised
- Consolidation of AT and EE results into one document
- Describes mapping of LRI Requests/Responses to national Land Register search functions and country specific search forms

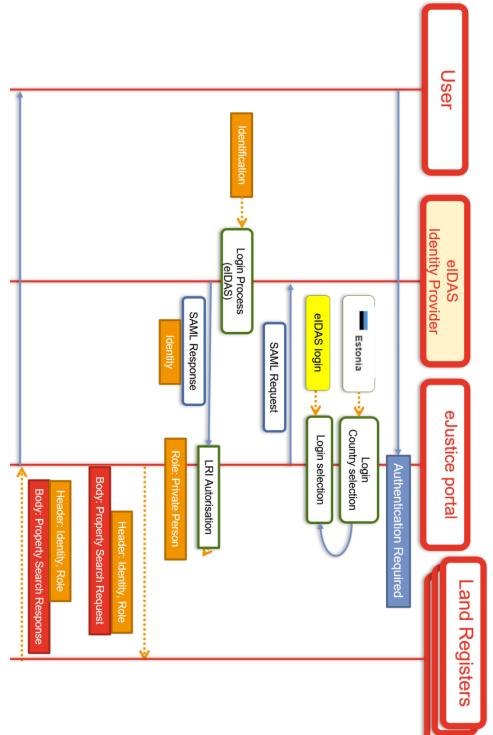
# WP3 Development, Test and Deployment of national components for LRI

- National test environment has been setup in both AT and EE
- Working to integrate it with the test environment of the Commission's subcontractor

# WP4 Adoption of the national Authentication Portal for court professionals

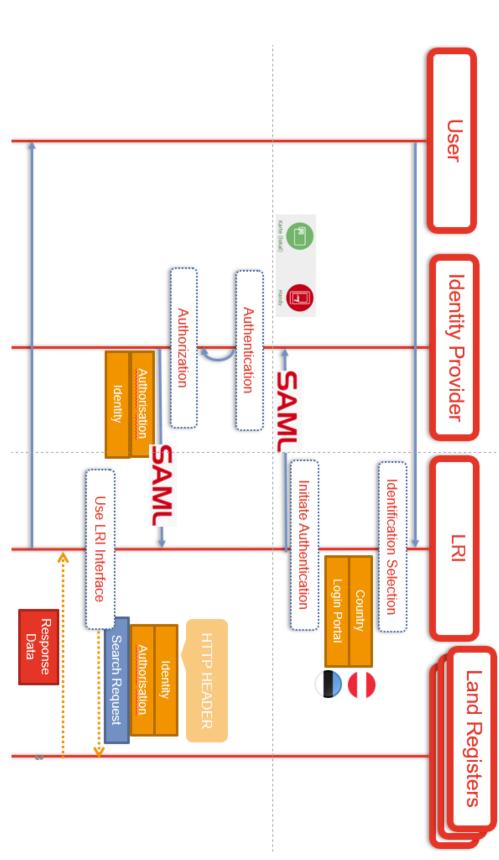
- D4.1 Analysis/Design document on authentication
- SAML flows. This was definitely the most challenging and complex task! Describes the envisaged solution on authentication and authorisation including

## **Citizen login with eID using eIDAS**



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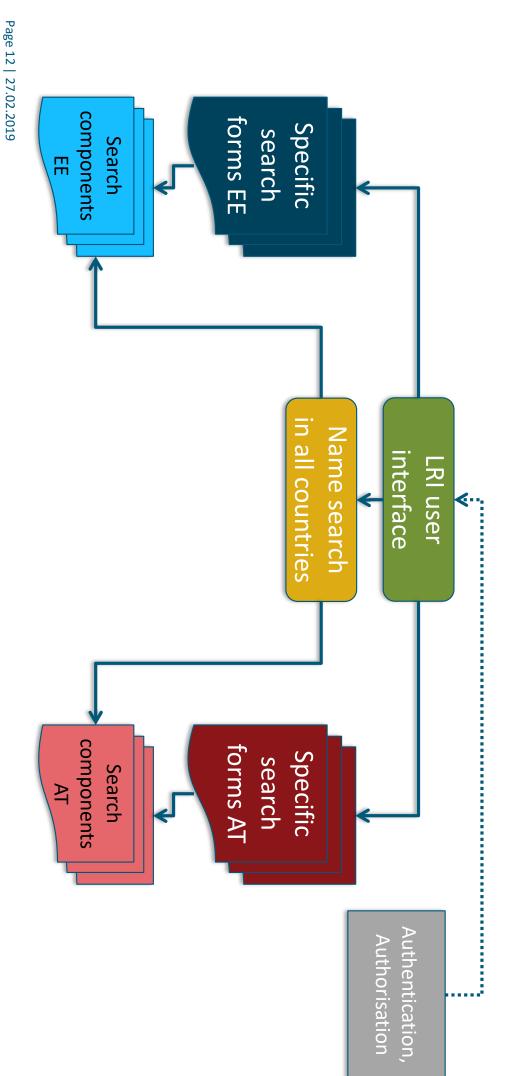
# Authentication and authorisation of public official using national IdP



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## **Major issues identified**

- WP2:
- only quite few common fields for search in all countries
- List of documents must display more attributes in order the user can do an informed selection of the right document(s)
- WP4
- elDAS currently cares only for authentication but not for authorisation.
- elDAS infrastructure in the Member States not yet fully operational
- Intermediate steps/circumventions are necessary before final solution
- LRI application at the European e-Justice Portal
- Payment module will not be available within time-frame of our project
- Integration of authentication/authorisation at LRI application side will not be available before the end of our project.



**Components to test** 

| Date of birth: | Sumame: | Middle names: | First name: | Person ID: | Search for: | This page allows you to search for properties in all connected countries<br>Property owner data | Search for properties (step 2 - All countries) | Land Registers Interconnection (LRI) | Home > Registers > Land registers > Land Registers Interconnection (LRI) | europa.eu | * DUROPEAN                                                                              |
|----------------|---------|---------------|-------------|------------|-------------|-------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------|
| vear:          |         |               |             |            | Company     |                                                                                                 |                                                |                                      | (LRI) Recent updates   Login                                             | Search    | Cookies   Legal notice   Spread the word   RSS   Your feedback   Sitemap   English (en) |

◀

Name search all countries

| Date of birth:                                                        | day: month: year:                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|
| Legitimate interest                                                   |                                                                      |
| Legitimate interest claimed (Required in Belgium, Austria, Italy) : ★ | n, Austria, Italy) : 🛪                                               |
|                                                                       | Legal/economic investigation on credit, insolvency or responsibility |
|                                                                       | Legal investigation on object, ownership or limitations              |
|                                                                       | Investigation for contracting or mediation of shares                 |
|                                                                       | The applicant is the registered owner                                |
|                                                                       | Other                                                                |
|                                                                       |                                                                      |

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#### **Selection menu** Search – **Country specific**

yet interconnected, you can find links to the respective registers on our "Land Registers in Member States" page. regional registers of all connected EU Member States. More registers will be added soon. If you are looking to access information or documents from registers not Welcome to the Land Registers Interconnection search engine of the European e-Justice Portal. This page allows you to search for properties in the national or

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This page allows you to search for properties in a specific country



#### **Country specific Search on Property-ID** (AUSTRIA)

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#### Terms and Conditions

Other

The applicant is the registered owner

 $\bigcirc$  Investigation for contracting or mediation of shares

 $\bigcirc$  Legal investigation on object, ownership or limitations

 $\bigcirc$  Legal/economic investigation on credit, insolvency or responsibility

Legitimate interest claimed: ★

I read, understood and agree to the terms of service, the disclaimer for this system, and the rules, limitations and conditions applicable to accessing data coming from the Land Registers Interconnection ★

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## **Funding opportunities**

- Call for proposals for action grants to support national or transnational e-Justice projects ID: JUST-JACC-EJU-AG-2019
- See:

focusAreaCode=null;crossCuttingPriorityCode=null;callCode=Default;sortQuery=openingDate;orderBy=asc;onlyTenders=false 2019;freeTextSearchKeyword=;typeCodes=1;statusCodes=31094501,31094502;programCode=JUST;programDivisionCode=null; https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/just-jacc-eju-ag

- Deadline: 13 June 2019 17:00:00 Brussels time
- Land Registers Interconnection (LRI) is explicitly mentioned
- Total budget of Call: 2,2 Million EUR
- Max. 90% funding
- AT/EE search for partners

1 Bundesministerium Verfassung, Reformen, Deregulierung und Justiz



Justice Programme of the European Funded by the Union

## **Upcoming conference in Tallinn**

## ",Land Registers Interconnected"

### May 9-10, 2019

Further details and registration soon at

www.lri-ms.eu



The photo: Rasmus Jurkatam



Bundesministerium Verfassung, Reformen, Deregulierung und Justiz



Funded by the Justice Programme of the European Union

# Expected participants of the conference:

- Representatives of National Land Registries
- ELRA members
- Notaries, CNUE members
- Next round member states
- Public authorities and court officials
- E-government specialists
- Anyone interested it is a public event!



The photo: Rasmus Jurkatam

Online registration will follow soon at www.lri-ms.eu Participation is free of charge.

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