

Sjef van Erp





- 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) <u>legal relations</u> between (b) a <u>subject</u> and a <u>substantial and</u> <u>relevant group of other subjects</u> 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 data (specificity)?
 - How to define 'facts', 'information' and 'data'?

• 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):

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



- Article 4(1) Data Protection Regulation:

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



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

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



- New legal subjects (1)
 - Persons in the 'real' world
 - Natural persons
 - Legal persons
 - Electronic personality: Robots (self-driving cars, computer trading)
 - Persons in a 'hybrid' or 'blended' reality

Maastricht University

• New legal subjects (2)

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

Maastricht University

• 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)

- Distance of data from a subject ('dispossession')

 Who can still perceive the difference between AI, a human being, an object or a subject?

- Example: The next <u>Rembrandt</u>



• 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
 - 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?
 - 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):
 - 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?
- Should a "land data passport" be introduced?

Prof. dr. J.H.M. (Sjef) van Erp Maastricht University <u>s.vanerp@maastrichtuniversity.nl</u> European Law Institute <u>vice-president.eli@univie.ac.at</u>

