Cadastral data as a pivotal component for evidence-based decision making

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Cadastral data in times of challenging societal issues

- Increasing need for and sharing of authoritative data
- Conflicting spatial demands for various societal issues
- Emergence evidence based planning, decision making, stakeholder participation, execution and monitoring
- The added value of cadastral data
Various issues compete for the same scarce space (I)

Thematic View

- Agriculture
- Infrastructures
- Housing
- Energy transition
- Climate adaptation
Various issues compete for the same scarce space (II)

Usage Layer
- High rate of change
- Changes usually take place within one generation (10-40 years)

Network Layer
- High investments
- Long term planning
- Changes take 20-80 years

Subsoil
- Long history and vulnerable
- Changes take centuries
Various issues compete for the same scarce space(III)

Area-oriented View

Corridor Amsterdam-Schiphol Airport
Reconstruction of the Netherlands

Political, national policies
Planning, Decision Making
Execution, Exploitation
provinces, municipalities
Stakeholders, Needs,
Participation
Agencies

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Complex world

Requires integrated decision making

Data foundation as shared base: connecting issues easily accessible

Coherence, Monitoring Policy objectives

Orientation → Feasibility → Execution → Exploitation

Trust Framework, Standards, Services

Data Foundation

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Information from public sources

- Fiscal value €285,000
- Sales price 1-7-1998 €230,000
- Parcel Arnhem C4231 230m²
- Energy efficiency label C
- Volume building 450m³
- Monument
- Right of way
- Highstreet 15d
- Preferential Right Municipality
- Urban area 6m above sea level
- Mr. Jan de Jong 15-05-1956
- Zoning plan
- Mortgage RABO-bank €230,000
- Cadastral Data
  Data provided through Kadaster
Pivotal role of cadastral data; role of the cadastre

Policy makers, stakeholders and users need coherent, comprehensive information in all phases of the process; cadastral data are essential element

Cadastral data are part of a federated data ecosystem
In complex situations insight in rights, restrictions and responsibilities is essential and sometimes the key to success in finding a solution
Data policies related to a data ecosystem

Accessible  Re-usable
Findable    Interoperable

FAIR

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<thead>
<tr>
<th>Property</th>
<th>Description</th>
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<tbody>
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<td>Findable</td>
<td>OK</td>
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| Accessible        | API’s, Data at the source  
cadastral parcels HVD (open); LR: open access |
| Interoperable     | Semantics, Currency                                                        |
| Re-usable         | Partly                                                                     |

**Metadata**  
**Semantic Interoperability**  
**European Data Policies**  
data governance act, data act, open data directive  

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Concluding remarks

• Cadastral data are pivotal for solving current issues
• Cadastral are part of a federated data foundation
• Users need and expect a coherent and comprehensive data foundation: this requires cadastres to team up with other agencies and stakeholders