Rethinking Infrastructure within Denmark’s Real Property Data Reform

Essentials of the Danish Real Property Data Program

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FIG Working Week 2016

CHRISTCHURCH, NEW ZEALAND 2–6 MAY 2016

Recovery from disaster

Agency for Data Supply and Efficiency
Growing demand on real property information
The Danish Real Property Data Program reforms 4 legacy register silos

- **Valuation ID**: Municipal Real Property Register (1970)
- **Valuation ID**: Building Cadastre (1977)
- **Cadastre ID**: Land Cadastre (1986)
- **Land Registry ID**: Land Registry (2000)
The challenge of digitising across institutional traditions

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Rethinking work processes across institutions: Abandon duplication of work

AS IS:

TO BE:
AS IS: Three independent data models used for the registrations real property information
We introduce a new common unique and stable real property identifier: ”BFE-number”

BFE-number

Early and distinctive registration of real property bodies in the Land Cadastre

Used everywhere

Property ownership Register

Building Cadastre

Property Taxation

Land Cadastre

Land Registry

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Rethinking terminologies and data models: New joint data model based on well-defined terminology and common keys
AS IS: Users’ access property data via various datawarehouses
Rethinking data distribution:
Joint data distribution based on Event and Service Driven IT-system Architecture
The real property data infrastructure facilitates integrations for public and private sector enterprises.
Benefits of the Danish Real Property Data Program

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<thead>
<tr>
<th>Cost effective work processes at both central and local government bodies</th>
<th>As-Is</th>
<th>To-Be</th>
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<tbody>
<tr>
<td>Cost savings on development and maintenance of &quot;shadow&quot; registers</td>
<td><img src="image1.png" alt="Diagram" /></td>
<td><img src="image2.png" alt="Diagram" /></td>
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<td>Data quality improvements:</td>
<td><img src="image3.png" alt="Diagram" /></td>
<td><img src="image4.png" alt="Diagram" /></td>
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<tr>
<td>- Unique identification of all real property objects</td>
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<td>- Consistent terminology</td>
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<td>- Data cleansing</td>
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</tbody>
</table>
# 12

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<table>
<thead>
<tr>
<th>Time schedule</th>
<th>2016</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td>Land Cadastre</td>
<td>Developments and internal tests</td>
<td>Implementations</td>
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<tr>
<td>Building Cadastre</td>
<td>Interface tests</td>
<td></td>
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<tr>
<td>Ownership Register</td>
<td>Integration tests</td>
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<tr>
<td>Land Register</td>
<td>Users' tests</td>
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