

*Presented at the FIG Working Week 2016,
May 2-6, 2016 in Christchurch, New Zealand*

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



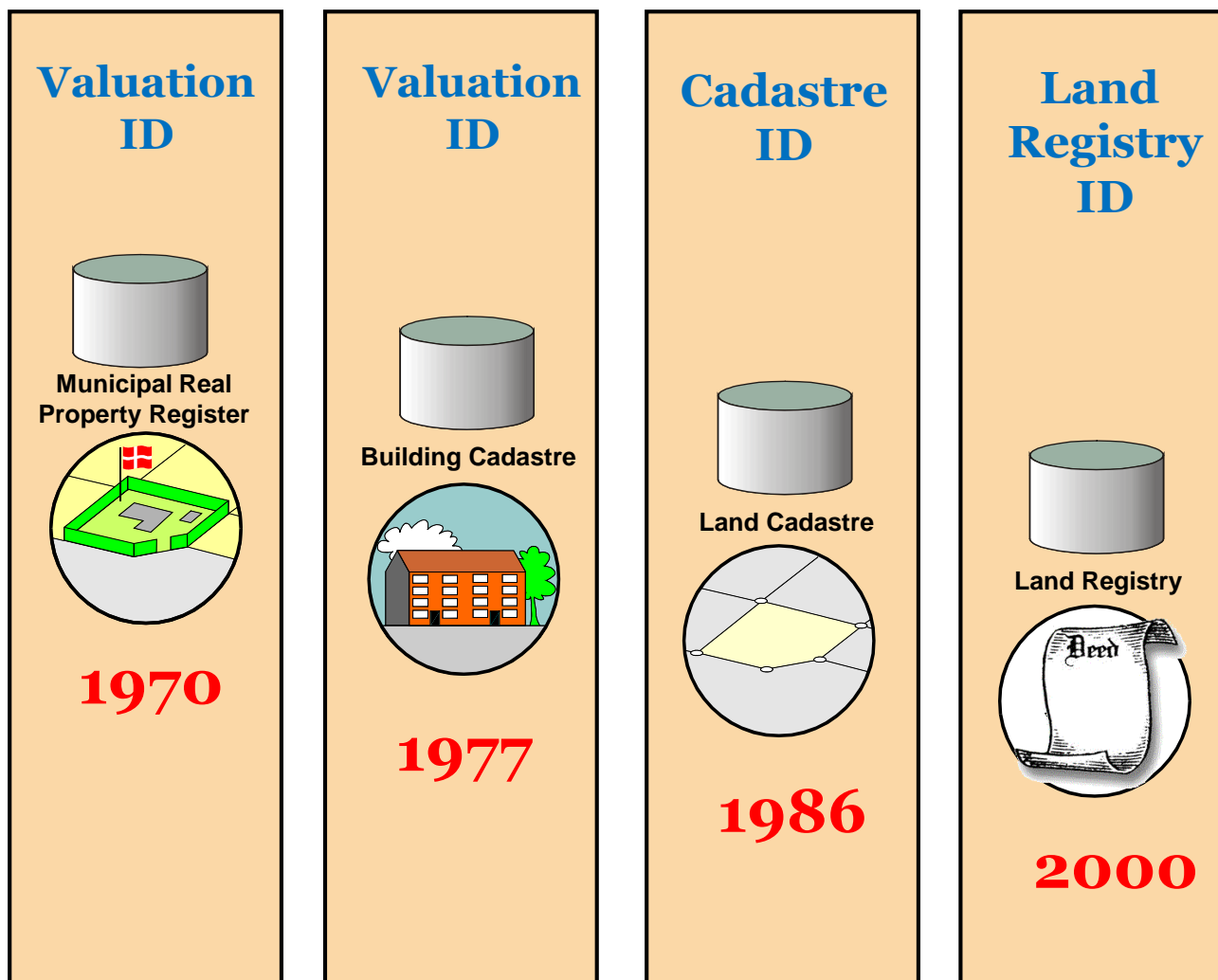
Agency for
Data Supply and
Efficiency

Danish Real Property Data Program

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The Danish Real Property Data Program reforms 4 legacy register silos



The challenge of digitising across institutional traditions

Land Cadastre

Business processes
Terminology/data model
Data
Technology

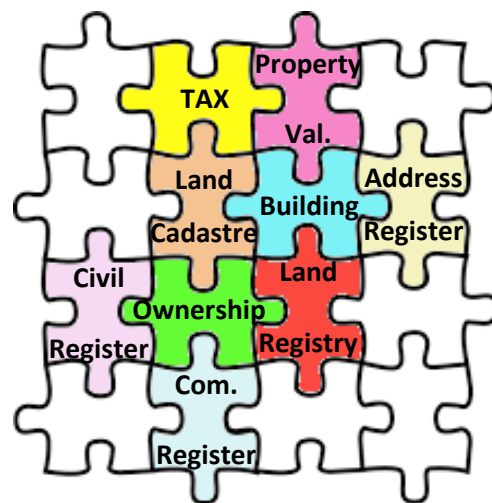
Building Cadastre

Business processes
Terminology/data model
Data
Technology

Land Cadastre

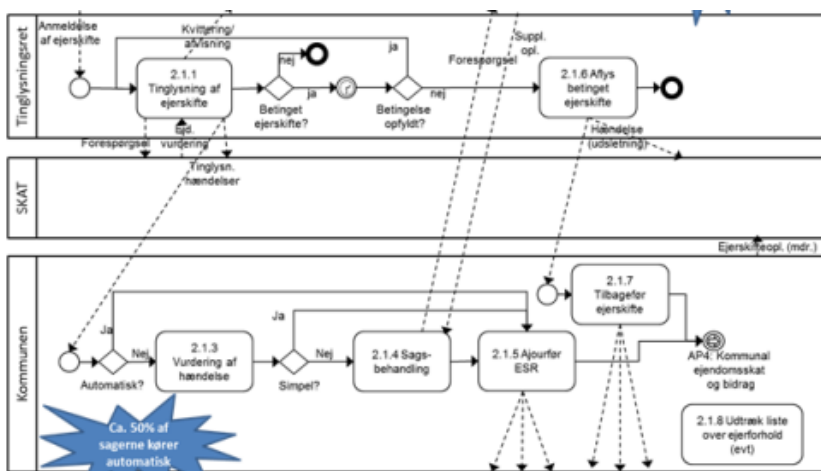
Rethinking processes across insitutions
Joint data model
Data improvements
Joint data distribution

Building Cadastre

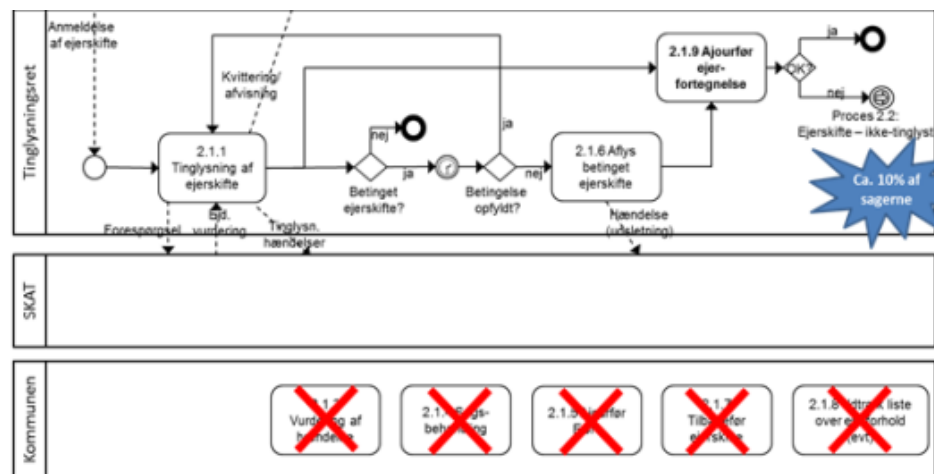


Rethinking work processes across institutions: Abandon duplication of work

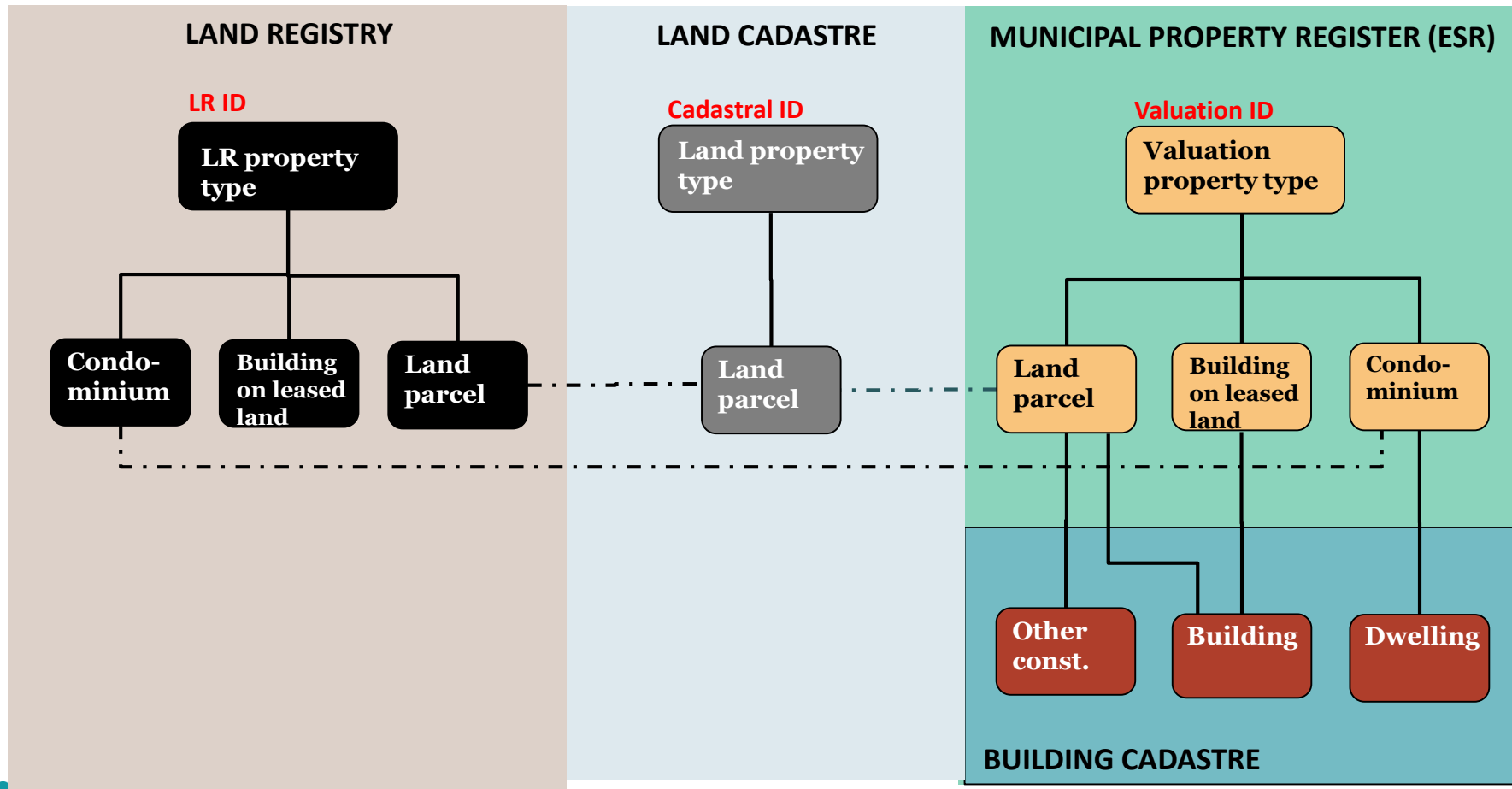
AS IS:



TO BE:



AS IS: Three independent data models used for the registrations real property information

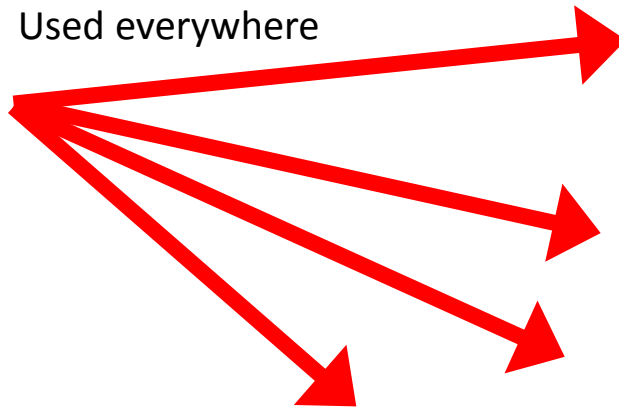


We introduce a new common unique and stable real property identifier: "BFE-number"

BFE-number



Used everywhere



Property ownership Register



Building Cadastre



Property Taxation



Land Registry

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



Land Cadastre



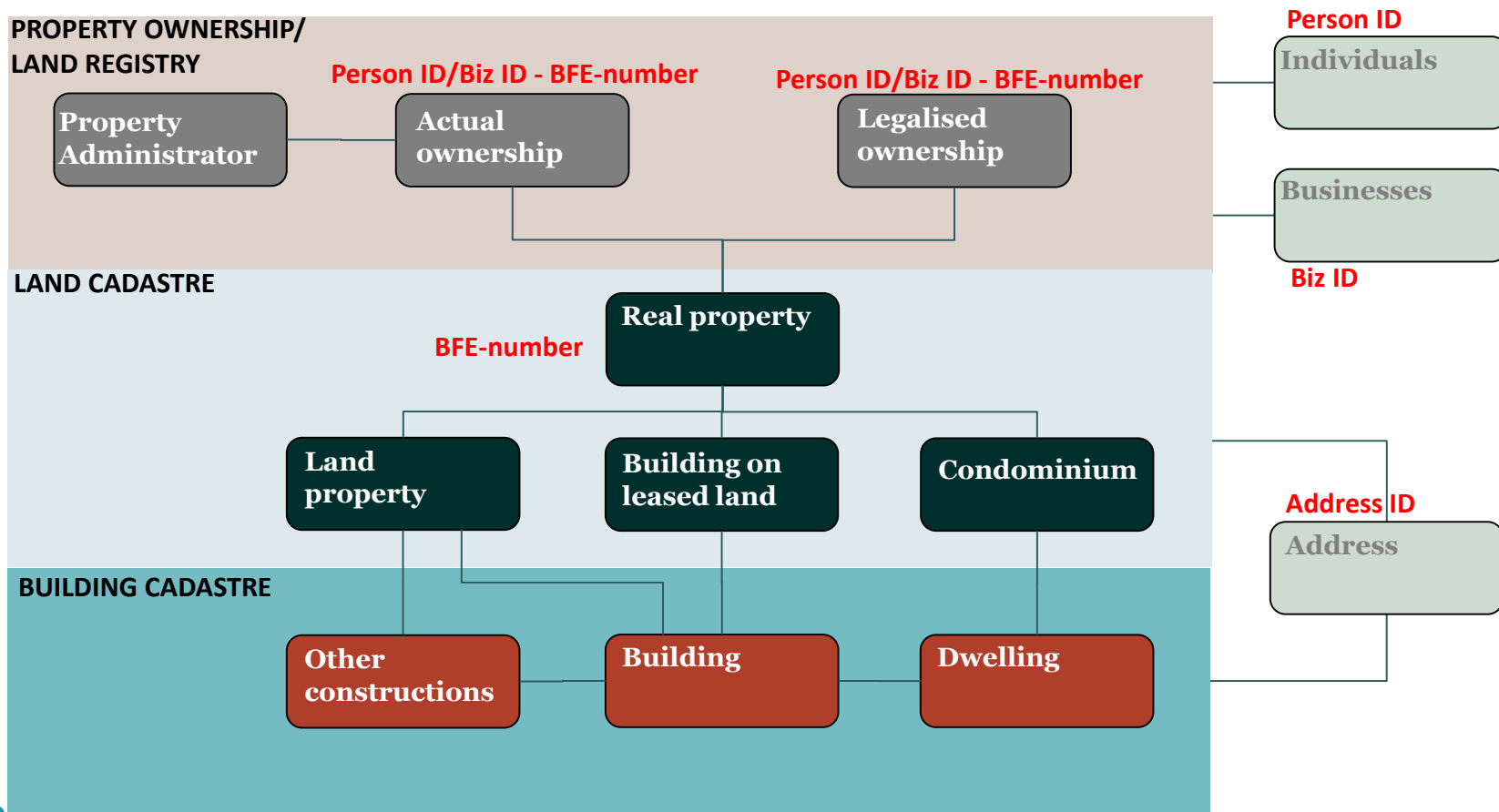
Agency for Data Supply and Efficiency

Danish Real Property Data Program

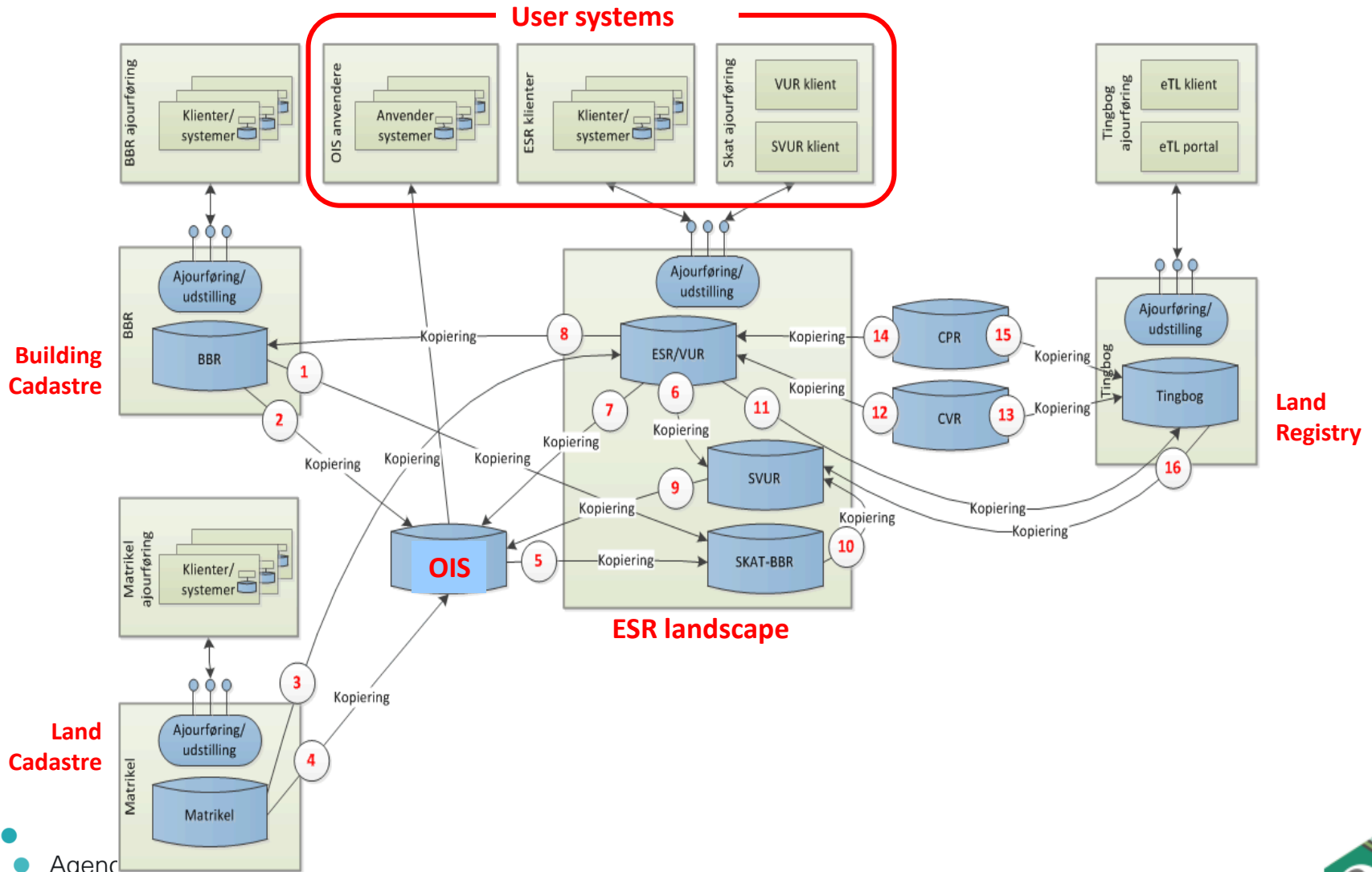
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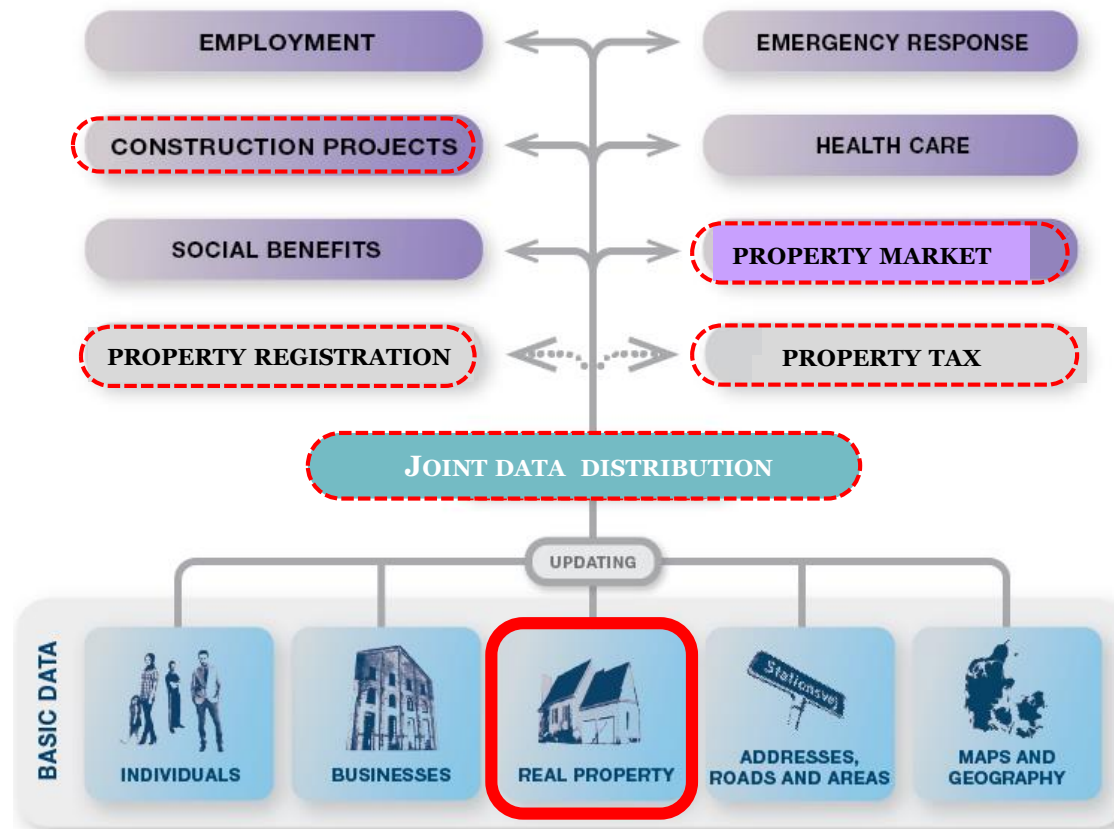
Rethinking terminologies and data models: New joint data model based on well-defined terminology and common keys



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

Real Property Data Infrastructure

User's data infrastructure

Processes: Property Registration	Ajustments of processor and IT-applications
Joint Data Model	Adoption of joint Data Model
Joint Data Distribution	Adjust IT-systems for using Joint Data Distribution



Danish Real Property Data Program

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Benefits of the Danish Real Property Data Program

<p>Cost effective work processes at both central and local government bodies</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>As-Is</p> </div> <div style="text-align: center;"> <p>To-Be</p> </div> </div>
<p>Cost savings on development and maintenance of "shadow" registers</p>	
<p>Data quality improvements:</p> <ul style="list-style-type: none"> - Unique identification of all real property objects - Consistent terminology - Data cleansing 	



THANK YOU FOR YOUR ATTENTION

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Time schedule	2016												2017				
	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	jan	feb	mar	apr	may
Land Cadastre Building Cadastre Owershup Register Land Register	Developments and internal tests			Interface tests			Integration tests			Users' tests			Implementations				

In operation

