



# Prevention of fraud in cadastral registrations and in registrations of rights at the Land Book, Denmark, by use of unambiguous identification of persons

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## Registration of persons in Denmark

- Central Persons Register (CPR)
  - All persons – CPR number (ddmmyy-xxxx)
  - Given at birth or by application (foreigners)
- Citizens Register
  - Obligatory to register residential address
  - Information maintained at Local Authorities



## Digital signatures in Denmark

- Based on OCES certificates - Introduced in 2004
- Private persons and companies (company and employees)
- Old version 2004:
  - installed on a specific computer
  - based on CPR-no. and owner-selected password
- New version 2010:
  - NemID – a 'to go' solution
  - based on CPR-no., owner-selected password and a code-card

NEM ID  
www.nemid.nu

Bruger-id  ?

Cpr-nr., NemID-nr. eller  
selvvalgt bruger-id

Adgangskode  ?

Næste

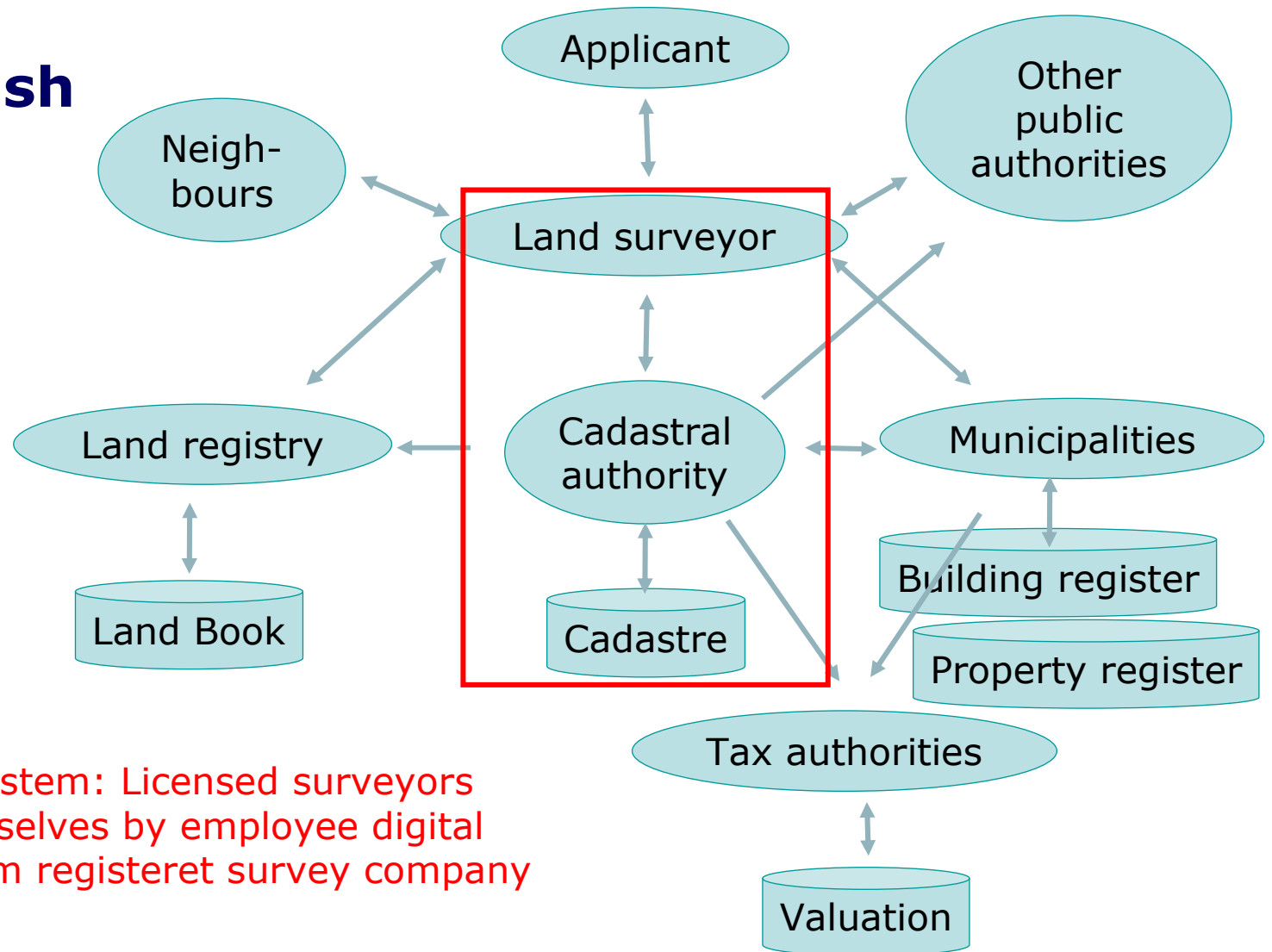


## Digital signatures in use

- Digital signatures are used for communication with
  - the private sector (banks, insurance companies, ..)
  - the public sector (tax, social allowances, property registration, ...)
- More than 2 million Danes use NemID for contact with public services (eg. tax) (Population 5 mill.)
- Figures:
  - Use of common public log-in service in December 2010:
    - 302.704 log-ins with Digital Signatur
    - 623.702 log-ins with NemID



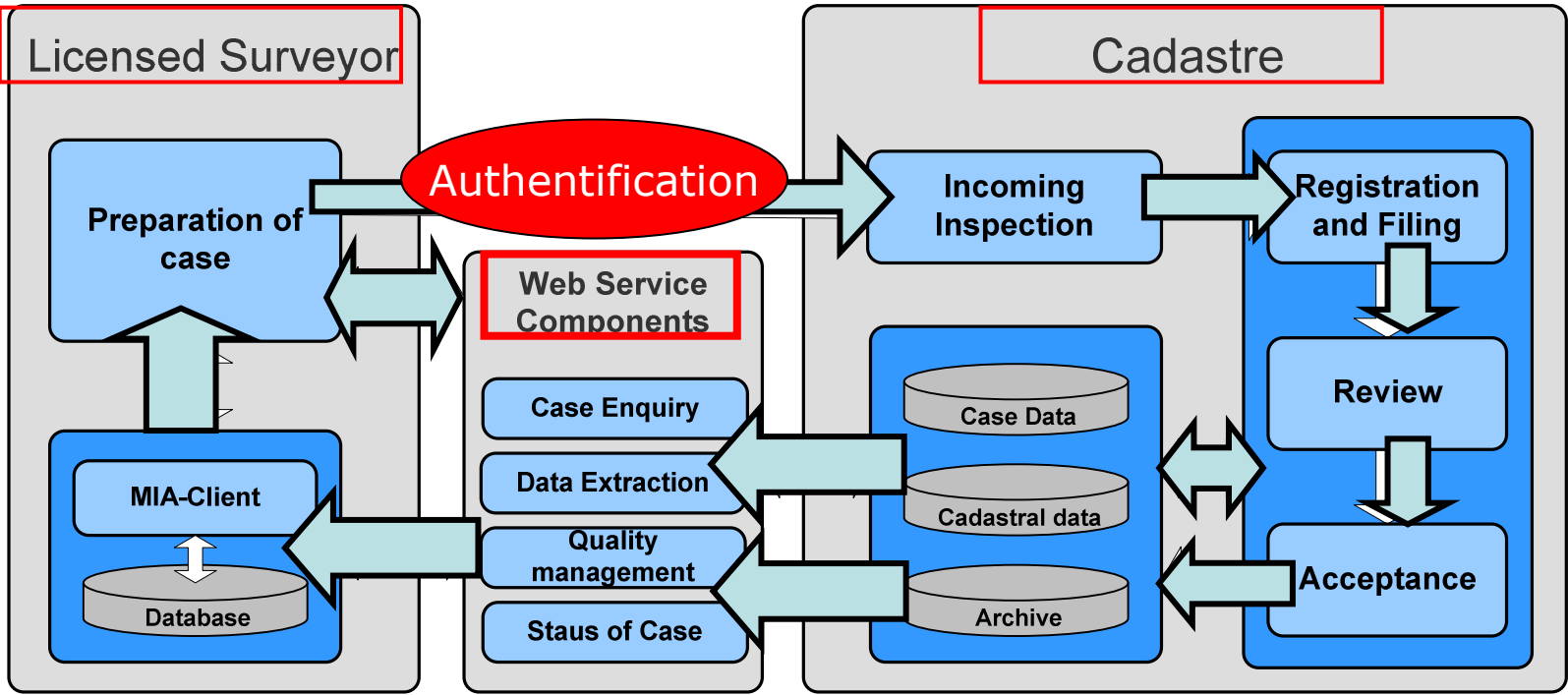
# The danish context



System-to-system: Licensed surveyors identify themselves by employee digital signature from registeret survey company

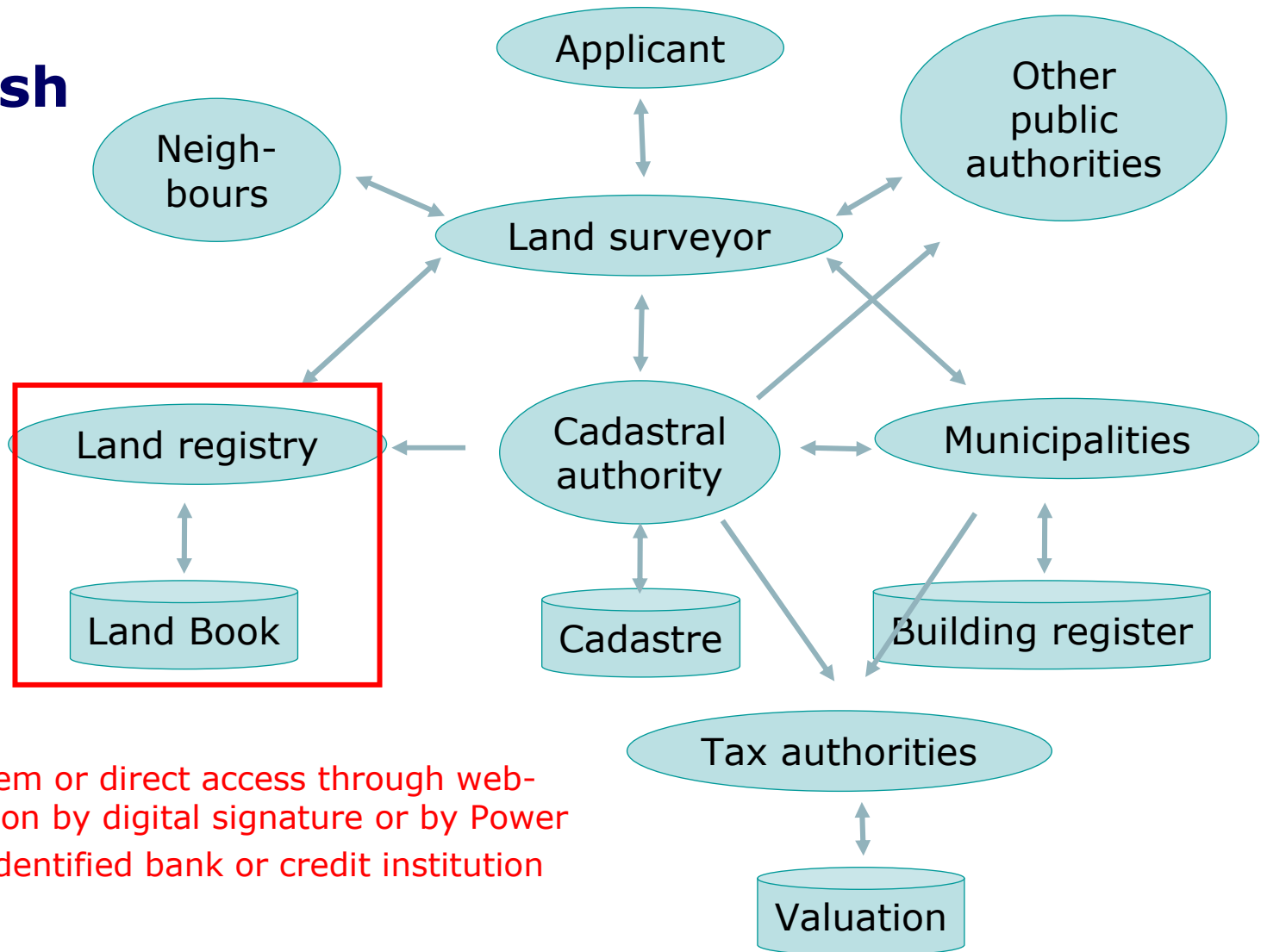


# Streamlined dataflow





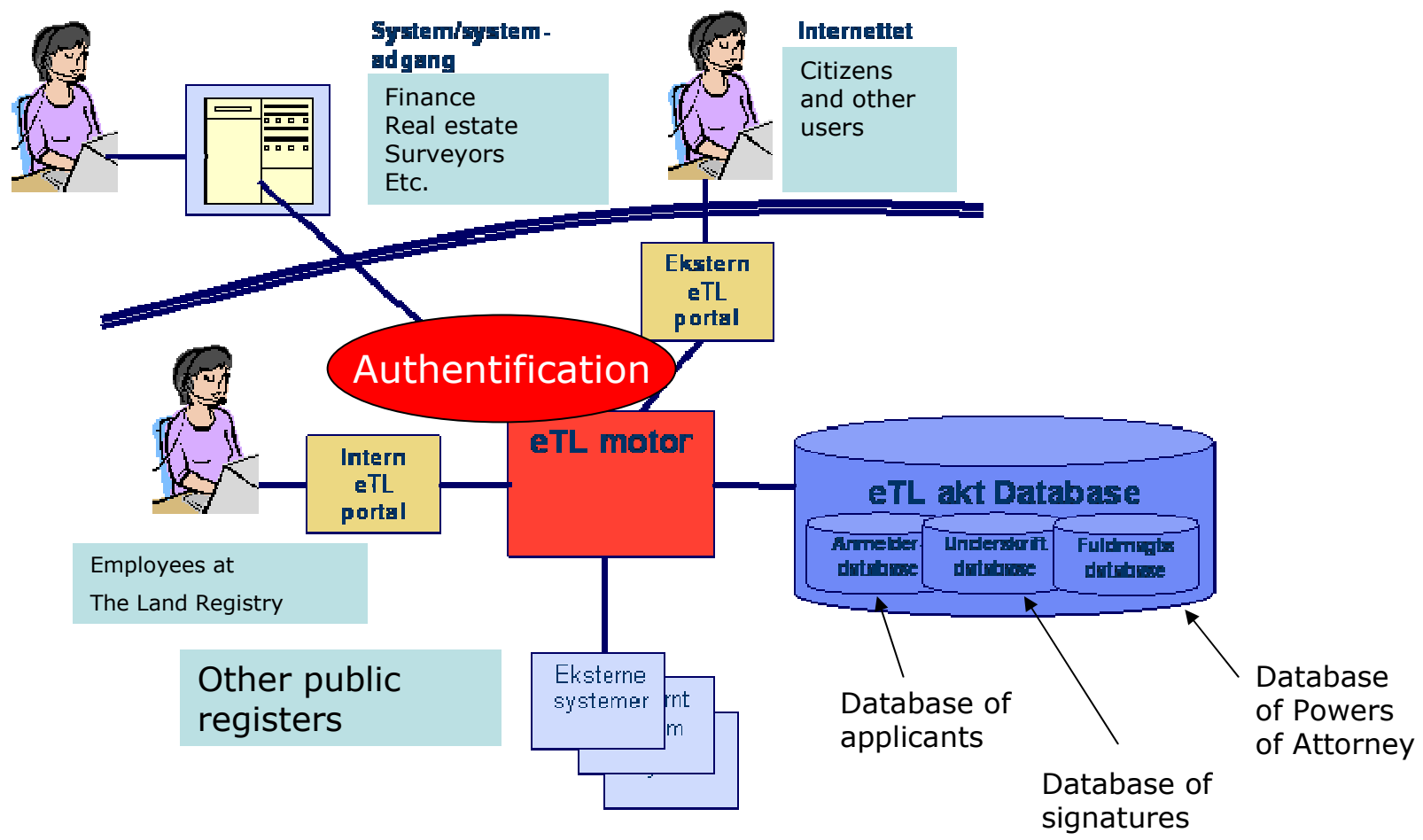
# The danish context



System-to-system or direct access through website: Identification by digital signature or by Power of Attorney to identified bank or credit institution



# e-registration system







## Access to information

- Cadastre – Available through internet
  - Open for public inspection
  - Cadastral map data due to payment of fee and restrictions on use
- Land Book – Available through internet
  - Open for public inspection
  - Access due to payment of fee except for own property



## Problems with fraud?

- Not encountered yet
- Not either with introduction of digital services

