Boosting the discoverability of Danish Basic Data

Presentation at the Eurogeographics-EuroSDR workshop on Geodata Discoverability

January 16th, 2024

Agency for Data Supply and Infrastructure
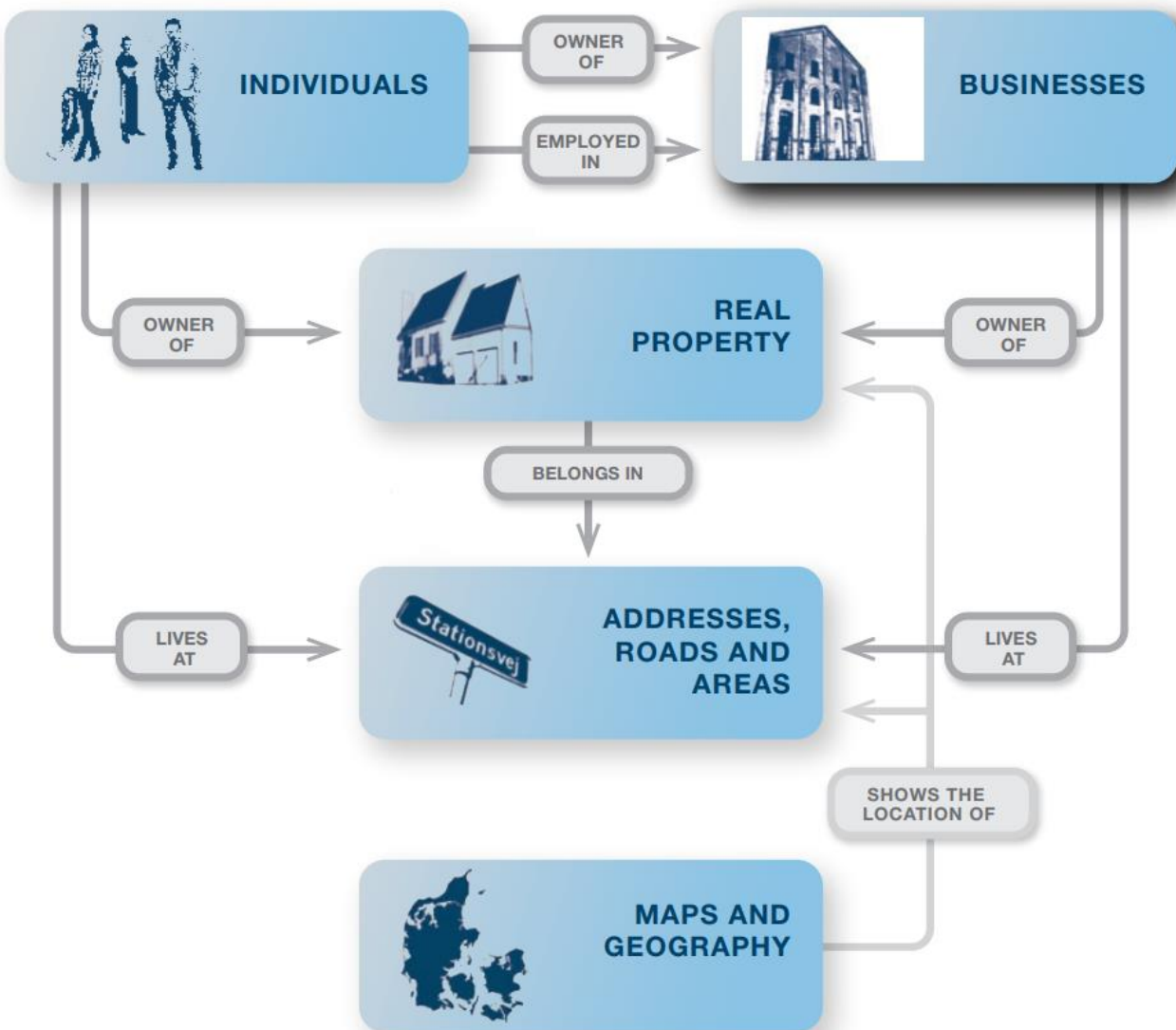
Who are we?

The Danish Agency for Data Supply and Infrastructure supplies the public and private sectors with high-quality data which, together with an robust infrastructure, provides the best possible foundation on which to make important societal decisions and to create digital solutions.

Agenda

- The Danish Basic Data Program

- The Basic Data Model

- The Basic Data of the future

- Two ongoing initiatives
  - Improving the data model
  - Data declarations

Danish Basic Data

- Contains core information about
  - Individuals
  - Businesses
  - Real properties
  - Buildings
  - Addresses
  - Geography

- Is used and re-used across the public and private sector

- Consists of high quality data which forms the data foundation for efficient public administration

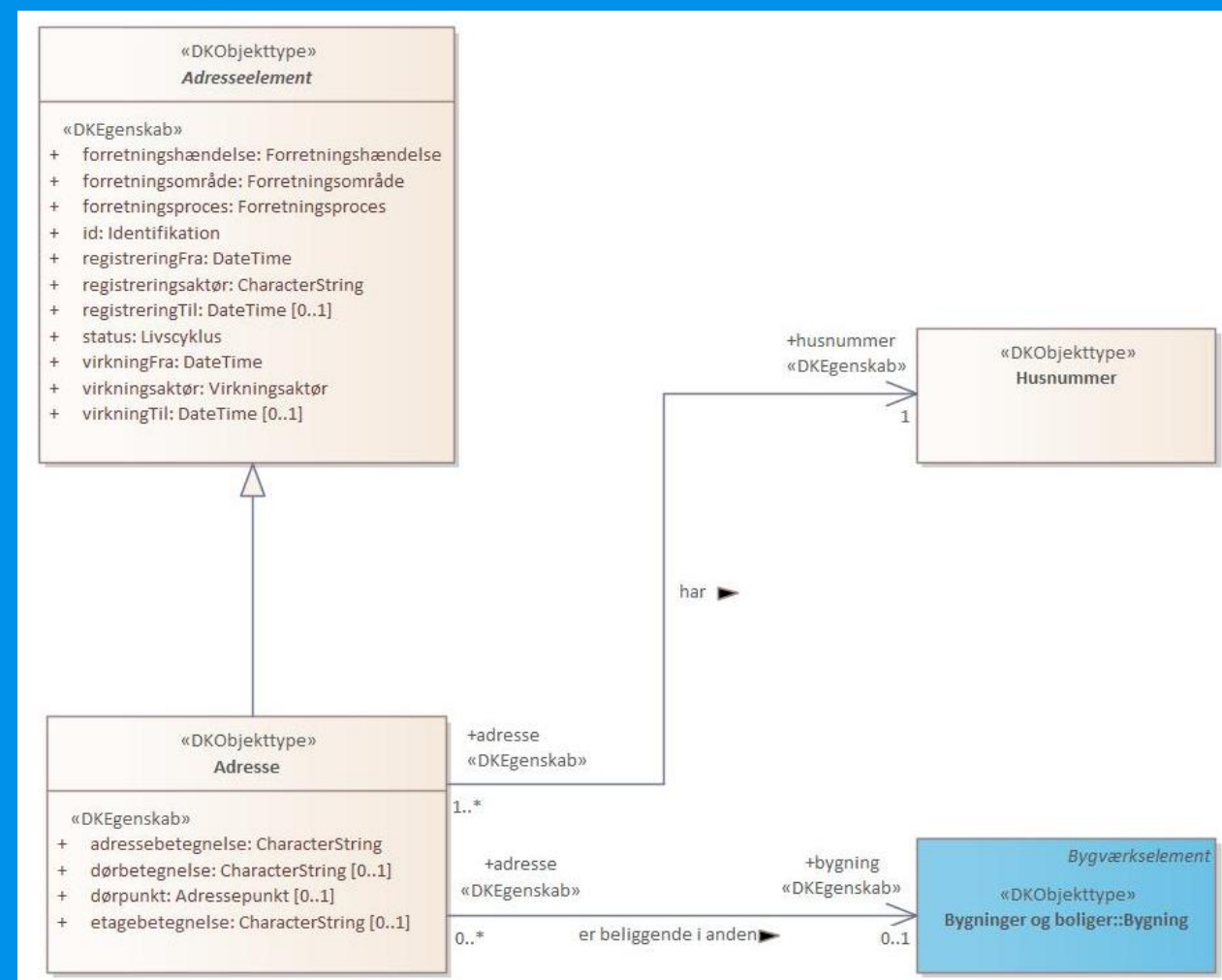Agency for Data Supply and Infrastructure

The Basic Data program

- Initiated by the Danish Government, Danish municipalities and Danish Regions

- Started in 2011, fully operable since 2020

- The program aims to
  - Secure free, fast and reliable access to Basic Data
  - Secure high quality and coherent Basic Data that is updated and distributed on one central platform
  - Contribute to increase the degree of effectiveness, modernisation and quality of public administration
  - Contribute to increase innovation, growth and job creation
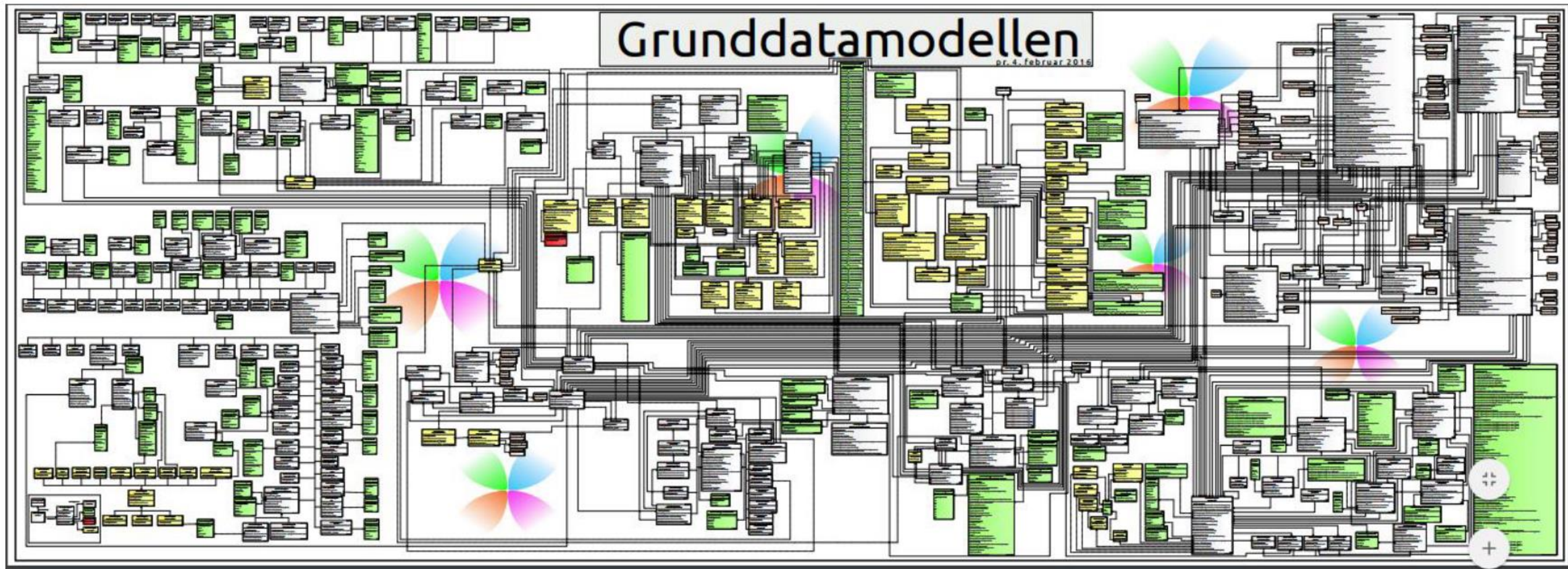 - Contribute to lowering costs of data
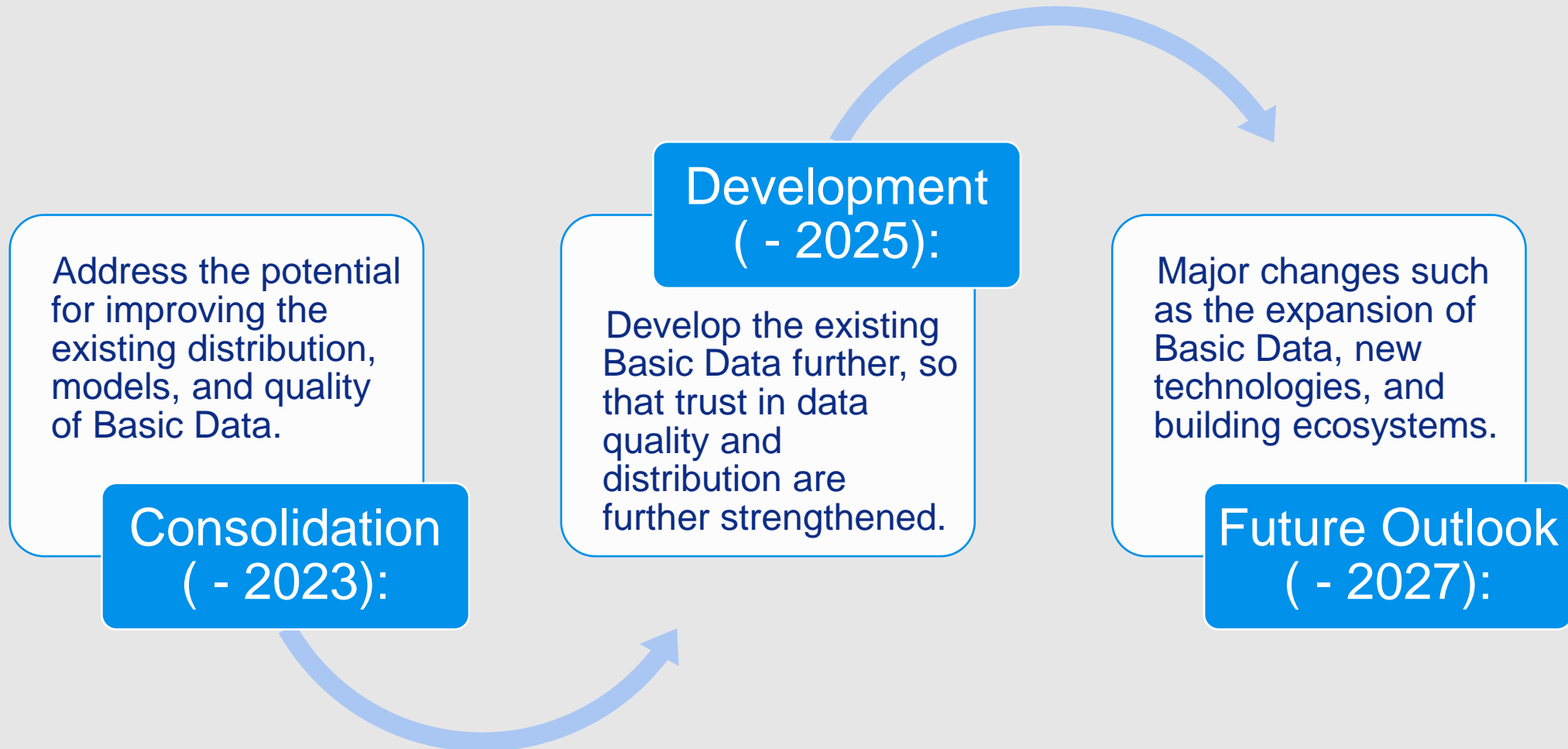
The Basic Data Model

- The authorities responsible for the Basic Data program have collaboratively created one unified and coherent data model for all Basic Data.

- The Basic Data Model is composed of domain models that describe the individual basic data registers.

- The data model can be used to:
  - get an overview of Basic Data and the information it contains
  - see how Basic Data is connected across the registers

The collective Basic Data Model in its entirety ...

Grunddatamodellen
pr. 4. februar 2016

The Basic Data of the future (anno 2021)

Consolidation (- 2023):
Address the potential for improving the existing distribution, models, and quality of Basic Data.

Development (- 2025):
Develop the existing Basic Data further, so that trust in data quality and distribution are further strengthened.

Future Outlook (- 2027):
Major changes such as the expansion of Basic Data, new technologies, and building ecosystems.

Identifying user needs and user journeys

Existing documentation

- Too technical for potential new users

- Exploration > Discoverability

- Services > Data

➢ What data is available?

➢ Where can I find data?

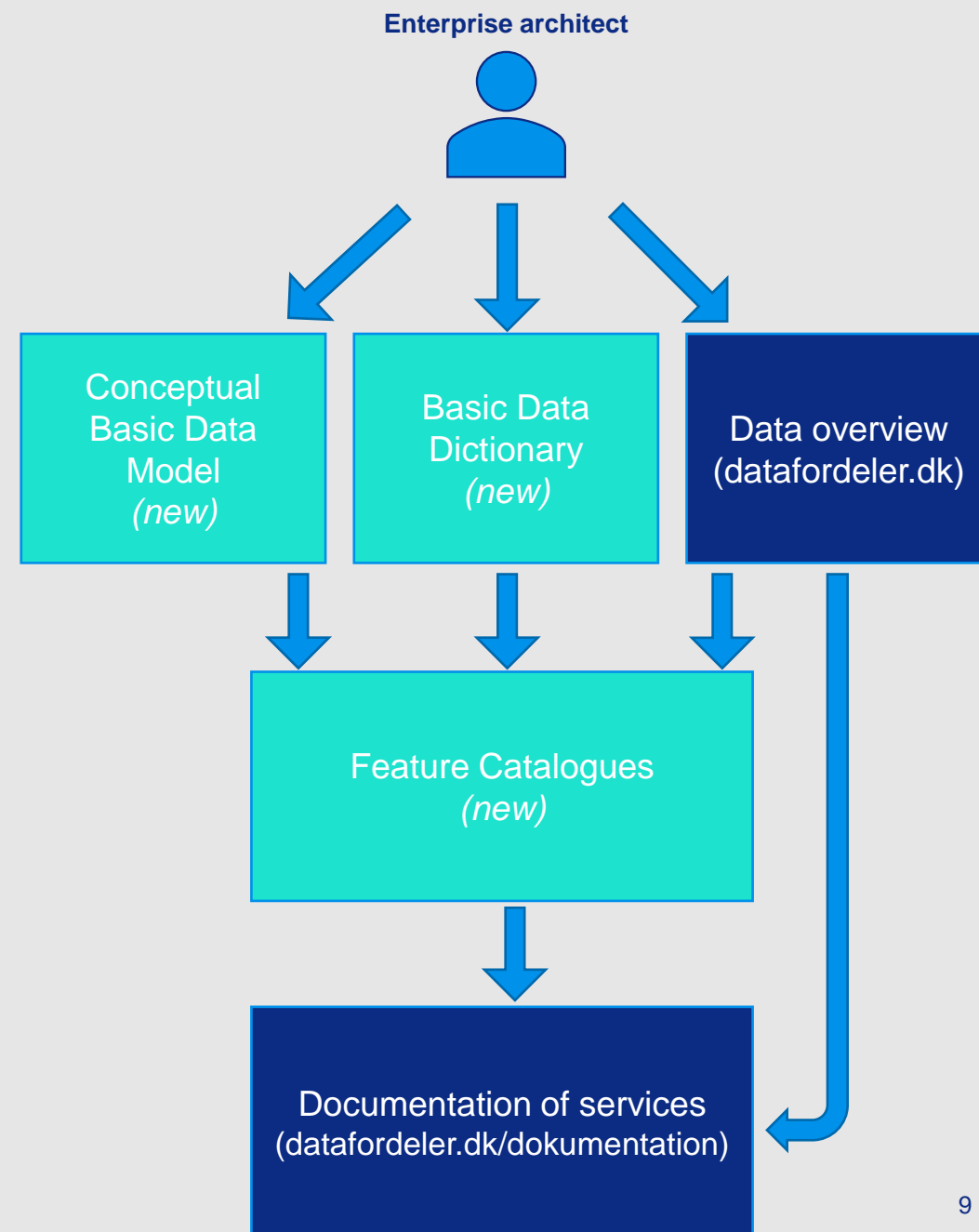➢ How reliable is the data?

➢ What can data be used for?

Initiative 1
An improved data model

- Re-using existing documentation

- Enabling new user journeys via the data distribution platform

- Ensuring multiple entries to ultimately reach the desired data

Discovering and accessing data using the data models

Users can search for definitions and examples using the Basic Data dictionary, containing terms and descriptions derived from the Basic Data Model.

- Basic Data Dictionary (datafordeler.dk)

The Basic Data model is displayed as a feature catalogue, containing definitions, diagrams and descriptions of the object types, their attributes and the associated components occurring in one or more datasets.

- Basic Data Feature Catalogue (datafordeler.dk)

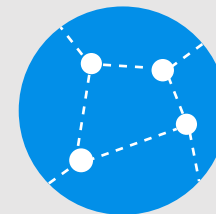Agency for Data Supply and Infrastructure

Property appraisal

Business unit

Person

Cadaster

Registered owner

Business in tax administration

Buildings and housing

Address

Place name

Topography

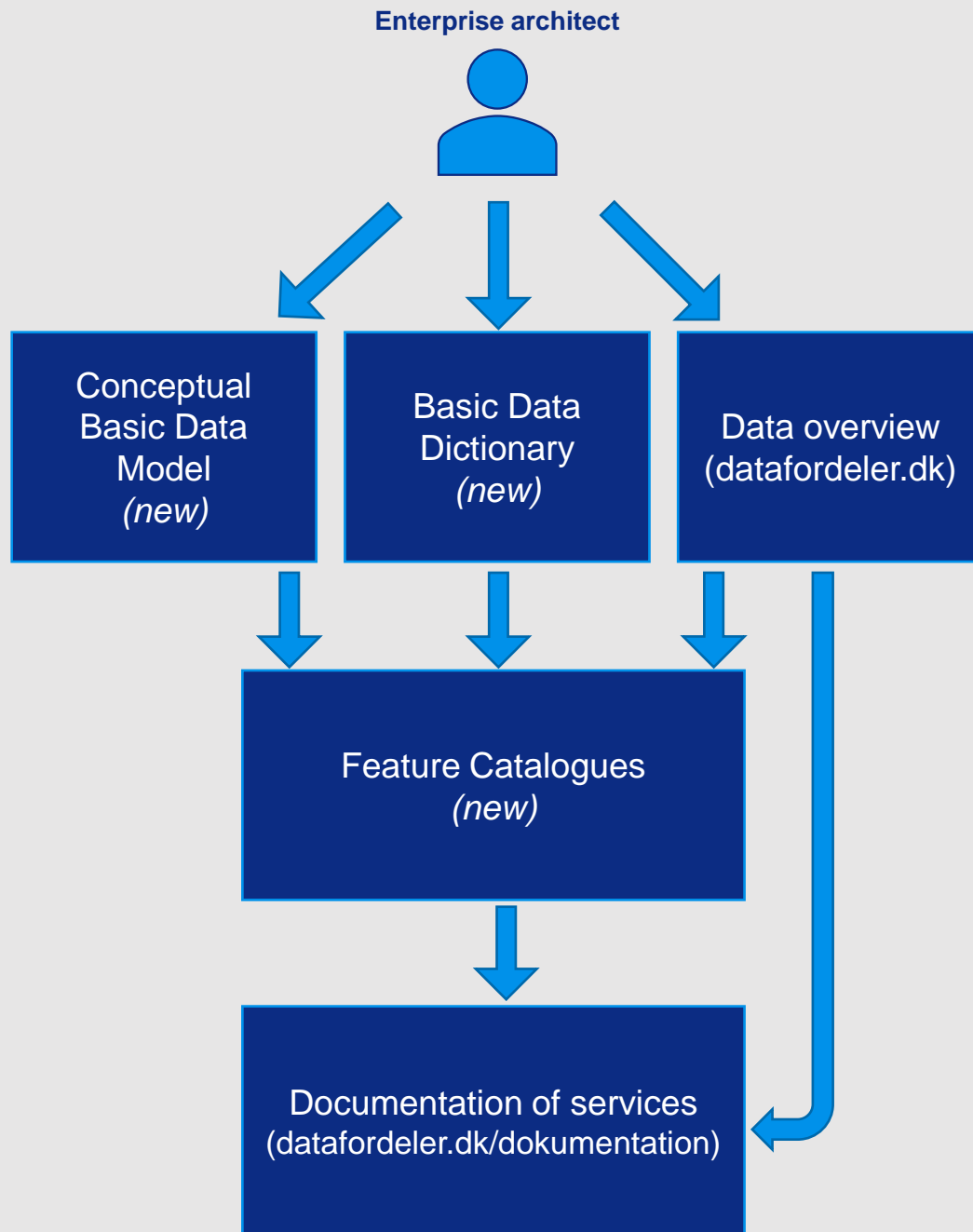Location of property

Administrative unit

Initiative 2
Basic Data Declarations

- Create a concise and discoverable overview

- Reach potential <u>and</u> experienced users

- Emphasize and shed light on data quality

  - Most important elements:
    - Short description (incl. purpose)
    - Content
    - Lineage
    - Maintenance
    - Data quality
      - Quality control methods
      - Measured data quality
    - What you need to be aware of!

Enterprise architect

Conceptual Basic Data Model *(new)*

Basic Data Dictionary *(new)*

Data overview (datafordeler.dk)

Feature Catalogues *(new)*

Documentation of services (datafordeler.dk/dokumentation)

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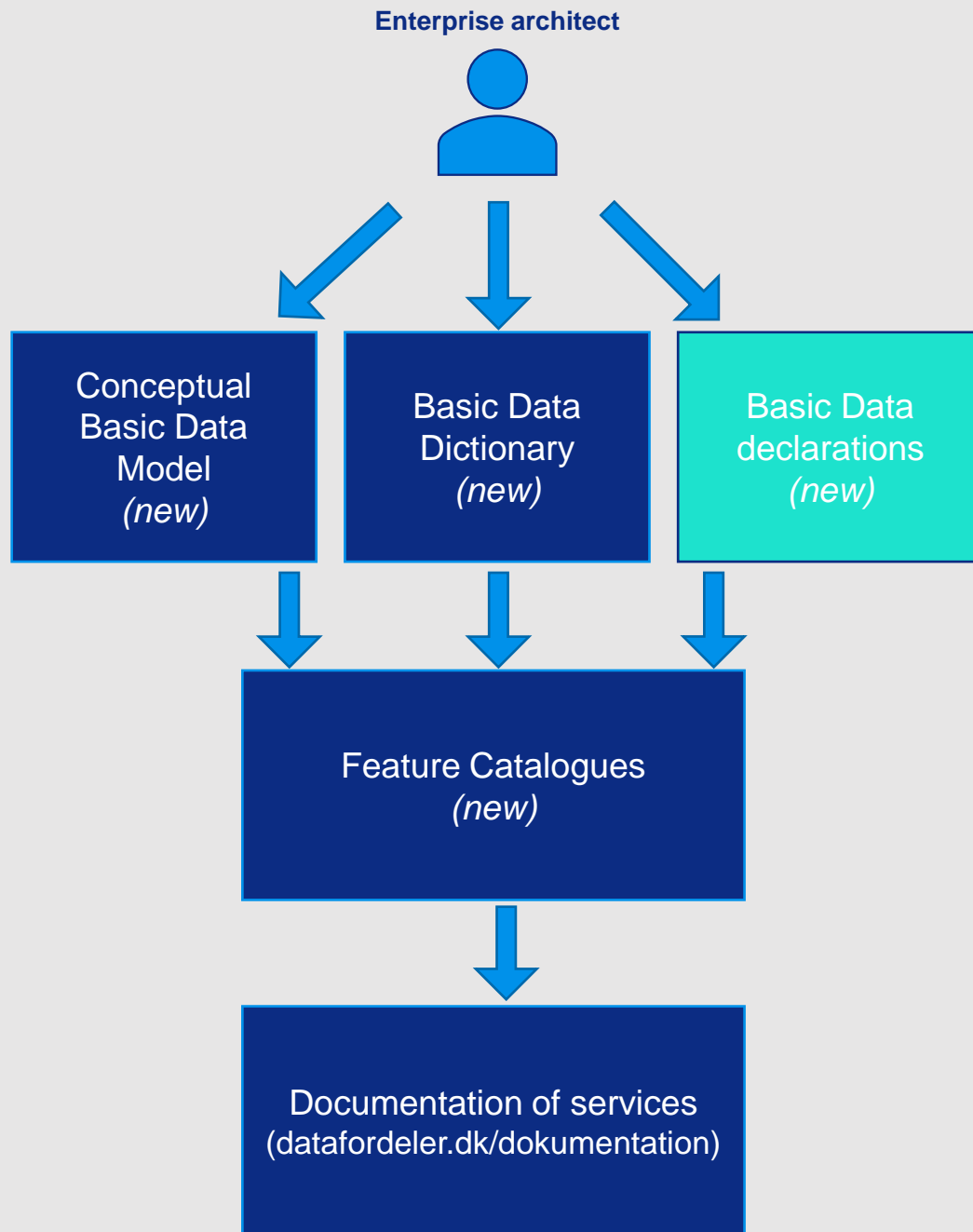   - Measured data quality
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Enterprise architect

| Conceptual Basic Data Model *(new)* | Basic Data Dictionary *(new)* | Basic Data declarations *(new)* |

Feature Catalogues *(new)*

Documentation of services (datafordeler.dk/dokumentation)

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