

Data in 3 Levels

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Agency for Data Supply
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Who are we?

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Setting the scene

- A data quality project
- Prioritizing use of resources
- New metadata system
- Based on international standards
- Only on data product level
- All SDFI product **shall** be in this concept and classified in three levels

Introduction – the three product levels

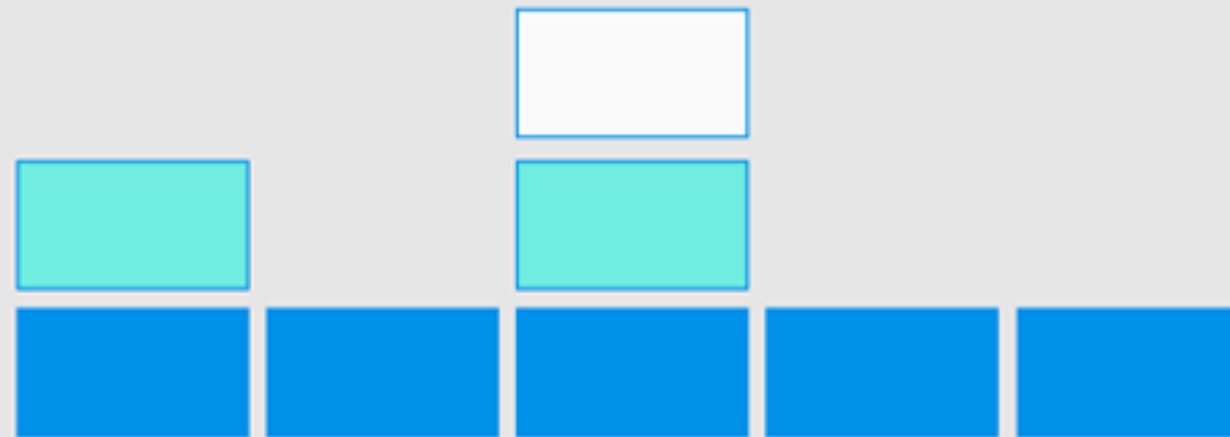
All SDFI data products must be specified and distributed at a solid base level.

For some community / business critical data products, there are additional requirements.

Exceptional

Special

Basic



Introduction – the three product levels

Exceptional

Special

Basic



B
a
s
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- Description of data product
- Description of lineage, quality and update frequency
- Operation and support information available

S
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- Basic
- Dataset and data product spec. available
- Datamodel and use case available
- The data product fulfil special requirement relative to distribution and quality

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- Basic, Special
- Conceptual model and guidance document available
- The data product fulfil exceptional requirement relative to distribution and quality

How to obtain the data product classification?

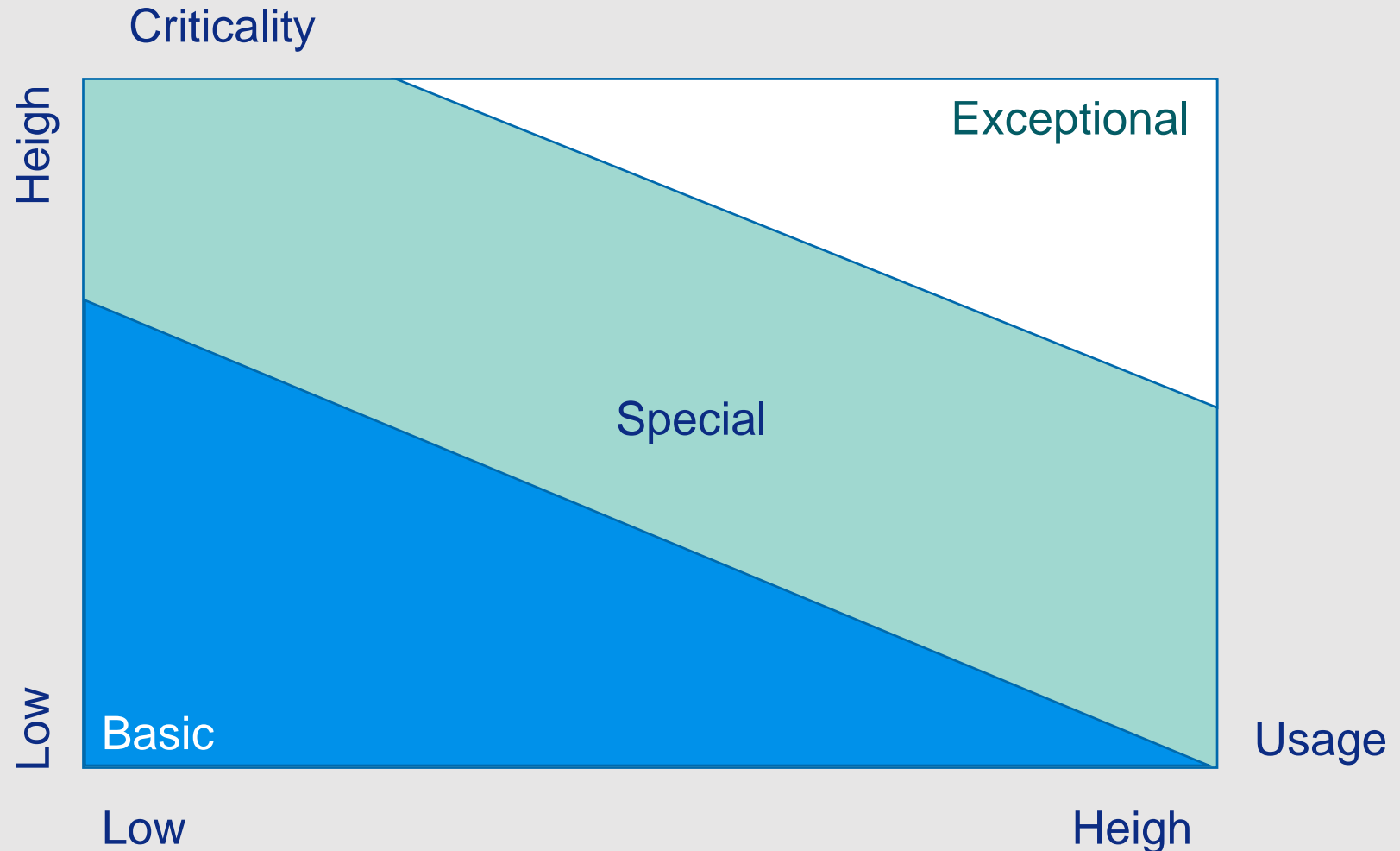
The classification matrix

Criticality

- Political (high political focus, e.g. climate agenda)
- Legal (public administration)
- Strategic (overall objectives, contractually bound)

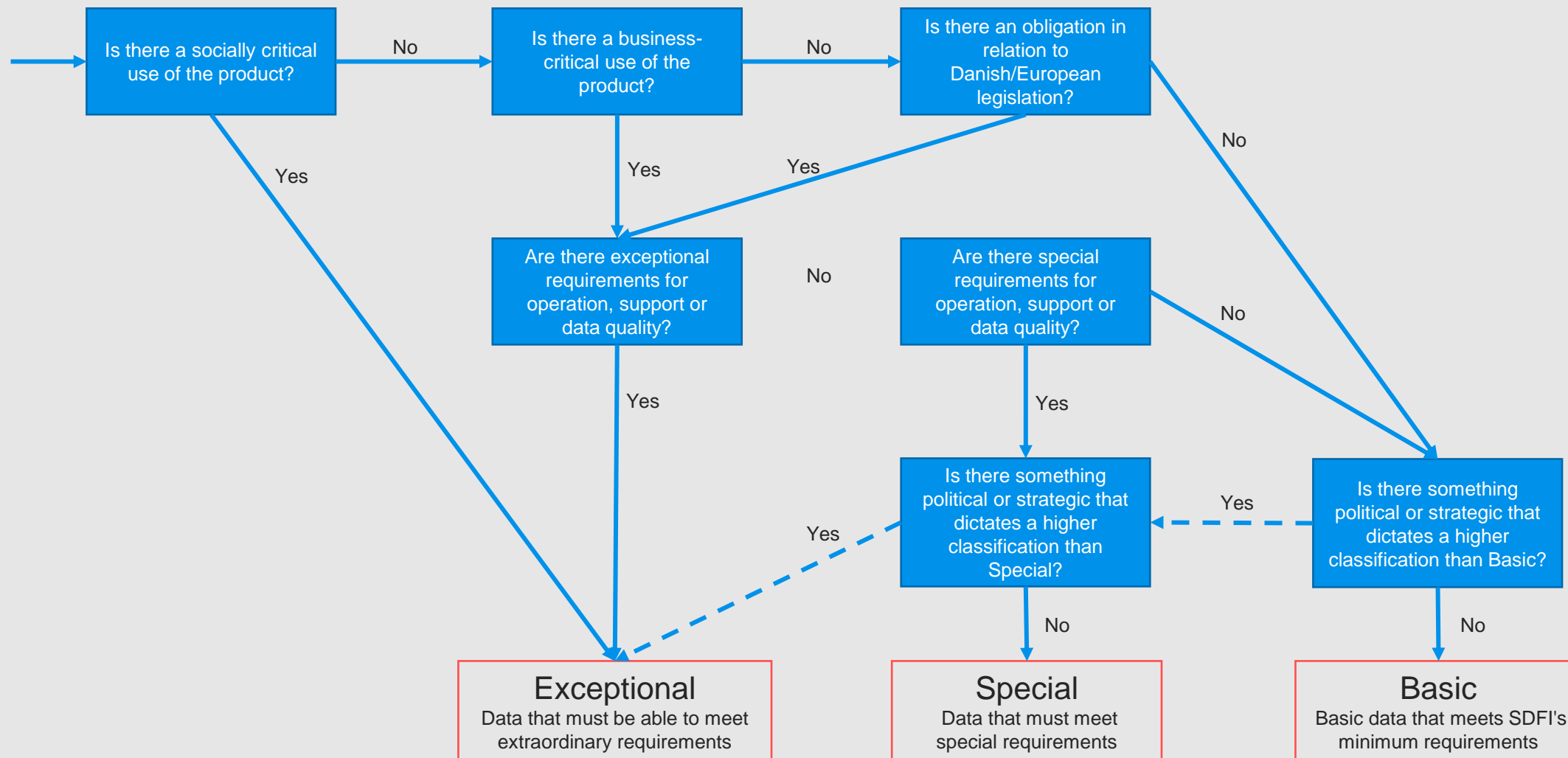
Usage

- Quantitative (amount of users)
- Importance (societal or business-critical use of data products)
- Value creation (type of value creation)



How to obtain the data product classification?

The decision tree



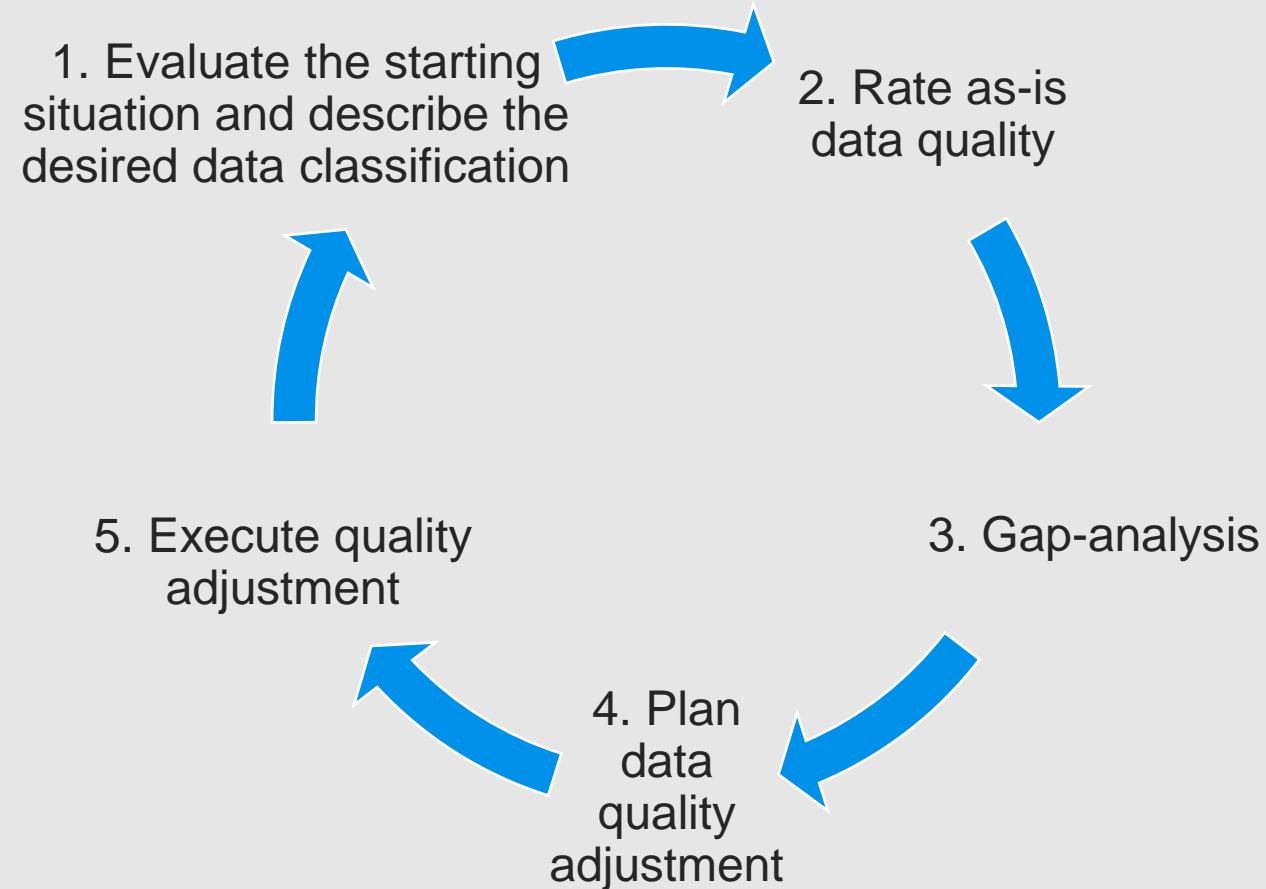
Classification result

- Basic 28
- Special 37
- Exceptional 3

Data volume:

- 68 different data products
 - 3 GNSS
 - 2 Elevation
 - 6 Orthophoto
 - 10 Raster
 - 47 Vector

Continuous adjustment



Standards, Technical Specifications and legal requirement

- Fulfil INSPIRE Directive
- EN/ISO 19115-1 Geographic information – Metadata – Part 1: Fundamentals
- EN/ISO 19115-2 Geographic information – Metadata – Part 2: Extensions for acquisition and processing
- EN/ISO 19157-1 Geographic information — Data quality — Part 1: General requirements

The framework

Requirements to be meet:

- Metadata requirement from INSPIRE
- Data distribution
- Not develop/invent our own vocabulary

The framework:

- A simple
- A detailed

Data volume:

- 68 different data products
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The content of the simple framework

- Name of data product
- Abstract
- Data collection frequency
- Distribution format
- Distribution method and where from
- Data collection method and quality
- Last update and update frequency
- Operation information
- Support
- Title of data set specification
- Title of data product specification (DPS)
- Does the product fulfil the DPS?
- Information about the data model
- Use cases related to the product
- Any special requirement regarding data quality
- Any special requirement regarding distribution
- Any exceptional requirement regarding data quality
- Any exceptional requirement regarding distribution
- Does a conceptual model exist
- User guide
- Classification level

The content of the detailed framework (vector and raster)

Vector

- Completeness
 - Omision /comision
- Thematic accuracy
 - Classification
- Logic consistency
 - Conceptual consistency
 - Topological consistency
- Temporal quality
 - Temporal consistency
 - Temporal validity
- Geometric accuracy
 - Absolute accuracy

Raster

- Conceptual consistency
- Geometric accuracy
- Unit of distribution
- Size of unit of distribution
- Feature catalogue
- Name of data set included in the product (including version)
- Where can the product be obtained online
- Responsible for each data set in the product
- Process description and date for the process
- Responsible for the process

In summary and status

- All 68 product have been assigned to a responsible department
- All responsible of one or more product have filled a spreadsheet(s) with the required information
- The data quality content of the spreadsheet(s) (cf ISO 19157-1) are vague
- More guidance is required on filling out the spreadsheet(s)
- An organization to continue (and maintain) the framework in operation
- An governance structure have been developed to maintain the content of the framework
- Defined as-is and to-be product levels
- Pending: Transfer of product between levels