Automatic assessment of metadata quality in ISO 191**

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Creating accessible quality information

Document your workflow: → **Put quality information in ISO metadata:**

1. Purpose of your research → MD_Identification.purpose
2. Subject of your research → MD_Identification.abstract
3. Data sampling or sources → LI_Source, LI_Lineage
4. Geo-reference your data → EX_Extent, MD_Identification.spatialResolution
5. Data processing steps → LI_ProcessSteps
6. Quality Control → DQ_QualityElement, DQ_EvaluationMethod
7. Availability of your data → MD_Distribution, MD_Constraints

** ISO 19107, ISO 19111, ISO 19115 (2014), ISO 19139, ISO 19156, ISO 19157

Creating a quality flag

Create standardized string as quality flag:

Batch xml analysis via software
Manually via web application form
Manually via web application xml upload

The result: **a comparable alphanumeric string combining quality scheme and flags, e.g. „SDN::1“** for „good quality“ as defined by Seadatanet.

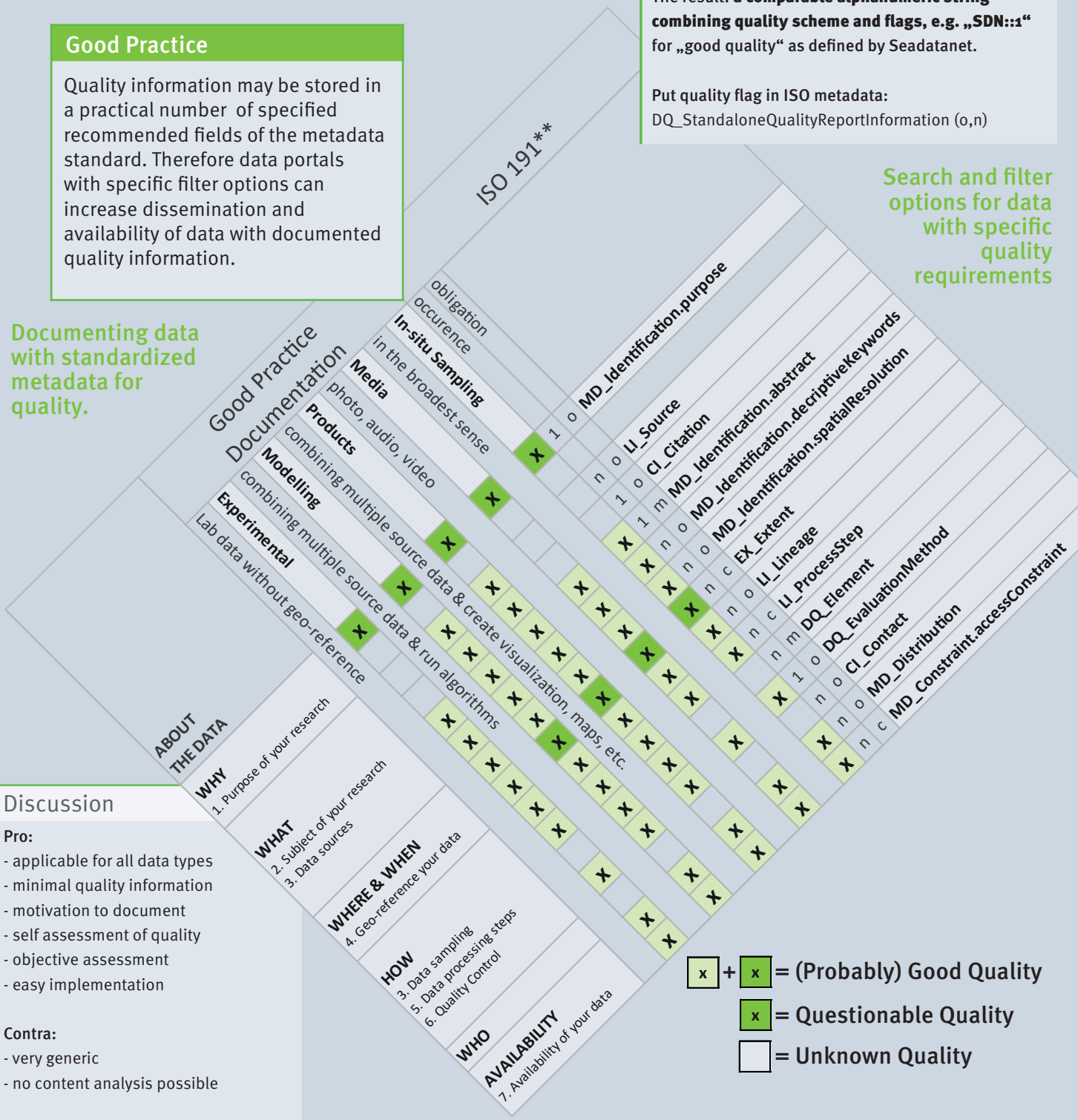
Put quality flag in ISO metadata:
DQ_StandaloneQualityReportInformation (o,n)

Good Practice

Quality information may be stored in a practical number of specified recommended fields of the metadata standard. Therefore data portals with specific filter options can increase dissemination and availability of data with documented quality information.

Search and filter options for data with specific quality requirements

Documenting data with standardized metadata for quality.



x + x = (Probably) Good Quality
x = Questionable Quality
= Unknown Quality

Discussion

Pro:
- applicable for all data types
- minimal quality information
- motivation to document
- self assessment of quality
- objective assessment
- easy implementation

Contra:
- very generic
- no content analysis possible

Next:
- data type specific quality information

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