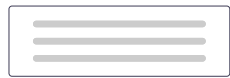# Quality Assurance for Spatial Research Data
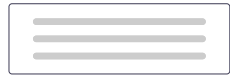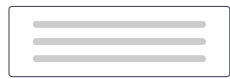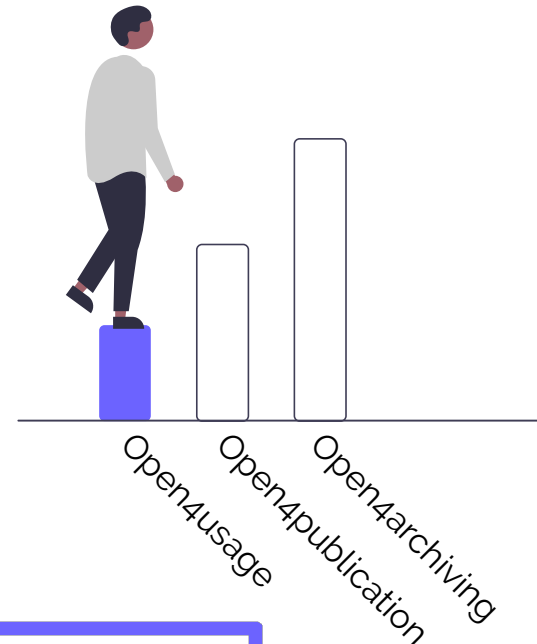

The Authors Michael Wagner and Christin Henzen propose a framework to help researchers rate spatial data sources in three categories from 1 to 5 stars

Categories:

1. Openness
2. Maturity
3. Quality

- Ratings are not averages
- Ratings follow a ladder scheme
- A higher step adds another aspect to the metric mix
- A higher rating automatically includes the aspects from the lower ratings
- There can also just be ratings from 2 to 4 like in the **openness category**

Open4usage Open4publication Open4archiving

Research Data Lifecycle Mapping

The metrics from the categories are mapped to appropriate phases in the research lifecycle and fall into the responsibility of one of the three roles shown in the process figure. This mapping serves as a QA process to help scientists create amazing sources for spatial data.

Openness Indication
License
5 Star Open Data

FAIR Indication
FAIRsFAIR
17 indicators

Data Maturity
Maturity Matrix
Level 1–Level 5

Collection

Processing

Reuse

Analysis

Archiving

Publication

Data Quality
ISO 19157
Level 1–Level 5

Roles
data provider,
data curator,
data publisher

Activities
in each
lifecycle phase

As a proof of concept the authors rated the SPAM2010 dataset a 3.5 in openness, a 4 to 5 in maturity and a 5 in quality