

# TITLE: Quality makes data FAIR

**When** Tuesday, 15 June 2021, 18:00 EST

## **Event Description:**

In today's environment of geospatial everywhere, the emphasis on FAIR geospatial information has never been more pronounced. Our mission in OGC is to create the environment and convene the community to make FAIR geospatial information a reality. A critical part of that is for us collectively to revisit the principles of Data Quality as it's on the critical path for trusting the actionable information that is created from today's geospatial information.

Development of the community guidelines for sharing and reusing quality Information of individual Earth Science datasets is currently under way. These guidelines aim at directing data producers, stewards, scientist and users to provide and use quality information which is findable, accessible, interoperable and reusable – [FAIR](#). At this stage of guidelines' development process, we want to hear from the geospatial community about their use cases to ensure that the guidelines are in line with the user communities and their applications (especially any non-traditional applications or those related to novel and disruptive ideas and activities).

The Open Geospatial Consortium's Data Quality Domain Working Group and the group of international domain experts invite participation in the Workshop to be held virtually on **15 June 2021** as part of the 119<sup>th</sup> OGC Member Meeting.

This 3-hour community workshop is open for members and non-members of OGC alike and the registration is free. The results will contribute to progressing the development of the 'International Community Guidelines for Sharing and Reusing Quality Information of Individual Earth Science Datasets'.

## **Background**

Since Sept 2020, international interdisciplinary domain experts have been working voluntarily towards defining community guidelines for making quality information findable, accessible, interoperable and reusable (FAIR). FAIR quality information is essential to increase trust in location information systems (especially those that use Artificial Intelligence), it aids in curation of data and its responsible use. The objective of this community effort is to develop the 'International Community Guidelines for Sharing and Reusing Quality Information of Individual Earth Science Datasets'. To provide some context to this effort, here is a link to a 'call-to-action' paper: <https://datascience.codata.org/articles/10.5334/dsj-2021-019/>.

To help with the development of the guidelines, we are starting to collect several use cases. The purpose of the collection of use cases is threefold: 1. to justify the need for a best practice in describing quality information to ensure and proper use of data, 2. to collect examples from multiple application domains on the use of FAIR quality information, and 3. to provide the community with implementation examples of the guidelines. The result of this effort will inform the guidelines wherever applicable. Together with the guidelines, this collection will be open and curated by the community.

The guidelines cover all Earth Science datasets. However, input of the geospatial data community is essential to include a variety of perspectives and build on current understanding of what spatial data quality means in different domains. Such input can help identify essential data quality information

and how it should be conveyed to users to avoid misunderstanding of geospatial data, information, service and products among users.

## OGC ‘Quality makes data FAIR’ Workshop

The workshop will be presented in three parts: starting with setting the scene and introducing the community effort in developing community guidelines for FAIR quality information about geospatial datasets together with the outlining the timeline of the effort. We will then continue with highlighting some known use-cases for the need of such guidelines, and conclude the workshop with working together to formulate additional use-cases.

### **Part I: Setting the scene – justification for FAIR quality information guidelines (30 min)**

We will introduce the international community of domain experts and present the motivation and the background leading to the development of the FAIR quality information guidelines.

### **Part II: Community perspectives – geospatial problems which require quality information guidelines (60 min)**

Lightning talks will be presented by an expert panel of data scientists, stewards, practitioners, and data producers.

### **Part III: Hands-on session (45 mins)**

This part of the workshop will further explore cases for FAIR data quality information and highlight potential challenges therein.

### **Schedule of Meetings:**

<b>Time</b>	<b>Activity</b>
18:00 – 18:10	Introduction
18:10 – 18:40	Setting the scene – justification for FAIR quality information guidelines
18:40 – 19:00	Lightning talks part 1 – geospatial problems which require quality information guidelines
19:00 – 19:10	Break
19:10 – 19:30	Lightning talks part 2 – geospatial problems which require quality information guidelines
19:30 – 20:30	Hands-on session
20:30 – 20:50	Report from Hands-on sessions
20:50 – 21:00	Wrap-up & next steps