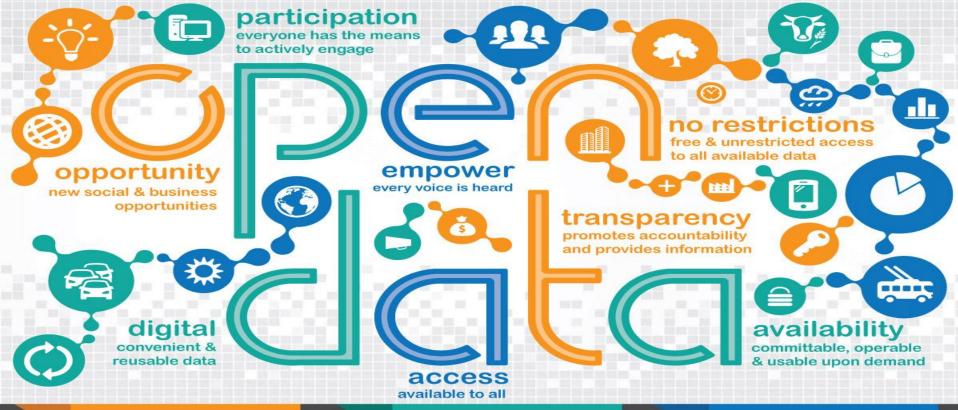


# **Open Data**

Paula Andrea Martinez @orchidoo

2020-10-08 DOI <u>10.6084/m9.figshare.13065308</u>





#### **Availability & Access**

Open data must be available as a whole and at no more than a reasonable reproduction cost, preferably by downloading from the internet in a convenient and modifiable form.

#### Reuse & Redistribution

Open data must be provided under terms that permit reuse and redistribution including the interoperability with other datasets.

#### **Universal Participation**

Everyone must be able to use, reuse and redistribute - there should be no discrimination against fields of endeavour or against persons or groups.



### Open data

Open data is data that can be freely used, re-used and redistributed by anyone

What is open data? from the opendatahandbook.org



Image by Bryan Mathers CC BY-SA

# 5 Stars of open data

*	make your stuff available on the Web (whatever format) under an open license
**	make it available as structured data (e.g., Excel instead of image scan of a table)
***	make it available in a non-proprietary open format (e.g., CSV instead of Excel)
***	use URIs to denote things, so that people can point at your stuff
****	link your data to other data to provide context

### Data Ethics - all the way



## Linked data > the reason that open data exists

Any data exchange ecosystem requires **standards** - a **syntax** that provides a way to organize knowledge for subsequent retrieval.

Vocabularies/Ontologies > See <u>W3.orq</u>

It explicitly describes the nature of that **relationship**. By providing **context** to its **connection**.

### It creates knowledge

### **FAIR** principles

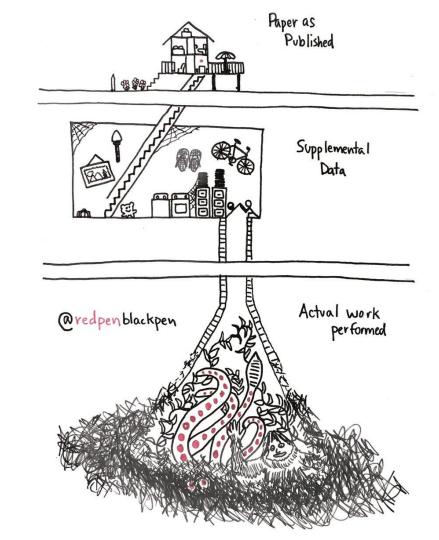
**F**indable

**A**ccessible

Interoperable

Reusable

The FAIR guiding principles for scientific data management and stewardship (Wilkinson 2016), Go-FAIR.org, FORCE11 FAIR Data principles, Towards FAIR principles for research software (Lamprecht, 2019), RDA FAIR for research software



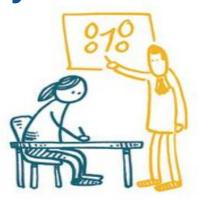
#### Projects/communities

- Open Data Handbook by the Open Knowledge Foundation
- Read more DCC Digital Curation Centre Open data
- Foster Open Science Open data materials
- The Turing Way reproducible research
- OpenCon a global conference <u>aopen\_con</u>
- Research data Alliance building the social and technical infrastructure to enable open sharing and re-use of data.

Around the world we are facing a range of social, economic and environmental challenges. Do you think open data can help? - Look for a hackathon locally or online, use open data portals.

# Thank you!

### EVERYONE ON THE ROAD TO OPEN SCIENCE









RESOURCES





