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# OPEN DATA



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# OPEN DATA

made freely available for use and re-use by anyone and everyone

## Access

Available (on the internet) to all on demand

## Participation

Everyone must be able to use, reuse and redistribute

## Transparency

Providing information about data generation/collection

## Reuse/distribution

Provided under terms that permit reuse and redistribution

## Interoperability

Interoperability with other data, machine readable formats



<https://knowyourmeme.com/memes/agnes-harkness-winking>

# Not Open Data

'research data cannot be reliably preserved by individual researchers'

[Vines et al. 2014](#)

## FINDABLE

Archive your data in a **data repository** with metadata and a **persistent identifier**

F

A

## ACCESSIBLE

Determine what should be shared

Ensure there is an access procedure in place

≠ open!

Use **open/common formats** and languages

Consistent vocabulary

Metadata standards

## INTEROPERABLE

I

R

Apply a **licence** to specify how others can reuse your data

## Documentation

## REUSABLE

[GO FAIR overview](#)

[The Turing Way: FAIR \(general overview\)](#)

[Cornell example of READMEfile AND 4TU.ResearchData Guidelines](#)

[Data Dictionary or Code Book](#)



## Zenodo

General repository for  
data, code,  
presentations, reports,  
training materials

Uploads up to 50 GB

And more..

Find more using  
[FAIRsharing](#) or [re3data](#)

## Figshare

General repository

Uploads up to 20 GB

With Open Data  
the data repository  
is responsible for  
long term  
preservation and  
access!

# CREATIVE COMMONS LICENSES



	PUBLIC DOMAIN
	CC BY
	CC BY-SA
	CC BY-ND
	CC BY-NC
	CC BY-NC-SA
	CC BY-NC-ND

COPY & PUBLISH	ATTRIBUTION REQUIRED	COMMERCIAL USE	MODIFY & ADAPT	CHANGE LICENSE
✓	✗	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✗
✓	✓	✓	✗	✓
✓	✓	✗	✓	✓
✓	✓	✗	✓	✗
✓	✓	✗	✗	✓



You can redistribute (copy, publish, display, communicate, etc.)



You have to attribute the original work



You can use the work commercially



You can modify and adapt the original work



You can choose license type for your adaptations of the work.

## Data:

- [Creative Commons License Chooser](#)
- [Overview by Creative Commons](#)

## Software:

- [Choose an open source license](#)
- [tl;dr Legal](#)

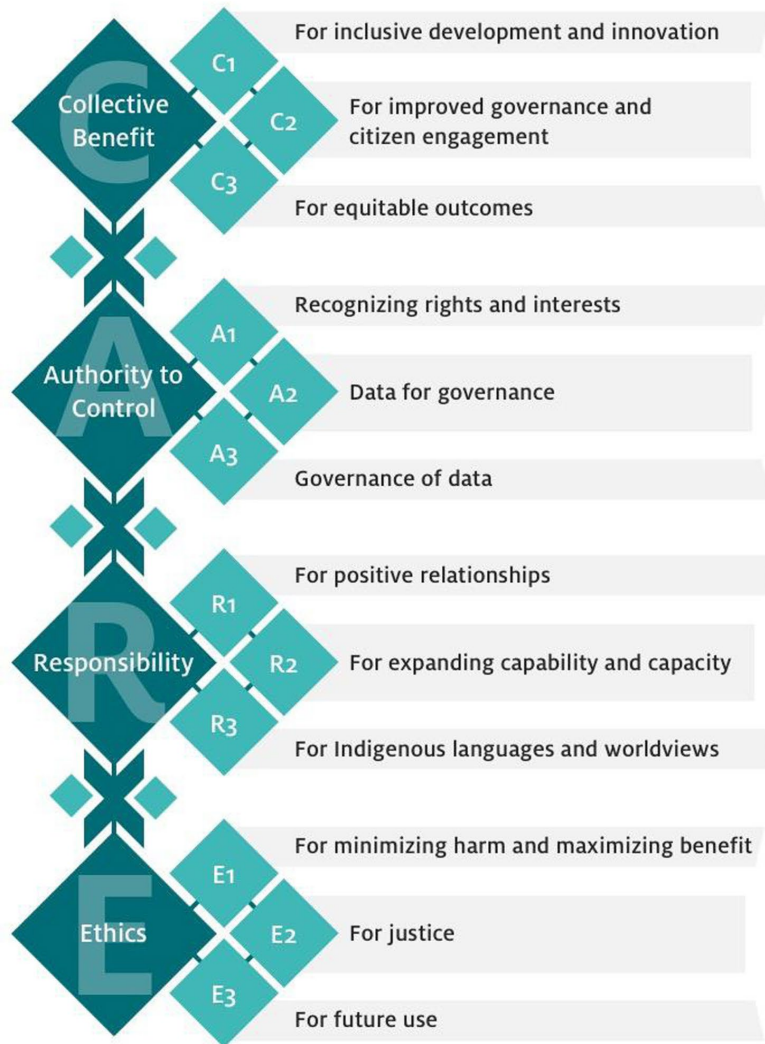
*There is no open science if  
science is not open to all.*

“

*Including more ways of knowing and  
understanding our common world  
within the great scientific  
conversation would enrich and  
diversify its collective ideas and  
creativity for the common good.*

[Open Science Beyond Open Access](#): For and with communities  
A step towards the decolonization of knowledge





- **CARE principles** facilitate Indigenous control in data governance and reuse, promoting equitable participation ([Carroll et al. 2020](#))
  - Relevant for many populations (privacy, future use, reuse, stewardship concerns)
- [The data equity framework](#)  **WE ALL COUNT** by We All Count
- What western societies can learn from indigenous knowledge: [Data Justice Talk Story](#)



## Additional resources

- [Open Data](#) by Paula Andrea Martinez
- [Research Data Alliance](#), a global research community to build the social and technical bridges to enable open sharing of data
- [The Turing Way](#) – Open Research/Reproducible Research
- [Licenses](#)
- Blogs:
  - [“Ten arguments against Open Science that you can win”](#) by Malvika Sharan
  - [“How can you make research data accessible?”](#) by Esther Plomp




# Thanks!

ANY QUESTIONS?

You can find me at

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- The **Slack** channel!
- [GitHub](#)



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