Make your data FAIR!

the why, the why again because it is really important

and very little of the how



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https://www.geo-inquire.eu/

- Enhanced access to geosphere data, products, and services
- Overcoming cross-domain barriers (land-sea-atmosphere environments)
- Innovative data management and big data techniques
- Interoperability, training programs, and Virtual/Transnational Access installations



and others, please see:

https://www.geo-inquire.eu/dissemination/training-activities https://www.geo-inquire.eu/dissemination/workshops https://www.geo-inquire.eu/dissemination/summer-achools

Seminare



DAS: Video (1&2) & Slides (1&2)



SDL: Video (1&2) & Slides (1&2)

Trainings



ETRIS: Video (1&2) & Slides (1&2)



HPS: Videos & Slides



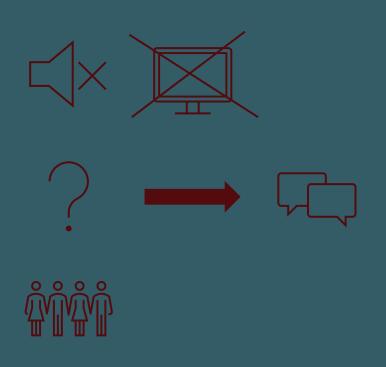
HySEA: Videos & Slides (tba)

What are we going to do today?

What have we Discuss in learned? Find the data to to know each other

Untroductio Let's get to know Goodbye Outlook the way?

"Rules" & expectations:





Google Doc in chat

Let's get to know each other

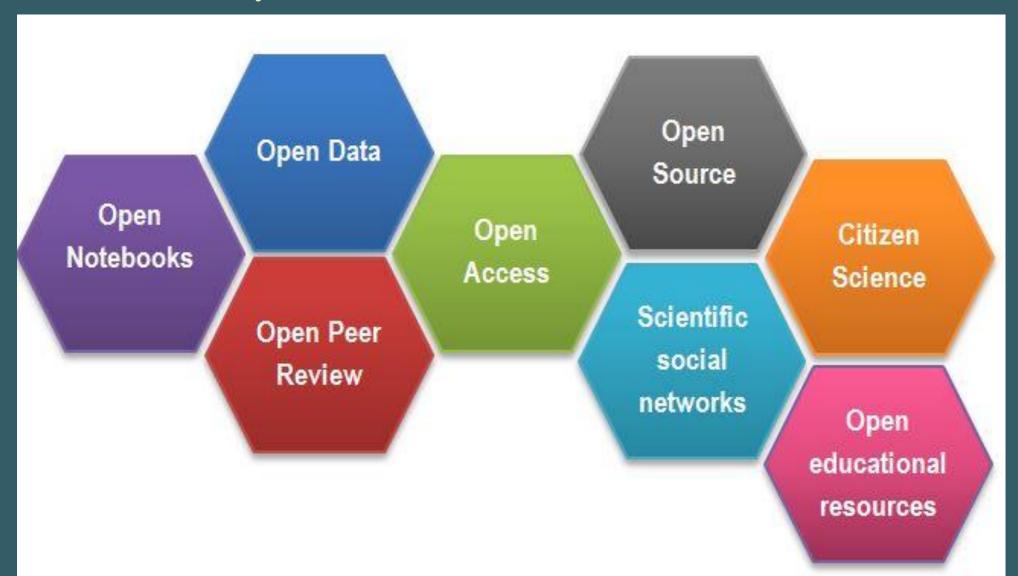


Who are you? Give us

- Your Name & Background
- Your Expectations, what you hope to learn
- Your level of FAIRness expertise choose a picture!



What is Open Science? What is FAIR data?



Motivation:





Impact & visibility



Sustainability



Team



Accessibility



Transparency & accountability

Motivation:



Keep yourself organized

- File naming, folder structure
- Storage & back-ups





Reproducibility & quality control

- Version control
- Open formats & softwares



Recognition and visibility

Data sharing & preservation



Collaboration

- Data sharing & reuse
- Metadata & collaboration



Meet funder mandates & policies

Data Management Plans



Comply to legislation

GDPR

Motivation



The FAIR principles

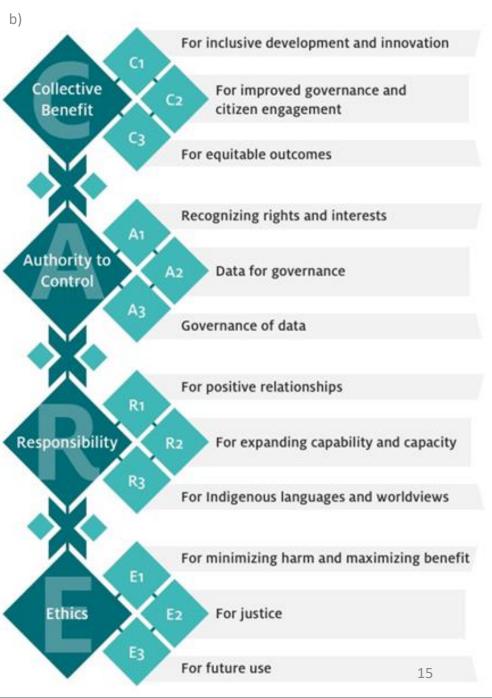


What's the difference?



The CARE principles





Let's find some data

- 1. Explore the different levels of FAIRness
- 2. What can you do with the data?

Let's find some data - instructions

- 2. data (each/one paper)
- 3. data
- 4.
- 5. (quick & dirty)
- 6. Share in the shared google document



Check out the following papers

1

Changing surface water conditions for the last 500ka in the Southeast Atlantic: Implications for variable influences of Agulhas leakage and Benguela upwelling

Benjamin F. Petrick¹, Erin L. McClymont², Fabienne Marret³, and Marcel T. J. van der Meer⁴

2

Accumulation of biogenic and lithogenic material in the Pacific sector of the Southern Ocean during the past 40,000 years

Zanna Chase^{a,b,d,*}, Robert F. Anderson^{a,b}, Martin Q. Fleisher^a, Peter W. Kubik^c

^a Lamont-Doherty Earth Observatory of Columbia University, Route 9 West, P.O. Box 1000, Palisades, NY 10964, USA

^b Department of Earth and Environmental Science, Columbia University, USA

^c Paul Scherrer Institute, clo Institute of Particle Physics, ETH Hoenggerberg, CH-8093 Zurich, Switzerland HPK H30
^d Monterey Bay Aquarium Research Institute, 7700 Sandholdt Road, Moss Landing, CA 95039, USA

Accepted 6 October 2002

3

Glacial heterogeneity in Southern Ocean carbon storage abated by fast South Indian deglacial carbon release

Julia Gottschalk [™], Elisabeth Michel, Lena M. Thöle, Anja S. Studer, Adam P. Hasenfratz, Nicole Schmid,

Discuss in groups – how did it go?



Breakout rooms (according to your number)



Write down the most important things



10 minutes

Questions to discuss

- What is the difference between the reusability of the examples?
 - Think of file type, where you found the data, how easy it is to reuse the data,...
- What is the difference in your experience as a user?

What have we learned?

1. Not sharing data is frustrating – and no one likes to send an email to the author

2. Think about the format when sharing the data – can your data actually be reused?

3. Make it clear where and how people can find your data – data repositories and licenses are important!

I want to hear from you!

- This seems trivial
- Who could use my data?
- Extra work
- Misuse/misinterpretation
- Ethical concerns
- Data sensitivity
- Idea taken away!
- Fear of criticism!

Idea taken away!

Answer:

- Collaborative effort
- Beneficial for society/policy think CORONA, WEATHER
- Publish only metadata
- Adjust your license
- Data governance who does the data belong to?
- Advancement of knowledge

- Fear of criticism!
 - Imposter syndrome
 - Fear of mistakes
 - Idea of perfectionism

Answer:

- Don't be perfect
- Be brave
- Be vulnerable
- See it as an opportunity to grow & learn

Webinar series "how to make your data FAIR"



5-8





max 1h

Next: Tuesday, June 25, 10-11h

Best practices in folder structuring,

file naming & versioning – stay tuned!



Fill out the questionnaire ©



After summer:

Metadata & documentation



Thanks for joining today and see you next time!

Questions, suggestions or feedback? reach out to: l.m.thole@uu.nl

Sources

- Slide 8: https://www.fosteropenscience.eu/content/what-open-science-introduction
- Slide 13: https://www.go-fair.org/
- Slide 14: https://libraries.mit.edu/news/data-necessarily/31421/
- Slide 15a: @mazibornart(Instagram, Ngoskingiphile Mazibuko); Iziko Museums of South Africa
- Slide 15b: Carroll, S.R., Garba, I., Figueroa-Rodriguez., Holbrook, J., Lovett, R., Materechera, S.A., Parsons, M., Raseroka, K., Rodriguez-Lonebear, D., Rowe, R.K., Sara, R., Walker, J.D., Anderson, J., & Hudson, M. (2020). 'The CARE Principles for Indigenous Data Governance.' Data Science Journal, 19(43), 1–12.