What color is your open science parachute?



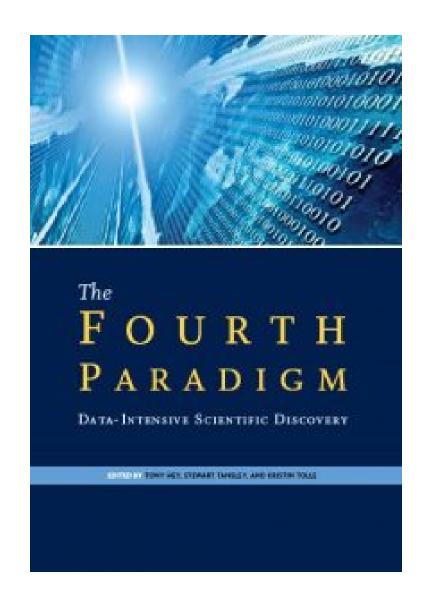
A hands-on primer for e-infrastructure providers, early career scientists

— and the rest of us

Peter Löwe

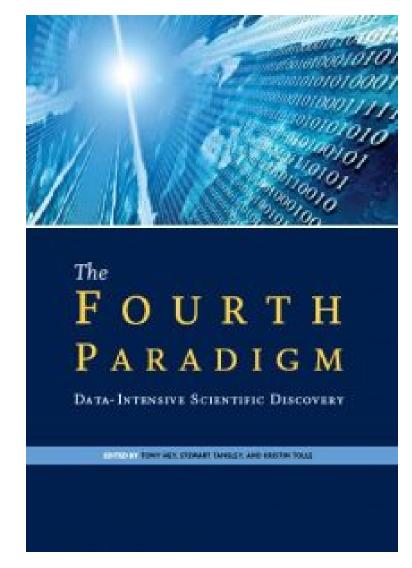
A new Paradigm for Science

- 1. Empirical Science
- 2. Theoretical Science
- 3. Computational Science
- 4. Data-driven Science



Jim Gray

- The speed at which any given scientific discipline advances
- will depend on how well its researchers collaborate with each other,
- and with technologists,
- in areas of eScience
- such as databases, workflow management, vizualisation, and cloud computing.



"Everything about science is changing because of the impact of information technology"

Open Science?

Introduced in the 1660s: Scepticism

Modern pillars of Open Science:

- Open Access
- Open Data
- Open Source Software



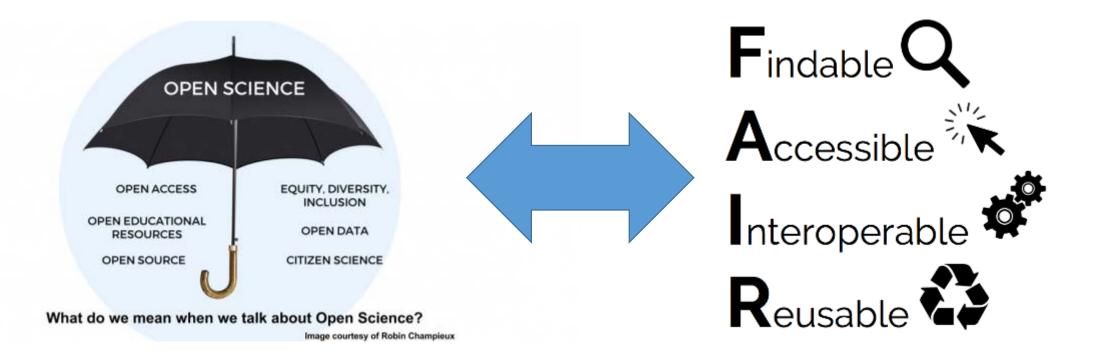
What do we mean when we talk about Open Science?

Image courtesy of Robin Champieux

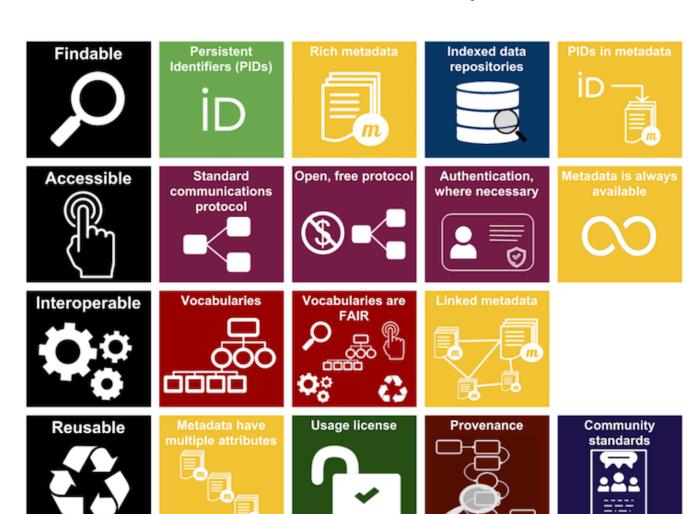
Depending of ones' particular field of science, **definitions of openness vary**.

If it can't be Open, make it FAIR!

• The concept of FAIR provides options for research environments where openness cannot be reached for various reasons.



Are we there FAIR yet?

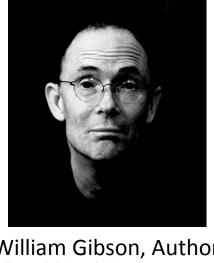




https://socialjusticesisters.files.wordpress.com/2013/01/devil-details-cartoon.jpg

- What does already work?
- What will come next?
- What's planned?
- What's being discussed?

Where are we standing?



William Gibson, Author

"The future is already here — it's just not very evenly distributed"

The speed of embracing and implementing data-driven science varies

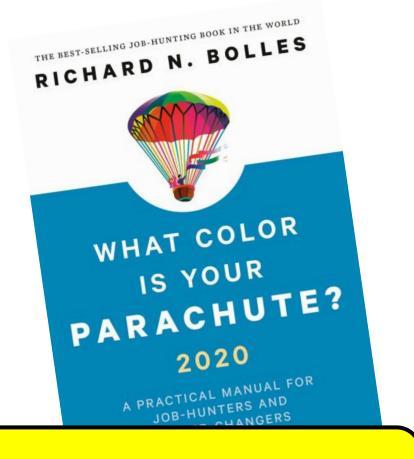
- among the various fields of science, and
- the evolving of enabling technologies and standards.

What about that colored Parachute?





What about that colored Parachute?



"If you can answer the question, you've unlocked some fundamental secret about your work and your life".





Jobs in 2019:

[...], jobs today are really seminars. Change is happening so rapidly that you've got to pay close attention and learn.

Emerging standards and infrastructures: Where to start?

























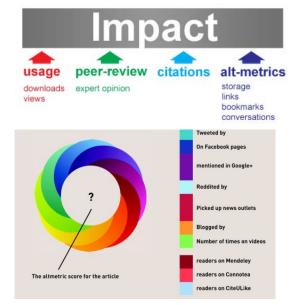
Repository Providers: Make science discoverable and reusable



 α ш COLLECT ш



Don't forget altmetrics (Web 2.0)



Everybody:

Learn, become involved, and advance this together













Conclusion:

The times are changing: Reap the day! (and do add color to your parachute!)

