

Shades of Open

What is OPEN when we do OPEN SCIENCE?



Change of Business Model



Open Publications vs Open Data



Change of Mindset



What Aspect is Open?

- Open **Access** (to data): Can you get it?
- Open **Consumption**: Can you use it?
- Open **Production**: Can you contribute to it?
- Open **Process**: Can you see where it comes from?



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Open **Access** (to Data)

- Downloadable
- Available upon request
- Conditionally available
- For members only
- Only usable in a “Data Cave”

Closed ↔ **Shared** ↔ **Open**

Open Consumption

- Open for analysis
- Open for reuse
- Open for redistribution
- Open to adapt
- Open for redistribution of adapted versions
- Open, but with obligation to cite
- Open, but not for commercial applications
- Open, in name only, without explicit permissions

Open Production

- Produced using citizen science
- Accessible during the research process

Open Process

- Documented research process
- Open version history
- Open provenance data: reliable sources