#### Open data

Transparency through reproducible analysis, better outreach through exchange of data with partners like Encyclopedia of Life, and accelerated discovery through data reuse





#### Open access

Faster knowledge transfer as published works become more easily shareable

## Open resources

Better training in Open Science methods and increasing access to resources for data collection and database construction



Open Science principles



### Open methods

Standards development for collection protocols and metadata, and easier interpretation and decision-making scrutiny

### Open source

Reproducible analyses, accelerated synthesis through data and tool sharing, and improvement via shared data deaning and checking





# Open peer review

Greater scientific rigour through increased scrutiny of data and methods