Credit for Data Sharing:
Recommended Stakeholder Actions

Process Step	Stakeholder	Action	Guidelines and Current Initiatives
Researchers deposit datasets into repositories, associating each dataset with one or more ORCID iDs, which identify individuals. Repositories assign unique persistent identifiers (PIDs) to each dataset.	Researcher	Deposit dataset and associated metadata in an appropriate general purpose or discipline-specific repository.	Springer Nature recommended repositories; FAIRsharing.org FAIR (Findable, Accessible, Interoperable, Usable) Guiding Principles for Scientific Data Management and Stewardship (2016)
	Repository	Meet the minimum requirements to support the FORCE11 Joint Declaration of Data Citation Principles (JDDCP), including the assignment of a globally unique persistent identifier (PID) to the dataset, which resolves to a landing page; and provision of the appropriate metadata for dataset discoverability on dataset landing pages.	A Data Citation Roadmap for Scholarly Data Repositories (2019) DataCite
	Repository	Collect one or more ORCID iDs through authenticated pathways and link them to the dataset and share dataset metadata with the researcher via their ORCID record.	ORCID Workflow: Repository Systems
	Repository	Facilitate the consistent and credible reporting of research data usage.	Code of Practice for Research Data Usage Metrics (2018)
Authors submit the dataset PID(s) with each manuscript to enable future tracking.	Researcher	Formally cite the dataset underlying a specific claim in the manuscript in the reference section, including author, year, title, PID, version, and repository and following publisher guidelines.	FORCE11 Citation Principles
	Publisher	During pre-submission, submission, production, and publication, implement data citation and related policies in accordance with the JDDCP. Publishers can enable researchers to share dataset metadata directly from the ORCID	A Data Citation Roadmap for Scientific Publishers (2018) ORCID Workflow: Publishing Systems

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		record. Include a Data Availability Statement in the publication.	
	Publisher	Assert that the deposition of data in a repository does not constitute "publication" that would prevent the submission of research manuscripts based on those datasets.	See, e.g., F1000 Data Policies
Publishers make links between papers and datasets available in the citation metadata.	Publisher	Deposit data citations by including them in the Crossref metadata when registering content. Use of the relationship section to assert the data link is highly recommended, as this allows for identification of any dataset PIDs and is not limited to DataCite DOIs.	Crossref Data & Software Citation Deposit Guide for Publishers
Searchable systems allow tracking of datasets through dataset PID, ORCID iD, or grant or organization identifiers.	Repository, Funder, Institution	Funder platforms, institutional research information management systems, and other technology initiatives can collect citations and usage metrics from DataCite/Crossref EventData and provide them to end-users in a searchable interface which would include datasets whether or not they are linked to publications.	Make Data Count Research Data Alliance
Individuals and organizations use citation information and metrics to assess impact of shared data.	Researcher	Add information/metrics on shared datasets to CVs and funding reports.	
	Funder	Track datasets generated from grants and recognize their value as a stand-alone output of research.	
	Institution	Incorporate metrics from shared datasets into the promotion and tenure process and other evaluations of research impact along with traditional publications.	