

Appendix 1. Thematic Categories, References, Methodology, and Spanish Application Context.

Note. The table summarizes the eight thematic categories (C1–C8) identified in the scoping review, including representative studies, methodologies, and their specific Spanish contexts of application. Categories were inductively derived from the dataset and conceptually informed by the Open Science Taxonomy: Revised and Extended (da Silveira et al., 2023).

Category	Reference	Methodology	Spanish Application Context
C1. Open Science and Research Data	González et al., 2013	Documentary review of existing infrastructures	Focus on the needs of the Spanish context
	Arias-Coello et al., 2018	Online survey	Professors and doctoral students from three Spanish universities: Universidad Complutense de Madrid (UCM), Universidad Rey Juan Carlos (URJC), and Universidad de Burgos (UBU)
	González-Teruel et al., 2022	Mixed: interviews and one focus group	Researchers, scientific journal editors, representatives of evaluation agencies, vice-rectors, and librarians
	Abad García et al., 2022	Online survey	Vice-rectors for research from the 76 Spanish universities that are members of CRUE (Conference of Rectors of Spanish Universities)
	Ollé et al., 2023	Online survey	Researchers from universities and research centers
	Santos-Hermosa & Boté-Vericad, 2024	Mixed: one focus group and one online survey	Academic librarians and academic libraries
C2. Research Data Sharing	Aleixandre-Benavent et al., 2020	Email survey	Researchers and professors from Spanish universities
	Sixto-Costoya et al., 2022	Quantitative descriptive and documentary analysis	Articles by university teaching and research staff (PDI) published in <i>Gestió de la Recerca</i> (GREC)

C3. Editorial Management and Research Data	Aleixandre-Benavent et al., 2015	Descriptive and analytical study of the editorial policies of 13 scientific journals included in IBECS, IME, and MEDES	Scientific journals specialized in pediatrics
	Melero et al., 2023	Mixed: online survey and interviews	Editors of Spanish scientific journals indexed in the Dulcinea directory
C4. FAIR Principles	Fernández-del-Pino Torres & Malo-de-Molina Y Martín-Montalvo, 2018	Institutional case study	Library of Universidad Carlos III de Madrid (UC3M)
	Aguilar Gómez & Bernal, 2023	Institutional case study	DIGITAL.CSIC repository
	Gonzalez Soltero et al., 2024	Online questionnaire	Postgraduate students in Bioinformatics at Universidad Europea (UE) de Madrid
C5. Research Data Projects	García-García et al., 2012	Descriptive case study: ODISEA	Data sets from repositories, data banks, and data libraries
	Melero-Melero & Abadal-Falgueras, 2018	Descriptive case study: MareData	Spanish National Research Council (CSIC) and Spanish universities
C6. Research Data Services (RDS) in Libraries	Arano et al., 2011	Institutional case study	Institutional repository of Universidad Pompeu Fabra (UPF)
	De León & De Ferrer, 2018	Institutional case study	University libraries of Catalonia coordinated by the Consorci de Serveis Universitaris de Catalunya (CSUC)
	Martin-Melon et al., 2023	Quantitative and descriptive: quantitative content analysis (QCA) technique	Websites of Spanish university libraries

C7. Research Data Repositories	Nina-Alcocer et al., 2013	Descriptive and comparative methodology	Data repositories: Dryad, Figshare, Zenodo, and Dataverse
	Moreno, 2018	Online survey	Spanish research data repositories registered in Re3data.org
	Martinez Mendez et al., 2023	Descriptive and comparative methodology	Spanish public universities
	Monteagudo-Haro & Prieto-Gutierrez, 2024	Qualitative and descriptive analysis of twelve indicators of data repositories	Spanish universities in REBIUN (Spanish Network of University Libraries)
C8. Multidisciplinary Studies on Research Data	Wulff, 2020	Documentary and exploratory analysis of spatial data repositories related to oceanographic research in Spain	Spatial data repository for oceanographic research
	Melero & Navarro-Molina, 2020	Mixed: one focus group and one online survey	Research data on Food Science and Technology from researchers at CSIC Research Centers
	Cerda-Cosme & Méndez, 2023	Qualitative and descriptive analysis of nine attributes of research data	Research data on COVID-19
	Lucas-Domínguez et al., 2024	Bibliometric study focused on research on cancer stem cells	Research data on Cancer Stem Cells (CSC)

Source. Compiled by the authors based on the dataset of 26 records included in the scoping review.