A tool to understand the contribution of data sources and search strategies across review stages. Quickly generate search summary tables and make searches and review updates more robust and efficient.



Introducing CiteSource:

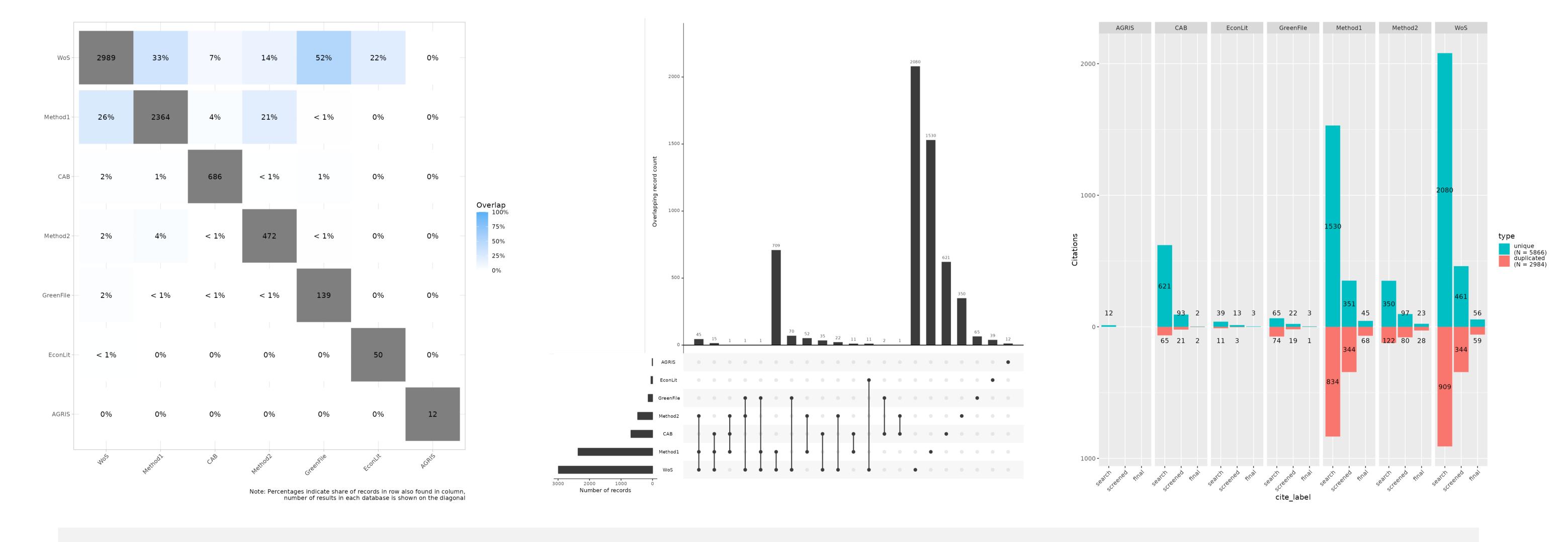
A new R package to explore source-level contributions to the stages of a systematic review

The problem: Most deduplication tools merge records by maintaining metadata from a single duplicate, causing a loss of information about the origin of all records. We needed a tool that would maintain information about origin to answer questions like: What sources contribute the most value to this review? What sources should be searched to update this review? How effective are different search strategies in capturing benchmark studies? And many more!

Methods

- An interdisciplinary team was assembled at the Evidence Synthesis and Meta-Analysis in R (ESMAR) Conference in 2022. This team consisted of both developers and end-users, and the goal was to build a free, open-source tool for the evidence synthesis community.
- Using an existing deduplication package called ASySD and implementing a new approach that maintains source metadata, the team developed workflows, visualizations and data tables, that help end users quickly understand source contributions for their project.
- To enhance the usability of CiteSource, a Shiny app was further developed to allow users with no coding experience to gain the advantages of this tool. Also added was the ability to quickly generate publication-ready search summary tables.
- Future developments include making CiteSource available directly from CRAN, implementing the Shiny app on a remote server for easy access, and additional functionality. We welcome your input!

Examples of CiteSource visualizations



To access and use CiteSource, visit https://github.com/ESHackathon/CiteSource or use the QR code below. We look forward to your feedback!



¹ Central Library, National Oceanographic & Atmospheric Administration, USA

² Birkbeck Business School, University of London, UK

³ Centre for Clinical Brain Sciences, University of Edinburgh, UK

⁴ Norwegian Institute for Nature Research, Norway

⁵ Institute of Health and Allied Professions, Nottingham Trent University, UK 6 Carnegie Mellon University Libraries, Pittsburgh, Pennsylvania, USA