

trustmebro: An R package for Plausibility Checks and Cleaning of Subject-Generated ID Codes

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DOI: [10.xxxxxx/draft](https://doi.org/10.xxxxxx/draft)

Software

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Editor: ↗

Submitted: 30 September 2025

Published: unpublished

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Summary

trustmebro is an R package designed to simplify data wrangling tasks involving subject-generated ID codes (SGICs) and other identifiers. It provides functions for plausibility checks of SGICs, helping to ensure the reliability and consistency of identifier data. Alongside validation tools, trustmebro offers utilities for streamlined recoding, facilitating the management of messy identifier-related data in research workflows.

Statement of need

Subject-generated ID codes (SGICs) are widely used in research contexts where individual-level data from different sources must be linked without exposing personally identifiable information (Calatrava et al., 2022; Carifio & Biron, 1978, 1981; Kearney et al., 1984; Schnell et al., 2010). However, SGICs are often prone to errors, inconsistencies, and formatting issues, which can compromise data quality and reduce the validity of downstream analyses (Audette et al., 2020; Dilorio et al., 2000; Kristjansson et al., 2014; Little et al., 2022; Yurek et al., 2008).

trustmebro was developed to address these challenges in the context of educational data linkage at the Trusted Third Party (Vertrauensstelle) of the Authority for Schools and Vocational Education in Hamburg, Germany (Fickermann & Maritzen, 2014). By providing functions for inspecting and validating SGICs, as well as tools for handling common identifier-related tasks, the package helps ensure that data integration processes are both reliable and efficient. While originally created for educational research use cases, trustmebro can be applied broadly in any setting where SGICs or similar identifiers play a central role in data wrangling.

Acknowledgements

This research received no specific grant from any funding agency, commercial or not-for-profit sectors.

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