

Institute of Sports and Sports Science (IfSS)

Beyond Boundaries: The MO|REdata eResearch Infrastructure and Its Role in Enhancing Motor Performance Research Through Sensitive Data Pooling

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Background

- studies have shown a high willingness to share own data and/or a high interest in using "foreign" data in different scientific disciplines [1-3]
- 81.7% of sports scientists in German-speaking countries are interested in data sharing, sports scientists with self-generated data 91.5% [4]
- until 2013, there was no solution for data management, storage and publication in sports science or for human performance test data in general
→ 2014: IfSS started the project "eResearch infrastructure for motor research data" (DFG-funded)

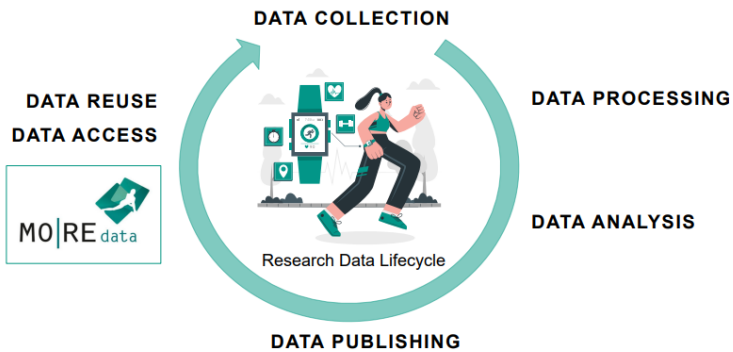


Fig. 1: Purpose and functions of the data repository MO|RE data (illustration by T. Eberhardt)

Opportunities 😊

- scientists from other disciplines can upload their data to answer big interdisciplinary questions, such as motor abilities and health issues
- the repository is based on national and international research: test items have been selected based on their use in Germany and abroad, to provide a basis for international cooperation on data sharing
- by fostering collaboration and building networks, the repository can continue to grow and provide a valuable resource for researchers in the field of sports science

Limitations 😞

- due to data protection laws, open data access cannot publish other important health data (BMI, blood pressure) or personal information (geolocation data, social status)
- we are currently developing a solution that enables secure data access for sensitive information.
- so far, the database is not widely used abroad, which is why we are striving to expand international cooperation.

Outlook & Relevance: MO|REData facilitates data sharing and analysis, advancing motor performance research and opening new avenues for interdisciplinary studies and enhancing our understanding of human motor performance and their implications for health and education.

References

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Find MO|RE data online:
<https://www.ifss.kit.edu/more/>
www.motor-research-data.de



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