

---

# Assessing the Blue Planet: A Comprehensive Study of Global Water Resources

---

Simon Fehrenbach <sup>\* 1</sup> Christian Jestädt <sup>\* 2</sup> Marten Kreis <sup>\* 3</sup> Josef Müller <sup>\* 4</sup>

## Abstract

Globally, around 4 trillion cubic meters of water are consumed every year. However, 97.5% of the total water resources available on this planet consist of salt water. Thus, the access to a fresh water supply is of critical importance. With a steadily growing population and increasing temperatures, some countries are faced with the problem of dwindling fresh water supplies.

Within the scope of this work, we use global data to understand and visualize global fresh water availability, usage and treatment processes. This could provide a general grasp of the topic and forms a foundation for more in-depth analysis. The main data set that is going to be used for this project is the **FAO AQUASTAT** data set which provides a broad range of metrics regarding fresh water consumption and also influx from the last centuries.

## 1. Contribution Plan

Christian Jestädt focuses on the graphical visualization of data on map. Simon Fehrenbach prepares the data for visualisation and analysis. Marten Kreis analyses and visualizes water withdrawal over time. Josef Müller focuses on analysing and visualising water treatment and wastewater statistics. All authors will jointly write the text of the report and distribute additional minor visualisation and analysis equally.

## References

---

<sup>\*</sup>Equal contribution <sup>1</sup>5451553, simon.fehrenbach@gmail.com, Bsc Sociology with a minor in Computer Science <sup>2</sup>6071013, christian.jestaedt@student.uni-tuebingen.de, BSc Informatik <sup>3</sup>6570772, marten.kreis@student.uni-tuebingen.de, MSc Computer Informatics <sup>4</sup>6565774, josef.mueller@student.uni-tuebingen.de, MSc Computer Informatics.

*Project report for the “Data Literacy” course at the University of Tübingen, Winter 2023/24 (Module ML4201). Style template based on the **ICML style files 2023**. Copyright 2023 by the author(s).*