

## Science and Technology Studies



Science and Technology Studies examines how knowledge is produced, focusing on global inequalities. We analyze scientific publications, researcher mobility, collaboration, and methods to assess their societal and technological impact.

### Summary

Science and Technology Studies explores how science works by analysing data from scientific publications, research databases, and related sources like social media, news, and policy documents. Our research examines where scientists are based, how they move between institutions, who they collaborate with, the methods they use, and the questions they investigate. Our main goal is to understand how knowledge is produced over time and across different regions, with a focus on inequalities in science. We also study the causes of these patterns and their impact on society well-being in general and technological development in particular.

Our research is organized into three interrelated projects.

1. **Data processing and quality assessment.** In this project, we design and implement replicable and open-source workflows for gathering, processing, and assessing the quality of text data bases related to science, policy, news, and public opinion in general. The workflows intend to connect these databases so that they become inputs for the other two research projects on science inequalities and topics, method, and innovations in research
2. **Stratification and Inequalities in Science.** This research project explores inequalities in knowledge

production among individual scholars, research institutions and communities, countries, and world regions. Its main goal is to understand the causes and consequences of inequalities in science from a global and epistemic perspective.

3. **Topics, Methods, and Innovations in Research.** This research project investigates how research topics and methods are used across disciplines, research communities, countries, and world regions. Its main goal is to document the topics and methods that are used across the world in different fields of science and investigate the role of theory and methods innovations.

## Objectives

- Analyze how knowledge is produced over time and across regions.
- Investigate inequalities in science at individual, institutional, national, and global levels.
- Develop open-source workflows for data gathering and quality assessment.
- Study research topics, methods, and innovations across disciplines and regions.
- Examine the societal and technological impact of scientific inequalities.

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