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**Abstract**

We present a method implemented at the French national level to measure the openness of French research data, codes and software.

The French Open Science Monitor (BSO) website: https://frenchopensciencemonitor.esr.gouv.fr presents . . .

The source code and the data of the French Open Science Monitor are shared with an open licence.

**Keywords**: research software, research data, open access, open science, scientometrics

## 1. Introduction

A first version of the French Open Science Monitor, also called BSO for 'Baromètre de la Science Ouverte' was launched in 2019, as a tool for monitoring and steering the public policy linked to the first French National Plan for Open Science (MESRI 2018). Since then 2nd Plan for Open Science (MESRI 2021) has been published to continue the open science policy, with a specific focus, among others, on research data and on softwares. The French Open Science Monitor has been updated (Bracco et al. 2022), however, the public policy areas of research datasets and software were not covered yet by the BSO.

(Du et al. 2021)

## 2. Method

### 2.1 Softwares and codes

### 2.2 Research data

## 3. Results

### 3.4 Limitations and future research

#### 3.4.1 Limitations

#### 3.4.2 Future work and local implementation

## Software and code availability

The source code used for the French Open Science Monitor is available on GitHub, and shared with an open licence.

## Data availability

The data resulting of this work is shared on the French Ministry of Higher Education, Research and Innovation open data portal:

## Acknowledgements

## References

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