

# What if Data Sharing Was a Collaborative Decision?

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SCAN FOR  
POSTER AND  
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## Aim and Method

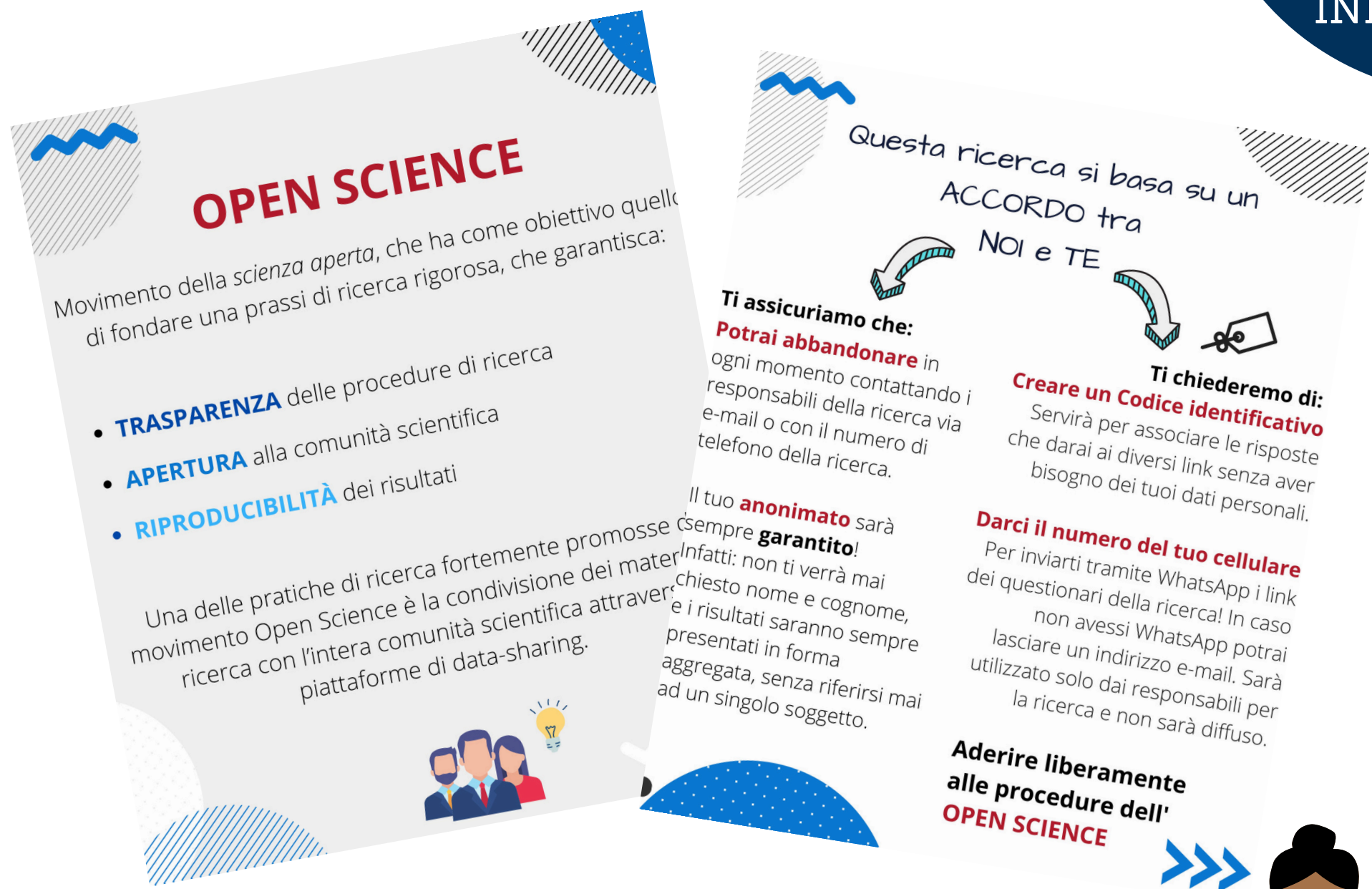
**Data sharing** is a cornerstone of Open Science but is surrounded by ethical and methodological challenges (Munafò et al., 2017).

**Informed consent** should go beyond mere authorization, ensuring participants fully understand the implications of data sharing before agreeing (Miller et al., 2011).

Despite growing awareness, researchers largely retain control over the extent of participant involvement in data-sharing decisions.

What factors are related to participants' decisions to share their data in the context of open science?

We performed a **multinomial logistic regression** model using R, to investigate which **demographic characteristics** (gender, age, and employment status) and **data collection variables** (study and compensation) related to data-sharing decisions across four studies where participants completed **infographics** designed to help them better understand the meaning and implications of their choices.



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### GIOVANI&COVID

- 2020-2021
- intensive longitudinal

People who accessed the online survey (N)

845

People who completed the questionnaire regarding their rights as participant (%N)

55,7%, 471

People who declared that they have read, understood, and are aware of their rights (%N)

51.6%, 436

People who gave consent to participate (%N)

51.4%, 434

People who gave consent to participate and to share their data (%N)

82.7%, 359

### CHATGPT&TAM

- 2023
- cross-sectional

615

81.3%, 500

80.2%, 493

79.0%, 486

99.6%, 484

### SCIENTIFICREASONING2 (SRS1)

- 2024
- cross-sectional

626

72%, 451

67.6%, 423

67.1%, 420

98.3%, 413

### SCIENTIFICREASONING2 (SRS2)

- 2024-2025
- cross-sectional

2298

96.3%, 2214

92.4%, 2123

91.8%, 2109

97.9%, 2062

## Results



By combining participants who gave consent to participate and completed demographic information across the four studie (N = 1295), we conducted a multinomial logistic regression (p > .001; McFadden's R<sup>2</sup> = 0.346) to identify the factors that predicted participants' likelihood of sharing their data.

Predictor		Coef.	Std. Err.	p-val.	OR [CI Lower – CI Upper]
Study					
	<i>Giovani&amp;Covid</i>				
	<i>ChatGPT&amp;TAM</i>	19.64	1824.90	.991	$3.37 \times 10^8$ [0.00 - ∞]
	<i>SRS1</i>	3.11	0.55	< .001	22.47 [7.63 - 66.16]
	<i>SRS2</i>	37.43	2000.82	.985	$1.80 \times 10^{16}$ [.00 - ∞]
Reward					
	<i>None</i>				
	<i>Monetary</i>	-16.79	1824.90	.993	$5.13 \times 10^{-8}$ [.00 - ∞]
Employment status					
	<i>Student</i>				
	<i>Worker</i>	-.24	.30	.419	.78 [.43 - 1.42]
	<i>Other</i>	15.83	1415.90	.991	$7.46 \times 10^6$ [.00 - ∞]
Gender					
	<i>Male</i>				
	<i>Female</i>	.20	0.30	.518	1.22 [.67 - 2.21]
Age					
	<i>Younger</i>				
	<i>Older</i>	-.05	0.02	.016	.95 [.91 - .99]

## Discussion



- **Younger participants** are more likely to share their data. This aligns with past research showing younger people, familiar with social media, are more open to data sharing, while older individuals tend to be more cautious (Armantier et al., 2024).
- Participants in the **Giovani&Covid** were less likely to share data than those in the **SRS1**. The lower data-sharing rate may be due to:
  - 1.Regarding the *Giovani&Covid*:
    - **Higher burden** due to the research design (T0 - daily diary - T1);
    - A rigorous **rights-confirmation process**, which required participants to answer correctly to comprehension questions about data sharing and their rights before giving consent to participate;
    - The **historical context**: In 2021, there was a strong debate about the credibility and trust in science.
  - 2.Regarding the *SRS1*, a "**trust factor**": most of participants were researchers' personal contacts.

This study was **not originally designed with these objectives in mind**, the data collection was not intended for a research on open science!

### OPEN QUESTIONS

- How can we ensure that participants genuinely comprehend the informed consent process and data-sharing procedures? Future research could investigate the **effects of actively involving participants** in consent and open science practices.
- Does creating infographics and raising awareness of participants' rights improve **data quality** or shape **perceptions of scientific research**? Future studies could evaluate **changes** in participants' views by surveying them before and after completion.

