



Online Ethics Center  
FOR ENGINEERING AND SCIENCE

# Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age

## Year

2009

## Body

As digital technologies are expanding the power and reach of research, they are also raising complex issues. These include complications in ensuring the validity of research data; standards that do not keep pace with the high rate of innovation; restrictions on data sharing that reduce the ability of researchers to verify results and build on previous research; and huge increases in the amount of data being generated, creating severe challenges in preserving that data for long-term use.

Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age examines the consequences of the changes affecting research data with respect to three issues - [integrity](#), [accessibility](#), and [stewardship](#) - and finds a need for a new approach to the design and the management of research projects.

The report recommends that all researchers receive appropriate training in the management of research data, and calls on researchers to make all research data, methods, and other information underlying results publicly accessible in a timely manner. The book also sees the stewardship of research data as a critical long-term task for the research enterprise and its stakeholders.

[Read \*Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age\*](#)

## **Rights**

Use of Materials on the OEC

## **Resource Type**

Expert Reports

## **Parent Collection**

The National Academies Press: Consensus Study Reports

## **Topics**

Big Data

Controversies

Data Management

Emerging Technologies

Intellectual Property and Patents

Privacy and Surveillance

Public Well-being

Publication Ethics

Research Misconduct

Responsible Innovation

## **Discipline(s)**

Computer, Math, and Physical Sciences

Engineering

International Perspectives

Life and Environmental Sciences

Research Ethics

Social and Behavioral Sciences

## **Publisher**

National Academies Press

Authoring Institution

National Academies of Sciences, Engineering, and Medicine