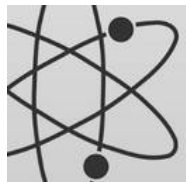


# Why Open Data Means Better Science



Jenny Molloy  
Coordinator, Open Science Working Group  
Open Knowledge Foundation



# The Open Knowledge Foundation

## EMPOWERING THROUGH OPEN KNOWLEDGE

We are a **global movement** to **open up knowledge** around the world and see it **used and useful**.

We bring together a **diverse community**, building a **network** of individuals and organisations, founded on **key principles**.

The Open Knowledge Foundation is **trusted, non-partisan, pioneering** and **passionate**.

We create change by **educating, empowering, evangelising** and **making**.

[What is Open Data?](#)

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[Get Involved](#)



Crime maps UK - Datasets - x

http://thedatahub.org/en/dataset/police-uk

## Crime maps UK

[View](#) [Resources \(3\)](#) ▾ [History](#) | [Settings](#)

police.uk provides Crime Maps and local info on policing throughout England & W

**Resources (edit)**

- [Monthly crime data, down to street level](#) [csv](#)
- [API](#) [rest/json](#)
- [API documentation](#) [html](#)

## CKAN, the world's leading open-source data portal platform

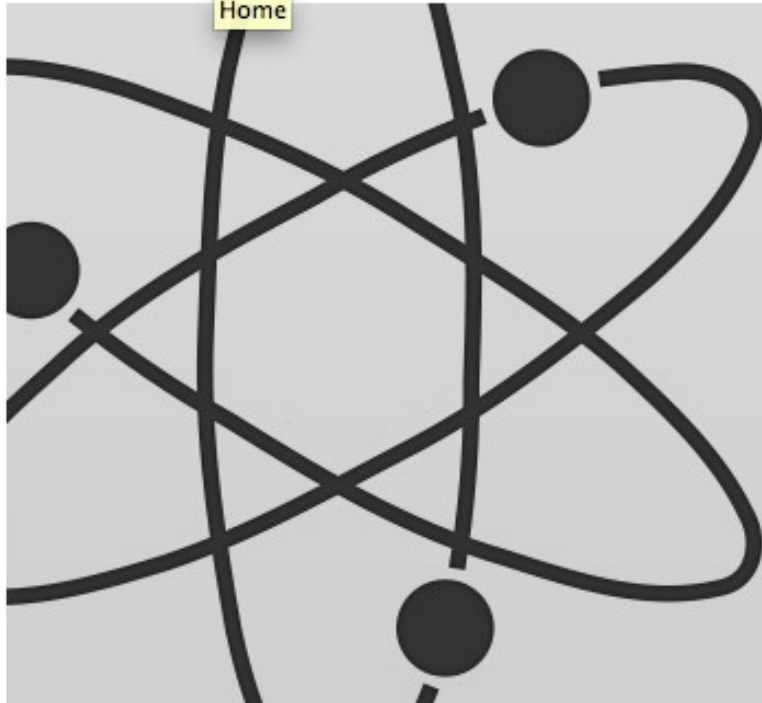
CKAN is a powerful data management system that makes data **accessible** – by providing tools to streamline **publishing**, sharing, **finding** and **using** data. CKAN is aimed at data publishers (national and regional governments, companies and organizations) wanting to make their data open and available.



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**Open science** means many things, but primarily scientific knowledge that people are free to use, re-use and distribute without legal, technological or social restrictions.

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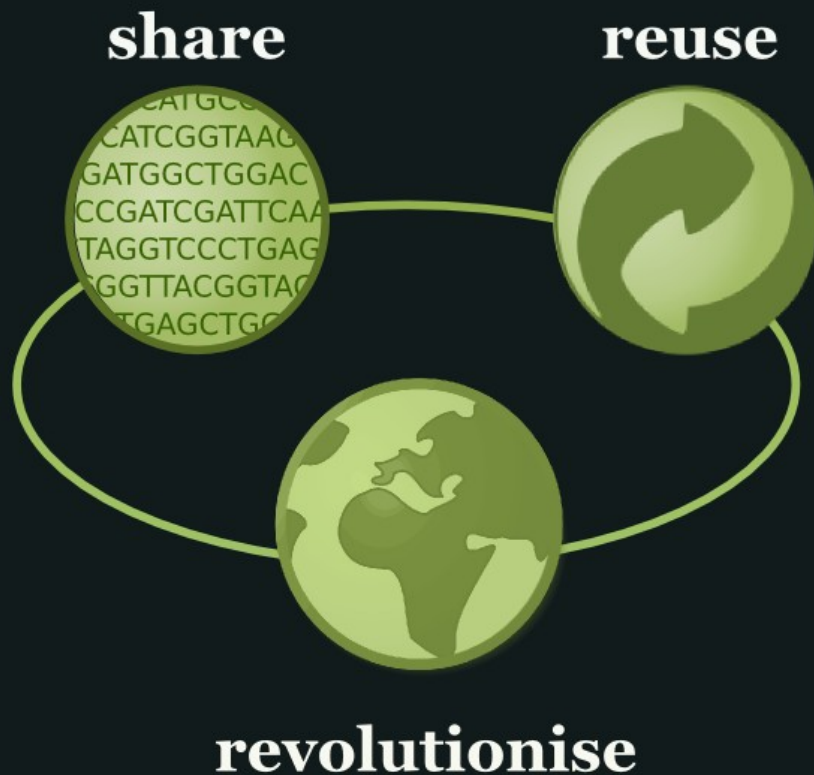
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# Panton Principles

principles for open data in science



[www.pantonprinciples.org](http://www.pantonprinciples.org)

Science is based on **building on, reusing and openly criticising** the published body of scientific knowledge.

For science to **effectively function**, and for society to **reap the full benefits** from scientific endeavours, it is **crucial** that science data be made **open**.







BY



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9,932

VIEWS

31

CITATIONS

132

ACADEMIC  
BOOKMARKS

66

SOCIAL  
SHARES

RESEARCH ARTICLE | FEATURED IN PLOS COLLECTIONS

# Empirical Study of Data Sharing by Authors Publishing in PLoS Journals

Caroline J. Savage, Andrew J. Vickers 

bioethics

## Data Sharing in Medical Research: An Empirical Investigation

Daniel D. Reidpath<sup>1</sup>, Pascale A. Allotey<sup>2</sup>

Article first published online: 16 DEC 2002

DOI: 10.1111/1467-8519.00220

Issue



Bioethics  
Volume 15, Issue 2, pages  
125–134, April 2001

Clinical  
Chemistry

## Data Submission and Quality in Microarray-Based MicroRNA Profiling

Kenneth W. Witwer<sup>1, \*</sup>

OPEN ACCESS PEER-REVIEWED

10,992

VIEWS

10

CITATIONS

93

ACADEMIC  
BOOKMARKS

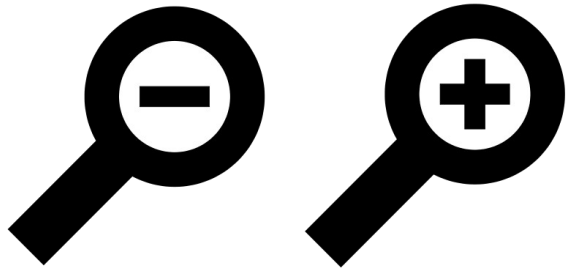
360

SOCIAL  
SHARES

RESEARCH ARTICLE

# Willingness to Share Research Data Is Related to the Strength of the Evidence and the Quality of Reporting of Statistical Results

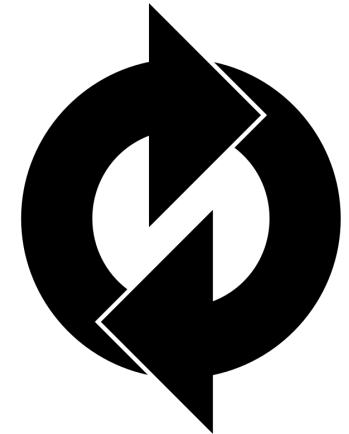
Jelte M. Wicherts , Marjan Bakker, Dylan Molenaar



Verify



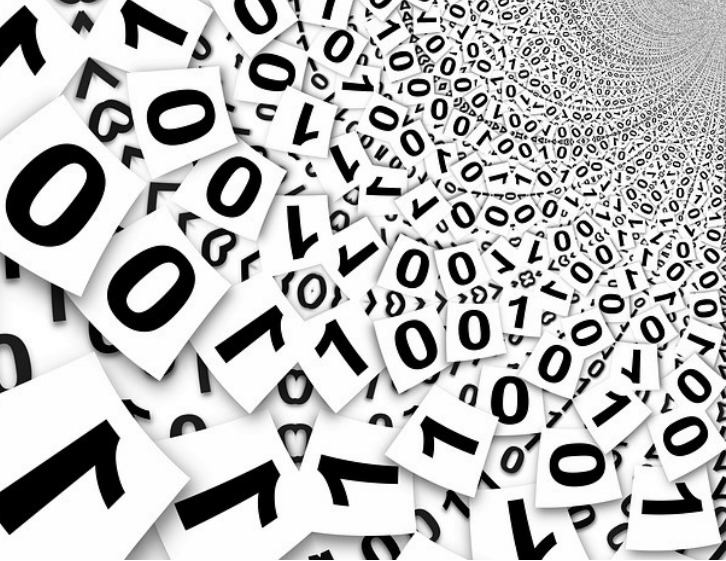
Replicate



Reuse



Is  enough?



Code

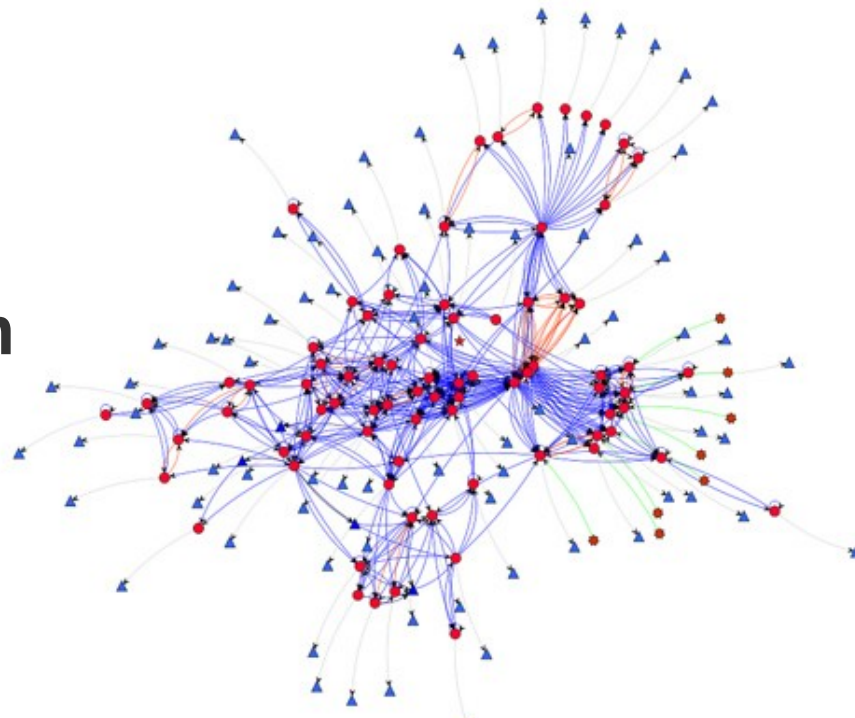
Infrastructure

Training



# Data alone is not enough

Data  
ecosystem



Digital  
commons

# Moving *forward*



# Questions?

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