



Patricia Cruse  
Executive Director, DataCite

## Mission

---



- DataCite was founded in 2009 as an international organisation which aims to:
  - establish easier access to research data
  - increase acceptance of research data as legitimate contributions in the scholarly record
  - support data archiving to permit results to be verified and re-purposed for future study

# Principles

---



- Our purpose is to develop and support methods to locate, identify and cite data and other research objects
- Through collaboration, we:
  - support **researchers** by helping them to find, identify, and cite research data and other research objects with confidence
  - support **data centres** by providing persistent identifiers for datasets, workflows and standards for data publication
  - support **journal publishers** by enabling research articles to be linked to the underlying data/objects

# Our structure

DataCite has 24 members and 8 affiliate members

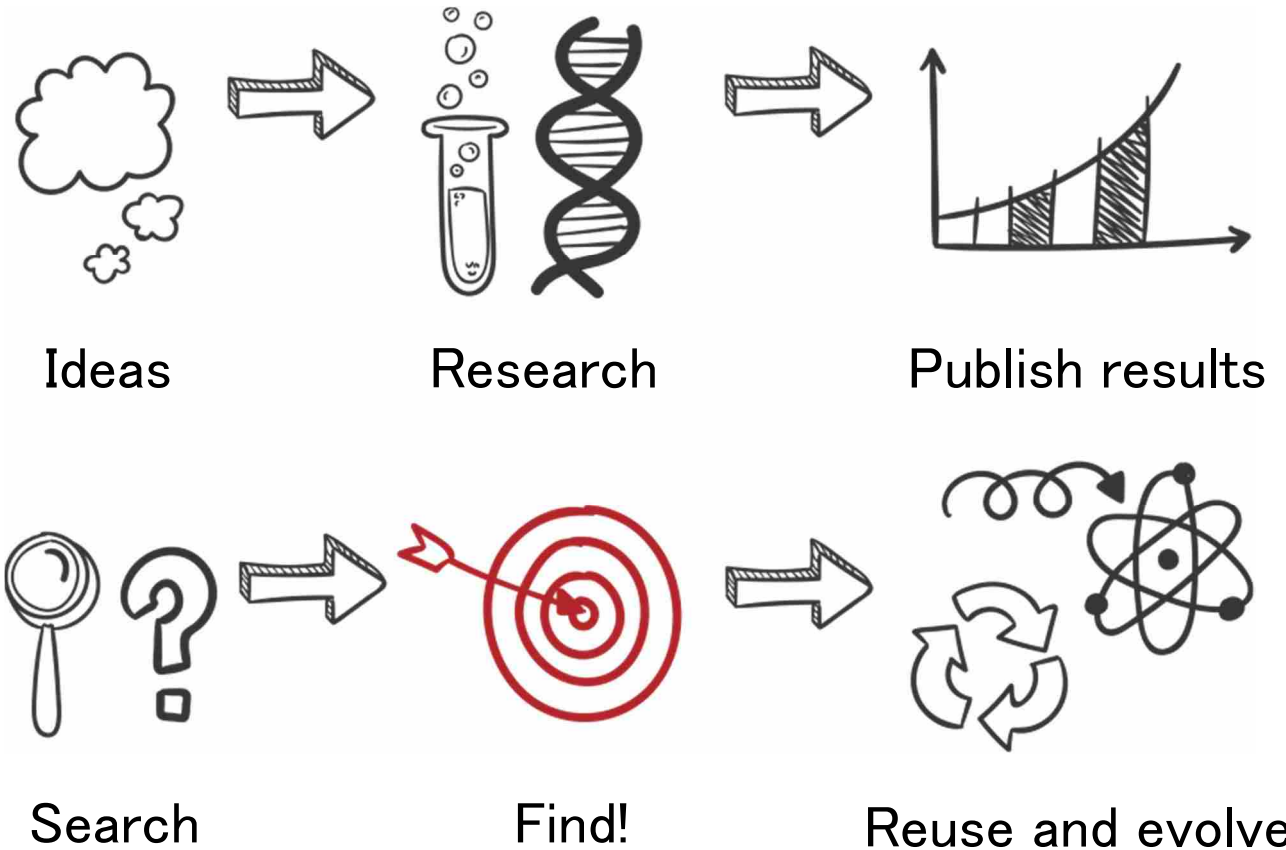


# All around the world



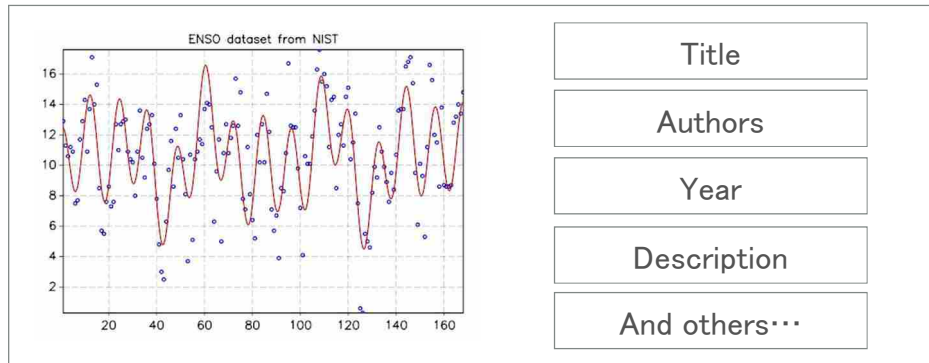
# The advantages of DOIs for research data

- Unique and long-lasting references to research outputs
- PIDs make it easier to find datasets
- PIDs make it easier to cite data and track its impact



# Using DOIs

## 1. Take a dataset



## 2. Describe it

## 3. Assign a DOI



## 4. Reuse and reference!

ATLAS Collaboration, "Data from Figure 7 from: Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC:  $H \rightarrow \gamma\gamma$ ,"  
<http://doi.org/10.7484/INSPIREHEP.DATA.A78C.HK44>

Unique

Persistent

## 5. Enjoy the benefits



# Recent DataCite Activities

---

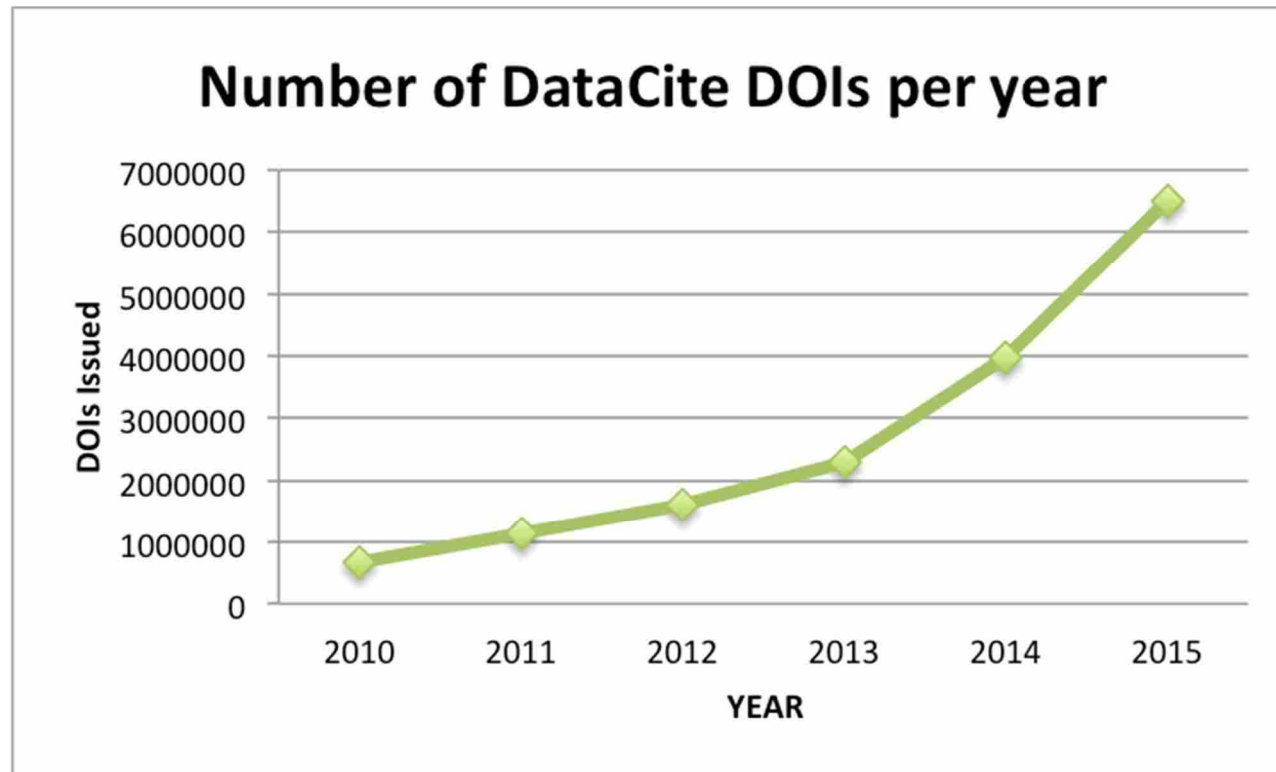
<https://www.datacite.org/>





## Uptake in DataCite DOIs: 2010 – 2014

34% of DataCite's DOIs have been registered in 2015 – 2,229,016 DOIs registered in 2015:  
total = 6,494,634



# Connecting data, publications, citations

**Data from: Rise of the machines – recommendations for ecologists when using next generation sequencing for microsatellite development.**

Michael G Gardner, Alison J Fitch, Terry Bertozzi, Andrew J Lowe, Michael G Gardner, Alison J Fitch, Terry Bertozzi, Andrew J Lowe

DataPackage published 2011 via Dryad Digital Repository

<http://doi.org/10.5061/DRYAD.F1CB2>  Cite

Has part 51 | Is referenced by 1 | Is cited by 6

Has 51 parts

**Data from: Rise of the machines – recommendations for ecologists when using next generation sequencing for microsatellite development.**

Michael G Gardner, Alison J Fitch, Terry Bertozzi, Andrew J Lowe, Michael G Gardner, Alison J Fitch, Terry Bertozzi, Andrew J Lowe

DataPackage published 2011 via Dryad Digital Repository

<http://doi.org/10.5061/DRYAD.F1CB2>  Cite

Has part 51 | Is referenced by 1 | Is cited by 6

DataCite  <http://doi.org/10.1111/1.1755-0998.2011.03037.X>

Is referenced by

**Data from: Rise of the machines – recommendations for ecologists when using next generation sequencing for microsatellite development.**

Michael G Gardner, Alison J Fitch, Terry Bertozzi, Andrew J Lowe, Michael G Gardner, Alison J Fitch, Terry Bertozzi, Andrew J Lowe


DataPackage published 2011 via Dryad Digital Repository

<http://doi.org/10.5061/DRYAD.F1CB2>  Cite

Has part 51 | Is referenced by 1 | Is cited by 6

Is cited by

Examples Stats Su

- Europe PMC  <http://doi.org/10.1073/PNAS.1205856110>
- Europe PMC  <http://doi.org/10.1371/JOURNAL.PONE.0084559>
- PLOS  <http://doi.org/10.1371/JOURNAL.PONE.0084559>
- Europe PMC  <http://doi.org/10.3732/APPS.1200295>
- Europe PMC  <http://doi.org/10.1371/JOURNAL.PONE.0040861>
- PLOS  <http://doi.org/10.1371/JOURNAL.PONE.0040861>



THOR = Technical and  
Human infrastructure  
for Open Research

Our goal is to ensure that every researcher, at any phase of their career, or at any institution, will have seamless access to Persistent Identifiers (PIDs) for their research artefacts and their work will be uniquely attributed to them





## THOR connects...



- PIDs for datasets: DataCite DOIs (Digital Object Identifiers)
- PIDs for researchers: ORCID iDs
- So it is possible to:
  - grant credit to authors
  - support reproducible research
  - build new interoperable services



## But how?

---

- **Research:** understanding challenges, supporting standards, designing workflows
- **Development:** building tools, setting up services, connecting platforms
- **Outreach:** running bootcamps, providing training, aligning communities
- **Evaluation:** assessing sustainability, developing metrics, offering feedback



# THOR Partners



EMBL-EBI



THOR is funded by the European Commission under call H2020-EINFRA-2014-2, project number 654039

Some of the images in these slides were designed by [freepik.com](http://freepik.com)

# Thank you! -- Questions?

---

<https://www.datacite.org/>

